

# ATLAS



## Corrective Action System Evaluation and Monitoring Report

1st half 2023

Circle K # 2720886

UST Site # 01589

4315 Savannah Highway, Ravenel, South Carolina

### PREPARED FOR:



And  
South Carolina Department of Health and Environmental  
Control-UST Management Division

### PREPARED BY:

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**Corrective Action System Evaluation and Monitoring Report**

**1st Semi-Annual Period 2023**

**Circle K Store no. 2720886**

**Release Reported 8/2/2018**

4315 Savannah Highway


Ravenel (Charleston County), South Carolina

**UST Permit No. 01589, CA # 61117**

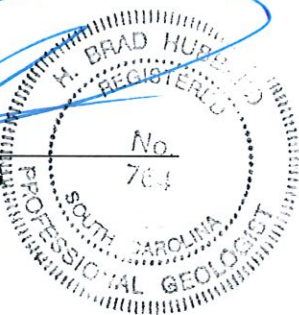
ATC Project No. 257CK88613

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Underground Storage Tank Site Rehabilitation  
Contractor Certification No. 313

May 16, 2023

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## 1.0 INTRODUCTION

Atlas Technical (Atlas, dba ATC) has prepared this Corrective Action System Evaluation (CASE) and Monitoring Report for corrective action of release # 4 (reported August 2, 2018) at the Circle K Store # 2720886, located at 4315 Savannah Highway in Ravenel, Charleston County, South Carolina. The report has been prepared on behalf of the responsible party, Circle K Stores, Inc. The report documents monitoring well gauging and sampling activities, and presents results and performance metrics. The report covers the status of the remedial effort for the first half of 2023.

## 2.0 SITE DESCRIPTION

### 2.1 Site Characterization

A site topographic location map is presented as **Figure 1** and a site map with current monitoring and recovery wells is presented as **Figure 2**. The facility has historically transacted as a convenience store distributing retail gasoline and diesel fuel. The subject property is owned by the Gregorie Land Company, LLC (P.O. Box 248, Mount Pleasant, SC 29465-0248; Telephone: (843) 884-4153). The site is located in the southwestern quadrant of the intersection between Savannah Highway (U.S. Highway 17) and South Carolina Highway 162, east of Ravenel, in Charleston County, SC. The properties located immediately adjacent to the subject property have been commercially developed or remain wooded. According to the SCDHEC UST registry database, the release has a South Carolina Risk-Based Corrective Action (SCRBCA) risk classification score of 1E, based on the presence of free product on surface water in the immediate vicinity.

The site is situated in the lower Coastal Plain physiographic province and is at an estimated elevation of 20 feet above mean sea level. The site has no apparent

slope. It is situated approximately 2,000 feet south and southwest of Wallace River, a sensitive ecological zone estuary. Based on the Tier II Assessment data, site soils are dominantly fine to medium sand, slightly silty and clayey in layers. The water table occurs at depths of one to three feet across the site, and shallow groundwater flow is to the northwest. Utilities available to the site vicinity include water and sewer service. Natural gas and telecom utilities are also along Savannah Highway. It is assumed these are within the saturated zone of the water table in the site vicinity. Although public water service is available, there are a number of in use potable and non-potable wells in an approximately 2,000-foot radius of the site, primarily to the northwest, west and southwest.

## **2.2 Site Background**

Information available in the SCDHEC Underground Storage Tank (UST) Registry database indicates that four (4) USTs have been in operation at the site since 1/1/90. Three (3) USTs exhibiting storage capacities of 10,000 gallons each, store regular unleaded gasoline, premium-grade unleaded gasoline and diesel fuel. A single 6,000 gallon UST stores medium-grade unleaded gasoline. According to data available in the SCDHEC UST Registry, four (4) petroleum releases at the site have been documented. Petroleum release #1 was confirmed on 12/31/91 and received a No Further Action (NFA) designation on 8/29/94. Petroleum release # 2 was confirmed on 2/10/94 and received an NFA designation on 9/27/07. A third petroleum release at the site was assigned on 2/26/18. This release received an NFA on 11/2/18.

Following a significant precipitation event on 08/02/18, suspected gasoline product was identified in the grassed median between northbound and southbound U.S. Highway 17 northwest of the subject property. Suspected gasoline was additionally observed filling cracks in the asphalt of both the southern and northern shoulders of the southbound lane of U.S. Highway 17. Circle K retained ATC to perform emergency abatement measures, and by

08/28/18, approximately 1,270 gallons of product and over 20,000 gallons of petroleum-impacted water had been recovered from shallow sumps installed on the site, and from stormwater drains located in the highway median, and pooled product on the western edge of the highway. On 08/08/18, tank tightness testing performed on the UST System operating at the site determined that the gravity-fed remote fill lines supplying the regular and mid-grade unleaded gasoline USTs and the diesel fuel UST had lost integrity. In accordance with the SCDHEC directive of 08/21/18, ATC performed a Tier II Assessment of the release. The results of investigation were submitted in the Tier II Assessment Report of 12/21/18.

For the Tier II Assessment, a total of 57 screening points were installed to attempt to delineate the free-phase and dissolved contamination in shallow groundwater. An additional eight soil samples were collected to assess soil conditions. As a result of screening, a total of 31 shallow (Type 2) monitoring wells, three deep cased (Type 3) monitoring wells, and six 4-inch diameter recovery wells were installed. The assessment indicated that the flow of groundwater in the upper (shallow) portion of the surficial aquifer was to the northwest, at a relatively flat gradient (0.012 feet per foot) Depth to the water table ranged from 1.3 to 7.6 feet below grade. The potentiometric flow in the lower portion of the surficial aquifer was determined to be to the northeast, at a gradient of 0.031 feet per foot. Seepage velocities were calculated as 2.76 feet/year to the northwest for the shallow portion of the surficial aquifer and 3.04 feet/year for the lower portion of the surficial aquifer. Soil in the upper portion was predominantly slightly silty and clayey sand. In the deeper portion, the percentage of sand relative to silt and clay was even higher. Measurable free phase product (a.k.a. light non aqueous-phase liquid, or LNAPL) was detected in wells 01589 MW-6 (2.3 ft.), 01589 RW-5 (2.8 ft.), and 01589 RW-6 (3.11 ft.). Chemicals of Concern (CoCs) in groundwater above SCDHEC risk-based screening levels (RBSLs) included benzene, toluene, ethylbenzene, total

xylenes, naphthalene, MtBE, tert-Butyl alcohol (tBA), tert-Amyl alcohol (tAA), ethyl-tert Butyl ether (EtBE), and ethyl alcohol (ethanol). The lateral extent of dissolved CoCs above RBSLs was delineated by the well network, and with the exception of benzene in deep well 01589 DW-1, the vertical extent was delineated. Surficial water samples were collected from nine established sampling points in and around the site, including standing pooled water and natural water courses. One of these (SW-4) was found to contain benzene above its RBSL. This sample location is standing water approximately 200 feet north of the site. The other eight sample locations did not contain detectable levels of CoCs.

In conjunction with the Tier II Assessment, private water wells within an approximately 2,000-foot radius of the site identified by SCDHEC personnel were sampled following permission from the owners. These wells, identified as WSW-1 through WSW-29, were variously sampled on 8/17/18 through 8/29/18, 9/27/18, 10/31/18 and 11/9/18. Results have indicated that no CoCs have been detected in any of these wells.

In conjunction with, and following the completion of the Tier II Assessment, there was as-needed vacuum skimming of any residual product atop standing water on the western side of US Highway 17, as well as monitoring and replaced of oil absorbent booms. ATC performed an aggressive fluid/vapor recovery (AFVR) treatment at SCDHEC's request on 12/17/18, resulting in the removal of 266 gallons of product.

Subsequent to the Tier II Assessment, SCDHEC, on 01/21/19 issued a directive for additional assessment and installation of recovery wells, followed by multiple AFVR events. Seven additional shallow monitoring wells were installed, as well as an additional six recovery wells. AFVR events were performed on several recovery and monitoring wells within the US Highway 17 median on the following



dates: 1/25/19, 2/19/19, 3/4/19, 3/18/19, and 4/8/19, and in on-site wells on 3/14/19. A total of 2,234 gallons of product was removed during these six events, yielding the total free product removal effort since initiation of emergency abatement procedures at 3,503 gallons.

Based on the findings to date, SCDHEC ranked the release as a category 1E, and determined that the next course of action was Active Corrective Action (ACA). SCDHEC, in consultation with Circle K, solicited performance-based lump sum bids for ACA from interested qualified UST contractors in a bid package dated 11/22/19. On 1/30/20, ATC was selected as the responsive winning contractor, and cost agreement no. 61117 was issued to Circle K for payment of ACA funding. Following acceptance of the contract, Circle K and SCDHEC directed ATC to perform a pre-ACA Groundwater Monitoring Event. This assessment was conducted in March of 2020, with results reported in the Initial Groundwater Monitoring Report dated 4/13/20. SCDHEC subsequently issued a Corrective Action Plan "Notice To Proceed" on 4/16/20.

ATC engaged its primary subcontractor, AST Environmental, Inc, of Midway, Kentucky (AST) to design and implement the injection of the carbon-based injectate, BOS 200®. AST is a licensed vendor of the BOS 200® system, with the patent held by RPI, Inc. (RPI) of Golden, Colorado. RPI supplies the raw materials and provides technical support. In October 2020, ATC and AST performed a Remedial Design Characterization (RDC) to collect additional soil and water quality data, to design the optimal grid spacing, injection intervals, concentrations and application rates. The RDC included the sampling of existing monitoring wells, gauging free product thickness where present, and collection of soil and groundwater samples from soil borings and temporary wells installed in the area of concern. Based on the results, AST proposed a dual phased approach, with Phase I focused on areas with LNAPL and benzene and total

volatile petroleum hydrocarbon results in soil in excess of 15 milligrams per Kilogram (mg/Kg) and 4,000 mg/Kg, respectively.

Phase I injection activities were undertaken in the period between February 18 and April 8, 2021. Phase I involved the injection of the BOS 200 injectate through a total of 560 injection points spread out over seven identified treatment zones, both on the Circle K site, and off-site in the median of US Highway 17 and on the north shoulder of US 17. A total volume of 35,500 pounds of the BOS 200® injectate were applied (along with 35,400 pounds of supplemental gypsum, 17,100 pounds of magnesium sulfate, 10,700 pounds of food-grade starch, and 605 pounds of yeast extract), with each injection point receiving injectate through either two or three discrete depth intervals, staggered to achieve maximum contact. Following completion of Phase I injections, Atlas (formerly ATC) arranged for AFVR treatments on the recovery wells and monitoring wells which continued to contain LNAPL (including sub-grade road tar that had been dissolved and mobilized by the gasoline release) between April 27 and 29, 2021. A total of 2,300 gallons of product and contact water were removed.

### 3.0 SITE EVALUATION

#### 3.1 Free Product Measurements, Groundwater Flow

Water levels in all monitoring wells associated with the site were measured prior to sampling activities on March 28 and 29, 2023. Water levels were measured with decontaminated electronic water-level indicators, from the top of PVC casing to the water surface in each well. Wells within the area of concern (identified as wells with previously assessed LNAPL and significantly high dissolved constituent concentrations) were measured with a decontaminated oil/water interface probe, as these wells had the greatest potential to contain free-phase petroleum product atop the water table. Depths to water (and product, if encountered) were subtracted from the elevation datum at the top of each well's PVC casing to determine the water table elevation. Well construction details and historic water-level and product-level data since November 2018 is presented as **Table 1**. The groundwater elevations were posted on the site base map and used to construct the groundwater flow maps for the site. It was determined that off-site monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38, all located beyond the site itself on property north of US Highway 17, were destroyed by activities related to the development of this area as a landscaping business. Additionally, recovery well 01589 RW-11 was abandoned on January 16, 2023 because of damage to the well head, and this well was replaced by two new recovery wells, 01589 RW-11A and 01589 RW-11B, placed approximately 10 feet southwest and northeast, respectively, of 01589 RW-11. Copies of SCDHEC Well Record Forms are included in **Appendix A**.

Two distinct hydrogeologic zones have been identified at the site by previous investigations. They are: shallow water table and deep surficial aquifer. Groundwater flow maps for the shallow surficial aquifer and the deeper portion of the surficial aquifer are presented as **Figure 3** and **Figure 4**, respectively.

Both groundwater flow maps indicate that the dominant direction of groundwater flow across the site is north to northwest, consistent with historical interpretations. Water levels in wells within the site itself appeared on average 0.18 feet lower on the site than in September 2022. The water levels in wells generally west and north/northeast of the site were slightly higher than in September 2022. The horizontal gradient, as calculated between wells 01589 MW-14 and 01589 MW-27, is  $(18.53-12.54)/594$  ft., or 0.01. The vertical hydraulic gradient, as measured between paired shallow and deep cased wells, was downward between well pairs 01589 MW-1/DW-1 (0.36 ft.), 01589 DMW-2/01589 MW-22 (0.2 ft.), 01589 MW-24/01589 DW-3 (0.55 ft.), 01589 MW-16/01589 DW-4 (0.12 ft.), and 01589 MW-34/01589 DMW-5 (0.24 ft.).

During this event, LNAPL was encountered in monitoring well 01589 MW-6 (0.27 ft.) and recovery wells 01589 RW-01 (0.03 ft.), 01589 RW-5 (0.22 ft.), 01589 RW-6 (0.59 ft.), 01589 RW-09 (0.13 ft.), 01589 RW-10 (0.02 ft.) and new recovery wells 01589 RW-11A (0.09 ft.) and 01589 RW-11B (0.36 ft.). Relative to data measured in September 2022, product thicknesses had decreased in RW-10, but remained the same or slightly increased in other wells. The LNAPL encountered in recovery wells 01589 RW-11A and 01589 RW-11B was black and viscous, and appeared to be a mixture of gasoline product and tar dissolved by the gasoline from the asphalt subbase of the highway. Thickness measurements in these wells could only be approximated using a bailer.

### 3.2 Groundwater Sampling and Analyses

Groundwater samples were collected from monitoring wells for analysis of chemicals of concern (COCs) on March 28 and 29, 2023. Samples were collected from all existing monitoring wells that were free of LNAPL at the site, including those with no established site-specific target levels (SSTLs). Samples were also collected from several recovery wells with no measurable LNAPL (specifically 01589 RW-2, 01589 RW-3, 01589 RW-4, 01589 RW-7, 01589 RW-8, and 01589 RW-12). During the sampling event, it was confirmed that re-development activities had resulted in the destruction of off-site monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37, and 01589 MW-38.

Monitoring wells in which the static water levels were above the screened interval were purged of standing water prior to sample collection. These included wells 01589 MW-21, 01589 MW-36, 01589 RW-8 and the deep cased wells 01589 DMW-1 through 01589 DMW-5. Removal of three to five well casing volumes was performed on these wells. Measurements of field parameters (temperature, pH, specific conductivity, dissolved oxygen, turbidity) were made and recorded prior to sample collection. Wells in which the static water table was situated within the well's screened interval were sampled without purging, although a measurement of field parameters was made and recorded prior to sample collection. Field data information sheets for all sampled wells are presented in **Appendix B**. Water generated during pre-sample purging was placed into steel 55-gallon drums and removed for disposal at a SCDHEC-approved facility on April 6, 2023. Water samples were collected with dedicated and disposable PVC bailers, with water transferred into laboratory-supplied 40 milliliter (ml) VOA bottles contained approximately 2 ml of preservative (hydrochloric acid). The bottles were filled so that there was no air headspace in the containers when sealed, as per EPA protocol. Bottles were sealed, labelled and placed in an iced cooler to maintain temperatures as close as possible to 4°C.

Duplicate samples were collected from wells 01589 MW-2 (DUP-1) and 01589 MW-33 (DUP-2) concurrent with collection of the original samples. Field blanks were collected on March 28 and 29, 2023 by introduction of de-ionized water provided by the laboratory into an unused bailer and transferring the water into sample containers. Trip blanks and temperature blanks were also shipped to the laboratory for the sampling event. The water samples for all sample dates were transported via courier to a SC-certified analytical laboratory (Pace Analytical, Huntersville, NC) for analysis. Standard chain-of-custody procedures were followed throughout the sampling process.

Groundwater samples from monitoring wells and quality control samples (duplicates, field and trip blanks) were analyzed in accordance with the CAP for the following COCs: benzene, toluene, ethylbenzene, total xylenes (m, o and p isomers), naphthalene, methyl tert-butyl ether (MTBE), 1,2 dichloroethane (1,2 DCA) and the eight SCDHEC-regulated oxygenates, by SW-846 Method 8260B.

Results are summarized for monitoring wells in **Table 2**. **Table 3** presents an historic summary since initiation of assessment and remediation for petroleum constituents (benzene, toluene, ethylbenzene, total xylenes, naphthalene) and additives (MTBE, and 1,2-dichloroethane), along with applicable site-specific target levels (SSTL's). Maps illustrating the extent of LNAPL and the isopleths for benzene (**Figure 5**), toluene (**Figure 6**), ethylbenzene (**Figure 7**), total xylenes (**Figure 8**), MTBE (**Figure 9**), and naphthalene (**Figure 10**) are attached.

The Laboratory Analytical Reports for all groundwater sampling data, including chain-of-custody documentation and quality assurance, are presented in **Appendix C**.

### **3.3 Surface Water Sampling and Analysis**

Surface water sampling was also performed on March 29, 2023, from the established sampling points set out in the CAP. Surface water sample points are indicated on **Figure 11**, and includes sample locations situated northeast, north and west of the area of investigation. All sample locations were able to be sampled at this time. Samples were collected using either a Teflon dipper or a PVC bailer. Where deep pooled water was encountered the sample was collected through the entire depth profile. No duplicate samples were collected for surface water samples.

Surface water samples were analyzed in accordance with the CAP for the following COCs: BTEX, naphthalene, MTBE, and 1,2 DCA, and the eight SCDHEC - regulated oxygenates by SW-846 Method 8260B. Results are presented on **Table 6** and on **Figure 11**.

The Laboratory Analytical Reports for all surface water sampling data, including chain-of-custody documentation and quality assurance, are presented in **Appendix C**.

### **3.4 Water Well Sampling and Analysis**

Selected water supply wells were sampled in accordance with the CAP. Well locations 01589 WSW-12, WSW-13, and WSW-16 were accessed for sampling on March 28, 2023.

Water wells were sampled through existing plumbing at the well head after allowing an approximate five-minute purge of the system before sample collection. A quality control duplicate (DUP-1) was collected from water well 01589 WSW-12 on March 28, 2023. A field blank (01589 WSW-FB) was collected on the same day. A trip blank accompanied the sample shipper.

Water well samples and quality control samples (duplicates, blanks) were analyzed in accordance with the CAP for the following COCs: BTEX, naphthalene, MTBE, and 1,2 DCA by EPA Method 524.2 (drinking water), and the eight SCDHEC-regulated oxygenates by SW-846 Method 8260B. Results are presented on **Table 5** and on **Figure 12**. The Laboratory Analytical Reports for water well sampling data, including chain-of-custody documentation and quality assurance, are presented in **Appendix C**.

### 3.5 Data Quality Objectives

To ensure adherence to the methodologies described in the QAPP Addendum, a Contractor Checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in **Appendix D**. The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

#### 3.5.1 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. Field duplicate samples were collected from monitoring wells 01589 MW-2 and 01589 MW-33 and water supply well 01589 WSW-12. The duplicates were submitted for analysis of the same parameters as the original samples. The RPD was calculated using the formula:

$$RPD (\%) = \text{Absolute value of } \left( \frac{(C_S - C_D)}{(C_S + C_D) \div 2} \right) \times 100$$

Where:  $C_S$  = Concentration of the sample

$C_D$  = Concentration of the duplicate sample



The RPDs were compared to the 20% RPD limit established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in **Table 8** for monitoring and recovery wells, and **Table 9** for water wells. The 20% RPD was exceeded in one instance: naphthalene between samples 01589 MW-2 and DUP-1 (36%). Both analyses required sample dilutions (12.5 times) which may have caused the deviation.

### **3.3.2 Bias**

Bias analysis of the data can indicate accuracy of the laboratory measurement system. The results of the analysis of the field blanks indicate that there were no sources of error in the sampling process, preservation, handling, sample preparation and analytical techniques. No deficiencies were noted. The results of the bias analysis of the field and trip blanks are included in **Tables 8, 9** and **10**, respectively.

### **3.3.3 Representativeness**

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the Programmatic QAPP criteria for representativeness.

### **3.3.4 Completeness**

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain LNAPL, was accessible, and was not dry, was sampled. The purpose of the sampling event was to monitor the petroleum impact to groundwater.

### **3.3.5 Comparability**

The results of laboratory analyses of groundwater at the site between 2018 and this event are included in this report. The samples were collected using similar field protocols, analyzed using the same EPA Methods, and the data are reported in micrograms per liter ( $\mu\text{g/L}$ ) to allow for easy comparison. The comparability criteria are considered to be met.

### **3.3.6 Method Sensitivity**

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in **Tables 8, 9** and **10**, respectively. The following samples required dilutions due to high concentrations of certain constituents, so the sensitivity limits were not attained: samples from 01589 MW-1, 01589 MW-2, 01589 MW-7, 01589 MW-12, 01589 MW-13, 01589 MW-15, 01589 MW-33, 01589 RW-2, 01589 RW-3, 01589 RW-7, 01589 RW-8, and 01589 RW-12.

## 4.0 PERFORMANCE METRICS

### 4.1 Remediation System Operation

During the period between the prior CASE report submittal and this reporting period, the following remedial actions occurred at the site.

- > An 8-hour AFVR treatment was performed on well 01589 RW-1, followed by an 8-hour AFVR treatment performed on wells 01589 MW-6, 01589 RW-5, 01589 RW-6, 01589 RW-9 and 01589 RW-10. The treatments occurred on January 16 and 17, 2023. A total of 2,214 gallons of product and petroleum-impacted water were removed for disposal.
- > An 8-hour AFVR treatment was performed on well 01589 RW-1, followed by an 8-hour AFVR treatment performed on well 01589 MW-33, followed an 8-hour AFVR treatment performed on wells 01589 MW-6, 01589 RW-5, 01589 RW-6, 01589 RW-9 and 01589 RW-10. The treatments occurred on February 13, 14 and 15, 2023. A total of 3,741 gallons of product and petroleum-impacted water were removed for disposal.
- > On January 16, 2023, recovery well 01589 RW-11 was abandoned by grout insertion (total depth of six feet) due to well head damage. Two replacement wells were installed. Well 01589 RW-11A was placed approximately 10 feet southwest of 01589 RW-11, adjacent to the paved shoulder of US 17. Also, recovery well 01589 RW-11B was placed approximately 10 feet northeast of 01589 RW-11, also along the US 17 shoulder. Both wells extended to a depth of 12 feet and were installed with 10 feet of 20-slot four-inch diameter screen and casing, set in a flush-mounted manhole with a two by two-foot concrete well pad. Well record forms are included in this report.

## 4.2 Groundwater COC Level Evaluation

Based on the results of the CASE sampling performed for the 1st half of 2023, the following observations are presented:

- > Water levels on the site (excluding the outbound wells to the north, west and south) were found to be on average 0.18 feet lower than in September 2022. Groundwater flow is to the north-northwest, in accordance with historic trends. Free product remains in monitoring well 01589 MW-6, and recovery wells 01589 RW-1, 01589 RW-5, 01589 RW-6, 01589 RW-9, and 01589 RW-10. Product levels remain minimal (less than 1.00 foot), with the greatest accumulation in 01589 RW-6. Free-phase product found in new recovery wells 01589 RW-11A (0.09 ft. estimated) and 01589 RW-11B (0.36 ft. estimated) appears to be due to the partial dissolution of asphalt subbase by gasoline.
- > Wells in which one or more COC are above respective SSTLs during this reporting period include 01589 MW-1, 01589 MW-2, 01589 MW-3, 01589 MW-7, 01589 MW-12, 01589 MW-13, 01589 MW-15, 01589 MW-22, 01589 MW-26, 01589 MW-29, 01589 MW-32, 01589 MW-33, 01589 MW-36, 01589 RW-4, and 01589 RW-12.
- > COCs were below detection in water supply well samples collected during this reporting period.
- > All established surface water locations were able to be sampled during this period. Trace levels of toluene (ranging from 0.51 J to 2.3 µg/L) were detected in samples 01589 SW-1, SW-2, SW-3, SW-4 and SW-5. No other COCs were detected. It is unclear based on these limited results whether the toluene is the result of site impact or is the result of laboratory contamination. Addition monitoring should answer this.

The calculation of dissolved COC mass reduction is presented as **Table 11**. The calculated reduction of current dissolved COC mass relative to initial mass above SSTL mass is estimated at 48.07% for this reporting period. Please note that due to

monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38 having been recently destroyed by re-development activities on the property north of the site, the most recently available historical data was used in this evaluation. Also, well 01589 MW-6, which currently contains a thin free product layer, utilized the dissolved COC data from March 2022.

## 5.0 SUMMARY

During this reporting period, Atlas sampled all but five monitoring wells associated with the site, all nine surface water locations and three of the four water wells specified in the CAP. Monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38 were found to have been destroyed by recent development of property to the north of the site, and 01589 MW-6 continues to contain product. Water well 01589 WSW-15 has been determined to be decommissioned and has been removed from the sampling program.

Activities planned for the upcoming period before the next sampling event include replacement of destroyed monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38. Additional AFVR treatments will be undertaken to continue to remove residual free product. The emulsified product in wells 01589 RW-11A and 01589 RW-11B will be removed by hand-bailing as necessary to see if levels can be reduced.

In accordance with the sampling schedule presented in the CAP, the second semi-annual sampling of all wells will be conducted in September 2023, and a CASE report of findings will be submitted.

It is requested that a monitoring well installation permit be issued for the replacement of the destroyed monitoring wells 01589 MW-26, 01589 MW-29, 01589 MW-37 and 01589 MW-38.

## TABLES

**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-1	11/22/2018	21.62	2.0 - 12.0	12.0	NM	4.82	0.00	16.80
	2/26/2019				NM	4.30	0.00	17.32
	3/11/2019				NM	4.53	0.00	17.09
	4/25/2019				NM	5.24	0.00	16.38
	7/8/2019				NM	4.17	0.00	17.45
	3/2/2020				NM	2.67	0.00	18.95
	4/20/2021				NM	5.09	0.00	16.53
	10/13/2021				NM	3.72	0.00	17.90
	3/29/2022				NM	5.93	0.00	15.69
	9/28/2022				NM	4.14	0.00	17.48
	3/28/2023				NM	4.42	0.00	17.20
01589 MW-2	11/22/2018	21.59	2.0 - 12.0	12.0	NM	4.93	0.00	16.66
	2/12/2019				NM	3.37	0.00	18.22
	2/26/2019				NM	3.83	0.00	17.76
	3/11/2019				NM	4.07	0.00	17.52
	4/25/2019				NM	4.99	0.00	16.60
	7/8/2019				NM	3.78	0.00	17.81
	3/2/2020				2.28	2.30	0.02	19.28
	4/20/2021				NM	4.87	0.00	16.72
	10/13/2021				NM	3.41	0.00	18.18
	3/29/2022				NM	5.75	0.00	15.84
	9/28/2022				NM	3.94	0.00	17.65
3/28/2023	NM	4.17	0.00	17.42				
01589 MW-3	11/22/2018	22.94	2.0 - 12.0	12.0	NM	5.47	0.00	17.47
	2/12/2019				NM	3.81	0.00	19.13
	2/26/2019				NM	4.29	0.00	18.65
	3/11/2019				NM	4.55	0.00	18.39
	4/25/2019				NM	5.31	0.00	17.63
	7/8/2019				NM	4.80	0.00	18.14
	3/2/2020				NM	3.10	0.00	19.84
	4/20/2021				NM	4.70	0.00	18.24
	10/13/2021				NM	4.01	0.00	18.93
	3/29/2022				NM	6.40	0.00	16.54
	9/28/2022				NM	4.38	0.00	18.56
3/28/2023	NM	4.54	0.00	18.40				
01589 MW-4	11/22/2018	22.80	2.0 - 12.0	12.0	NM	4.70	0.00	18.10
	2/26/2019				NM	4.46	0.00	18.34
	3/11/2019				NM	4.67	0.00	18.13
	4/25/2019				NM	5.33	0.00	17.47
	7/8/2019				NM	3.77	0.00	19.03
	3/2/2020				NM	2.73	0.00	20.07
	4/20/2021				NM	4.85	0.00	17.95
	10/13/2021				NM	3.41	0.00	19.39
	3/29/2022				NM	6.15	0.00	16.65
	9/27/2022				NM	4.16	0.00	18.64
	3/28/2023				NM	4.60	0.00	18.20
01589 MW-5	11/22/2018	23.57	2.0 - 12.0	12.0	NM	5.19	0.00	18.38
	2/26/2019				NM	4.46	0.00	19.11
	3/11/2019				NM	4.74	0.00	18.83
	4/25/2019				NM	5.41	0.00	18.16
	7/8/2019				NM	4.30	0.00	19.27
	3/2/2020				NM	3.13	0.00	20.44
	4/20/2021				NM	4.81	0.00	18.76
	10/13/2021				NM	3.68	0.00	19.89
	3/29/2022				NM	6.44	0.00	17.13
	9/27/2022				NM	4.33	0.00	19.24
	3/28/2023				NM	4.61	0.00	18.96
01589 MW-6	11/22/2018	19.33	2.0 - 12.0	12.0	2.30	3.06	0.76	16.83
	2/12/2019				2.22	2.16	0.06	17.21
	2/26/2019				2.77	2.96	0.19	16.51
	3/11/2019				0.00	3.02	0.00	16.31
	4/25/2019				3.66	3.72	0.06	15.57
	7/8/2019				2.62	2.71	0.09	16.55
	3/2/2020				1.16	2.25	1.09	16.27
	4/20/2021				3.47	3.62	0.15	15.60
	10/13/2021				2.00	2.32	0.32	16.77
	3/30/2022				4.39	4.39	0.00	14.94
	9/28/2022				2.55	2.79	0.24	16.36
3/28/2023	2.71	2.98	0.27	16.15				
01589 MW-7	11/22/2018	19.55	2.0 - 12.0	12.0	NM	2.98	0.00	16.57
	2/12/2019				NM	2.45	0.00	17.10
	2/26/2019				NM	2.84	0.00	16.71
	3/11/2019				NM	2.99	0.00	16.56
	4/25/2019				NM	3.61	0.00	15.94
	7/8/2019				NM	2.44	0.00	17.11
	3/2/2020				NM	1.80	0.00	17.75
	4/20/2021				NM	3.96	0.00	15.59
	10/14/2021				NM	2.33	0.00	17.22
	3/30/2022				NM	4.18	0.00	15.37
	9/28/2022				NM	2.81	0.00	16.74
3/29/2023	NM	2.93	0.00	16.62				

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)  
 \* = product thickness measured through use of a bailer



**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-8	11/22/2018	19.14	2.0 - 12.0	12.0	NM	3.05	0.00	16.09
	2/26/2019				NM	2.80	0.00	16.34
	3/11/2019				NM	2.93	0.00	16.21
	4/25/2019				NM	3.64	0.00	15.50
	7/8/2019				NM	2.52	0.00	16.62
	3/2/2020				NM	1.52	0.00	17.62
	4/20/2021				NM	3.71	0.00	15.43
	10/14/2021				NM	2.21	0.00	16.93
	3/30/2022				NM	3.94	0.00	15.20
	9/28/2022				NM	3.09	0.00	16.05
	3/29/2023				NM	3.04	0.00	16.10
01589 MW-9	11/22/2018	16.50	2.0 - 12.0	12.0	NM	2.32	0.00	14.18
	2/26/2019				NM	2.77	0.00	13.73
	3/11/2019				NM	2.82	0.00	13.68
	4/25/2019				NM	3.33	0.00	13.17
	7/8/2019				NM	2.30	0.00	14.20
	3/2/2020				NM	2.03	0.00	14.47
	4/20/2021				well not found			
	10/14/2021				NM	2.37	0.00	14.13
	3/30/2022				NM	3.35	0.00	13.15
	9/27/2022				NM	3.13	0.00	13.37
	3/29/2023				NM	3.00	0.00	13.50
01589 MW-10	11/22/2018	17.63	2.0 - 12.0	12.0	NM	3.09	0.00	14.54
	2/26/2019				NM	3.04	0.00	14.59
	3/11/2019				NM	3.04	0.00	14.59
	4/25/2019				NM	3.61	0.00	14.02
	7/8/2019				NM	2.73	0.00	14.90
	3/2/2020				NM	2.26	0.00	15.37
	4/20/2021				NM	3.92	0.00	13.71
	10/14/2021				NM	2.66	0.00	14.97
	3/30/2022				NM	3.53	0.00	14.10
	9/27/2022				NM	3.53	0.00	14.10
	3/29/2023				NM	3.13	0.00	14.50
01589 MW-11	11/22/2018	18.13	2.0 - 12.0	12.0	NM	2.85	0.00	15.28
	2/26/2019				NM	3.03	0.00	15.10
	3/11/2019				NM	3.09	0.00	15.04
	4/25/2019				NM	3.76	0.00	14.37
	7/8/2019				NM	2.74	0.00	15.39
	3/2/2020				NM	2.36	0.00	15.77
	4/20/2021				NM	4.03	0.00	14.10
	10/14/2021				NM	2.54	0.00	15.59
	3/29/2022				NM	3.56	0.00	14.57
	9/27/2022				NM	3.78	0.00	14.35
	3/29/2023				NM	3.21	0.00	14.92
01589 MW-12	11/22/2018	21.38	2.0 - 12.0	12.0	NM	4.76	0.00	16.62
	2/12/2019				NM	3.70	0.00	17.68
	2/26/2019				NM	4.15	0.00	17.23
	3/11/2019				NM	4.36	0.00	17.02
	4/25/2019				NM	5.28	0.00	16.10
	7/8/2019				NM	3.97	0.00	17.41
	3/2/2020				NM	2.17	0.00	19.21
	4/20/2021				NM	5.19	0.00	16.19
	10/13/2021				NM	3.54	0.00	17.84
	3/29/2022				NM	5.83	0.00	15.55
	9/28/2022				NM	4.24	0.00	17.14
3/28/2023	NM	4.30	0.00	17.08				
01589 MW-13	11/22/2018	20.48	2.0 - 12.0	12.0	NM	4.07	0.00	16.41
	2/12/2019				NM	3.11	0.00	17.37
	2/26/2019				NM	3.54	0.00	16.94
	3/11/2019				NM	3.71	0.00	16.77
	4/25/2019				NM	4.70	0.00	15.78
	7/8/2019				NM	3.26	0.00	17.22
	3/2/2020				NM	1.95	0.00	18.53
	4/20/2021				NM	4.61	0.00	15.87
	10/13/2021				NM	2.74	0.00	17.74
	3/29/2022				NM	5.21	0.00	15.27
	9/27/2022				NM	3.66	0.00	16.82
3/28/2023	NM	3.79	0.00	16.69				
01589 MW-14	11/22/2018	23.45	2.0 - 12.0	12.0	NM	5.96	0.00	17.49
	2/26/2019				NM	4.60	0.00	18.85
	3/11/2019				NM	4.85	0.00	18.60
	4/25/2019				NM	5.92	0.00	17.53
	7/8/2019				NM	5.10	0.00	18.35
	3/2/2020				NM	3.17	0.00	20.28
	4/20/2021				NM	5.40	0.00	18.05
	10/13/2021				NM	4.20	0.00	19.25
	3/29/2022				NM	6.69	0.00	16.76
	9/27/2022				NM	4.95	0.00	18.50
	3/28/2023				NM	4.92	0.00	18.53

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)  
 \* = product thickness measured through use of a bailer

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**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-15	11/22/2018	22.82	2.0 - 12.0	12.0	NM	5.48	0.00	17.34
	2/26/2019				NM	4.41	0.00	18.41
	3/11/2019				NM	4.89	0.00	17.93
	4/25/2019				NM	5.95	0.00	16.87
	7/8/2019				NM	4.70	0.00	18.12
	3/2/2020				NM	3.05	0.00	19.77
	4/20/2021				NM	5.67	0.00	17.15
	10/13/2021				NM	4.12	0.00	18.70
	3/29/2022				NM	6.63	0.00	16.19
	9/27/2022				NM	4.71	0.00	18.11
	3/28/2023				NM	4.97	0.00	17.85
01589 MW-16	11/22/2018	21.18	2.0 - 12.0	12.0	NM	4.10	0.00	17.08
	2/12/2019				NM	2.89	0.00	18.29
	2/26/2019				NM	3.30	0.00	17.88
	3/11/2019				NM	3.59	0.00	17.59
	4/25/2019				NM	4.44	0.00	16.74
	7/8/2019				NM	3.04	0.00	18.14
	3/2/2020				NM	2.03	0.00	19.15
	4/20/2021				NM	4.45	0.00	16.73
	10/13/2021				NM	2.61	0.00	18.57
	3/29/2022				NM	5.33	0.00	15.85
	9/27/2022				NM	3.43	0.00	17.75
3/28/2023	NM	3.61	0.00	17.57				
01589 MW-17	11/22/2018	20.96	2.0 - 12.0	12.0	NM	4.04	0.00	16.92
	2/26/2019				NM	3.40	0.00	17.56
	3/11/2019				NM	3.68	0.00	17.28
	4/25/2019				NM	4.75	0.00	16.21
	7/8/2019				NM	3.09	0.00	17.87
	3/2/2020				NM	1.75	0.00	19.21
	4/20/2021				NM	4.65	0.00	16.31
	10/13/2021				NM	2.74	0.00	18.22
	3/29/2022				NM	5.39	0.00	15.57
	9/27/2022				NM	3.66	0.00	17.30
	3/28/2023				NM	3.77	0.00	17.19
01589 MW-18	11/22/2018	20.05	2.0 - 12.0	12.0	NM	3.86	0.00	16.19
	2/26/2019				NM	3.44	0.00	16.61
	3/11/2019				NM	3.56	0.00	16.49
	4/25/2019				NM	4.59	0.00	15.46
	7/8/2019				NM	3.29	0.00	16.76
	3/2/2020				NM	3.07	0.00	16.98
	4/20/2021				NM	4.62	0.00	15.43
	10/13/2021				NM	2.68	0.00	17.37
	3/29/2022				NM	5.17	0.00	14.88
	9/27/2022				NM	3.64	0.00	16.41
	3/28/2023				NM	3.73	0.00	16.32
01589 MW-19	11/22/2018	19.82	2.0 - 12.0	12.0	NM	3.71	0.00	16.11
	2/26/2019				NM	2.74	0.00	17.08
	3/11/2019				NM	2.70	0.00	17.12
	4/25/2019				NM	4.71	0.00	15.11
	7/8/2019				NM	3.05	0.00	16.77
	3/2/2020				NM	1.86	0.00	17.96
	4/20/2021				NM	4.72	0.00	15.10
	10/13/2021				NM	2.30	0.00	17.52
	3/29/2022				NM	5.22	0.00	14.60
	9/27/2022				NM	3.73	0.00	16.09
	3/28/2023				NM	3.73	0.00	16.09
01589 MW-20	11/22/2018	18.53	2.0 - 12.0	12.0	NM	2.71	0.00	15.82
	2/26/2019				NM	2.60	0.00	15.93
	3/11/2019				NM	2.76	0.00	15.77
	4/25/2019				NM	3.74	0.00	14.79
	7/8/2019				NM	2.19	0.00	16.34
	3/2/2020				NM	0.80	0.00	17.73
	4/20/2021				NM	3.78	0.00	14.75
	10/13/2021				NM	1.48	0.00	17.05
	3/29/2022				NM	4.13	0.00	14.40
	9/28/2022				NM	2.87	0.00	15.66
	3/28/2023				NM	2.87	0.00	15.66
01589 MW-21	11/22/2018	16.16	2.0 - 12.0	12.0	NM	1.34	0.00	14.82
	2/26/2019				NM	0.00	0.00	16.16
	3/11/2019				NM	0.99	0.00	15.17
	4/25/2019				NM	1.24	0.00	14.92
	7/8/2019				NM	0.25	0.00	15.91
	3/2/2020				NM	0.00	0.00	16.16
	4/20/2021				NM	2.35	0.00	13.81
	10/14/2021				NM	0.50	0.00	15.66
	3/28/2022				NM	2.32	0.00	13.84
	9/27/2022				NM	1.50	0.00	14.66
	3/29/2023				NM	1.31	0.00	14.85

btoc = below top of casing  
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 \* = product thickness measured through use of a bailer

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**Circle K 2720886**  
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**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-22	11/22/2018	18.79	2.0 - 12.0	12.0	NM	3.96	0.00	14.83
	2/26/2019				NM	3.97	0.00	14.82
	3/11/2019				NM	4.10	0.00	14.69
	4/25/2019				NM	5.03	0.00	13.76
	7/8/2019				NM	3.56	0.00	15.23
	3/2/2020				NM	2.17	0.00	16.62
	4/20/2021				NM	5.16	0.00	13.63
	10/14/2021				NM	3.03	0.00	15.76
	3/28/2022				NM	5.19	0.00	13.60
	9/27/2022				NM	4.28	0.00	14.51
	3/29/2023				NM	4.26	0.00	14.53
01589 MW-23	11/22/2018	22.36	5.0 - 15.0	15.0	NM	7.61	0.00	14.75
	2/26/2019				NM	7.33	0.00	15.03
	3/11/2019				NM	7.49	0.00	14.87
	4/25/2019				NM	8.50	0.00	13.86
	7/8/2019				NM	7.24	0.00	15.12
	3/2/2020				NM	4.89	0.00	17.47
	4/20/2021				NM	8.71	0.00	13.65
	10/14/2021				NM	6.46	0.00	15.90
	3/29/2022				NM	8.78	0.00	13.58
	9/27/2022				NM	7.82	0.00	14.54
	3/29/2023				NM	7.73	0.00	14.63
01589 MW-24	11/22/2018	22.50	5.0 - 15.0	15.0	NM	6.96	0.00	15.54
	2/12/2019				NM	6.46	0.00	16.04
	2/26/2019				NM	6.81	0.00	15.69
	3/11/2019				NM	6.99	0.00	15.51
	4/25/2019				NM	7.97	0.00	14.53
	7/8/2019				NM	6.61	0.00	15.89
	3/2/2020				NM	4.83	0.00	17.67
	4/20/2021				NM	8.05	0.00	14.45
	10/15/2021				NM	5.83	0.00	16.67
	3/29/2022				NM	8.02	0.00	14.48
	9/27/2022				NM	6.91	0.00	15.59
3/29/2023	NM	6.99	0.00	15.51				
01589 MW-25	11/22/2018	16.46	2.0 - 12.0	12.0	NM	0.22	0.00	16.24
	2/26/2019				NM	1.37	0.00	15.09
	3/11/2019				NM	1.24	0.00	15.22
	4/25/2019				NM	1.90	0.00	14.56
	7/8/2019				NM	0.78	0.00	15.68
	3/2/2020				NM	0.00	0.00	16.46
	4/20/2021				NM	1.95	0.00	14.51
	10/15/2021				NM	0.79	0.00	15.67
	3/29/2022				NM	2.09	0.00	14.37
	9/27/2022				NM	1.49	0.00	14.97
	3/29/2023				NM	1.35	0.00	15.11
01589 MW-26	11/22/2018	21.36	5.0 - 15.0	15.0	NM	6.96	0.00	14.40
	2/26/2019				NM	6.96	0.00	14.40
	3/11/2019				NM	7.15	0.00	14.21
	4/25/2019				NM	8.37	0.00	12.99
	7/8/2019				NM	6.38	0.00	14.98
	3/2/2020				NM	4.31	0.00	17.05
	4/20/2021				NM	8.60	0.00	12.76
	10/14/2021				NM	5.72	0.00	15.64
	3/28/2022				NM	8.32	0.00	13.04
	9/27/2022				well destroyed			
	3/29/2023				well destroyed			
01589 MW-27	11/22/2018	20.77	5.0 - 15.0	15.0	NM	6.97	0.00	13.80
	2/26/2019				NM	7.31	0.00	13.46
	3/11/2019				NM	7.44	0.00	13.33
	4/25/2019				NM	8.31	0.00	12.46
	7/8/2019				NM	6.70	0.00	14.07
	3/2/2020				NM	4.74	0.00	16.03
	4/20/2021				NM	8.52	0.00	12.25
	10/14/2021				NM	5.86	0.00	14.91
	3/29/2022				NM	2.94	0.00	17.83
	9/27/2022				NM	8.24	0.00	12.53
	3/29/2023				NM	8.23	0.00	12.54
01589 MW-28	11/22/2018	18.18	2.0 - 12.0	12.0	NM	5.02	0.00	13.16
	2/26/2019				NM	4.93	0.00	13.25
	3/11/2019				NM	5.01	0.00	13.17
	4/25/2019				NM	5.69	0.00	12.49
	7/8/2019				NM	4.81	0.00	13.37
	3/2/2020				NM	3.12	0.00	15.06
	4/20/2021				NM	5.78	0.00	12.40
	10/15/2021				NM	4.12	0.00	14.06
	3/29/2022				NM	5.52	0.00	12.66
	9/27/2022				NM	5.23	0.00	12.95
	3/29/2023				NM	5.04	0.00	13.14

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)  
 \* = product thickness measured through use of a bailer

**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-29	11/22/2018	22.35	5.0 - 15.0	15.0	NM	7.01	0.00	15.34
	2/26/2019				NM	6.68	0.00	15.67
	3/11/2019				NM	6.84	0.00	15.51
	4/25/2019				NM	4.93	0.00	17.42
	7/8/2019				NM	6.62	0.00	15.73
	3/2/2020				NM	4.24	0.00	18.11
	4/20/2021				NM	8.02	0.00	14.33
	10/14/2021				NM	5.73	0.00	16.62
	3/29/2022				NM	8.05	0.00	14.30
	9/27/2022				NM	6.89	0.00	15.46
	3/29/2023				well not found			
01589 MW-30	11/22/2018	18.06	2.0 - 12.0	12.0	NM	3.27	0.00	14.79
	2/26/2019				NM	3.30	0.00	14.76
	3/11/2019				NM	3.44	0.00	14.62
	4/25/2019				NM	4.38	0.00	13.68
	7/8/2019				NM	2.89	0.00	15.17
	3/2/2020				NM	1.74	0.00	16.32
	4/20/2021				NM	4.51	0.00	13.55
	10/14/2021				NM	2.36	0.00	15.70
	3/28/2022				NM	4.52	0.00	13.54
	9/27/2022				NM	3.61	0.00	14.45
	3/29/2023				NM	3.58	0.00	14.48
01589 MW-31	11/22/2018	23.28	2.0 - 12.0	12.0	NM	7.64	0.00	15.64
	2/26/2019				NM	7.58	0.00	15.70
	3/11/2019				NM	7.69	0.00	15.59
	4/25/2019				NM	8.55	0.00	14.73
	7/8/2019				NM	7.21	0.00	16.07
	3/2/2020				NM	5.91	0.00	17.37
	4/20/2021				NM	8.78	0.00	14.50
	10/15/2021				NM	6.73	0.00	16.55
	3/29/2022				NM	7.02	0.00	16.26
	9/27/2022				NM	7.82	0.00	15.46
	3/29/2023				NM	7.71	0.00	15.57
01589 MW-32	2/26/2019	22.80	3.0-13.0	13.0	NM	4.64	0.00	18.16
	3/11/2019				NM	4.97	0.00	17.83
	4/25/2019				NM	5.59	0.00	17.21
	7/8/2019				NM	4.97	0.00	17.83
	3/2/2020				NM	3.52	0.00	19.28
	4/20/2021				NM	5.03	0.00	17.77
	10/13/2021				NM	4.32	0.00	18.48
	3/29/2022				NM	6.62	0.00	16.18
	9/28/2022				NM	4.54	0.00	18.26
	3/28/2023				NM	4.85	0.00	17.95
	01589 MW-33				2/26/2019	22.26	3.0-13.0	13.0
3/11/2019		NM	4.54	0.00	17.72			
4/25/2019		NM	5.46	0.00	16.80			
7/8/2019		4.37	4.48	0.11	17.86			
3/2/2020		NM	4.48	0.00	17.78			
4/20/2021		5.13	5.31	0.18	17.08			
10/13/2021		NM	3.88	0.00	18.38			
3/29/2022		NM	6.23	0.00	16.03			
9/28/2022		NM	5.00	0.00	17.26			
3/28/2023		NM	4.61	0.00	17.65			
01589 MW-34		2/26/2019	26.56	3.0-13.0	13.0			
	3/11/2019	NM				8.35	0.00	18.21
	4/25/2019	NM				9.43	0.00	17.13
	7/8/2019	NM				8.11	0.00	18.45
	3/2/2020	NM				6.55	0.00	20.01
	4/20/2021	NM				9.15	0.00	17.41
	10/15/2021	NM				7.53	0.00	19.03
	3/29/2022	NM				10.22	0.00	16.34
	9/27/2022	NM				8.26	0.00	18.30
	3/28/2023	NM				8.44	0.00	18.12
	01589 MW-35	2/26/2019				25.15	3.0-13.0	13.0
3/11/2019		NM	7.11	0.00	18.04			
4/25/2019		NM	8.33	0.00	16.82			
7/8/2019		NM	6.92	0.00	18.23			
3/2/2020		NM	5.20	0.00	19.95			
4/20/2021		NM	8.01	0.00	17.14			
10/15/2021		NM	6.27	0.00	18.88			
3/29/2022		NM	9.03	0.00	16.12			
9/27/2022		NM	7.09	0.00	18.06			
3/28/2023		NM	7.24	0.00	17.91			
01589 MW-36		2/26/2019	19.00	3.0-13.0	13.0			
	3/11/2019	NM				2.76	0.00	16.24
	4/25/2019	NM				3.66	0.00	15.34
	7/8/2019	NM				2.21	0.00	16.79
	3/2/2020	NM				1.06	0.00	17.94
	4/20/2021	NM				3.59	0.00	15.41
	10/14/2021	NM				1.83	0.00	17.17
	3/30/2022	NM				4.22	0.00	14.78
	9/28/2022	NM				2.78	0.00	16.22
	3/29/2023	NM				2.87	0.00	16.13

btoc = below top of casing  
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 NA = not applicable  
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 \* = product thickness measured through use of a bailer

**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 MW-37	2/26/2019	23.01	3.0-13.0	13.0	NM	8.31	0.00	14.70
	3/11/2019				NM	8.51	0.00	14.50
	4/25/2019				NM	9.72	0.00	13.29
	7/8/2019				NM	8.03	0.00	14.98
	3/2/2020				NM	5.65	0.00	17.36
	4/20/2021				NM	9.81	0.00	13.20
	10/14/2021				NM	7.17	0.00	15.84
	3/29/2022				NM	9.28	0.00	13.73
	9/27/2022				well destroyed			
	3/29/2023				well destroyed			
	01589 MW-38				2/26/2019	23.25	3.0-13.0	13.0
3/11/2019		NM	8.36	0.00	14.89			
4/25/2019		NM	9.50	0.00	13.75			
7/8/2019		NM	8.01	0.00	15.24			
3/2/2020		NM	5.82	0.00	17.43			
4/20/2021		NM	9.60	0.00	13.65			
10/14/2021		NM	7.08	0.00	16.17			
3/29/2022		NM	9.48	0.00	13.77			
9/27/2022		NM	8.67	0.00	14.58			
3/29/2023		well destroyed						
01589 DMW-1		11/22/2018	21.84	34.0 - 39.0	39.0			
	2/26/2019	NM				4.87	0.00	16.97
	3/11/2019	NM				4.94	0.00	16.90
	4/25/2019	NM				5.81	0.00	16.03
	7/8/2019	NM				4.13	0.00	17.71
	3/2/2020	NM				3.29	0.00	18.55
	4/20/2021	NM				5.97	0.00	15.87
	10/14/2021	NM				2.87	0.00	18.97
	3/29/2022	NM				6.32	0.00	15.52
	9/28/2022	NM				4.87	0.00	16.97
	3/28/2023	NM				5.00	0.00	16.84
01589 DMW-2	11/22/2018	18.81	34.0 - 39.0	39.0	NM	8.25	0.00	10.56
	2/26/2019				NM	3.81	0.00	15.00
	3/11/2019				NM	3.89	0.00	14.92
	4/25/2019				NM	4.91	0.00	13.90
	7/8/2019				NM	3.49	0.00	15.32
	3/2/2020				NM	2.19	0.00	16.62
	4/20/2021				NM	5.06	0.00	13.75
	10/15/2021				NM	2.87	0.00	15.94
	3/29/2022				NM	5.11	0.00	13.70
	9/27/2022				NM	4.11	0.00	14.70
	3/29/2023				NM	4.08	0.00	14.73
01589 DMW-3	11/22/2018	23.33	35.0 - 40.0	40.0	NM	3.65	0.00	19.68
	2/26/2019				NM	8.20	0.00	15.13
	3/11/2019				NM	8.34	0.00	14.99
	4/25/2019				NM	9.13	0.00	14.20
	7/8/2019				NM	7.92	0.00	15.41
	3/2/2020				NM	6.71	0.00	16.62
	4/20/2021				NM	9.27	0.00	14.06
	10/15/2021				NM	7.40	0.00	15.93
	3/29/2022				NM	9.25	0.00	14.08
	9/27/2022				NM	8.44	0.00	14.89
	3/29/2023				NM	8.37	0.00	14.96
01589 DMW-4	7/8/2019	21.13	40.0 - 45.0	45.0	NM	4.30	0.00	16.83
	3/2/2020				NM	3.78	0.00	17.35
	4/20/2021				NM	4.91	0.00	16.22
	10/13/2021				NM	2.86	0.00	18.27
	3/30/2022				NM	5.58	0.00	15.55
	9/27/2022				NM	2.83	0.00	18.30
01589 DMW-5	7/8/2019	26.38	38.0 - 43.0	43.0	NM	3.68	0.00	17.45
	3/2/2020				NM	8.06	0.00	18.32
	4/20/2021				NM	6.88	0.00	19.50
	10/15/2021				NM	9.27	0.00	17.11
	3/30/2022				NM	7.56	0.00	18.82
	9/27/2022				NM	10.19	0.00	16.19
01589 RW-1	3/29/2022	21.63	2.0 - 12.0	12.0	NM	8.36	0.00	18.02
	3/28/2023				NM	8.50	0.00	17.88
	11/22/2018				NM	4.68	0.00	16.95
	2/26/2019				4.01	4.71	0.70	17.44
	3/11/2019				NM	4.43	0.00	17.20
	4/25/2019				NM	5.15	0.00	16.48
	7/8/2019				NM	4.05	0.00	17.58
	3/2/2020				2.35	3.16	0.81	17.87
	4/20/2021				4.95	5.08	0.13	17.23
	10/13/2021				3.59	3.66	0.07	17.28
	3/30/2022				5.94	5.94	0.00	15.69
9/28/2022	4.00	4.30	0.30	17.11				
3/28/2023	4.27	4.30	0.03	17.31				

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
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 \* = product thickness measured through use of a bailer

**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 RW-2	11/22/2018	21.51	2.0 - 12.0	12.0	NM	4.28	0.00	17.23
	2/26/2019				3.91	3.95	0.04	17.59
	3/11/2019				4.20	4.24	0.04	17.30
	4/25/2019				NM	4.69	0.00	16.82
	7/8/2019				2.22	2.78	0.56	19.14
	4/20/2021				4.34	4.40	0.06	17.15
	10/13/2021				NM	3.18	0.00	18.33
	3/30/2022				0.00	5.99	0.00	15.52
	9/28/2022				0.00	3.54	0.00	17.97
	3/28/2023				0.00	3.79	0.00	17.72
01589 RW-3	11/22/2018	21.95	2.0 - 12.0	12.0	NM	4.60	0.00	17.35
	2/26/2019				NM	4.36	0.00	17.59
	3/11/2019				NM	4.58	0.00	17.37
	4/25/2019				NM	5.14	0.00	16.81
	7/8/2019				3.80	5.36	1.56	17.74
	3/2/2020				2.75	3.31	0.56	18.23
	4/20/2021				4.77	4.83	0.06	17.08
	10/13/2021				NM	3.66	0.00	18.29
	3/30/2022				0.00	5.54	0.00	16.41
	9/28/2022				0.00	4.06	0.00	17.89
3/28/2023	0.00	4.33	0.00	17.62				
01589 RW-4	11/22/2018	21.80	2.0 - 12.0	12.0	NM	3.91	0.00	17.89
	2/26/2019				NM	3.70	0.00	18.10
	3/11/2019				NM	3.88	0.00	17.92
	4/25/2019				NM	4.49	0.00	17.31
	7/8/2019				NM	3.38	0.00	18.42
	3/2/2020				NM	2.12	0.00	19.68
	4/20/2021				NM	4.15	0.00	17.65
	10/13/2021				NM	2.96	0.00	18.84
	3/30/2022				0.00	5.42	0.00	16.38
	9/28/2022				0.00	3.46	0.00	18.34
3/28/2023	0.00	3.77	0.00	18.03				
01589 RW-5	11/22/2018	19.76	2.0 - 12.0	12.0	2.80	3.16	0.36	16.87
	2/26/2019				2.52	3.11	0.59	17.09
	3/11/2019				2.76	3.31	0.55	16.86
	4/25/2019				3.25	5.02	1.77	16.05
	7/8/2019				2.08	3.72	1.64	17.25
	3/2/2020				0.35	2.87	2.52	15.03
	4/20/2021				3.27	4.02	0.75	15.19
	10/13/2021				1.98	2.11	0.13	17.55
	3/30/2022				4.25	4.29	0.04	15.44
	9/28/2022				2.48	2.68	0.20	16.93
3/28/2023	2.64	2.86	0.22	16.74				
01589 RW-6	11/22/2018	19.20	2.0 - 12.0	12.0	3.11	4.42	1.31	15.75
	2/26/2019				1.91	4.09	2.18	16.72
	3/11/2019				2.52	2.98	0.46	16.56
	4/25/2019				2.95	4.67	1.72	15.80
	7/8/2019				1.70	3.70	2.00	14.02
	3/2/2020				0.37	2.04	1.67	15.92
	4/20/2021				2.85	3.22	0.37	15.71
	10/13/2021				1.37	2.56	1.19	15.76
	3/30/2022				3.91	3.92	0.01	15.27
	9/28/2022				2.66	2.96	0.30	16.02
3/28/2023	2.14	2.73	0.59	16.03				
01589 RW-7	2/26/2019	21.53	3.0-13.0	13.0	NM	4.40	0.00	17.13
	3/11/2019				NM	4.66	0.00	16.87
	4/25/2019				NM	5.37	0.00	16.16
	7/8/2019				4.12	4.57	0.45	16.63
	3/2/2020				2.84	3.00	0.16	18.41
	4/20/2021				5.17	5.37	0.20	16.01
	10/13/2021				3.70	3.82	0.12	17.62
	3/30/2022				6.10	6.10	0.00	15.43
	9/28/2022				4.28	4.28	0.00	17.25
	3/28/2023				0.00	4.49	0.00	17.04
01589 RW-8	2/26/2019	18.67	3.0-13.0	13.0	2.30	2.31	0.01	16.37
	3/11/2019				2.47	2.48	0.01	16.20
	4/25/2019				3.25	4.36	1.11	15.13
	7/8/2019				2.07	2.37	0.30	16.08
	3/2/2020				NM	1.35	0.00	17.32
	4/20/2021				3.07	3.60	0.53	14.68
	10/14/2021				NM	1.59	0.00	17.08
	3/30/2022				NM	4.10	0.00	14.57
	9/28/2022				NM	2.14	0.00	16.53
	3/29/2023				NM	2.36	0.00	16.31
01589 RW-9	2/26/2019	19.36	3.0-13.0	13.0	2.90	3.14	0.24	16.40
	3/11/2019				3.11	3.21	0.10	16.22
	4/25/2019				3.42	5.15	1.73	15.49
	7/8/2019				2.75	3.61	0.86	16.39
	3/2/2020				NM	2.24	0.00	17.12
	4/20/2021				3.75	3.87	0.12	15.58
	10/14/2021				2.21	2.27	0.06	17.13
	3/30/2022				4.44	4.44	0.00	14.92
	9/28/2022				2.69	2.81	0.12	16.64
	3/29/2023				2.76	2.89	0.13	16.57

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)  
 \* = product thickness measured through use of a bailer

**Table 1**  
**Groundwater Elevation Data**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Gauging Date	Top of Casing Elevation (feet)	Screened Interval (feet btoc)	Depth of Well (feet btoc)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Water Table Elevation* (feet)
01589 RW-10	2/26/2019	17.00	3.0-13.0	13.0	2.00	3.99	1.99	14.48
	3/11/2019				2.28	2.61	0.33	14.63
	4/25/2019				3.00	4.57	1.57	13.59
	7/8/2019				2.07	3.44	1.37	12.55
	3/2/2020				1.61	2.18	0.57	14.40
	4/20/2021				3.09	3.31	0.22	13.53
	10/14/2021				1.71	1.72	0.01	15.27
	3/30/2022				3.87	3.89	0.02	13.10
	9/28/2022				2.22	2.22	0.00	14.78
	3/29/2023				2.40	2.42	0.02	14.57
01589 RW-11	2/26/2019	17.49	1.0-6.0	6.0	1.39	1.80	0.41	15.99
	3/11/2019				not gauged		0.50*	NM
	4/25/2019				not gauged		1.30*	NM
	7/8/2019				1.05	2.55	1.50	13.83
	3/2/2020				not gauged		6.00	NM
	4/20/2021				2.26	2.94	0.68	14.05
	10/15/2021				1.06	6.00	4.94	7.83
	3/30/2022				0.01	2.47	2.46	13.20
	9/28/2022				NM	NM	NM	NM
	3/29/2023				well abandoned 2-23			
01589 RW-12	2/26/2019	17.05	1.0-6.0	6.0	NM	1.09	NA	15.96
	3/11/2019				NM	1.19	NA	15.86
	4/25/2019				NM	2.06	NA	14.99
	7/8/2019				NM	0.86	NA	16.19
	3/2/2020				not gauged		NA	NM
	4/20/2021				NM	2.07	0.00	14.98
	10/15/2021				NM	0.50	0.00	16.55
	3/30/2022				NM	2.43	0.00	14.62
	9/28/2022				NM	1.39	0.00	15.66
	3/29/2023				NM	1.29	0.00	15.76

btoc = below top of casing  
 NM = no measurable product present  
 NA = not applicable  
 corrected water table elevation = TOC elev - DTW + (0.74)(product thickness)  
 \* = product thickness measured through use of a bailer

**Table 2**  
**Groundwater Analytical Data**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5,000	NE	150	10,000	1,400	240	128	47.0	NE
01589 MW-1	3/28/2023	5,720	10,800	799	3,810	301	77.1 J	<100	<10,000	<100	<20,000	<10,000	7,650 J	<1,000	<1,000	<5,000
01589 MW-2	3/28/2023	1,310	1,980	246	976	105	36.4	<12.5	<1,250	<12.5	<2,500	759 J	4,020	<125	<125	<625
01589 MW-3	3/28/2023	36	<1.0	<1.0	0.68 J	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	219	<10.0	<10.0	<50.0
01589 MW-4	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-5	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-6	3/29/2023	no sample due to free product														
01589 MW-7	3/29/2023	1,470	182	261	574	<10.0	66.8	<10.0	<1,000	<10.0	<2,000	<1,000	2,010	<100	<100	<500
01589 MW-8	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-9	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-10	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-11	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-12	3/28/2023	2,490	16.7 J	85.8	22.7	<20.0	<20.0	<20.0	<2,000	<20.0	<4,000	<2,000	<2,000	<200	<200	<1,000
01589 MW-13	3/28/2023	33.3	31.5	1,360	4,130	<10.0	588	<10.0	<1,000	<10.0	<2,000	<1,000	<1,000	<100	<100	<500
01589 MW-14	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-15	3/28/2023	4,090	7,070	981	4,370	<50.0	132	<50.0	<5,000	<50.0	<10,000	<5,000	6,540	<500	<500	<2,500
01589 MW-16	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-17	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-18	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-19	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-20	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-21	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-22	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	283	<100	<100	<10.0	<10.0	<50.0
RBSL		5.0	1,000	700	10,000	40.0	25.0	5,000	NE	150	10,000	1,400	240	128	47.0	NE

Notes:  
Units = µg/L  
\* < = Not detected at or above the laboratory reporting limit  
RBSL = May 15, 2001 SCDHEC Risk Based Screening Level  
**Bold concentrations equal or exceed the corresponding RBSL**  
NE = Not established



**Table 2**  
**Groundwater Analytical Data**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Napthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5,000	NE	150	10,000	1,400	240	128	47.0	NE
01589 MW-23	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-24	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-25	3/29/2023	4.6	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-27	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-28	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-30	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-31	3/29/2023	<1.0	<1.0	<1.0	<1.0	0.53 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-32	3/28/2023	131	3	3.6	6.4	8.3	7.2	<1.0	<100	<1.0	<200	119	572	4.2 J	24.5	<50.0
01589 MW-33	3/28/2023	7,370	26,200	2,400	14,100	118 J	394	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
01589 MW-34	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-35	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 MW-36	3/29/2023	10.9	<1.0	0.5 J	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	52.3 J	1,060	<10.0	<10.0	<50.0
01589 DMW-1	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 DMW-2	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 DMW-3	3/29/2023	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 DMW-4	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 DMW-5	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 RW-1		no sample due to free product														
01589 RW-2	3/28/2023	1,470	3,880	272	1,260	71.6	63.5	<25.0	<2,500	<25.0	52,500	<2,500	1,020 J	<250	<250	<1,250
01589 RW-3	3/28/2023	8,080	15,400	999	9,730	275	353	<125	<12,500	<125	<25,000	<12,500	21,500	<1,250	<1,250	<6,250
01589 RW-4	3/28/2023	9.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	37.6 J	<10.0	<10.0	<50.0
RBSL		5.0	1,000	700	10,000	40.0	25.0	5,000	NE	150	10,000	1,400	240	128	47.0	NE

Notes:

Units = ug/L

\*< = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

**Bold concentrations equal or exceed the corresponding RBSL**

NE = Not established

**Table 2**  
**Groundwater Analytical Data**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl-tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl-tert-butyl ether	tert-Butyl formate
<b>RBSL</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5,000</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>
01589 RW-5	3/28/2023	no sample due to free product														
01589 RW-6	3/28/2023	no sample due to free product														
01589 RW-7	3/28/2023	<b>8,830</b>	<b>13,400</b>	<b>757</b>	<b>6,880</b>	<b>266</b>	<b>154</b>	<125	<12,500	<125	<25,000	<12,500	<b>26,100</b>	<1,250	<1,250	<6,250
01589 RW-8	3/29/2023	<b>894</b>	<b>1,250</b>	339	2,980	<b>62</b>	<b>85</b>	<10.0	<1,000	<10.0	<2,000	438 J	<b>6,410</b>	<100	36.6 J	<500
01589 RW-9	3/29/2023	no sample due to free product														
01589 RW-10	3/29/2023	no sample due to free product														
01589 RW-11	3/28/2023	well abandoned (damaged)														
01589 RW-12	3/29/2023	<b>2,190</b>	<b>11,800</b>	<b>1,160</b>	<b>11,100</b>	<100	<b>277</b>	<100	<10,000	<100	<20,000	<10,000	<10,000	<1,000	<1,000	<5,000
<b>RBSL</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5,000</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>

Notes:

Units = µg/L

\*< = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

**Bold concentrations equal or exceed the corresponding RBSL**

NE = Not established















**Table 3**  
**Historical Groundwater Results**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (µg/L)							Oxygenates (µg/L)							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert-butyl ether	Naphthalene	1,2-Dichloroethane (1,2-DCA)	ethyl tert-butyl alcohol	Diisopropyl ether	Ethanol	tert-butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-butyl ether	tert-butyl formate
01589 RW-11	3/29/2023	well abandoned														
	9/28/2022	emulsified product, thickness not available														
	3/30/2022	2.46 feet of free product														
	10/15/2021	4.94 feet of free product														
	04/20/2020	0.68 feet of free product														
	03/04/2020	6.0 feet of free product														
	07/08/2019	1.5 feet of free product														
01589 RW-12	3/29/2023	2,190	11,800	1160	11,100	<100	277	<100	<10,000	<100	<20,000	<10,000	<1,000	<1,000	<5,000	
	9/28/2022	2,070	9,639	636	10,300	<50	233	<50.0	<5,000	<50.0	<10,000	<5,000	2,060 J	<500	<500	<2,500
	3/30/2022	2,960	6,480	597	4,900	83.5	109	<50.0	<5,000	<50.0	<10,000	<5,000	2,940 J	<500	<500	<2,500
	10/15/2021	2,040	2,390	241	2,160	77.3	61	<20.0	<2,000	<20.0	<4,000	<2,000	2,940	<200	<200	<1,000
	4/22/2021	7,280	3,620	542	4,630	261	123	<50.0	<5,000	<50.0	<10,000	<5,000	11,100	<500	184 J	<2,500
	03/04/2020	Heavy sheen of free product (< 0.01 ft.)														
	07/10/2019	4,360	6,410	556	5,080	236	170	<50.0	<5,000	<50.0	<10,000	<5,000	5,030	<500	<500	<2,500
	SSTL	5	1,144	556	5,080	45	26	--	--	--	1,000	1,453	264	--	51	--

Units = µg/L  
 <L = Not detected at or above the laboratory reporting limit (RL)  
 J flag = estimated result < RL but >MDL  
 SSTL = SCDHEC calculated Site Specific Target Level  
 Bold concentrations equal or exceed the corresponding SSTL

**Table 4**  
**Water Well Analytical Data**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L) by 524.2							Oxygenates (ug/L) by 8260B							
		Benzene	Toluene	Ethylbenzene	Xylenes, Total (1)	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
<b>RBSL</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5.0</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>
01589 WSW-12	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-13	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-16	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0

Notes:

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

**Bold concentrations equal or exceed the corresponding RBSL**

NE = Not established

1: Reporting limit for m,p xylenes is 0.05 ug/L; for o-xylene, 1 ug/L

water well WSW-15 is out of use and inaccessible for sampling

**Table 5**  
**Historical Water Well Results**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-1	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-2D	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-2	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-3	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-4	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/20/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-5	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-6	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-7	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-8	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-9	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0

Units = µg/L

\*< = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

**Bold concentrations equal or exceed the corresponding RBSL**

NE = Not established

**Table 5**  
**Historical Water Well Results**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
RBSL		5.0	1,000	700	10,000	40.0	25.0	5.0	NE	150	10,000	1,400	240	128	47.0	NE
01589 WSW-10	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/20/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-11	7/9/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-12	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-13	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/30/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/4/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/29/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-14	8/17/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 WSW-15	4/22/2021	well has been decommissioned according to owner														
	7/8/2019	sample collection permission was not granted														
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-16	3/28/2023	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/28/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/31/2022	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/29/2021	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	3/5/2020	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-17	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/31/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0

Units = µg/L  
 \*< = Not detected at or above the laboratory reporting limit  
 RBSL = May 15, 2001 SCDHEC Risk Based Screening Level  
**Bold concentrations equal or exceed the corresponding RBSL**  
 NE = Not established

**Table 5**  
**Historical Water Well Results**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
	<b>RBSL</b>	<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5.0</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>
01589 WSW-18	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-19	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-20	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-21	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-22	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-23	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-24	7/10/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/22/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-25	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/23/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-26	7/8/2019	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	8/27/2018	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<20	<1.0	<100	<20	<20	<10	<1.0	<5.0
01589 WSW-27	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-28	7/8/2019	sample collection permission was not granted														
	8/23/2018	sample collection permission was not granted														
01589 WSW-29	7/8/2019	sample collection permission was not granted; the property is currently provided potable water from a municipal source														
	8/23/2018	sample collection permission was not granted; the property is currently provided potable water from a municipal source														

Units = µg/L

\*< = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 SCDHEC Risk Based Screening Level

**Bold concentrations equal or exceed the corresponding RBSL**

NE = Not established

**Table 6**  
**Surface Water Analytical Data**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2-Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	tert-Butyl formate
<b>RBSL</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5.0</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>
01589 SW-1	3/29/2023	<1.0	0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-2	3/29/2023	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-3	3/29/2023	<1.0	0.72 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-4	3/29/2023	<1.0	0.51 J	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-5	3/29/2023	<1.0	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-6	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-7	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-8	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 SW-9	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
<b>RBSL</b>		<b>5.0</b>	<b>1,000</b>	<b>700</b>	<b>10,000</b>	<b>40.0</b>	<b>25.0</b>	<b>5.0</b>	<b>NE</b>	<b>150</b>	<b>10,000</b>	<b>1,400</b>	<b>240</b>	<b>128</b>	<b>47.0</b>	<b>NE</b>

Notes:

Units = µg/L

"<" = Not detected at or above the laboratory reporting limit

RBSL = May 15, 2001 Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established



**Table 8**  
**Data Quality Indicator Analyses**  
**Monitoring and Recovery Wells**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether	
<b>Precision Analysis</b>																
<b>Precision Limit (RPD %)</b>		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
01589 MW-2	3/28/23 @ 1038	1,310	1,980	246	976	105	36.4	<12.5	<1,250	<12.5	<2,500	759 J	4,020	<125	<125	<625
01589 DUP-1	3/28/23 @ 1041	1,130	1,660	204	806	90.9	25.3	<12.5	<1,250	<12.5	<2,500	683	3,450	<125	<125	<625
<b>RPD (%)</b>		15%	18%	19%	19%	14%	36%	---	---	---	---	---	15%	---	---	---
01589 MW-33	3/28/23 @ 1032	7,370	26,200	2,400	14,100	118 J	394	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000
01589 DUP-2	3/28/23 @ 1035	6,750	24,500	2,440	15,000	106	372	<250	<25,000	<250	<50,000	<25,000	<25,000	<2,500	<2,500	<12,500
<b>RPD (%)</b>		9%	7%	2%	6%	---	6%	---	---	---	---	---	---	---	---	---
<b>Bias Analysis</b>																
01589 FB-1	3/28/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 FB-2	3/29/2023	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
01589 Trip	--	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
<b>Method Sensitivity</b>																
<b>Sensitivity Limits (GW - ug/L)</b>		<5	<5	<5	<5	<10	<5	<5	<100	<10	<1,000	<100	<100	<10	<100	<100
01589 MW-1	3/28/2023	34.5	48.5	30.4	33.8	42.2	64.5	32.2	5,190	30.8	7,220	2,680	3,640	266	324	2,940
01589 MW-2	3/28/2023	4.3	6.1	3.8	4.2	5.3	8.1	4	649	3.8	902	355	455	32.2	40.5	368
01589 MW-3	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-4	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-5	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-7	3/29/2023	3.4	4.8	3	3.4	4.2	6.4	3.2	519	3.1	722	268	364	266	32.4	294
01589 MW-8	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-9	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-10	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-11	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-12	3/28/2023	6.9	9.7	6.1	6.8	8.4	12.9	6.4	1,040	6.2	1,440	536	728	53.2	64.8	588
01589 MW-13	3/28/2023	3.4	4.8	3	3.4	4.2	6.4	3.2	519	3.1	722	268	364	266	32.4	294
01589 MW-14	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-15	3/28/2023	17.2	24.2	15.2	16.9	21.1	32.2	16.1	2,600	15.4	3,610	1,340	1,820	133	162	1,470
01589 MW-16	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-17	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-18	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-19	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-20	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4

Units = ug/L

\*c\* = Not detected above the laboratory reporting limit

NT = not tested for this parameter

\*\*\* = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy



**Table 8**  
**Data Quality Indicator Analyses**  
**Monitoring and Recovery Wells**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl tert butyl ether	Naphthalene	1,2 Dichloroethane (1,2 DCA)	ethyl tert-Butyl alcohol	Diisopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl methyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Method Sensitivity																	
Sensitivity Limits (GW - ug/L)		<5	<5	<5	<5	<10	<5	<5	<100	<10	<1,000	<100	<100	<10	<100	<100	
01589 MW-21	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-22	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-23	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-24	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-25	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-27	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-28	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-30	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-31	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-32	3/28/2023	1.7	2.4	1.5	1.7	2.1	3.2	1.6	260	1.5	361	134	182	13.3	16.2	147	5 x dilution
01589 MW-33	3/28/2023	69	97	60.8	67.6	84.4	129	64.4	10,400	61.6	14,400	5,360	7,280	532	648	5,880	200 x dilution
01589 MW-34	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-35	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-36	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-1	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-2	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-3	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-4	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-5	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 RW-2	3/28/2023	8.6	12.1	7.6	8.4	10.6	16.1	8	1,300	7.7	1,800	670	910	66.5	81	735	25 x dilution
01589 RW-3	3/28/2023	43.1	60.6	38	42.2	52.8	80.6	40.2	6,490	38.5	9,020	3,350	4,550	332	405	3,680	125 x dilution
01589 RW-4	3/28/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 RW-7	3/28/2023	43.1	60.6	38	42.2	52.8	80.6	40.2	6,490	38.5	9,020	3,350	4,550	332	405	3,680	125 x dilution
01589 RW-8	3/29/2023	3.4	4.8	3	3.4	4.2	6.4	3.2	519	3.1	722	268	364	266	32.4	294	10 x dilution
01589 RW-12	3/29/2023	34.5	48.5	30.4	33.8	42.2	64.5	32.2	5,190	30.8	7,220	2,680	3,640	266	324	2,940	100 x dilution

Units = ug/L

\*c\* = Not detected above the laboratory reporting limit

NT = not tested for this parameter

\*\*\* = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

**Table 9**  
**Data Quality Indicator Analyses**  
**Water Wells**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Total Xylenes (1)	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Precision Analysis																	
<b>Precision Limit (RPD %)</b>		<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>20</b>	
01589 WSW-12	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no detections
DUP 1	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
<b>RPD (%)</b>		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Bias Analysis																	
TRIP BLANK	--	<0.50	<0.50	0.34	<0.50	<0.50	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no errors indicated
01589 WSW-FB	3/28/2023	<0.50	<0.50	<0.50	<1	<0.50	<0.50	<0.50	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	no errors indicated
Method Sensitivity																	
<b>Sensitivity Limits (GW - µg/L)</b>		<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>10.0</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>100</b>	<b>10.0</b>	<b>1,000</b>	<b>100</b>	<b>100</b>	<b>10.0</b>	<b>100</b>	<b>100</b>	
01589 WSW-12	3/28/2023	0.21	0.2	0.22	0.39/0.22	0.14	0.35	0.16	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 WSW-13	3/28/2023	0.21	0.2	0.22	0.39/0.22	0.14	0.35	0.16	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 WSW-16	3/28/2023	0.21	0.2	0.22	0.39/0.22	0.14	0.35	0.16	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	

Notes:

Units = µg/L

(1) For sensitivity limits of xylenes, first DL is reported for m&p xylene, second for o-xylene

RBSL = May 15, 2001 Risk Based Screening Level

NE = not established

\*\*\* = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

**Table 10**  
**Data Quality Indicator Analyses**  
**Surface Water Samples**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit #01589**

Monitoring Well Identification	Sample Date	Petroleum Constituents (ug/L)							Oxygenates (ug/L)							Comments / Notes	
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	1,2 - Dichloroethane (DCA)	ethyl tert-Butyl alcohol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether		tert-Butyl formate
Method Sensitivity																	
Sensitivity Limits (GW - µg/L)		5.0	5.0	5.0	10.0	5.0	5.0	5.0	100	10.0	1,000	100	100	10.0	100	100	
01589 SW-1	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-2	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-3	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-4	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-5	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-7	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-8	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-9	3/29/2023	0.34	0.48	0.3	0.34	0.42	0.64	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	

Notes:

Units = µg/L

RBSL = May 15, 2001 Risk Based Screening Level

NE = not established

\*\*\* = Relative Percent Difference (RPD) calculated between analytical method reporting limits; direct comparability is inconclusive should dilution create reporting limit discrepancy

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 MW-1	Initial	Initial	17,700	40,400	2,290	11,400	1,850	0	0	0	0	0	73,640.00	-----	-----	
		SSTL	6	1,324	869	11,400	51	28	295	1,526	21,596	57	37,152.00	-----	-----	
		Initial > SSTL	17,694	39,076	1,421	0	1,799	0	0	0	0	0	0	-----	59,990.00	
	3/28/23	Subsequent	5,720	10,800	799	3,810	301	77	7,650	0	0	0	0	29,157.10	-----	-----
		Subsequent > SSTL	6	1,324	869	11,400	51	28	295	1,526	21,596	57	37,152.00	-----	22,844.10	
01589 MW-2	Initial	Initial	10,000	21,600	1,690	9,250	559	236	16,200	0	0	0	59,535.00	-----	-----	
		SSTL	5	1,144	775	9,250	45	26	264	1,453	14,610	51	27,623.00	-----	-----	
		Initial > SSTL	9,995	20,456	915	0	514	210	15,936	0	0	0	0	-----	48,026.00	
	3/28/23	Subsequent	1,310	1,980	246	976	105	36.4	4,020	759	0	0	0	9,432.40	-----	-----
		Subsequent > SSTL	1,305	836	0	0	60	10	3,756	0	0	0	0	27,623.00	-----	5,967.40
01589 MW-3	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.000	
	3/28/23	Subsequent	36	0	0	0.66	0	0	219	0	0	0	0	255.66	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	150.000	
01589 MW-4	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	0.00	
01589 MW-5	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	0.00	
01589 MW-6	Initial	Initial	16,400	28,900	2,190	8,920	1,990	272	42,200	5,410	0	0	106,282.00	-----	-----	
		SSTL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	57,986.00	-----	-----	
		Initial > SSTL	16,388	25,191	185	0	1,859	226	41,542	3,027	0	0	0	-----	88,418.00	
	3/29/22 <sup>1</sup>	Subsequent	11,700	21,400	1,850	9,910	1,410	256	22,000	0	0	0	68,526.00	-----	-----	
		Subsequent > SSTL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	57,986.00	-----	53,200.00	
01589 MW-7	Initial	Initial	9,210	34,100	2,390	12,700	0	271	0	0	0	0	58,671.00	-----	-----	
		SSTL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	68,703.00	-----	-----	
		Initial > SSTL	9,189	25,600	0	0	0	204	0	0	0	0	0	-----	34,993.00	
	3/29/23	Subsequent	1,470	182	261	574	0	66.8	2,010	0	0	0	4,563.80	-----	-----	
		Subsequent > SSTL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	68,703.00	-----	2,212.00	
01589 MW-8	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	0.00	
01589 MW-9	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
	3/29/23	Subsequent	0	0	0	0	0	1.1	0	0	0	0	0	-----	1.10	
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	0.00	

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 MW-10	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-11	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-12	Initial	Initial	410	12.7	46.5	24.5	9.8	9.1	1,370	0	0	25.9	1,908.50	----	----	
		SSTL	7	13	47	25	10	9	382	250	1,000	26	1,769.00	----	----	
		Initial > SSTL	403	0	0	0	0	0	988	0	0	0	0	1,391.10	----	----
	3/28/23	Subsequent	2,490	16.7	86	22.7	0	0	0	0	0	0	0	2,615.20	----	----
		SSTL	7	13	47	25	10	9	382	250	1,000	26	1,769.00	----	----	
		Subsequent > SSTL	2,483	4	39	0	0	0	0	0	0	0	0	0.00	----	2,525.50
01589 MW-13	Initial	Initial	31.2	19.5	490	1,630	0	164	0	0	0	0	2,334.70	----	----	
		SSTL	7	20	490	1,630	5	30	334	500	1,000	100	4,116.00	----	----	
		Initial > SSTL	24	0	0	0	0	134	0	0	0	0	0	158.20	----	----
	3/28/23	Subsequent	33	31.5	1,360	4,130	0	588	0	0	0	0	0	6142.80	----	----
		SSTL	7	20	490	1,630	5	30	334	500	1,000	100	4,116.00	----	----	
		Subsequent > SSTL	26	12	870	2,500	0	558	0	0	0	0	0	0.00	----	3,965.80
01589 MW-14	Initial	Initial	0	0	0	0	0	4.1	0	0	0	0	4.10	----	----	
		SSTL	5	5	5	10	5	4	100	100	1,000	100	1,334.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.10	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	4	100	100	1,000	100	1,334.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-15	Initial	Initial	2,840	7,910	982	4,850	0	120	6,950	0	0	0	23,652.00	----	----	
		SSTL	7	1,534	870	4,850	50	29	382	1,758	10,000	73	19,553.00	----	----	
		Initial > SSTL	2,833	6,376	112	0	0	91	6,568	0	0	0	0	15,980.00	----	----
	3/28/23	Subsequent	4,090	7,070	981	4,370	0	132	6,540	0	0	0	0	23,183.00	----	----
		SSTL	7	1,534	870	4,850	50	29	382	1,758	10,000	73	19,553.00	----	----	
		Subsequent > SSTL	4,083	5,536	111	0	0	103	6,158	0	0	0	0	0.00	----	15,991.00
01589 MW-16	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.0	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-17	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.000	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 MW-18	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.0	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.000	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-19	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-20	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.000	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.000	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-21	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	----	----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-22	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	283	0	0	0	283.00	----	----
		Subsequent > SSTL	0	0	0	0	0	0	0	183	0	0	0	183.00	----	183.00
01589 MW-23	Initial	Initial	0	0	0	0	1.8	0	0	0	0	0	1.80	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	1.2	0	0	0	0	0	1.20	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-24	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	1.7	0	0	0	0	0	1.70	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 MW-25	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	4.8	0	0	0	2.3	0	0	0	0	0	7	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 MW-26	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/22 <sup>2</sup>	Subsequent	0	0	0	0	7.4	0	0	0	0	0	0	7.40	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSSL	0	0	0	0	2	0	0	0	0	0	2.40	----	2.40	
01589 MW-27	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00	
01589 MW-28	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00	
01589 MW-29	Initial	Initial	2.2	0	0	0	7.4	0	0	0	0	0	9.60	----	----	
		SSTL	5	5	5	10	7	5	100	100	1,000	100	1,337.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.40	----	----
	9/27/22 <sup>3</sup>	Subsequent	0	0	0	0	20.6	0	922	139	0	0	1,082	----	----	
		SSTL	5	5	5	10	7	5	100	100	1,000	100	1,337.00	----	----	
		Subsequent > SSSL	0	0	0	0	14	0	822	39	0	0	874.60	----	874.60	
01589 MW-30	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00	
01589 MW-31	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Initial > SSSL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0.53	0	0	0	0	0	0	1	----	----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	----	----	
		Subsequent > SSSL	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00	
01589 MW-32	Initial	Initial	306	9.3	9.7	17.1	11.4	0	284	0	0	0	637.50	----	----	
		SSTL	13	9	10	17	11	2	284	200	1,000	100	1,646.00	----	----	
		Initial > SSSL	293	0	0	0	0	0	0	0	0	0	0	293.80	----	----
	3/28/23	Subsequent	131	3	4	8	8.3	7.2	572	119	0	24.5	853	----	----	
		SSTL	13	9	10	17	11	2	284	200	1,000	100	1,646.00	----	----	
		Subsequent > SSSL	118	0	0	0	0	5	288	0	0	0	411.20	----	411.20	
01589 MW-33	Initial	Initial	4,180	13,200	1,760	8,670	57.5	356	0	0	0	0	27,867.50	----	----	
		SSTL	6	1,205	759	11,013	57	26	265	1,795	25,000	56	40,182.00	----	----	
		Initial > SSSL	4,174	11,995	1,001	0	1	330	0	0	0	0	0	17,500.50	----	----
	3/28/2023	Subsequent	7,370	26,200	2,400	14,100	118	394	0	0	0	0	50,562	----	----	
		SSTL	6	1,205	759	11,013	57	26	265	1,795	25,000	56	40,182.00	----	----	
		Subsequent > SSSL	7,364	24,995	1,641	3,087	61	368	0	0	0	0	37,516.00	----	37,516.00	

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 MW-34	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 MW-35	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 MW-36	Initial	Initial	14.5	102	113	223	0	12.9	148	0	0	0	613.40	-----	-----	
		SSTL	6	102	113	223	5	13	148	100	1,000	100	1,810.00	-----	-----	
		Initial > SSTL	9	0	0	0	0	0	0	0	0	0	0	8.50	-----	-----
	3/28/2023	Subsequent	10.9	0	0.5	0	0	0	1,060	52.3	0	0	1,124	-----	-----	
		Subsequent > SSTL	5	0	0	0	0	0	912	0	0	0	0	-----	916.90	
01589 MW-37	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/29/22 <sup>4</sup>	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 MW-38	Initial	Initial	73.6	0	0	0	11.2	0	138	0	0	0	222.80	-----	-----	
		SSTL	74	5	5	2	11	5	100	100	1,000	100	1,402.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	38	0	0	0	0	0.20	-----	-----
	9/27/22 <sup>5</sup>	Subsequent	0.5	0	2.1	0	70.5	0	58.5	0	0	0	132	-----	-----	
		Subsequent > SSTL	0	0	0	0	60	0	0	0	0	0	0	-----	59.50	
01589 DMW-1	Initial	Initial	7.1	1.1	1.1	0	0	0	0	0	0	0	9.30	-----	-----	
		SSTL	7	6	6	10	5	5	100	100	1,000	100	1,339.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.10	-----	-----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 DMW-2	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 DMW-3	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/29/23	Subsequent	0	0	0	0	1.5	0	0	0	0	0	2	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	
01589 DMW-4	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00



**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 DMW-5	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0	-----	0.00
01589 RW04	Initial	Initial	3.3	0	0	0	1.4	0	0	0	0	0	4.70	-----	-----	
		SSTL	3	5	5	10	5	5	100	100	1,000	100	1,333.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.30	-----	-----
	3/28/23	Subsequent	9.8	0	0	0	0	0	37.6	0	0	0	47	-----	-----	
		SSTL	3	5	5	10	5	5	100	100	1,000	100	1,333.00	-----	-----	
		Subsequent > SSTL	7	0	0	0	0	0	0	0	0	0	0	-----	-----	6.80
01589 RW12	Initial	Initial	4,360	6,410	556	5,080	236	170	5,030	0	0	0	21,842.00	-----	-----	
		SSTL	5	1,144	556	5,080	45	26	264	1,453	10,000	51	18,624.00	-----	-----	
		Initial > SSTL	4,355	5,266	0	0	191	144	4,766	0	0	0	0	-----	-----	9,956.00
	3/29/23	Subsequent	2,190	11,800	1,160	11,100	0	277	0	0	0	0	26,527	-----	-----	
		SSTL	5	1,144	556	5,080	45	26	264	1,453	10,000	51	18,624.00	-----	-----	
		Subsequent > SSTL	2,185	10,656	604	6,020	0	251	0	0	0	0	0	-----	-----	19,716.00
01589 WSW12	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00
01589 WSW13	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00
01589 WSW16	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/28/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00
01589 SW01	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
	3/29/23	Subsequent	0	0.8	0	0	0	0	0	0	0	0	0	1	-----	-----
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00

**Table 11**  
**Calculation of COC Reduction**  
**1st Half 2023**  
**Circle K 2720886**  
**4315 Savannah Highway**  
**Ravenel, Charleston County, South Carolina**  
**UST Permit # 01589**

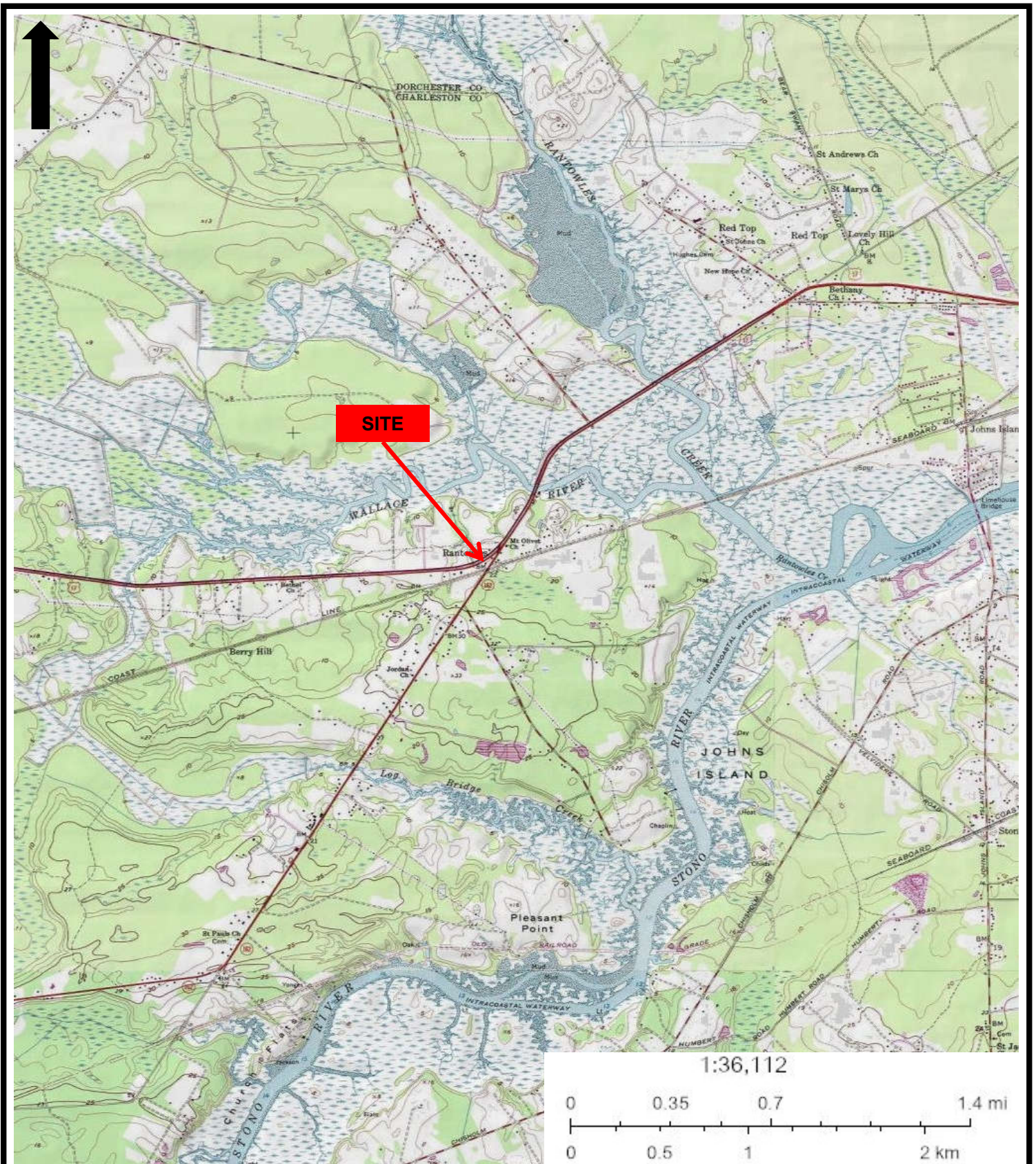
Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSSL Mass	Subsequent Concentration > SSSL Mass	
01589 SW02	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	1.1	0	0	0	0	0	0	0	0	1	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 SW03	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0.72	0	0	0	0	0	0	0	0	1	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 SW04	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	5	750	34	380	5	8	100	100	1,000	100	2,482.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0.51	0	0	0	0	0	0	0	0	1	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.30
01589 SW05	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	2.3	0	0	0	0	0	0	0	0	2	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 SW07	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	----	----
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 SW08	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	----	----
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00
01589 SW09	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	----	----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
	3/29/23	Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	----	----
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	----	----	
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	----	0.00

All concentrations reported in micrograms per liter  
SSTL = Site-Specific Target Level.  
COC Concentration Reduction =  $\frac{(\text{Total Initial} > \text{SSTL}) - (\text{Total Subsequent} > \text{SSTL})}{\text{Total Initial} > \text{SSTL}} \times 100\%$

276,716.20	143,698.40
	48.07%

For values less than the reporting limit, the reporting limit value was used.  
Note:  
1. for MW-6, due to the presence of residual NAPL, dissolved COC levels from 3/29/22 are utilized  
2. for MW-26 (destroyed well), dissolved COC levels from 3/29/22 are utilized  
3. for MW-29 (destroyed well), dissolved COC levels from 9/27/22 are utilized  
5. for MW-37 (destroyed well), dissolved COC levels from 3/29/22 are utilized  
3. for MW-38 (destroyed well), dissolved COC levels from 9/27/22 are utilized

## FIGURES



6904 N. Main Street, Suite 107  
 Columbia, South Carolina 29203  
 (803) 735-0003

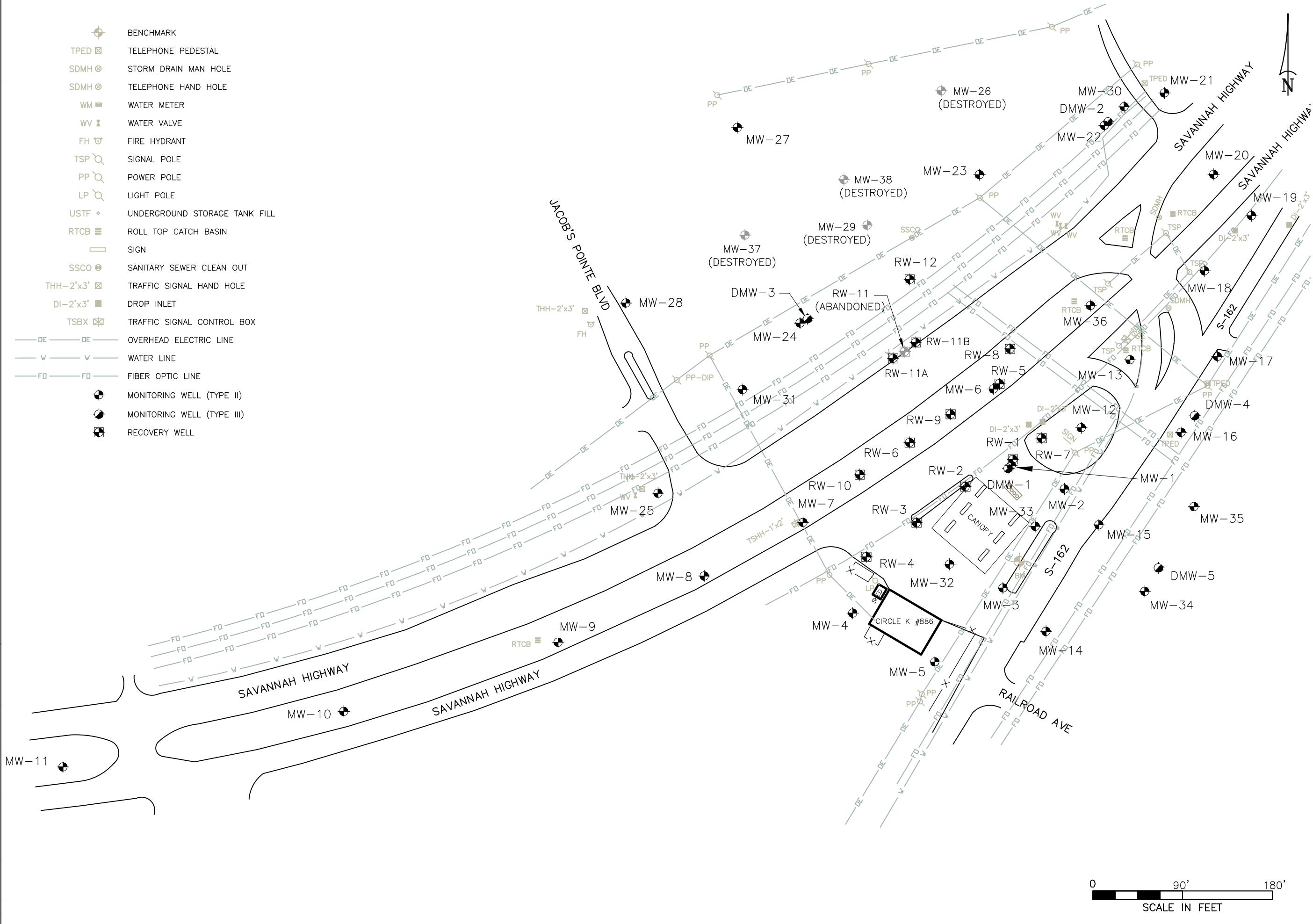
**FIGURE 1  
 SITE LOCATION MAP**

PROJECT NO.: 257CK88613

CIRCLE K STORE # 2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

FIGURE 1	SCALE:	REVIEWED BY: BH
DRAWN BY: CM	DATE: 2/2023	FILE: 2023 CASE

- BENCHMARK
- TELEPHONE PEDESTAL
- STORM DRAIN MAN HOLE
- TELEPHONE HAND HOLE
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- SIGNAL POLE
- POWER POLE
- LIGHT POLE
- UNDERGROUND STORAGE TANK FILL
- ROLL TOP CATCH BASIN
- SIGN
- SANITARY SEWER CLEAN OUT
- TRAFFIC SIGNAL HAND HOLE
- DROP INLET
- TRAFFIC SIGNAL CONTROL BOX
- OVERHEAD ELECTRIC LINE
- WATER LINE
- FIBER OPTIC LINE
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL



**FIGURE 2**  
 UST PERMIT #01589  
 SITE MAP WITH MONITORING & RECOVERY WELL NETWORK  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA





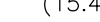



**ATLAS**

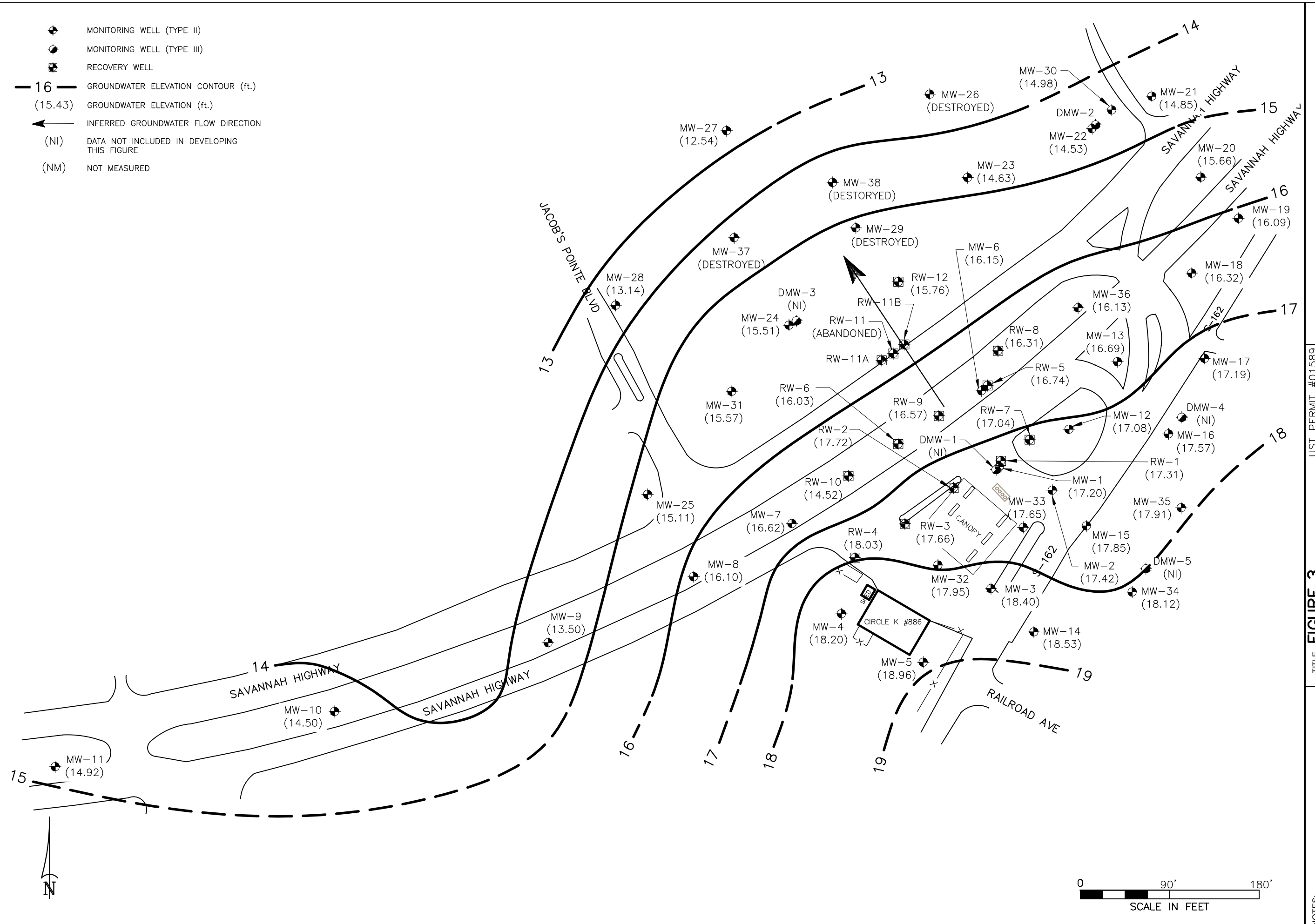
6904 North Main Street, Suite 107  
 Columbia, South Carolina 29203  
 (803) 735-0003 FAX (803) 741-2444

**SCALE** 1"=90'  
**DATE** 05/02/2023  
**PROJECT NO.** 257CK88613

NOTES:

CAD FILE	1252215.dwg	TYPE CODE	BH	REV. BY	
UST PERMIT #01589					

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  GROUNDWATER ELEVATION CONTOUR (ft.)
-  GROUNDWATER ELEVATION (ft.)
-  INFERRED GROUNDWATER FLOW DIRECTION
-  (NI) DATA NOT INCLUDED IN DEVELOPING THIS FIGURE
-  (NM) NOT MEASURED









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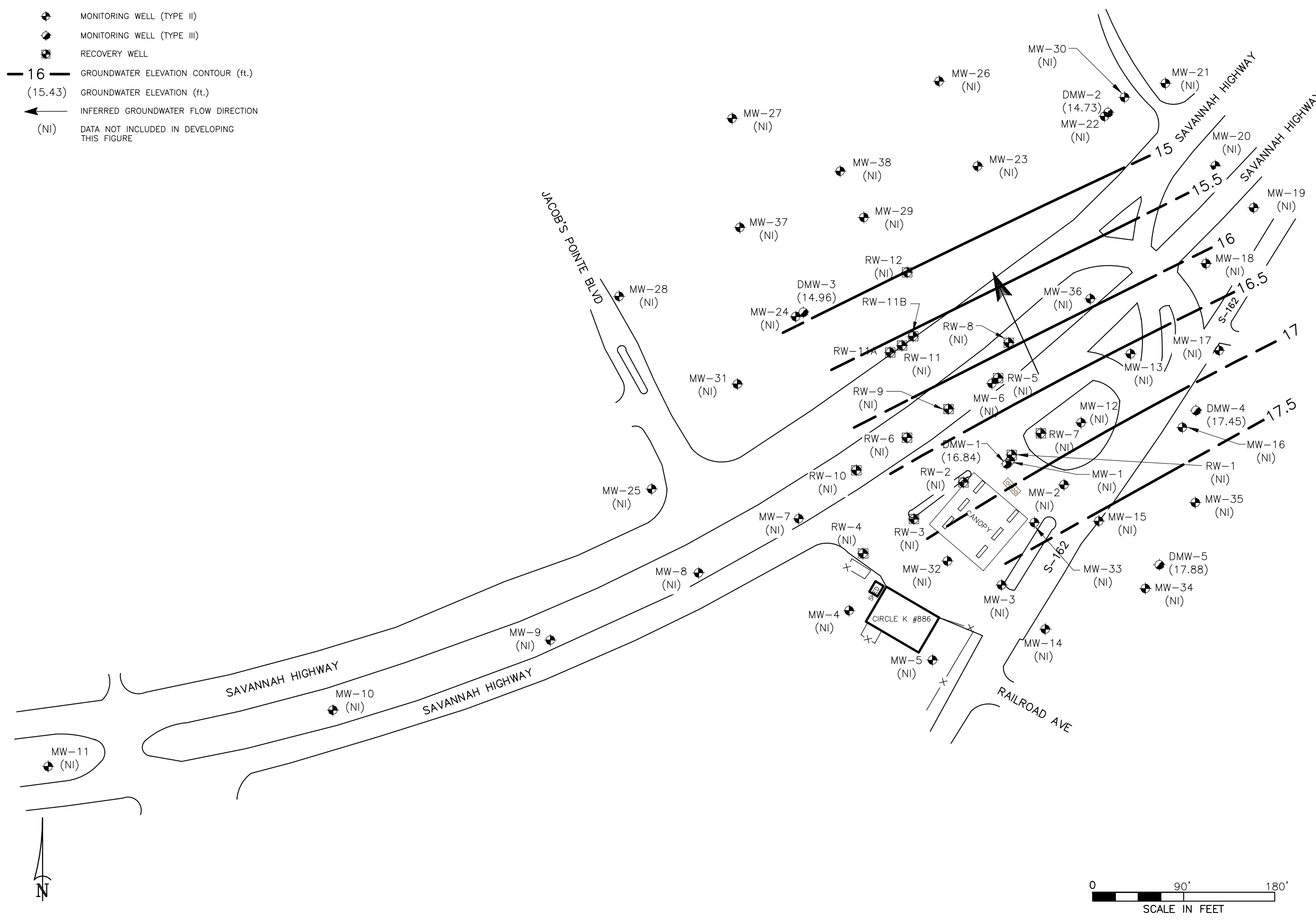
PROJECT NO. 257CK88613  
DATE 05/02/2023  
SCALE 1"=90'

TITLE **FIGURE 3** UST PERMIT #01589  
POTENTIOMETRIC SURFACE MAP - SHALLOW WELLS  
CIRCLE K #2720886  
4315 SAVANNAH HIGHWAY  
RAVENEL, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
1252215.dwg		BH	

NOTES:  
1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  GROUNDWATER ELEVATION CONTOUR (ft.)  
(15.43) GROUNDWATER ELEVATION (ft.)
-  INFERRED GROUNDWATER FLOW DIRECTION
- (NI) DATA NOT INCLUDED IN DEVELOPING THIS FIGURE



**FIGURE 4**  
 POTENTIOMETRIC SURFACE MAP - DEEP WELLS  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA









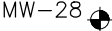
NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

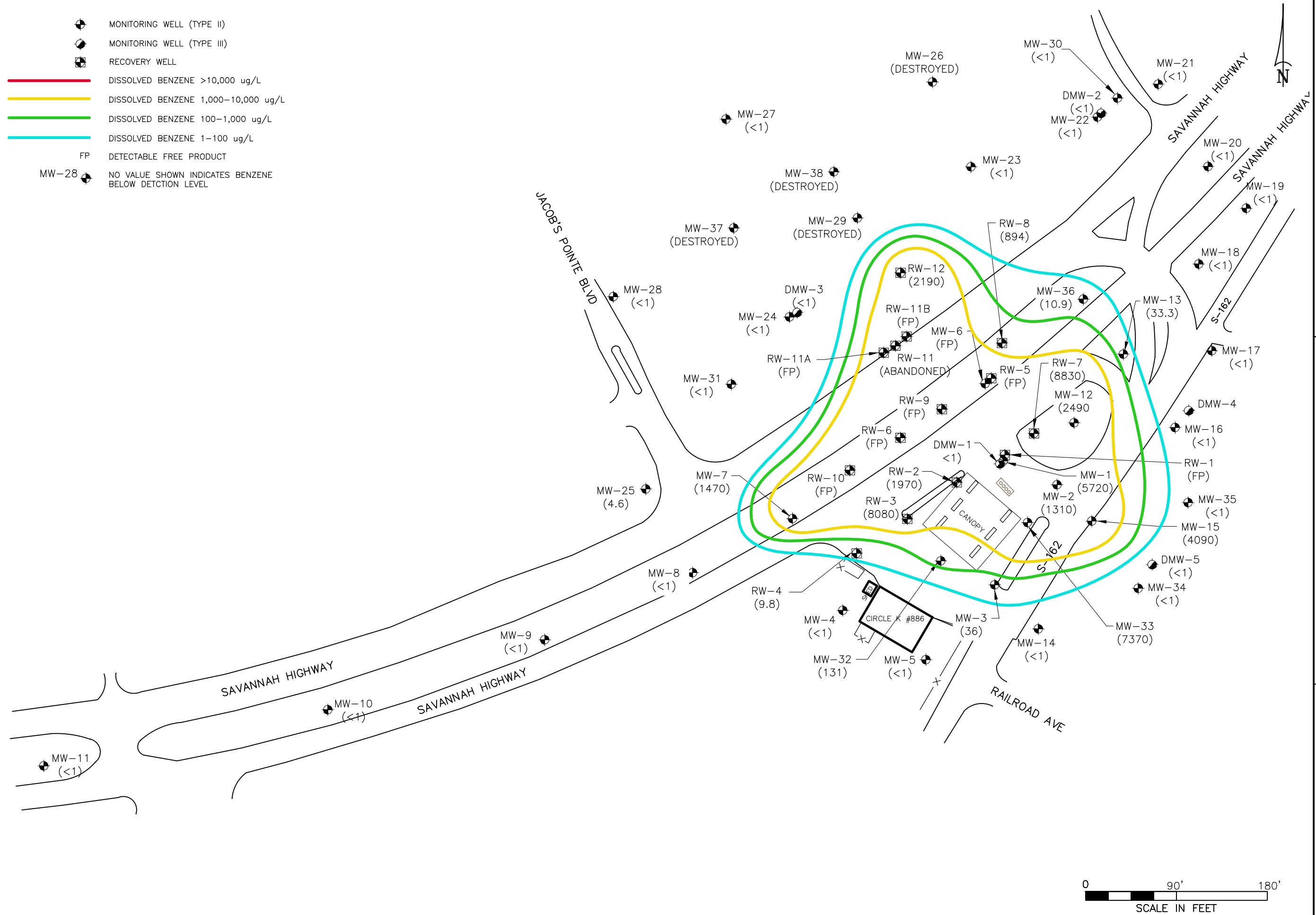
**ATLAS**  
 6904 North Main Street, Suite 107  
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SCALE	DATE	PROJECT NO.
1"=90'	05/02/2023	257CK88613

CAD FILE	TYPE CODE	PREP. BY	REV. BY
1252215.dwg	BH	BH	

UST PERMIT #01589
-------------------

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED BENZENE >10,000 ug/L
-  DISSOLVED BENZENE 1,000-10,000 ug/L
-  DISSOLVED BENZENE 100-1,000 ug/L
-  DISSOLVED BENZENE 1-100 ug/L
-  FP DETECTABLE FREE PRODUCT
-  MW-28 NO VALUE SHOWN INDICATES BENZENE BELOW DETECTION LEVEL



**FIGURE 5**  
 BENEZENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

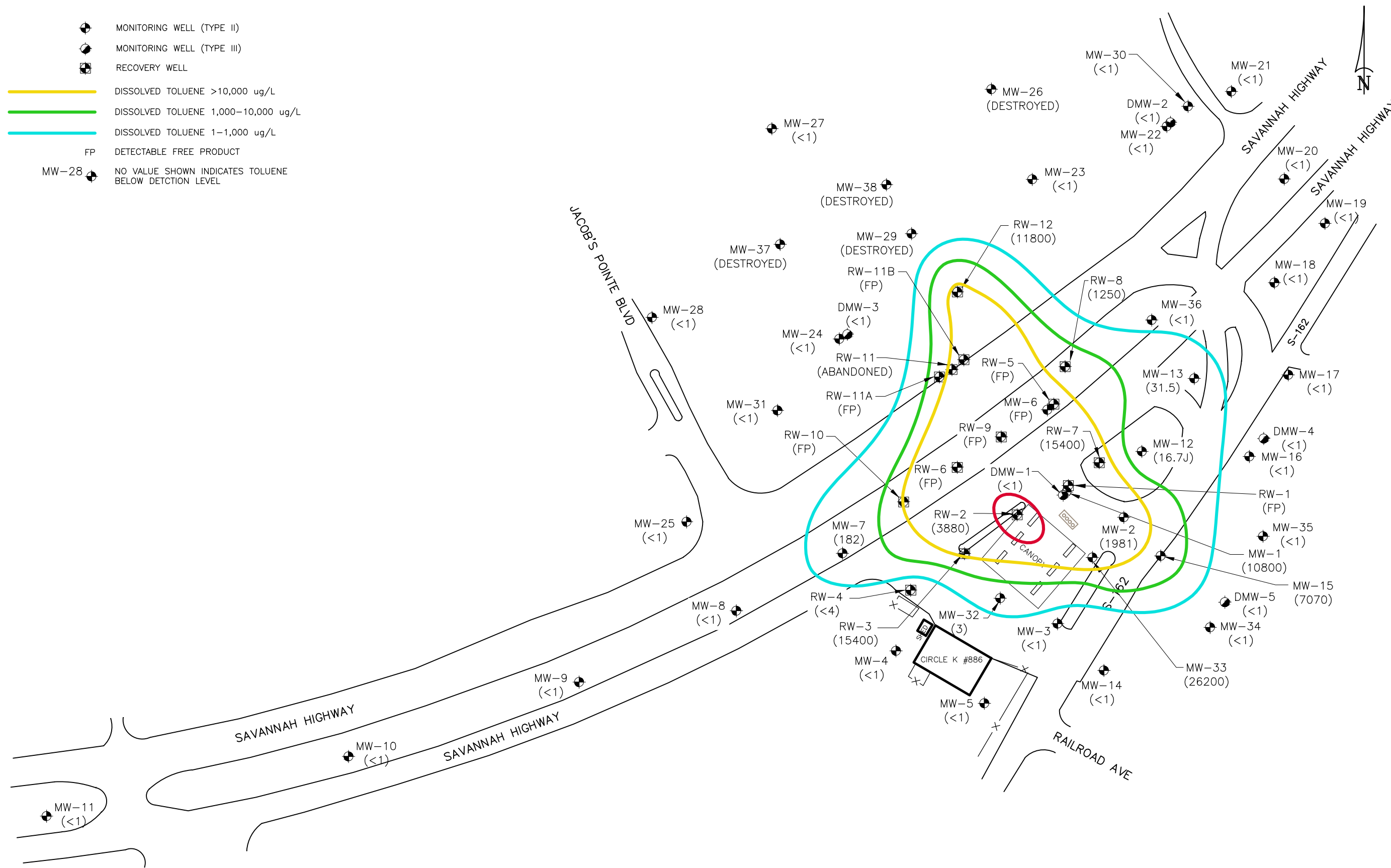
NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	05/02/2023	PROJECT NO.	257CK88613		



- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED TOLUENE >10,000 ug/L
- DISSOLVED TOLUENE 1,000-10,000 ug/L
- DISSOLVED TOLUENE 1-1,000 ug/L
- FP DETECTABLE FREE PRODUCT
- MW-28 NO VALUE SHOWN INDICATES TOLUENE BELOW DETECTION LEVEL











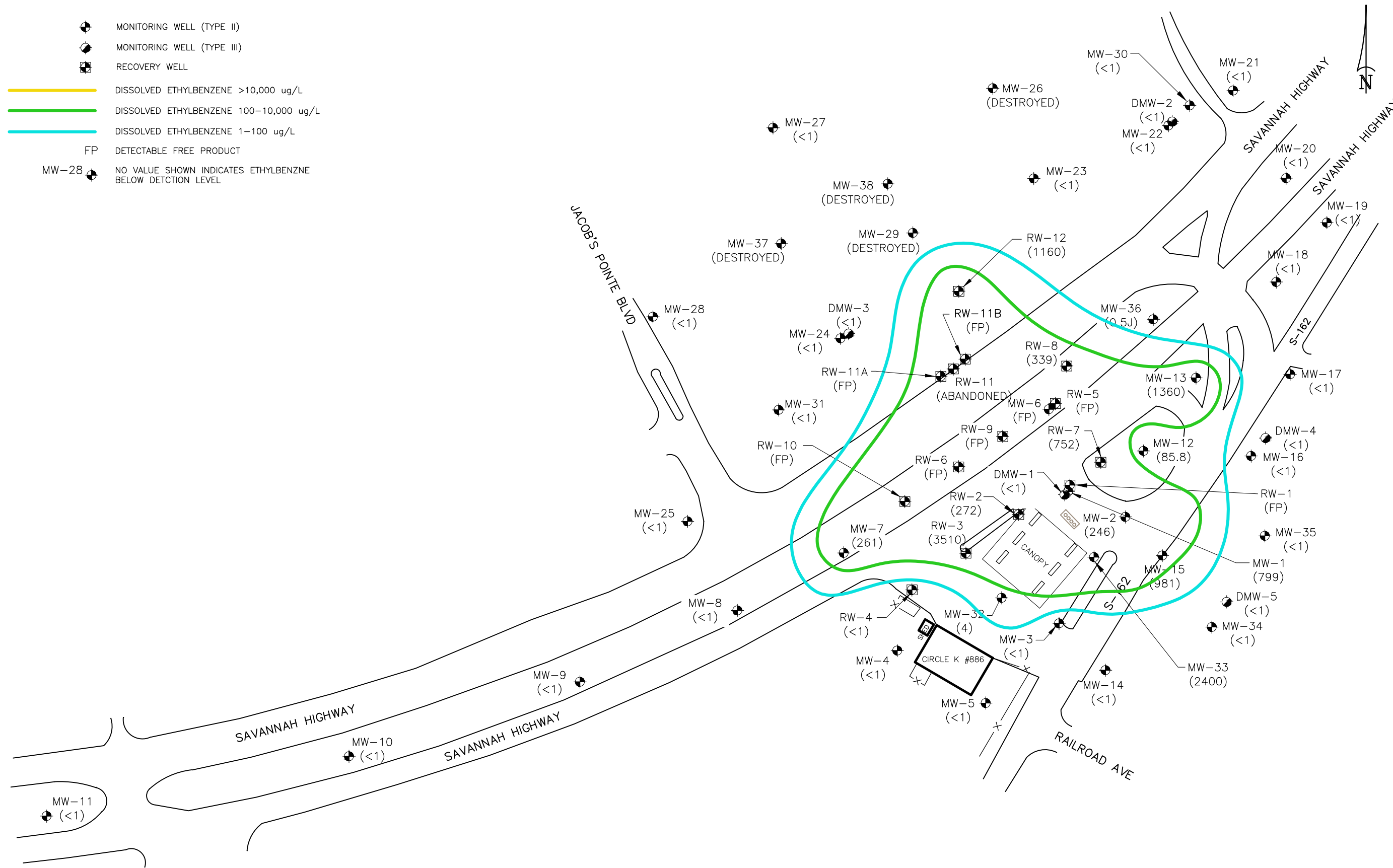
**FIGURE 6**  
 TOLUENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

**ATLAS**  
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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	05/02/2023	PROJECT NO.	257CK88613
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-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED ETHYLBENZENE >10,000 ug/L
-  DISSOLVED ETHYLBENZENE 100-10,000 ug/L
-  DISSOLVED ETHYLBENZENE 1-100 ug/L
-  FP DETECTABLE FREE PRODUCT
-  MW-28 NO VALUE SHOWN INDICATES ETHYLBENZENE BELOW DETECTION LEVEL










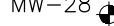
**FIGURE 7**  
 TITLE: UST PERMIT #01589  
 ETHYLBENZENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

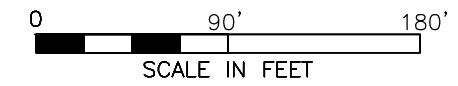
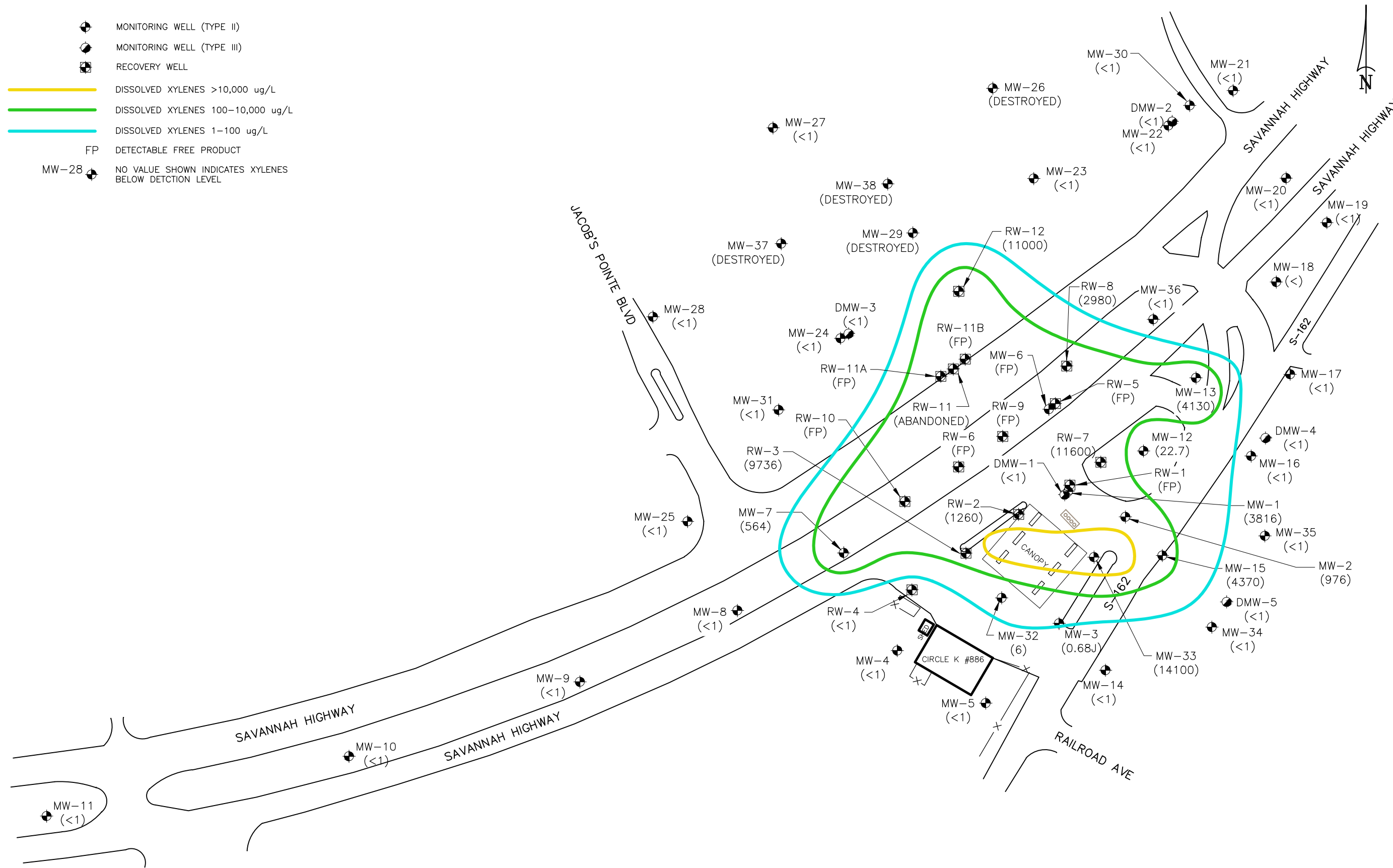
NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.



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CAD FILE	1252215.dwg	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	05/02/2023	PROJECT NO.	257CK88613

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED XYLENES >10,000 ug/L
-  DISSOLVED XYLENES 100-10,000 ug/L
-  DISSOLVED XYLENES 1-100 ug/L
-  FP DETECTABLE FREE PRODUCT
-  MW-28 NO VALUE SHOWN INDICATES XYLENES BELOW DETECTION LEVEL



**FIGURE 8**  
 TITLE: UST PERMIT #01589  
 XYLENES ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

CAD FILE  
 1252215.dwg

PREP. BY  
 BH

REV. BY

SCALE  
 1"=90'

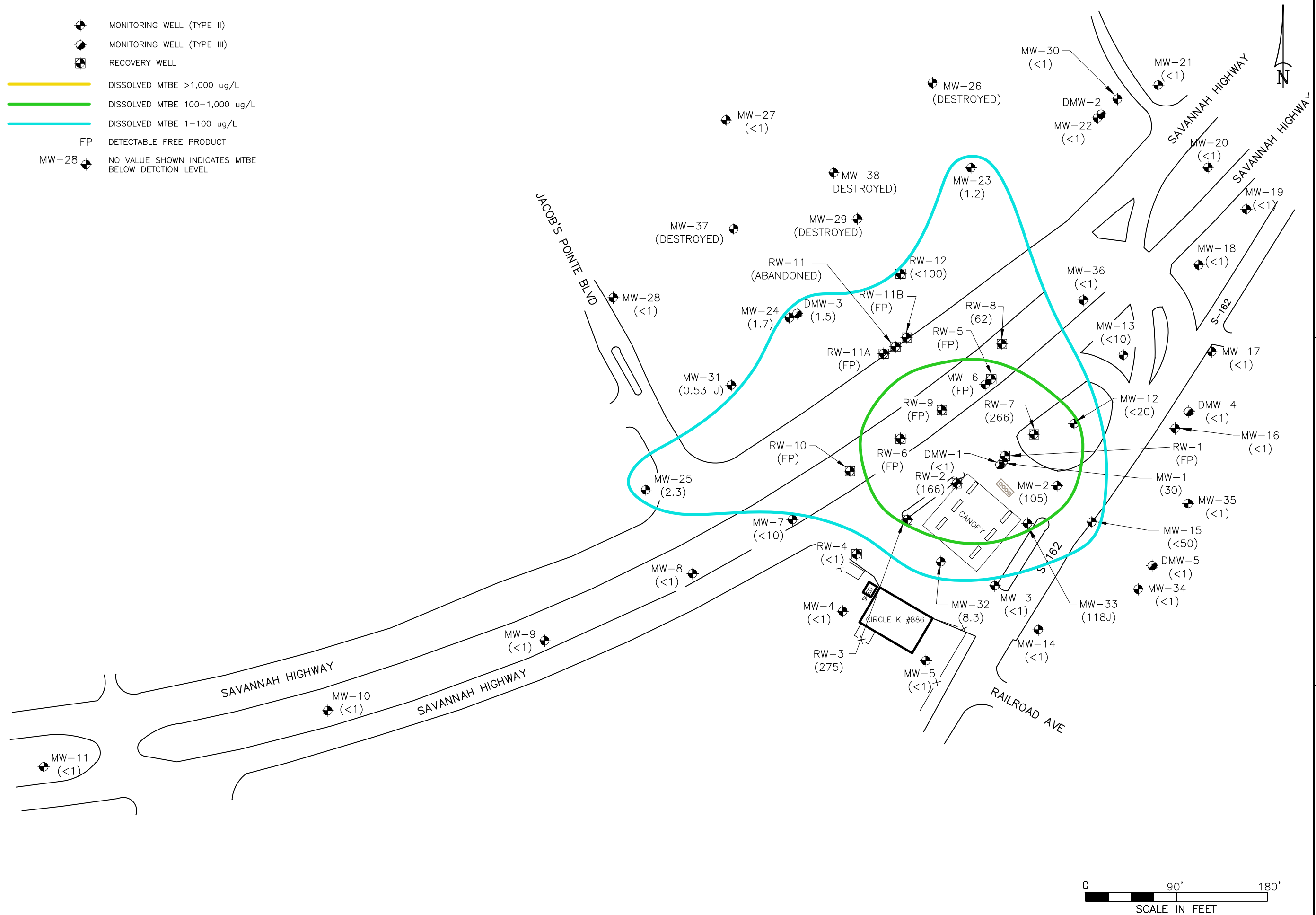
DATE  
 05/02/2023

PROJECT NO.  
 257CK88613



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- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED MTBE >1,000 ug/L
- DISSOLVED MTBE 100-1,000 ug/L
- DISSOLVED MTBE 1-100 ug/L
- FP DETECTABLE FREE PRODUCT
- MW-28 NO VALUE SHOWN INDICATES MTBE BELOW DETECTION LEVEL



**FIGURE 9**  
 UST PERMIT #01589  
 MTBE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

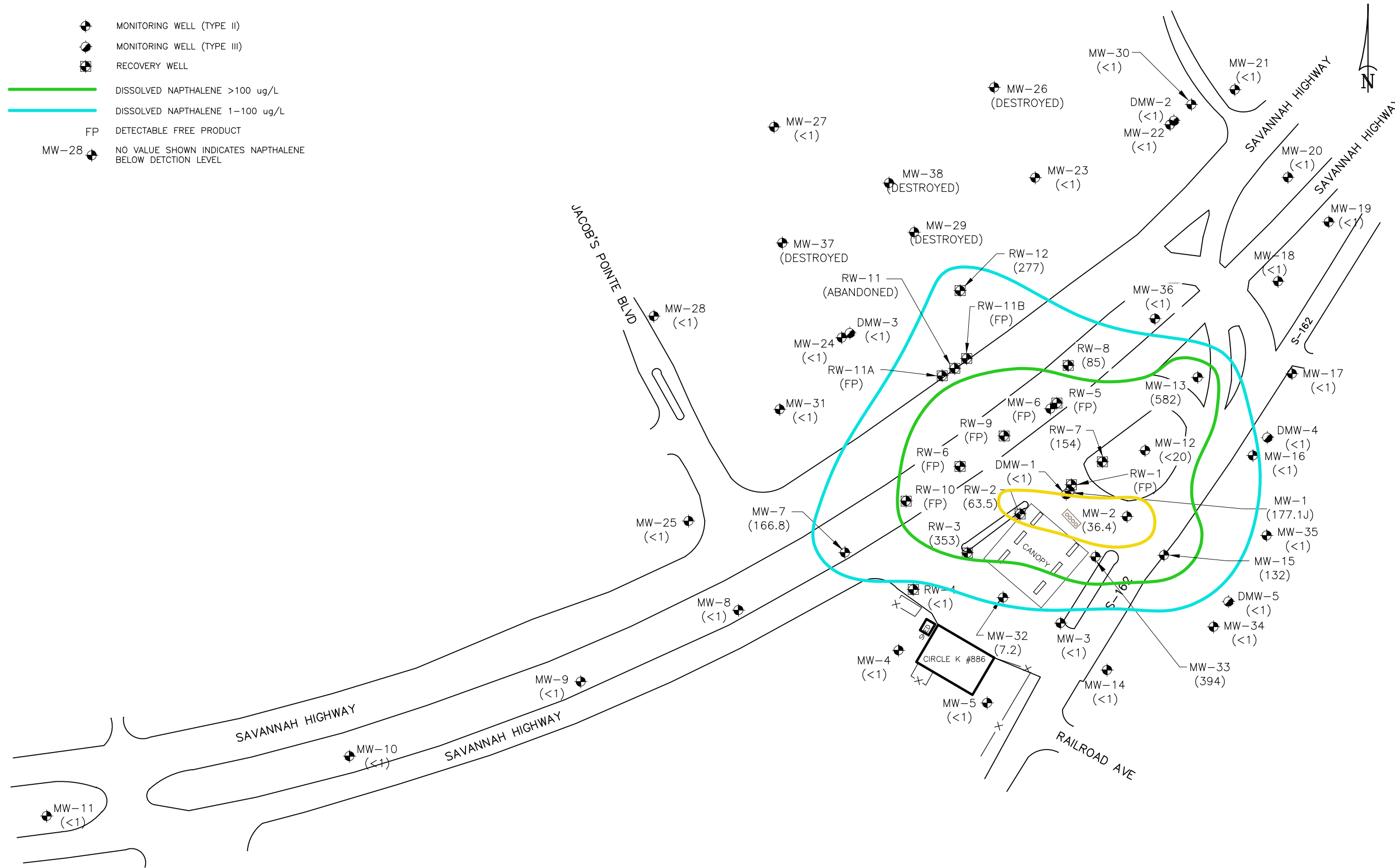
**NOTES:**  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	05/02/2023	PROJECT NO.	257CK88613		

**ATLAS**

6904 North Main Street, Suite 107  
 Columbia, South Carolina 29203  
 (803) 735-0003 FAX (803) 741-2444

- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED NAPHTHALENE >100 ug/L
- DISSOLVED NAPHTHALENE 1-100 ug/L
- DETECTABLE FREE PRODUCT
- NO VALUE SHOWN INDICATES NAPHTHALENE BELOW DETECTION LEVEL

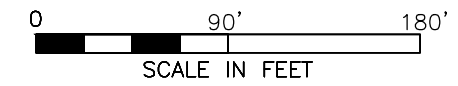


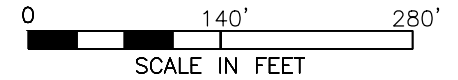
**FIGURE 10**  
 NAPHTHALENE ISOPLETH MAP FOR GROUNDWATER - SEPT. 2022  
 CIRCLE K #2720886  
 4315 SAVANNAH HIGHWAY  
 RAVENEL, SOUTH CAROLINA

NOTES:  
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/28-29/2023.

**ATLAS**  
 6904 North Main Street, Suite 107  
 Columbia, South Carolina 29203  
 (803) 735-0003 FAX (803) 741-2444

CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	05/02/2023	PROJECT NO.	257CK88613
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SW-3 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-9 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-8 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

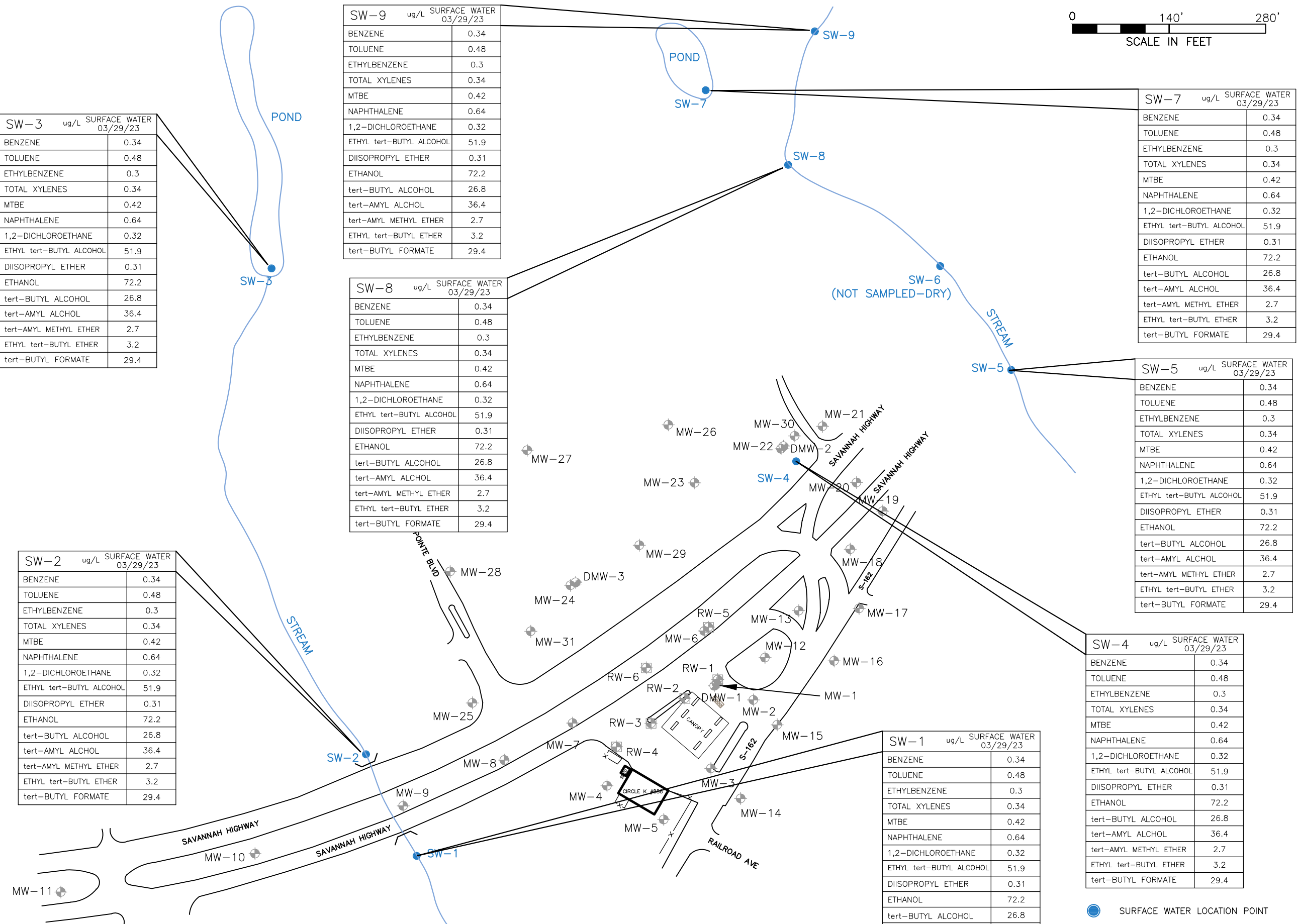
SW-7 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-5 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-2 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-4 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

SW-1 ug/L SURFACE WATER 03/29/23	
BENZENE	0.34
TOLUENE	0.48
ETHYLBENZENE	0.3
TOTAL XYLENES	0.34
MTBE	0.42
NAPHTHALENE	0.64
1,2-DICHLOROETHANE	0.32
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4



- SURFACE WATER LOCATION POINT
- ⊕ MONITORING WELL (TYPE II)
- ⊙ MONITORING WELL (TYPE III)
- ⊕ RECOVERY WELL

FIGURE 11

SURFICIAL WATER SAMPLE RESULTS  
CIRCLE K #2720886  
4315 SAVANNAH HIGHWAY  
RAVENEL, SOUTH CAROLINA

NOTES:

6904 North Main Street, Suite 107  
Columbia, South Carolina 29203  
(803) 735-0003 FAX (803) 741-2444

CAD FILE 1252215.dwg

TYPE CODE

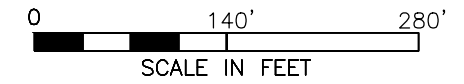
PREP. BY BH

REV. BY

SCALE 1"=140'

DATE 05/02/2023

PROJECT NO. 257CK88613



WSW-16 ug/L WATER WELL 03/29/23	
BENZENE	0.21
TOLUENE	0.2
ETHYLBENZENE	0.22
TOTAL XYLENES	0.39/0.22
MTBE	0.14
NAPHTHALENE	0.35
1,2-DICHLOROETHANE	0.16
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

WSW-12 ug/L WATER WELL 03/29/23	
BENZENE	0.21
TOLUENE	0.2
ETHYLBENZENE	0.22
TOTAL XYLENES	0.39/0.22
MTBE	0.14
NAPHTHALENE	0.35
1,2-DICHLOROETHANE	0.16
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

WSW-13 ug/L WATER WELL 03/29/23	
BENZENE	0.21
TOLUENE	0.2
ETHYLBENZENE	0.22
TOTAL XYLENES	0.39/0.22
MTBE	0.14
NAPHTHALENE	0.35
1,2-DICHLOROETHANE	0.16
ETHYL tert-BUTYL ALCOHOL	51.9
DIISOPROPYL ETHER	0.31
ETHANOL	72.2
tert-BUTYL ALCOHOL	26.8
tert-AMYL ALCHOL	36.4
tert-AMYL METHYL ETHER	2.7
ETHYL tert-BUTYL ETHER	3.2
tert-BUTYL FORMATE	29.4

● WSW-15  
(DECOMMISSIONED)

● WSW-13

● WSW-16

- WATER SUPPLY WELL
- ⊕ MONITORING WELL (TYPE II)
- ⊙ MONITORING WELL (TYPE III)
- ⊠ RECOVERY WELL

FIGURE 12

WATER WELL SAMPLE RESULTS  
CIRCLE K #2720886  
4315 SAVANNAH HIGHWAY  
RAVENEL, SOUTH CAROLINA

NOTES:



6904 North Main Street, Suite 107  
Columbia, South Carolina 29203  
(803) 735-0003 FAX (803) 741-2444

CAD FILE 1252215.dwg

TYPE CODE

PREP. BY BH

REV. BY

SCALE 1"=140'

DATE 05/02/2023

PROJECT NO. 257CK88613

**APPENDIX A**

**SCDHEC WELL RECORD FORMS**





Water Well Record
Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

Note: Personal information provided on this document is subject to public scrutiny or release.

1. WELL OWNER INFORMATION:

Name: Circle K Stores, Inc.
Address: 1100 Situs Court, Suite 100
City: Raleigh State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:Charleston

Name: Circle K 2720886
Street Address: 4315 Savannah Hwy
City: Ravenel Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RW-11

4. ABANDONMENT: Yes No
Give Details Below
Grouted Depth: from 6 ft. to 0 ft.

Table with 3 columns: Formation Description, \*Thickness of Stratum, Depth to Bottom of Stratum. Includes a note: \*Indicate Water Bearing Zones (Use a 2nd sheet if needed)

5. REMARKS:

6. TYPE: Mud Rotary, Jetted, Bored, Dug, Air Rotary, Driven, Cable tool, Other

7. PERMIT NUMBER: UST#01589

8. USE: Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well, Replacement

9. WELL DEPTH (completed) Date Started: 1/16/23
6 ft. Date Completed: 1/16/23

10. CASING: Thruaded, Welded, Diam.: 4", Type: PVC, Galvanized, Steel, Other, 0 in. to 1 ft. depth, Height: Above/Below Surface, Weight, Drive Shoe?

11. SCREEN: Type: PVC, Diam.: 4", Slot/Gauge: 0.010, Length: 5", Set Between: 1 ft. and 6 ft., NOTE: MULTIPLE SCREENS USE SECOND SHEET, Sieve Analysis

12. STATIC WATER LEVEL 5 ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface. ft. after hrs. Pumping G.P.M. Pumping Test: Yes No, Yield:

14. WATER QUALITY Chemical Analysis Yes No, Bacterial Analysis Yes No, Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No, Installed from 1 ft. to 6 ft., Effective size #2, Uniformity Coefficient

16. WELL GROUTED? Yes No, Neat Cement, Bentonite, Bentonite/Cement, Other, Depth: From 0.5 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft., direction, Type, Well Disinfected Yes No, Type: Amount:

18. PUMP: Date installed: Not installed, Mfr. Name: Model No.:, H.P., Volts, Length of drop pipe ft., Capacity gpm, TYPE: Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Jason Chiorazzi CERT. NO.: 1790, Address: (Print) 2047 Industrial Blvd, Lexington, SC 29072, Level: A B C D (circle one), Telephone No.: 8034295001 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: [Signature] Date: 2/10/23, Well Driller

If D Level Driller, provide supervising driller's name:





# Water Well Record

## Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

*Note: Personal information provided on this document is subject to public scrutiny or release.*

**1. WELL OWNER INFORMATION:**  
 Name: Circle K Stores, Inc.  
 (last) (first)  
 Address: 1100 Situs Court, Suite 100  
 City: Raleigh State: NC Zip: 27606  
 Telephone: Work: Home:

**2. LOCATION OF WELL: COUNTY:** Charleston  
 Name: Circle K 2720886  
 Street Address: 4315 Savannah Hwy  
 City: Ravenel Zip:  
 Latitude: Longitude:

**3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:**  
 01589 RW-11B

**4. ABANDONMENT:**  Yes  No  
 Give Details Below  
 Grouted Depth: from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
See Geologist's Log	12	12

\*Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST#01589

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  Monitor Well  Replacement

**9. WELL DEPTH (completed)** Date Started: 1/16/23  
12 ft. Date Completed: 1/16/23

**10. CASING:**  Threaded  Welded  
 Diam.: 4"  
 Type:  PVC  Galvanized  
 Steel  Other  
 0 in. to 2 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height: Above/Below  
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:**  
 Type: PVC Diam.: 4"  
 Slot/Gauge: 0.010 Length: 10'  
 Set Between: 2 ft. and 12 ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft. **NOTE: MULTIPLE SCREENS USE SECOND SHEET**  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL** Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from 1 ft. to 12 ft.  
 Effective size #2 Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0.5 ft. to 0 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes  No Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ Volts \_\_\_\_\_ Length of drop pipe \_\_\_\_\_ ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Jason Chiorazzi **CERT. NO.:** 1790  
 Address: (Print) Level: A B C D (circle one)  
 2047 Industrial Blvd, Lexington, SC  
 29072  
 Telephone No.: 8034295001 Fax No.:

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: \_\_\_\_\_ Date: 2/10/23  
 Well Driller

If D Level Driller, provide supervising driller's name:

**APPENDIX B**

**FIELD DATA SHEETS**

# Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: 03/23	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: cloudy	Ambient Air Temp (°F): 60.5

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
	10.0 NTU: Y or N
	S.C.: (Y) or N

<b>Well Information</b>	
Well ID: MW-1	Well Diameter (inches): 2
	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652
MW - Private WSW	Other:
Depth to Free Product (DFP) (ft.):	Screened Interval (ft.): 2 to 12
	4.42
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.):
	1 casing volume (CV = LWC x X) (gals.):
	3 casing volumes (3 x CV) (gals.):
	Free Product Thickness (ft.): NA
	total volume bailed (gals.):
	Method of Purging/Sample Collection: (Bailer) Pump
	Total Well Depth (TWD) (ft.): 12

Purging Data						
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling
Volume Purged (gallons)						
Time (military)	0.25					10.15
PH (s.u.)	5.86					5.86
Specific Conductivity (µS/cm)	2.46					2.46
Water Temperature (°C)	22.25					22.25
Turbidity (NTU)	25.3					25.3
Dissolved Oxygen (mg/L)	2.14					2.14

<b>Sampling Data</b>	
Sampled By: C. Morris	Duplicate: Y or N
Sampling Time: 10.15	If yes, Duplicate Time:
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.	
Signature: Candace Morris	
Grab as DGW was in screened interval	

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

<b>Site Information</b>	
Date: <b>03/23</b>	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: Ambient Air Temp (°F):	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N S.C.: (Y) or N

<b>Well Information</b>			
Well ID: MW- <b>2</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): <b>2</b> to <b>12</b>
Depth to Free Product (DFF) (ft.):		Depth to Groundwater (DGW) (ft.): <b>4.17</b>	Total Well Depth (TWD) (ft.): <b>12</b>
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):	Free Product Thickness (ft.): NA
		3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data							
	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Initial							
Volume Purged (gallons)	<b>0.25</b>						<b>0.25</b>
Time (military)	<b>1038</b>						<b>1038</b>
PH (s.u.)	<b>6.18</b>						<b>6.18</b>
Specific Conductivity (µS/cm)	<b>1.26</b>						<b>1.26</b>
Water Temperature (°C)	<b>21.54</b>						<b>21.54</b>
Turbidity (NTU)	<b>3.9</b>						<b>3.9</b>
Dissolved Oxygen (mg/L)	<b>6.39</b>						<b>6.39</b>

<b>Sampling Data</b>	
Sampled By: <b>C. Morris</b>	Sampling Time: <b>1038</b>
Duplicate: <input checked="" type="checkbox"/> Y or <input type="checkbox"/> N	If yes, Duplicate Time: <b>1041</b>

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: *Carolyn Morris* Grab as DLW was in screened interval

Dup - 1

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information															
Date: <b>03/23</b>		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray									
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:				Ambient Air Temp (°F):							
Quality Assurance															
Meter Name		Serial #: VU134N3T		Calibration:											
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N							
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N									
Well Information															
Well ID: MW- <b>3</b>		Well Diameter (inches): <b>2</b>		Conversion Factor (X gal/foot): <b>1</b>		1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump							
- MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): <b>2</b> to <b>12</b>		Total Well Depth (TWD) (ft.): <b>12</b>											
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGM) (ft.): <b>4.54</b>		Free Product Thickness (ft.): NA											
Length of water column (LWC = TWD - DGM) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):									
Purging Data															
Initial		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.		5 <sup>th</sup> Vol.		Post		Sampling	
Volume Purged (gallons)															
Time (military)															
PH (s.u.)															
Specific Conductivity (µS/cm)															
Water Temperature (°C)															
Turbidity (NTU)															
Dissolved Oxygen (mg/L)															
Sampling Data															
Sampled By: <b>C. Morris</b>		Sampling Time: <b>1027</b>		Duplicate: Y or N		If yes, Duplicate Time:									
Notes: <b>This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.</b>															
Signature: <b>Carolyn Morris</b> <b>Grab as DGM was in screened interval</b>															

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>Cloudy</i>		Ambient Air Temp (°F): <i>66°</i>					
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	10.0 NTU: Y or N			S.C.: (Y) or N		
	0.0 NTU: (Y) or N	1.0 NTU: Y or N		10.0 NTU: Y or N					
Well Information									
Well ID: MW-4	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1"	1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
MW Private WSW	RW Public WSW	Other:							
Depth to Free Product (DFP) (ft.):	Screened Interval (ft.): <i>2.12</i> to <i>12</i>		Total Well Depth (TWD) (ft.): <i>12</i>						
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.): <i>4.60</i>	Free Product Thickness (ft.): NA		total volume bailed (gals.):					
1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):								
Purging Data									
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post			
Volume Purged (gallons)	<i>0.25</i>								
Time (military)	<i>0928</i>					<i>0928</i>			
PH (s.u.)	<i>6.42</i>					<i>6.42</i>			
Specific Conductivity (µS/cm)	<i>0.455</i>					<i>0.455</i>			
Water Temperature (°C)	<i>19.73</i>					<i>19.73</i>			
Turbidity (NTU)	<i>0.0</i>					<i>0.0</i>			
Dissolved Oxygen (mg/L)	<i>3.04</i>					<i>3.04</i>			
Sampling Data									
Sampled By: <i>C. Morris</i>	Sampling Time: <i>0928 0928</i>	Duplicate: Y or <i>N</i>		If yes, Duplicate Time:					
Notes: This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: <i>Catelyn Morris</i> Grab as DTW was in screened interval									



## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: <u>03/23</u>	Site ID #: <u>01589</u>	Site Name: <u>Circle K #2720886</u>	Field Personnel: <u>C. Morris, J. Gray</u>
County: <u>Charleston</u>		Project Manager: <u>Brad Hubbard</u>	
General Weather Conditions: _____			
Ambient Air Temp (°F): <u>66.0</u>			

Quality Assurance			
Meter Name: _____			
Serial #: <u>VU134N3T</u>			
Calibration: _____			
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N
S.C.: (Y) or N			

Well Information			
Well ID: <u>MW-5</u>	Well Diameter (inches): <u>2</u>	Conversion Factor (X gal/foot): <u>0.041</u>	1" well = 0.041, 2" well = 0.166, 4" well = 0.652
MW Private WSW	RW Public WSW	Other: _____	
Method of Purging/Sample Collection: _____			
Depth to Free Product (DFP) (ft.): _____		Total Well Depth (TWD) (ft.): <u>12</u>	
Length of water column (LWC = TWD - DGW) (ft.): _____		Free Product Thickness (ft.): <u>NA</u>	
1 casing volume (CV = LWC x X) (gals.): _____		3 casing volumes (3 x CV) (gals.): _____	
total volume bailed (gals.): _____			

Purging Data				
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.
Volume Purged (gallons)	<u>0.25</u>			
Time (military)	<u>0923</u>			
PH (s.u.)	<u>6.17</u>			
Specific Conductivity (µS/cm)	<u>0.155</u>			
Water Temperature (°C)	<u>20.38</u>			
Turbidity (NTU)	<u>1.4</u>			
Dissolved Oxygen (mg/L)	<u>2.33</u>			
				5 <sup>th</sup> Vol.
				Post
				Sampling

Sampling Data	
Sampled By: <u>C. Morris</u>	Duplicate: Y or <u>N</u>
Sampling Time: <u>0923</u>	If yes, Duplicate Time: _____

Notes: \_\_\_\_\_

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: Candace Morris Grab as DW was in screened interval

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information															
Date: 03/29/23		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray									
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: Clear		Ambient Air Temp (°F):									
Quality Assurance															
Meter Name		Serial #: VU134N3T		Calibration:											
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N							
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N									
Well Information															
Well ID: MW-7		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump									
MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): 2-12		to		Total Well Depth (TWD) (ft.): 12									
Depth to Free Product (DFF) (ft.):		Depth to Groundwater (DGW) (ft.): 2.93		Free Product Thickness (ft.): NA		total volume bailed (gals.):									
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):											
Purging Data															
Volume Purged (gallons)		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.		5 <sup>th</sup> Vol.		Post		Sampling	
Time (military)		0939												0939	
PH (s.u.)		5.79												5.79	
Specific Conductivity (µS/cm)		916												916	
Water Temperature (°C)		18.93												18.93	
Turbidity (NTU)		24.5												24.5	
Dissolved Oxygen (mg/L)		1.45												1.45	
Sampling Data															
Sampled By: <i>Joseph Long</i>		Sampling Time: 0939		Duplicate: Y or N		If yes, Duplicate Time:									
Notes:		This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.													
Signature: _____															

*66003*

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information															
Date: <b>03/12/23</b>		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray		Ambient Air Temp (°F):							
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:											
Quality Assurance															
Meter Name		Serial #: VU134N3T		Calibration:											
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N							
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N									
Well Information															
Well ID: MW- <b>8</b>		Well Diameter (inches): <b>2</b>		Conversion Factor (X gal/foot): <b>1"</b> well = 0.041, <b>2"</b> well = 0.166, <b>4"</b> well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump									
MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): <b>2-12</b>		Total Well Depth (TWD) (ft.): <b>12</b>											
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): <b>3.04</b>		Free Product Thickness (ft.): NA											
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):									
Purging Data															
Initial		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.		5 <sup>th</sup> Vol.		Post		Sampling	
Volume Purged (gallons)														0910	
Time (military)														5.31	
PH (s.u.)														0.174	
Specific Conductivity (µS/cm)														18.41	
Water Temperature (°C)														4.6	
Turbidity (NTU)														2.03	
Dissolved Oxygen (mg/L)															
Sampling Data															
Sampled By: <b>C. Morris</b>		Sampling Time: <b>0910</b>		Duplicate: Y or <b>N</b>		If yes, Duplicate Time:									
Notes:															
Signature: <b>Cathryn Morris</b>															

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

GEMAD

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date:	03/12/23	Site ID #:	01589	Site Name:	Circle K #2720886	Field Personnel:	C. Morris, J. Gray		
County:	Charleston	Project Manager:	Brad Hubbard			General Weather Conditions:	Ambient Air Temp (°F):		
Quality Assurance									
Meter Name				Serial #:	VU134N3T				
Calibration:									
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N	10.0 NTU: Y or N	S.C.: (Y) or N			
Well Information									
Well ID: MW-9	Well Diameter (inches): 2	Conversion Factor (X gal/foot)	1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
MW Private WSW Depth to Free Product (DFF) (ft.):	RW Public WSW Other:	Screened Interval (ft.):	2-12						
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.):	3 casing volumes (3 x CV) (gals.):	3						
Purging Data									
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling	
Time (military)	0.75							0851	
PH (s.u.)	5.98							5.98	
Specific Conductivity (µS/cm)	0.222							0.222	
Water Temperature (°C)	17.86							17.86	
Turbidity (NTU)	1.74							1.74	
Dissolved Oxygen (mg/L)									
Sampling Data									
Sampled By:	J. Morris			Sampling Time:	0851		Duplicate:	Y or N	
Notes:	This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.								
Signature:	Carolyn Morris								

GRAB

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/12/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>Clear</i>	Ambient Air Temp (°F): 58°						
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N	1.0 NTU: Y or N							
Well Information									
Well ID: MW-10	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): 2-12 to 12		Total Well Depth (TWD) (ft.): NA				
Depth to Free Product (DFP) (ft.):			Depth to Groundwater (DGW) (ft.): 3.13		Free Product Thickness (ft.): NA				
Length of water column (LWC = TWD - DGW) (ft.):			1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):				
Purging Data									
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling	
Time (military)	0823							0823	
PH (s.u.)	5.73							5.73	
Specific Conductivity (µS/cm)	154							154	
Water Temperature (°C)	18.66							18.66	
Turbidity (NTU)	1.09							1.09	
Dissolved Oxygen (mg/L)	1.20							1.20	
Sampling Data									
Sampled By:	Sampling Time: 0823		Duplicate: Y or N		If yes, Duplicate Time:				
Notes:	This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.								
Signature:	<i>[Signature]</i>								

*GAMS*

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

28 24

### Site Information

Date: 03/ 23 Site ID #: 01589 Site Name: Circle K #2720886 Field Personnel: C. Morris, J. Gray  
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: cloudy Ambient Air Temp (°F): 60's

### Quality Assurance

Meter Name: Serial #: VU134N3T Calibration: \_\_\_\_\_  
 Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity) pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N  
 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

### Well Information

Well ID: MW- 11 Well Diameter (inches): 2 Conversion Factor (X gal/foot) 1" well = 0.041, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: (Bailer) Pump  
 MW Private WSW Public WSW Other: Screened Interval (ft.): Total Well Depth (TWD) (ft.): 12  
 Depth to Free Product (DFF) (ft.): 3.21 Free Product Thickness (ft.): NA  
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x X) (gals.): 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):

### Purging Data

	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)	0815							0815
PH (s.u.)	6.93							6.93
Specific Conductivity (µS/cm)	0.273							0.273
Water Temperature (°C)	17.70							17.70
Turbidity (NTU)	173							173
Dissolved Oxygen (mg/L)	1.35							1.35

### Sampling Data

Sampled By: C. Morris Sampling Time: 0815 Duplicate: Y or N If yes, Duplicate Time: \_\_\_\_\_

Notes: \_\_\_\_\_

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: Carolyn Morris

## Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Site Information										
Date: <b>03/12/23</b>	Site ID #: <b>01589</b>	Site Name: <b>Circle K #2720886</b>	Field Personnel: <b>C. Morris, J. Gray</b>							
County: <b>Charleston</b>	Project Manager: <b>Brad Hubbard</b>	General Weather Conditions: <b>cloudy</b>	Ambient Air Temp (°F): <b>60's</b>							
Quality Assurance										
Meter Name	Serial #: <b>VU134N3T</b>	Calibration:								
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N			
	0.0 NTU: (Y) or N									
Well Information										
Well ID: <b>MV-12</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>0.041</b>	1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) <input type="checkbox"/> Pump <input type="checkbox"/>						
MW <input type="checkbox"/> IW <input type="checkbox"/> RW <input type="checkbox"/> Public WSW <input type="checkbox"/> Other: <input type="checkbox"/>	Screened Interval (ft.): <b>2 to 12</b>		Total Well Depth (TWD) (ft.): <b>12</b>							
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): <b>4-30</b>		Free Product Thickness (ft.): <b>NA</b>							
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):						
Purging Data										
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling		
Time (military)	<b>0:25</b>							<b>0</b>		
PH (s.u.)	<b>6.36</b>							<b>1052</b>		
Specific Conductivity (µS/cm)	<b>0.854</b>							<b>6.36</b>		
Water Temperature (°C)	<b>20.43</b>							<b>0.854</b>		
Turbidity (NTU)	<b>0.0</b>							<b>20.43</b>		
Dissolved Oxygen (mg/L)	<b>5.37</b>							<b>0.0</b>		
Sampling Data										
Sampled By: <b>C. Morris</b>	Sampling Time: <b>1052</b>	Duplicate: <b>Y or N</b>					If yes, Duplicate Time:			
Notes: <b>Carrollton Monitor Grab as DGW was in screened interval</b>										
Signature: <b>Carrollton Monitor</b>										

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.





**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

**25**

<b>Site Information</b>							
Date: 03/ 23	Site ID #: 01589						
County: Charleston	Project Manager: Brad Hubbard						
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
General Weather Conditions: <i>Cloudy</i>	Ambient Air Temp (°F): <i>70.5</i>						
<b>Quality Assurance</b>							
Meter Name	Serial #: VU134N3T						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	Calibration:						
	pH 4.0: (Y) or N						
	pH 7.0: Y or N						
	pH 10.0: Y or N						
	0.0 NTU: (Y) or N						
	1.0 NTU: Y or N						
	10.0 NTU: Y or N						
	S.C.: (Y) or N						
<b>Well Information</b>							
Well ID: MW-14	Well Diameter (inches): 2						
MW	Conversion Factor (X gal/foot) 1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
IW	Method of Purging/Sample Collection: (Bailer) Pump						
Private WSW	Public WSW						
Other:	Screened Interval (ft.): <i>12</i> to <i>12</i>						
Depth to Free Product (DFP) (ft.):	Total Well Depth (TWD) (ft.): <i>12</i>						
Length of water column (LWC = TWD - DGW) (ft.):	Free Product Thickness (ft.): NA						
1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):						
1 casing volume (CV = LWC x X) (gals.):	total volume bailed (gals.):						
<b>Purging Data</b>							
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)							<i>1115</i>
PH (s.u.)							<i>6.54</i>
Specific Conductivity (µS/cm)							<i>0.641</i>
Water Temperature (°C)							<i>22.86</i>
Turbidity (NTU)							<i>17.3</i>
Dissolved Oxygen (mg/L)							<i>2.91</i>
<b>Sampling Data</b>							
Sampled By: <i>C. Morris</i>	Sampling Time: <i>1115</i>	Duplicate: Y or <i>N</i>	If yes, Duplicate Time:				
Notes:							
Signature: <i>Carolyn Morris</i>							

*Bottom foot blocked @ 11 ft. (root intrusion)*

*Arab*

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

**Site Information**

Date: 03/123      Site ID #: 01589      Site Name: Circle K #2720886      Field Personnel: C. Morris, J. Gray

County: Charleston      Project Manager: Brad Hubbard      General Weather Conditions: *Cloudy*      Ambient Air Temp (°F): *70.5*

**Quality Assurance**

Meter Name:      Serial #: VU134N3T      Calibration:      S.C.: (Y) or N

Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)      pH 4.0: (Y) or N      pH 7.0: Y or N      pH 10.0: Y or N      10.0 NTU: Y or N

**Well Information**

Well ID: MW-15      Well Diameter (inches): 2      Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652      Method of Purging/Sample Collection: (Bailer) Pump

MW: IW      RW: Other:      Screened Interval (ft.): 12 to 12      Total Well Depth (TWD) (ft.): 12

Private WSW: Public WSW:      Depth to Groundwater (DGM) (ft.): 4.97      Free Product Thickness (ft.): NA

Depth to Free Product (DFP) (ft.):      1 casing volume (CV = LWC x X) (gals.): 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):

**Purging Data**

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
0.25							1120
1120							5.62
5.62							0.242
0.242							21.59
21.59							0.0
0.0							3.84

**Sampling Data**

Sampled By: *C. Morris*      Sampling Time: 1120      Duplicate: Y or *N*      If yes, Duplicate Time:

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: *Avery Morris*      Grab

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

<b>Site Information</b>	
Date: <b>03/23</b>	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Field Personnel: C. Morris, J. Gray	Ambient Air Temp (°F):

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N S.C.: (Y) or N

<b>Well Information</b>			
Well ID: MW-16	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW: Private WSW	RW: Public WSW	Other:	Screened Interval (ft.): 2 to 12
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.61	Free Product Thickness (ft.): NA	Total Well Depth (TWD) (ft.): 12
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data								
	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)	1418							1418
PH (s.u.)	4.64							4.64
Specific Conductivity (µS/cm)	0.270							0.270
Water Temperature (°C)	19.63							19.63
Turbidity (NTU)	0.0							0.0
Dissolved Oxygen (mg/L)	1.95							1.95

<b>Sampling Data</b>			
Sampled By: C. Morris	Sampling Time: 1418	Duplicate: Y or N	If yes, Duplicate Time:
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.			
Signature: Carolyn Morris			

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

**25**

Date: 03/123      Site ID #: 01589      Site Name: Circle K #2720886      Field Personnel: C. Morris, J. Gray

County: Charleston      Project Manager: Brad Hubbard      General Weather Conditions: *Cloudy*      Ambient Air Temp (°F): 70's

**Quality Assurance**

Meter Name: \_\_\_\_\_ Serial #: VU134N3T      Calibration: \_\_\_\_\_

Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)

pH 4.0: (Y) or N      pH 7.0: Y or N      pH 10.0: Y or N      S.C.: (Y) or N

0.0 NTU: (Y) or N      1.0 NTU: Y or N      10.0 NTU: Y or N

**Well Information**

Well ID: MW-17      Well Diameter (inches): 2      Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652      Method of Purging/Sample Collection: \_\_\_\_\_ (Bailer)      Pump \_\_\_\_\_

MW: \_\_\_\_\_      RW: \_\_\_\_\_      Other: \_\_\_\_\_

Private WSW: \_\_\_\_\_      Public WSW: \_\_\_\_\_

Depth to Free Product (DFP) (ft.): \_\_\_\_\_      Screened Interval (ft.): 2 to 12      Total Well Depth (TWD) (ft.): 12

Length of water column (LWC = TWD - DGM) (ft.): \_\_\_\_\_      Depth to Groundwater (DGM) (ft.): 3.77      Free Product Thickness (ft.): NA

1 casing volume (CV = LWC x X) (gals.): \_\_\_\_\_      3 casing volumes (3 x CV) (gals.): \_\_\_\_\_      total volume bailed (gals.): \_\_\_\_\_

**Purging Data**

	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post Sampling
Volume Purged (gallons)	0.25						
Time (military)	1410						1410
PH (s.u.)	6.28						6.28
Specific Conductivity (µS/cm)	0.334						0.334
Water Temperature (°C)	20.62						20.62
Turbidity (NTU)	0.0						0.0
Dissolved Oxygen (mg/L)	7.54						7.54

**Sampling Data**

Sampled By: C. Morris      Sampling Time: 1410      Duplicate: Y or N      If yes, Duplicate Time: \_\_\_\_\_

Notes: \_\_\_\_\_

Signature: *Carolyn Morris*      *Grab*

This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

25

Site Information			
Date: 03/123	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Chanteston	Project Manager: Brad Hubbard	General Weather Conditions: cloudy	Ambient Air Temp (°F): 70.5

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW-18	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW Public WSW Other:	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 3.73	Free Product Thickness (ft.): NA	
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data								
	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Volume Purged (gallons)	0.25							
Time (military)	1405							1405
PH (s.u.)	5.42							5.42
Specific Conductivity (µS/cm)	0.206							0.206
Water Temperature (°C)	21.04							21.04
Turbidity (NTU)	0.0							0.0
Dissolved Oxygen (mg/L)	7.35							7.35

Sampling Data			
Sampled By: C. Morris	Sampling Time: 1405	Duplicate: Y or N	If yes, Duplicate Time:
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.			
Signature: Carolyn Morris <i>Carah</i>			

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

<b>Site Information</b>	
Date: 03/ 23	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: cloudy	
Ambient Air Temp (°F): 70.5	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
	10.0 NTU: Y or N
	S.C.: (Y) or N

<b>Well Information</b>			
Well ID: MW- 19	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW - Private WSW	RW - Public WSW	Other:	
Depth to Free Product (DFP) (ft.):		Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
1 casing volume (CV = LWC x X) (gals.):		2 to 12	12
Length of water column (LWC = TWD - DGW) (ft.):		Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):
3 casing volumes (3 x CV) (gals.):		3.73	NA
total volume bailed (gals.):			

Purging Data				
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.
Volume Purged (gallons)	0.25			
Time (military)	1359			
PH (s.u.)	5.22			
Specific Conductivity (µS/cm)	0.129			
Water Temperature (°C)	21.14			
Turbidity (NTU)	0.0			
Dissolved Oxygen (mg/L)	1.61			
				5 <sup>th</sup> Vol.
				Post
				Sampling
				1359
				5.22
				0.129
				21.14
				0.0
				1.61

<b>Sampling Data</b>	
Sampled By: C. Morris	Duplicate: Y or <b>N</b>
Sampling Time: 1359	If yes, Duplicate Time:

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: Carolyn Merrill *grab*

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: <u>28</u> 03/12/23	Site ID #: 01589
Project Manager: Brad Hubbard	Site Name: Circle K #2720886
Field Personnel: C. Morris, J. Gray	
General Weather Conditions: <u>cloudy</u> Ambient Air Temp (°F): <u>70.5</u>	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N S.C.: (Y) or N

<b>Well Information</b>			
Well ID: MW- <u>20</u>	Well Diameter (inches): <u>2</u>	Conversion Factor (X gal/foot): <u>1"</u> well = 0.041, <u>2"</u> well = 0.166, <u>4"</u> well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW Other:	RW Public WSW	Screened Interval (ft.): <u>2</u> to <u>12</u> Total Well Depth (TWD) (ft.): <u>12</u>	Free Product Thickness (ft.): NA total volume bailed (gals.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): <u>2.87</u>	3 casing volumes (3 x CV) (gals.):	
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	4th Vol.	5th Vol.

Purging Data								
	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
Volume Purged (gallons)	<u>0.25</u>							
Time (military)	<u>1353</u>							<u>1353</u>
PH (s.u.)	<u>5.60</u>							<u>5.60</u>
Specific Conductivity (µS/cm)	<u>0.302</u>							<u>0.302</u>
Water Temperature (°C)	<u>21.26</u>							<u>21.26</u>
Turbidity (NTU)	<u>0.4</u>							<u>0.4</u>
Dissolved Oxygen (mg/L)	<u>1.67</u>							<u>1.67</u>

<b>Sampling Data</b>	
Sampled By: <u>C. Morris</u>	Sampling Time: <u>1353</u>
Notes:	Duplicate: Y or <u>N</u> If yes, Duplicate Time:

This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: Candelyn Morris Grab

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/20/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions:		Ambient Air Temp (°F):					
Quality Assurance									
Meter Name	Serial #: VU13-4N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
Well Information									
Well ID: MW-21	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW	IW Public WSW	RW Other	Screened Interval (ft.): 2-12		Total Well Depth (TWD) (ft.): 12				
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 1.31		Free Product Thickness (ft.): NA		total volume bailed (gals.):			
Length of water column (LWC = TWD - DGW) (ft.): 10.69		1 casing volume (CV = LWC x X) (gals.): 1.77		3 casing volumes (3 x CV) (gals.):					
Purging Data									
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post Sampling			
Volume Purged (gallons)	0.25	1139				1139			
Time (military)	0.39					6.45			
PH (s.u.)	0.376					0.377			
Specific Conductivity (µS/cm)	20.66					20.86			
Water Temperature (°C)	0.376					100			
Turbidity (NTU)	1.09					2.25			
Dissolved Oxygen (mg/L)									
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1139	Duplicate: <input checked="" type="checkbox"/> or N		If yes, Duplicate Time:					
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: Carolyn Nervin Purged at 1st Vol. + initial									



## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/28/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions:		Ambient Air Temp (°F):					
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N		10.0 NTU: Y or N		S.C.: (Y) or N
Well Information									
Well ID: MW- 22	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW	RW Public WSW	Other:		Screened Interval (ft.): 2-12		Total Well Depth (TWD) (ft.): 12			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 4.26		Free Product Thickness (ft.): NA		total volume bailed (gals.):			
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):					
Purging Data									
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling	
Time (military)	0.25							1110	
PH (s.u.)	4.94							4.94	
Specific Conductivity (µS/cm)	0.069							0.069	
Water Temperature (°C)	20.55							20.55	
Turbidity (NTU)	37.1							37.1	
Dissolved Oxygen (mg/L)	2.21							2.21	
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1110	Duplicate: Y or (N)		If yes, Duplicate Time:					
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: <i>Carolyn Morris</i>									

*GMMS*

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: 03/23	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: Sunny	Ambient Air Temp (°F): 60's
<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N
	pH 7.0: Y or N
	pH 10.0: Y or N
	1.0 NTU: Y or N
	10.0 NTU: Y or N
<b>Well Information</b>	
Well ID: MW-23	Well Diameter (inches): 2
	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652
MW Private WSW Depth to Free Product (DFP) (ft.):	Other: Screened Interval (ft.): 5 to 13
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.): 7.73
	Free Product Thickness (ft.): NA
	total volume bailed (gals.):
<b>Purging Data</b>	
Volume Purged (gallons)	1 <sup>st</sup> Vol.
Time (military)	2 <sup>nd</sup> Vol.
PH (s.u.)	3 <sup>rd</sup> Vol.
Specific Conductivity (µS/cm)	4 <sup>th</sup> Vol.
Water Temperature (°C)	5 <sup>th</sup> Vol.
Turbidity (NTU)	Post
Dissolved Oxygen (mg/L)	Sampling
	Initial
	0.25
	1215
	5.44
	0.211
	20.67
	0.0
	1.58
	1215
	5.44
	0.211
	20.67
	0.0
	1.58
<b>Sampling Data</b>	
Sampled By: C. Morris	Sampling Time: 1215
	Duplicate: Y or <input checked="" type="checkbox"/>
Notes:	
This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.	
Signature: Carolyn Morris (Grab)	

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date:	03/29/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray					
County:	Charleston	Project Manager:	Brad Hubbard	General Weather Conditions:	Ambient Air Temp (°F):				
Quality Assurance									
Meter Name	Serial #: VU134N3T			Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N		
	0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N				
Well Information									
Well ID: MW- 24	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): 5-15		Total Well Depth (TWD) (ft.): 15				
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 6.99		Free Product Thickness (ft.): NA						
Length of water column (LWC = TWD - DGW) (ft.): 8.01	1 casing volume (CV = LWC x X) (gals.): 1.32		3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):						
Purging Data									
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post Sampling			
Volume Purged (gallons)									
Time (military)	0:25					1340			
PH (s.u.)	4.84					4.84			
Specific Conductivity (µS/cm)	0.148					0.148			
Water Temperature (°C)	21.25					21.25			
Turbidity (NTU)	0.0					0.0			
Dissolved Oxygen (mg/L)	1.93					1.93			
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1340		Duplicate: Y or N		If yes, Duplicate Time:				
Notes:	This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.								
Signature: -	Carolyn Morris Grab								

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/29/23	Site ID #: 01689	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions:		Ambient Air Temp (°F):					
Quality Assurance									
Meter Name	Serial #: VU134N3T		Calibration:						
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N								
Well Information									
Well ID: MW- 25	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump						
IW Private WSW	RW Public WSW	Other:		Screened Interval (ft.): 2-12			Total Well Depth (TWD) (ft.): 12		
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 1.35		Free Product Thickness (ft.): NA			total volume bailed (gals.):		
Length of water column (LWC = TWD - DGW) (ft.): 10.65		1 casing volume (CV = LWC x X) (gals.): 1.76		3 casing volumes (3 x CV) (gals.):					
Purging Data									
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling		
Volume Purged (gallons)	2.00	2.00	2.00	2.00	2.00				
Time (military)	1503	1505	1508	1510	1513		1513		
PH (s.u.)	5.53	5.43	5.39	5.33	5.32		5.32		
Specific Conductivity (µS/cm)	0.190	0.188	0.186	0.186	0.187		0.187		
Water Temperature (°C)	21.27	20.95	21.05	21.22	21.55		21.55		
Turbidity (NTU)	0.0	413	739	556	525		525		
Dissolved Oxygen (mg/L)	1.22	2.65	1.97	3.08	1.54		1.54		
Sampling Data									
Sampled By: C. Morris	Sampling Time: 1513	Duplicate: Y or N		If yes, Duplicate Time:					
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: Carolyn Morris Went Fall 5 Vol.									

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information															
Date: 03/12/2008		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray									
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:		Ambient Air Temp (°F):									
Quality Assurance															
Meter Name		Serial #: VU134N3T		Calibration:											
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N							
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N									
Well Information															
Well ID: MW-27		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump									
- MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): 5-15		Total Well Depth (TWD) (ft.): 15											
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 8.23		Free Product Thickness (ft.): NA		total volume bailed (gals.):									
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):											
Purging Data															
Initial		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.		5 <sup>th</sup> Vol.		Post		Sampling	
Volume Purged (gallons)		0.25												1308	
Time (military)		1308												615	
PH (s.u.)		6.15												0.078	
Specific Conductivity (µS/cm)		0.078												22.13	
Water Temperature (°C)		22.13												16.9	
Turbidity (NTU)		16.9												2.88	
Dissolved Oxygen (mg/L)		2.88													
Sampling Data															
Sampled By: C. Morris		Sampling Time: 1308		Duplicate: Y or N		If yes, Duplicate Time:									
Notes:										This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.					
Signature: Carolyn Morris															

*CM*

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

<b>Site Information</b>	
Date: <b>03/12/23</b>	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: <b>SUNNY</b>	Ambient Air Temp (°F): <b>70.3</b>


<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
	10.0 NTU: Y or N
	S.C.: (Y) or N

<b>Well Information</b>	
Well ID: MW- <b>28</b>	Well Diameter (inches): <b>2</b>
MW - Private WSW - Public WSW - Other:	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652
Depth to Free Product (DFP) (ft.):	Method of Purging/Sample Collection: (Bailer) <u>        </u> Pump
Length of water column (LWC = TWD - DGW) (ft.):	Total Well Depth (TWD) (ft.): <b>12</b>
	Free Product Thickness (ft.): NA
	total volume bailed (gals.):

<b>Purging Data</b>					
1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	4th Vol.	5th Vol.	Post	Sampling
1st Vol.	2nd Vol.	3rd Vol.			
Initial					
Volume Purged (gallons)	<b>0.25</b>				
Time (military)	<b>1456</b>				<b>1456</b>
PH (s.u.)	<b>5.23</b>				<b>5.23</b>
Specific Conductivity (µS/cm)	<b>205</b>				<b>205</b>
Water Temperature (°C)	<b>21.48</b>				<b>21.48</b>
Turbidity (NTU)	<b>49.7</b>				<b>49.7</b>
Dissolved Oxygen (mg/L)	<b>2.29</b>				<b>2.29</b>

<b>Sampling Data</b>	
Sampled By:	Duplicate: Y or N <input checked="" type="radio"/>
Notes:	If yes, Duplicate Time:
This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.	
Signature: <i>[Signature]</i>	

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/29/03		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray			
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: Clear / Sunny		Ambient Air Temp (°F): 60.9			
Quality Assurance									
Meter Name		Serial #: VU134N3T		Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
Well Information									
Well ID: MW-30		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump			
MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): 2-12		Total Well Depth (TWD) (ft.): 12					
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 0.58		Free Product Thickness (ft.): NA					
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):			
Purging Data									
Volume Purged (gallons)		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.	
Time (military)		Initial						5 <sup>th</sup> Vol.	
PH (s.u.)		1139						Post	
Specific Conductivity (µS/cm)		5.40						1139	
Water Temperature (°C)		19.2						5.46	
Turbidity (NTU)		20.46						19.2	
Dissolved Oxygen (mg/L)		33.0						20.46	
		1.51						33.0	
								1.51	
Sampling Data									
Sampled By: Gray, J.		Sampling Time: 1139		Duplicate: Y or N		If yes, Duplicate Time:			
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: 									

60013

### Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>									
Date: <b>03/12/23</b>		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray			
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:		Ambient Air Temp (°F):			
<b>Quality Assurance</b>									
Meter Name		Serial #: VU134N3T		Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
<b>Well Information</b>									
Well ID: MW- <b>31</b>		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump			
- MW - Private WSW - Public WSW - Other:		Screened Interval (ft.): <b>2-12</b>		to <b>12</b>		Total Well Depth (TWD) (ft.): <b>12</b>			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): <b>7.71</b>		Free Product Thickness (ft.): NA		total volume bailed (gals.):			
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):					
<b>Purging Data</b>									
Initial		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.	
Volume Purged (gallons)		0.25						5 <sup>th</sup> Vol. Post	
Time (military)		1335						1335	
PH (s.u.)		4.78						4.78	
Specific Conductivity (µS/cm)		0.363						0.363	
Water Temperature (°C)		21.17						21.17	
Turbidity (NTU)		102						102	
Dissolved Oxygen (mg/L)		2.12						2.12	
<b>Sampling Data</b>									
Sampled By: <b>C. Morris</b>		Sampling Time: <b>1335</b>		Duplicate: Y or N		If yes, Duplicate Time:			
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: <b>Caitlyn Morris</b>		<b>Damaged</b>							

6000



## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 03/22/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Charleston		Project Manager: Brad Hubbard	
General Weather Conditions: <i>Cloudy</i>		Ambient Air Temp (°F): <i>60's</i>	

Quality Assurance			
Meter Name: Serial #: VU134N3T			
Calibration:			
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: MW-32	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):		Screened Interval (ft.): 3 to 13	
Length of water column (LWC = TWD - DGW) (ft.):		Free Product Thickness (ft.): NA	
1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):	
Total Well Depth (TWD) (ft.): 13		total volume bailed (gals.):	

Purging Data						
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post Sampling
Volume Purged (gallons)						
Time (military)	0.25					
PH (s.u.)	0.937					0.937
Specific Conductivity (µS/cm)	6.12					6.12
Water Temperature (°C)	0.609					0.609
Turbidity (NTU)	21.91					21.91
Dissolved Oxygen (mg/L)	30.0					30.0
	6.48					6.48

Sampling Data			
Sampled By: C. Morris	Sampling Time: 0937	Duplicate: Y or N	If yes, Duplicate Time:
Notes: This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.			
Signature: <i>Candelyn Morris</i> Grab as DGW was in screened interval			

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>			
Date: 03/12/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>cloudy</i>	Ambient Air Temp (°F): <i>60.5</i>

<b>Quality Assurance</b>			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N
		0.0 NTU: (Y) or N	1.0 NTU: Y or N
			10.0 NTU: Y or N

<b>Well Information</b>			
Well ID: MW-33	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): <i>4.61</i>	Screened Interval (ft.): <i>3</i> to <i>13</i>	Total Well Depth (TWD) (ft.): <i>13</i>
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.): <i>4</i>	3 casing volumes (3 x CV) (gals.):	Free Product Thickness (ft.): NA
			total volume bailed (gals.):

Purging Data				
	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.
Volume Purged (gallons)	<i>0.25</i>			
Time (military)	<i>1032</i>			
PH (s.u.)	<i>5.76</i>			
Specific Conductivity (µS/cm)	<i>0.834</i>			
Water Temperature (°C)	<i>21.31</i>			
Turbidity (NTU)	<i>0.0</i>			
Dissolved Oxygen (mg/L)	<i>6.34</i>			
		4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post
				<i>0.25</i>
				<i>1032</i>
				<i>5.76</i>
				<i>0.834</i>
				<i>21.31</i>
				<i>0.0</i>
				<i>6.34</i>

<b>Sampling Data</b>	
Sampled By: <i>C. Morris</i>	Sampling Time: <i>1032</i>
	Duplicate: <input checked="" type="checkbox"/> or <input type="checkbox"/> N
	If yes, Duplicate Time: <i>1035</i>

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: *Caryn Morris* Arab as DGW was in screened interval

Dup-2

### Underground Storage Tank Management Division Field Data Information Sheet - Sampling

Site Information				
Date: 03/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray	Ambient Air Temp (°F): 70's
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: Cloudy		
Quality Assurance				
Meter Name	Serial #: VU134N3T	Calibration:		
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	
Well Information				
Well ID: MW-34	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1"	well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): 3 to 13	Total Well Depth (TWD) (ft.): 13
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):			
Purging Data				
	Initial	1st Vol.	2nd Vol.	3rd Vol.
Volume Purged (gallons)	0.25			
Time (military)	1310			
PH (s.u.)	5.28			
Specific Conductivity (µS/cm)	0.074			
Water Temperature (°C)	20.99			
Turbidity (NTU)	0.0			
Dissolved Oxygen (mg/L)	2.20			
		4th Vol.	5th Vol.	Post
Sampling Data				
Sampled By: C. Morris	Sampling Time: 1310	Duplicate: Y or <input checked="" type="radio"/> N	If yes, Duplicate Time:	
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.				
Signature: Carolyn Morris <i>Carolyn Morris</i>				

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: 03/12/23	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: <i>Cloudy</i>	
Ambient Air Temp (°F): <i>70's</i>	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
	10.0 NTU: Y or N
	S.C.: (Y) or N

<b>Well Information</b>	
Well ID: MW- <i>35</i>	Well Diameter (inches): 2
MW Private WSW	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652
RW Public WSW	Method of Purging/Sample Collection: (Bailer) <u>        </u> Pump
Other:	
Depth to Free Product (DFP) (ft.):	Total Well Depth (TWD) (ft.): <i>13</i>
	Free Product Thickness (ft.): NA
Length of water column (LWC = TWD - DGW) (ft.):	3 casing volumes (3 x CV) (gals.):
	total volume bailed (gals.):

<b>Purging Data</b>					
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.
Time (military)	<i>0:25</i>				
PH (s.u.)	<i>13.15</i>				
Specific Conductivity (µS/cm)	<i>4.99</i>				
Water Temperature (°C)	<i>0.405</i>				
Turbidity (NTU)	<i>20.28</i>				
Dissolved Oxygen (mg/L)	<i>0.0</i>				
	<i>7.59</i>				

<b>Sampling Data</b>	
Sampled By:	Sampling Time: <i>1315</i>
Notes:	Duplicate: Y or <u>N</u>
If yes, Duplicate Time:	

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: *Cathelyn Morrow* *Grab*

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information													
Date: 03/23/23		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray							
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:		Ambient Air Temp (°F):							
Quality Assurance													
Meter Name		Serial #: VU134N3T		Calibration:									
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N					
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N							
Well Information													
Well ID: MW-36		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump							
- MW IW RW Other		Screened Interval (ft.): 3-13		Total Well Depth (TWD) (ft.): 13									
- Private WSW Public WSW		Depth to Groundwater (DGW) (ft.): 2.87		Free Product Thickness (ft.): NA									
Depth to Free Product (DFP) (ft.):		1 casing volume (CV = LWC x X) (gals.): 1.68		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.): 4.5							
Length of water column (LWC = TWD - DGW) (ft.): 10.13		Purging Data											
Initial		1st Vol.		2nd Vol.		3rd Vol.		4th Vol.		5th Vol.		Post	
Volume Purged (gallons)		2.00		2.00									
Time (military)		1037		1037								1037	
PH (s.u.)		5.84		5.73								5.90	
Specific Conductivity (µS/cm)		0.659		0.677								0.643	
Water Temperature (°C)		19.51		19.87								20.06	
Turbidity (NTU)		42.9		44								746	
Dissolved Oxygen (mg/L)		2.17		2.03								2.57	
Sampling Data													
Sampled By: C. Morris		Sampling Time: 1037		Duplicate: Y or N		If yes, Duplicate Time:							
Notes:													
This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.													
Signature: Carolyn Morrow Purged on 2nd vol. + initial													

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

Site Information			
Date: <b>03/12/23</b>	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <b>Cloudy</b>	Ambient Air Temp (°F): <b>70's</b>

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: <b>D MW-1</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1" well = 0.041, 2" well = 0.166, 4" well = 0.652</b>	Method of Purging/Sample Collection: (Bailer) <input type="checkbox"/> Pump <input type="checkbox"/>
MW Type: <b>IW</b>	RW: <input type="checkbox"/>	Other: <input type="checkbox"/>	Screened Interval (ft.): <b>34 to 39</b>
Private WSW: <input type="checkbox"/>	Public WSW: <input type="checkbox"/>		Total Well Depth (TWD) (ft.): <b>39</b>
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): <b>5.0</b>		Free Product Thickness (ft.): <b>NA</b>

Length of water column (LWC = TWD - DGW) (ft.): <b>34</b>	1 casing volume (CV = LWC x X) (gals.): <b>5.04</b>	3 casing volumes (3 x CV) (gals.): <b>16.93</b>	total volume bailed (gals.): <b>7.0</b>
Purging Data			
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.
Volume Purged (gallons)	<b>5.50</b>	<b>1.00</b>	
Time (military)	<b>07:14</b>	<b>12:02</b>	
pH (s.u.)	<b>7.14</b>	<b>7.37</b>	
Specific Conductivity (µS/cm)	<b>0.293</b>	<b>0.333</b>	
Water Temperature (°C)	<b>22.98</b>	<b>24.13</b>	
Turbidity (NTU)	<b>0.0</b>	<b>53.2</b>	
Dissolved Oxygen (mg/L)	<b>1.48</b>	<b>1.81</b>	
Sampling Data			
Sampled By: <b>C. Morris</b>	Sampling Time: <b>1202</b>	Duplicate: <b>Y or N</b>	If yes, Duplicate Time:

Notes: \_\_\_\_\_

This property is a very small quantity generator of hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: **Catalyn Morris**      Purged @ 1st vol. + 1.00 gal

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/12/13		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray			
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions:		Ambient Air Temp (°F):			
Quality Assurance									
Meter Name		Serial #: VU134N3T		Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
Well Information									
Well ID: MW-2		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump			
MW - Private WSW		RW - Public WSW		Other:		Screened Interval (ft.): 34-39		Total Well Depth (TWD) (ft.): 39	
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 4.08		Free Product Thickness (ft.): NA		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.):	
Length of water column (LWC = TWD - DGW) (ft.): 34.92		1 casing volume (CV = LWC x X) (gals.): 5.79							
Purging Data									
Volume Purged (gallons)		1 <sup>st</sup> Vol.		2 <sup>nd</sup> Vol.		3 <sup>rd</sup> Vol.		4 <sup>th</sup> Vol.	
Time (military)		Initial						5 <sup>th</sup> Vol.	
PH (s.u.)		0.50		7.0				Post	
Specific Conductivity (µS/cm)		1157		1204				1204	
Water Temperature (°C)		6.32		7.53				7.83	
Turbidity (NTU)		0.164		0.355				0.355	
Dissolved Oxygen (mg/L)		22.03		22.07				22.07	
		7.39		7.48				7.48	
		1.68		3.40				3.40	
Sampling Data									
Sampled By: C. Morris		Sampling Time: 1204		Duplicate: Y or N		If yes, Duplicate Time:			
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: Carolyn Morris Purged @ 1st vol. + initial									

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 03/12/23		Site ID #: 01589		Site Name: Circle K #2720886		Field Personnel: C. Morris, J. Gray			
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: Sunny		Ambient Air Temp (°F): 70.5			
Quality Assurance									
Meter Name		Serial #: VU134N3T		Calibration:					
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N	
		0.0 NTU: (Y) or N		1.0 NTU: Y or N		10.0 NTU: Y or N			
Well Information									
Well ID: MW-3		Well Diameter (inches): 2		Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: (Bailer) Pump			
- MW IW RW Other:		Private WSW Public WSW		Screened Interval (ft.): 35-40		Total Well Depth (TWD) (ft.): 40			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 8.37		Free Product Thickness (ft.): NA					
Length of water column (LWC = TWD - DGW) (ft.): 31.63		1 casing volume (CV = LWC x X) (gals.): 5.25		3 casing volumes (3 x CV) (gals.):		total volume bailed (gals.): 7.5			
Purging Data									
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling		
Volume Purged (gallons)	0.50	5.50					1.5		
Time (minutes)	1354	1358					1401		
PH (s.u.)	6.72	7.03					7.12		
Specific Conductivity (µS/cm)	0.362	0.358					0.357		
Water Temperature (°C)	20.48	21.62					21.82		
Turbidity (NTU)	0.0	124					0.0		
Dissolved Oxygen (mg/L)	7.67	2.77					3.02		
Sampling Data									
Sampled By: C. Morris		Sampling Time: 1401		Duplicate: Y or N		If yes, Duplicate Time:			
Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.									
Signature: Carolyn Morris Purged @ 1st vol. + 1.5 gal									



## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: <b>03/ 23</b>	Site ID #: <b>01589</b>
Project Manager: <b>Brad Hubbard</b>	Site Name: <b>Circle K #2720886</b>
County: <b>Charleston</b>	Field Personnel: <b>C. Morris, J. Gray</b>
General Weather Conditions: <b>Cloudy</b>	
Ambient Air Temp (°F): <b>70.5</b>	

<b>Quality Assurance</b>	
Meter Name	Serial #: <b>VU134N3T</b>
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

<b>Well Information</b>		
Well ID: <b>DWM-4</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1"</b> well = 0.041, <b>2"</b> well = 0.166, <b>4"</b> well = 0.652
MW Private WSW	RW Public WSW	Other:
Depth to Free Product (DFP) (ft.):		
Screened Interval (ft.): <b>40 to 45</b>		
Total Well Depth (TWD) (ft.): <b>45</b>		
Method of Purging/Sample Collection: (Bailer) <b>Pump</b>		
Free Product Thickness (ft.): <b>NA</b>		

Length of water column (LWC = TWD - DGW) (ft.): <del>70.5</del> <b>41.32</b>	1 casing volume (CV = LWC x X) (gals.): <b>6.85</b>	3 casing volumes (3 x CV) (gals.): <b>20.5</b>	total volume bailed (gals.): <b>7.5</b>
<b>Purging Data</b>			
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.
Volume Purged (gallons)	<b>7.00</b>		
Time (military)	<b>1436</b>		
PH (s.u.)	<b>6.84</b>		
Specific Conductivity (µS/cm)	<b>0.313</b>		
Water Temperature (°C)	<b>19.15</b>		
Turbidity (NTU)	<b>0.0</b>		
Dissolved Oxygen (mg/L)	<b>3.27</b>		
	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post

<b>Sampling Data</b>	
Sampled By: <b>C. Morris</b>	Duplicate: Y or <b>N</b>
Sampling Time: <b>1436</b>	If yes, Duplicate Time:

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: **Carelyn Morris**

Purged @ 1<sup>st</sup> volume + initial

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>			
Date: <b>3/12/23</b>	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Charleston		Project Manager: Brad Hubbard	General Weather Conditions: <b>Cloudy</b>
Meter Name		Serial #: VU134N3T	Quality Assurance
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		Calibration:	Ambient Air Temp (°F): <b>76.5</b>

<b>Well Information</b>			
Well ID: <b>DMMW-5</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1"</b> well = 0.041, <b>2"</b> well = 0.166, <b>4"</b> well = 0.652	Method of Purging/Sample Collection: (Bailer) <input type="checkbox"/> Pump <input type="checkbox"/>
MW Private WSW	RW Public WSW	Other:	Total Well Depth (TWD) (ft.): <b>43</b>
Depth to Free Product (DFP) (ft.):			Free Product Thickness (ft.): <b>NA</b>

Length of water column (LWC = TWD - DGW) (ft.): <b>34.5</b>	1 casing volume (CV = LWC x X) (gals.): <b>5.72</b>	3 casing volumes (3 x CV) (gals.): <b>17.18</b>	total volume bailed (gals.): <b>12.5</b>
<b>Purging Data</b>			
Volume Purged (gallons)	1st Vol.	2nd Vol.	3rd Vol.
Time (military)	6:00	6:00	
PH (s.u.)	7.14	7.39	7.46
Specific Conductivity (µS/cm)	0.293	0.302	0.305
Water Temperature (°C)	20.15	21.19	21.40
Turbidity (NTU)	0.0	3.18	3.00
Dissolved Oxygen (mg/L)	4.85	2.15	2.66

<b>Sampling Data</b>			
Sampled By: <b>C. Morris</b>	Sampling Time: <b>1340</b>	Duplicate: Y or N <input checked="" type="checkbox"/>	If yes, Duplicate Time:
Notes: <b>This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.</b>			

Purged @ 2nd vol. + initial

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information										
Date: 03/12/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray							
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>Cloudy</i>	Ambient Air Temp (°F): <i>60's</i>							
Quality Assurance										
Meter Name	Serial #: VU134N3T	Calibration:								
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	S.C.: (Y) or N			10.0 NTU: Y or N			
	0.0 NTU: (Y) or N	1.0 NTU: Y or N								
Well Information										
Well ID: <i>AW-2</i>	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump							
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): <i>2 to 12</i>							
Depth to Free Product (DFP) (ft.):			Depth to Groundwater (DGW) (ft.): <i>3.74</i>			Free Product Thickness (ft.): NA				
Length of water column (LWC = TWD - DGW) (ft.):			1 casing volume (CV = LWC x X) (gals.):			3 casing volumes (3 x CV) (gals.):				
			1 casing volume (CV = LWC x X) (gals.):			total volume bailed (gals.):				
Purging Data										
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling			
Volume Purged (gallons)	<i>0.25</i>									
Time (military)	<i>0956</i>						<i>0956</i>			
PH (s.u.)	<i>4.27</i>						<i>4.27</i>			
Specific Conductivity (µS/cm)	<i>0.300</i>						<i>0.300</i>			
Water Temperature (°C)	<i>21.11</i>						<i>21.11</i>			
Turbidity (NTU)	<i>39.4</i>						<i>39.4</i>			
Dissolved Oxygen (mg/L)	<i>1.20</i>						<i>1.20</i>			
Sampling Data										
Sampled By: <i>C. Morris</i>	Sampling Time: <i>0956</i>	Duplicate: Y or <u>N</u>					If yes, Duplicate Time:			
Notes:										
This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.										
Signature: <i>Carolya Norwood</i> <i>Grab as DGW was in screened interval</i>										

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>	
Date: <b>03/12/23</b>	Site ID #: 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
General Weather Conditions: <b>Muddy</b>	
Ambient Air Temp (°F): <b>60.5</b>	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU134N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
	10.0 NTU: Y or N
	S.C.: (Y) or N

<b>Well Information</b>		
Well ID: <b>RW-3</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1"</b> well = 0.041, <b>2"</b> well = 0.166, <b>4"</b> well = 0.652
MW Private WSW	RW Public WSW	Other:
Depth to Free Product (DFP) (ft.):		
Screened Interval (ft.): <b>2</b> to <b>12</b>		
Total Well Depth (TWD) (ft.): <b>12</b>		
Free Product Thickness (ft.): <b>NA</b>		
Method of Purging/Sample Collection: (Bailer) Pump		

Length of water column (LWC = TWD – DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):
	<b>4.33</b>		
<b>Purging Data</b>			
Volume Purged (gallons)	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.
Time (military)			
PH (s.u.)			
Specific Conductivity (µS/cm)			
Water Temperature (°C)			
Turbidity (NTU)			
Dissolved Oxygen (mg/L)			

Sampled By: <b>C. Morris</b>	Sampling Time: <b>0951</b>	Duplicate: Y or <b>N</b>
------------------------------	----------------------------	--------------------------

Notes: \_\_\_\_\_

Signature: **Caitlyn Morau**

Crab as DGW was in screened interval

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

**Underground Storage Tank Management Division Field Data Information Sheet – Sampling**

<b>Site Information</b>	
Date: <b>03/23</b>	Site ID #: 01589
Project Manager: Brad Hubbard	Site Name: Circle K #2720886
County: Charleston	Field Personnel: C. Morris, J. Gray
General Weather Conditions: <b>Cloudy</b>	
Ambient Air Temp (°F): <b>66.3</b>	

<b>Quality Assurance</b>	
Meter Name	Serial #: VU13-4N3T
Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	
pH 4.0: (Y) or N	pH 7.0: Y or N
pH 10.0: Y or N	S.C.: (Y) or N
0.0 NTU: (Y) or N	1.0 NTU: Y or N
10.0 NTU: Y or N	

<b>Well Information</b>			
Well ID: <b>AW-4</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1"</b> well = 0.041, <b>2"</b> well = 0.166, <b>4"</b> well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW - Private WSW - Public WSW - Other	Screened Interval (ft.): <b>2 to 12</b>	Total Well Depth (TWD) (ft.): <b>12</b>	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): <b>3.77</b>	Free Product Thickness (ft.): <b>NA</b>	
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):

Purging Data							
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling
	<b>0.25</b>						
Volume Purged (gallons)	<b>0.946</b>						<b>0.946</b>
Time (military)	<b>6:15</b>						<b>6:15</b>
PH (s.u.)	<b>0.448</b>						<b>0.448</b>
Specific Conductivity (µS/cm)	<b>21.54</b>						<b>21.54</b>
Water Temperature (°C)	<b>34.9</b>						<b>34.9</b>
Turbidity (NTU)	<b>1.32</b>						<b>1.32</b>
Dissolved Oxygen (mg/L)							

<b>Sampling Data</b>	
Sampled By: <b>C. Morris</b>	Duplicate: Y or <b>(N)</b>
Sampling Time: <b>0946</b>	If yes, Duplicate Time:

Notes: This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

Signature: **Cosdyn Morris**      Grab as DGW was in screened interval

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: <b>03/23</b>	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>Windy</i>	Ambient Air Temp (°F): <b>60.3</b>						
Quality Assurance									
Meter Name	Serial #: VU134N3T	Calibration:							
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N	pH 7.0: Y or N	pH 10.0: Y or N	1.0 NTU: Y or N			10.0 NTU: Y or N		
							S.C.: (Y) or N		
Well Information									
Well ID: <b>AW-7</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1"</b>	1" well = 0.041, 2" well = 0.166, 4" well = 0.652						
MW Private WSW Public WSW Other:	Method of Purging/Sample Collection: (Bailer) _____ Pump _____								
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.):	Total Well Depth (TWD) (ft.):						
		<b>3 to 13</b>	<b>4.49</b>						
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.):	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):						
Purging Data									
Volume Purged (gallons)	Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post	Sampling	
	<b>0.25</b>								
Time (military)	<b>10.22</b>							<b>10.22</b>	
PH (s.u.)	<b>6.23</b>							<b>6.23</b>	
Specific Conductivity (µS/cm)	<b>2.14</b>							<b>2.14</b>	
Water Temperature (°C)	<b>21.94</b>							<b>21.94</b>	
Turbidity (NTU)	<b>7.0</b>							<b>7.0</b>	
Dissolved Oxygen (mg/L)	<b>4.94</b>							<b>4.94</b>	
Sampling Data									
Sampled By: <b>C. Morris</b>	Sampling Time: <b>10.22</b>	Duplicate: Y or <b>N</b>	If yes, Duplicate Time:						
Notes:									
Signature: <i>C. Morris</i>	This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.								

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>			
Date: 03/12/23	Site ID #: 01589	Site Name: Circle K #2720886	Field Personnel: C. Morris, J. Gray
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	Ambient Air Temp (°F): 60's

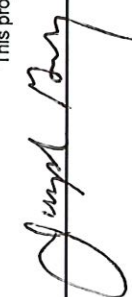
<b>Quality Assurance</b>			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: (Y) or N	pH 7.0: Y or N
		0.0 NTU: (Y) or N	1.0 NTU: Y or N
			10.0 NTU: Y or N

<b>Well Information</b>			
Well ID: RW-8	Well Diameter (inches): 2	Conversion Factor (X gal/foot): 1" well = 0.041, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: (Bailer) Pump
MW Private WSW	Other:	Screened Interval (ft.): 3 to 13	Total Well Depth (TWD) (ft.): 13
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.36	Free Product Thickness (ft.): NA	total volume bailed (gals.): 12.75

	Purging Data				
	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.
Volume Purged (gallons)	7.0				
Time (military)	1036				
PH (s.u.)	5.59				
Specific Conductivity (µS/cm)	0.664				
Water Temperature (°C)	20.0				
Turbidity (NTU)	55.1				
Dissolved Oxygen (mg/L)	1.67				

<b>Sampling Data</b>	
Sampled By:	Duplicate: Y or N
Sampling Time: 1044	If yes, Duplicate Time:

Notes: \_\_\_\_\_

Signature: 

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.

## Underground Storage Tank Management Division Field Data Information Sheet – Sampling

<b>Site Information</b>			
Date: <b>03/23</b>	Site ID #: <b>01589</b>	Site Name: <b>Circle K #2720886</b>	Field Personnel: <b>C. Morris, J. Gray</b>
County: <b>Charleston</b>	Project Manager: <b>Brad Hubbard</b>		Ambient Air Temp (°F): <b>70.5</b>
<b>Quality Assurance</b>			
Meter Name: _____ Serial #: <b>VU134N3T</b>			
Calibration: _____			

Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: (Y) or N _____	pH 7.0: Y or N _____	pH 10.0: Y or N _____	S.C.: (Y) or N _____
	0.0 NTU: (Y) or N _____	1.0 NTU: Y or N _____	10.0 NTU: Y or N _____	

<b>Well Information</b>			
Well ID: <b>MW-12</b>	Well Diameter (inches): <b>2</b>	Conversion Factor (X gal/foot): <b>1" well = 0.041, 2" well = 0.166, 4" well = 0.652</b>	Method of Purging/Sample Collection: _____ (Bailer) _____ Pump
MW _____ RW _____ Other: _____	Screened Interval (ft.): _____ to <b>6</b>		
Private WSW _____ Public WSW _____	Total Well Depth (TWD) (ft.): <b>6</b>		
Depth to Free Product (DFP) (ft.): _____	Free Product Thickness (ft.): <b>NA</b>		
Length of water column (LWC = TWD - DGW) (ft.): _____	3 casing volumes (3 x CV) (gals.): _____ total volume bailed (gals.): _____		

Purging Data						
Initial	1 <sup>st</sup> Vol.	2 <sup>nd</sup> Vol.	3 <sup>rd</sup> Vol.	4 <sup>th</sup> Vol.	5 <sup>th</sup> Vol.	Post
Volume Purged (gallons)	<b>0.25</b>					
Time (military)	<b>1325</b>					
PH (s.u.)	<b>5.40</b>					<b>1325</b>
Specific Conductivity (µS/cm)	<b>0.607</b>					<b>5.40</b>
Water Temperature (°C)	<b>21.30</b>					<b>0.607</b>
Turbidity (NTU)	<b>32.4</b>					<b>21.30</b>
Dissolved Oxygen (mg/L)	<b>3.14</b>					<b>32.4</b>
						<b>3.14</b>

<b>Sampling Data</b>	
Sampled By: <b>C. Morris</b>	Duplicate: Y or <b>N</b>
Sampling Time: <b>1325</b>	If yes, Duplicate Time: _____

Notes: \_\_\_\_\_

Signature: **Carelyn Morris** **Grab**

This property is a very small quantity generator or hazardous waste which includes D001 ignitable waste and D002 corrosive waste.



## **APPENDIX C**

### **LABORATORY ANALYTICAL RESULTS**

April 07, 2023

Brad Hubbard  
ATC Group Services  
6904 North Main Street  
Suite 107  
Columbia, SC 29203

RE: Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor M Cannon  
taylor.cannon@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DoH Drinking Water #: LA029  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92660108001	01589 MW-1	Water	03/28/23 10:15	03/31/23 11:08
92660108002	01589 MW-2	Water	03/28/23 10:38	03/31/23 11:08
92660108003	01589 MW-3	Water	03/28/23 10:27	03/31/23 11:08
92660108004	01589 MW-4	Water	03/28/23 09:28	03/31/23 11:08
92660108005	01589 MW-5	Water	03/28/23 09:23	03/31/23 11:08
92660108006	01589 MW-7	Water	03/29/23 09:39	03/31/23 11:08
92660108007	01589 MW-8	Water	03/29/23 09:10	03/31/23 11:08
92660108008	01589 MW-9	Water	03/29/23 08:51	03/31/23 11:08
92660108009	01589 MW-10	Water	03/29/23 08:23	03/31/23 11:08
92660108010	01589 MW-11	Water	03/29/23 08:15	03/31/23 11:08
92660108011	01589 MW-12	Water	03/28/23 10:52	03/31/23 11:08
92660108012	01589 MW-13	Water	03/28/23 10:48	03/31/23 11:08
92660108013	01589 MW-14	Water	03/28/23 11:15	03/31/23 11:08
92660108014	01589 MW-15	Water	03/28/23 11:20	03/31/23 11:08
92660108015	01589 MW-16	Water	03/28/23 14:18	03/31/23 11:08
92660108016	01589 MW-17	Water	03/28/23 14:10	03/31/23 11:08
92660108017	01589 MW-18	Water	03/28/23 14:05	03/31/23 11:08
92660108018	01589 MW-19	Water	03/28/23 13:59	03/31/23 11:08
92660108019	01589 MW-20	Water	03/28/23 13:53	03/31/23 11:08
92660108020	01589 MW-21	Water	03/29/23 11:39	03/31/23 11:08
92660108021	01589 MW-22	Water	03/29/23 11:10	03/31/23 11:08
92660108022	01589 MW-23	Water	03/29/23 12:15	03/31/23 11:08
92660108023	01589 MW-24	Water	03/29/23 13:40	03/31/23 11:08
92660108024	01589 MW-25	Water	03/29/23 15:13	03/31/23 11:08
92660108025	01589 MW-27	Water	03/29/23 13:08	03/31/23 11:08
92660108026	01589 MW-28	Water	03/29/23 14:56	03/31/23 11:08
92660108027	01589 MW-30	Water	03/29/23 11:39	03/31/23 11:08
92660108028	01589 MW-31	Water	03/29/23 13:35	03/31/23 11:08
92660108029	01589 MW-32	Water	03/28/23 09:37	03/31/23 11:08
92660108030	01589 MW-33	Water	03/28/23 10:32	03/31/23 11:08
92660108031	01589 MW-34	Water	03/28/23 13:10	03/31/23 11:08
92660108032	01589 MW-35	Water	03/28/23 13:15	03/31/23 11:08
92660108033	01589 MW-36	Water	03/29/23 10:37	03/31/23 11:08
92660108034	01589 DMW-1	Water	03/29/23 12:02	03/31/23 11:08
92660108035	01589 DMW-2	Water	03/28/23 12:04	03/31/23 11:08
92660108036	01589 DMW-3	Water	03/29/23 14:01	03/31/23 11:08
92660108037	01589 DMW-4	Water	03/28/23 14:36	03/31/23 11:08

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## SAMPLE SUMMARY

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92660108038	01589 DMW-5	Water	03/28/23 13:40	03/31/23 11:08
92660108039	01589 RW-2	Water	03/28/23 09:56	03/31/23 11:08
92660108040	01589 RW-3	Water	03/28/23 09:51	03/31/23 11:08
92660108041	01589 RW-4	Water	03/28/23 09:46	03/31/23 11:08
92660108042	01589 RW-7	Water	03/28/23 10:22	03/31/23 11:08
92660108043	01589 RW-8	Water	03/29/23 10:44	03/31/23 11:08
92660108044	01589 RW-12	Water	03/29/23 13:25	03/31/23 11:08
92660108045	01589 DUP-1	Water	03/28/23 10:41	03/31/23 11:08
92660108046	01589 DUP-2	Water	03/28/23 10:35	03/31/23 11:08
92660108047	01589 FB-1	Water	03/28/23 09:16	03/31/23 11:08
92660108048	01589 FB-2	Water	03/29/23 08:33	03/31/23 11:08
92660108049	01589 SW-1	Water	03/29/23 09:02	03/31/23 11:08
92660108050	01589 SW-2	Water	03/29/23 09:05	03/31/23 11:08
92660108051	01589 SW-3	Water	03/29/23 15:06	03/31/23 11:08
92660108052	01589 SW-4	Water	03/29/23 11:59	03/31/23 11:08
92660108053	01589 SW-5	Water	03/29/23 15:27	03/31/23 11:08
92660108054	01589 SW-6	Water	03/29/23 12:00	03/31/23 11:08
92660108055	01589 SW-7	Water	03/29/23 12:45	03/31/23 11:08
92660108056	01589 SW-8	Water	03/29/23 12:55	03/31/23 11:08
92660108057	01589 SW-9	Water	03/29/23 00:00	03/31/23 11:08
92660108058	01589 TRIP BLANK	Water	03/29/23 00:00	03/31/23 11:08

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### SAMPLE ANALYTE COUNT

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92660108001	01589 MW-1	EPA 8260D	CL	18	PASI-C
92660108002	01589 MW-2	EPA 8260D	CL	18	PASI-C
92660108003	01589 MW-3	EPA 8260D	CL	18	PASI-C
92660108004	01589 MW-4	EPA 8260D	CL	18	PASI-C
92660108005	01589 MW-5	EPA 8260D	SAS	18	PASI-C
92660108006	01589 MW-7	EPA 8260D	CL	18	PASI-C
92660108007	01589 MW-8	EPA 8260D	LMB	18	PASI-C
92660108008	01589 MW-9	EPA 8260D	CL	18	PASI-C
92660108009	01589 MW-10	EPA 8260D	CL	18	PASI-C
92660108010	01589 MW-11	EPA 8260D	CL	18	PASI-C
92660108011	01589 MW-12	EPA 8260D	CL	18	PASI-C
92660108012	01589 MW-13	EPA 8260D	SAS	18	PASI-C
92660108013	01589 MW-14	EPA 8260D	CL	18	PASI-C
92660108014	01589 MW-15	EPA 8260D	SAS	18	PASI-C
92660108015	01589 MW-16	EPA 8260D	SAS	18	PASI-C
92660108016	01589 MW-17	EPA 8260D	SAS	18	PASI-C
92660108017	01589 MW-18	EPA 8260D	JJK	18	PASI-C
92660108018	01589 MW-19	EPA 8260D	SAS	18	PASI-C
92660108019	01589 MW-20	EPA 8260D	SAS	18	PASI-C
92660108020	01589 MW-21	EPA 8260D	TMH	18	PASI-C
92660108021	01589 MW-22	EPA 8260D	CL	18	PASI-C
92660108022	01589 MW-23	EPA 8260D	CL	18	PASI-C
92660108023	01589 MW-24	EPA 8260D	CL	18	PASI-C
92660108024	01589 MW-25	EPA 8260D	TMH	18	PASI-C
92660108025	01589 MW-27	EPA 8260D	CL	18	PASI-C
92660108026	01589 MW-28	EPA 8260D	CL	18	PASI-C
92660108027	01589 MW-30	EPA 8260D	TMH	18	PASI-C
92660108028	01589 MW-31	EPA 8260D	TMH	18	PASI-C
92660108029	01589 MW-32	EPA 8260D	CL	18	PASI-C
92660108030	01589 MW-33	EPA 8260D	TMH	18	PASI-C
92660108031	01589 MW-34	EPA 8260D	JJK	18	PASI-C
92660108032	01589 MW-35	EPA 8260D	TMH	18	PASI-C
92660108033	01589 MW-36	EPA 8260D	TMH	18	PASI-C
92660108034	01589 DMW-1	EPA 8260D	TMH	18	PASI-C
92660108035	01589 DMW-2	EPA 8260D	JJK	18	PASI-C
92660108036	01589 DMW-3	EPA 8260D	SAS	18	PASI-C
92660108037	01589 DMW-4	EPA 8260D	SAS	18	PASI-C

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### SAMPLE ANALYTE COUNT

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92660108038	01589 DMW-5	EPA 8260D	SAS	18	PASI-C
92660108039	01589 RW-2	EPA 8260D	TMH	18	PASI-C
92660108040	01589 RW-3	EPA 8260D	TMH	18	PASI-C
92660108041	01589 RW-4	EPA 8260D	TMH	18	PASI-C
92660108042	01589 RW-7	EPA 8260D	TMH	18	PASI-C
92660108043	01589 RW-8	EPA 8260D	TMH	18	PASI-C
92660108044	01589 RW-12	EPA 8260D	TMH	18	PASI-C
92660108045	01589 DUP-1	EPA 8260D	CL	18	PASI-C
92660108046	01589 DUP-2	EPA 8260D	CL	18	PASI-C
92660108047	01589 FB-1	EPA 8260D	CL	18	PASI-C
92660108048	01589 FB-2	EPA 8260D	CL	18	PASI-C
92660108049	01589 SW-1	EPA 8260D	TMH	18	PASI-C
92660108050	01589 SW-2	EPA 8260D	SAS	18	PASI-C
92660108051	01589 SW-3	EPA 8260D	SAS	18	PASI-C
92660108052	01589 SW-4	EPA 8260D	SAS	18	PASI-C
92660108053	01589 SW-5	EPA 8260D	CL	18	PASI-C
92660108054	01589 SW-6	EPA 8260D	CL	18	PASI-C
92660108055	01589 SW-7	EPA 8260D	SAS	18	PASI-C
92660108056	01589 SW-8	EPA 8260D	CL	18	PASI-C
92660108057	01589 SW-9	EPA 8260D	CL	18	PASI-C
92660108058	01589 TRIP BLANK	EPA 8260D	SAS	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-1**      **Lab ID: 92660108001**      Collected: 03/28/23 10:15      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>7650J</b>	ug/L	10000	3640	100		04/05/23 16:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	266	100		04/05/23 16:18	994-05-8	
Benzene	<b>5720</b>	ug/L	100	34.5	100		04/05/23 16:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5190	100		04/05/23 16:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	2680	100		04/05/23 16:18	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2940	100		04/05/23 16:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	32.2	100		04/05/23 16:18	107-06-2	
Diisopropyl ether	ND	ug/L	100	30.8	100		04/05/23 16:18	108-20-3	
Ethanol	ND	ug/L	20000	7220	100		04/05/23 16:18	64-17-5	
Ethylbenzene	<b>799</b>	ug/L	100	30.4	100		04/05/23 16:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	324	100		04/05/23 16:18	637-92-3	
Methyl-tert-butyl ether	<b>301</b>	ug/L	100	42.2	100		04/05/23 16:18	1634-04-4	
Naphthalene	<b>77.1J</b>	ug/L	100	64.5	100		04/05/23 16:18	91-20-3	
Toluene	<b>10800</b>	ug/L	100	48.5	100		04/05/23 16:18	108-88-3	
Xylene (Total)	<b>3810</b>	ug/L	100	33.8	100		04/05/23 16:18	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		100		04/05/23 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		100		04/05/23 16:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		100		04/05/23 16:18	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-2**      **Lab ID: 92660108002**      Collected: 03/28/23 10:38      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>4020</b>	ug/L	1250	455	12.5		04/06/23 20:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	33.2	12.5		04/06/23 20:09	994-05-8	
Benzene	<b>1310</b>	ug/L	12.5	4.3	12.5		04/06/23 20:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	649	12.5		04/06/23 20:09	624-95-3	
tert-Butyl Alcohol	<b>759J</b>	ug/L	1250	335	12.5		04/06/23 20:09	75-65-0	
tert-Butyl Formate	ND	ug/L	625	368	12.5		04/06/23 20:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.0	12.5		04/06/23 20:09	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	3.8	12.5		04/06/23 20:09	108-20-3	
Ethanol	ND	ug/L	2500	902	12.5		04/06/23 20:09	64-17-5	
Ethylbenzene	<b>246</b>	ug/L	12.5	3.8	12.5		04/06/23 20:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	40.5	12.5		04/06/23 20:09	637-92-3	
Methyl-tert-butyl ether	<b>105</b>	ug/L	12.5	5.3	12.5		04/06/23 20:09	1634-04-4	
Naphthalene	<b>36.4</b>	ug/L	12.5	8.1	12.5		04/06/23 20:09	91-20-3	
Toluene	<b>1980</b>	ug/L	12.5	6.1	12.5		04/06/23 20:09	108-88-3	
Xylene (Total)	<b>976</b>	ug/L	12.5	4.2	12.5		04/06/23 20:09	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		12.5		04/06/23 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		12.5		04/06/23 20:09	17060-07-0	
Toluene-d8 (S)	99	%	70-130		12.5		04/06/23 20:09	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-3**      **Lab ID: 92660108003**      Collected: 03/28/23 10:27      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	219	ug/L	100	36.4	1		04/07/23 04:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 04:18	994-05-8	
Benzene	36.0	ug/L	1.0	0.34	1		04/07/23 04:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 04:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 04:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 04:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 04:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 04:18	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 04:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 04:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 04:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 04:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 04:18	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 04:18	108-88-3	
Xylene (Total)	0.68J	ug/L	1.0	0.34	1		04/07/23 04:18	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/07/23 04:18	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/07/23 04:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/07/23 04:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-4**      **Lab ID: 92660108004**      Collected: 03/28/23 09:28      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 04:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 04:36	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 04:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 04:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 04:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 04:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 04:36	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 04:36	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 04:36	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 04:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 04:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 04:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 04:36	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 04:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 04:36	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/07/23 04:36	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		04/07/23 04:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/07/23 04:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-5**      **Lab ID: 92660108005**      Collected: 03/28/23 09:23      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 14:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 14:56	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 14:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 14:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 14:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 14:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 14:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 14:56	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 14:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 14:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 14:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 14:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 14:56	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 14:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 14:56	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/05/23 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/05/23 14:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/05/23 14:56	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-7**      **Lab ID: 92660108006**      Collected: 03/29/23 09:39      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>2010</b>	ug/L	1000	364	10		04/06/23 19:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	26.6	10		04/06/23 19:51	994-05-8	
Benzene	<b>1470</b>	ug/L	10.0	3.4	10		04/06/23 19:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	519	10		04/06/23 19:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	268	10		04/06/23 19:51	75-65-0	
tert-Butyl Formate	ND	ug/L	500	294	10		04/06/23 19:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.2	10		04/06/23 19:51	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.1	10		04/06/23 19:51	108-20-3	
Ethanol	ND	ug/L	2000	722	10		04/06/23 19:51	64-17-5	
Ethylbenzene	<b>261</b>	ug/L	10.0	3.0	10		04/06/23 19:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	32.4	10		04/06/23 19:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.2	10		04/06/23 19:51	1634-04-4	
Naphthalene	<b>66.8</b>	ug/L	10.0	6.4	10		04/06/23 19:51	91-20-3	
Toluene	<b>182</b>	ug/L	10.0	4.8	10		04/06/23 19:51	108-88-3	
Xylene (Total)	<b>574</b>	ug/L	10.0	3.4	10		04/06/23 19:51	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		10		04/06/23 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		10		04/06/23 19:51	17060-07-0	
Toluene-d8 (S)	98	%	70-130		10		04/06/23 19:51	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-8**      **Lab ID: 92660108007**      Collected: 03/29/23 09:10      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 13:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 13:30	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 13:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 13:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 13:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 13:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 13:30	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 13:30	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 13:30	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 13:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 13:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 13:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 13:30	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 13:30	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 13:30	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/06/23 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		04/06/23 13:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/06/23 13:30	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-9**      **Lab ID: 92660108008**      Collected: 03/29/23 08:51      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 04:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 04:55	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 04:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 04:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 04:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 04:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 04:55	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 04:55	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 04:55	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 04:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 04:55	637-92-3	
Methyl-tert-butyl ether	1.1	ug/L	1.0	0.42	1		04/07/23 04:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 04:55	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 04:55	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 04:55	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/07/23 04:55	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		04/07/23 04:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/07/23 04:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-10**      **Lab ID: 92660108009**      Collected: 03/29/23 08:23      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 05:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 05:13	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 05:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 05:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 05:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 05:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 05:13	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 05:13	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 05:13	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 05:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 05:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 05:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 05:13	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 05:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 05:13	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/07/23 05:13	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		04/07/23 05:13	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/07/23 05:13	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-11**      **Lab ID: 92660108010**      Collected: 03/29/23 08:15      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 05:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 05:31	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 05:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 05:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 05:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 05:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 05:31	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 05:31	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 05:31	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 05:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 05:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 05:31	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 05:31	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 05:31	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 05:31	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/07/23 05:31	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/07/23 05:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/07/23 05:31	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-12**      **Lab ID: 92660108011**      Collected: 03/28/23 10:52      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	2000	728	20		04/06/23 20:27	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	53.2	20		04/06/23 20:27	994-05-8	
Benzene	<b>2490</b>	ug/L	20.0	6.9	20		04/06/23 20:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1040	20		04/06/23 20:27	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	536	20		04/06/23 20:27	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	588	20		04/06/23 20:27	762-75-4	
1,2-Dichloroethane	ND	ug/L	20.0	6.4	20		04/06/23 20:27	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	6.2	20		04/06/23 20:27	108-20-3	
Ethanol	ND	ug/L	4000	1440	20		04/06/23 20:27	64-17-5	
Ethylbenzene	<b>85.8</b>	ug/L	20.0	6.1	20		04/06/23 20:27	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	64.8	20		04/06/23 20:27	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	8.4	20		04/06/23 20:27	1634-04-4	
Naphthalene	ND	ug/L	20.0	12.9	20		04/06/23 20:27	91-20-3	
Toluene	<b>16.7J</b>	ug/L	20.0	9.7	20		04/06/23 20:27	108-88-3	
Xylene (Total)	<b>22.7</b>	ug/L	20.0	6.8	20		04/06/23 20:27	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		20		04/06/23 20:27	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		20		04/06/23 20:27	17060-07-0	
Toluene-d8 (S)	99	%	70-130		20		04/06/23 20:27	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-13**      **Lab ID: 92660108012**      Collected: 03/28/23 10:48      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	1000	364	10		04/05/23 17:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	26.6	10		04/05/23 17:39	994-05-8	
Benzene	<b>33.3</b>	ug/L	10.0	3.4	10		04/05/23 17:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	519	10		04/05/23 17:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	268	10		04/05/23 17:39	75-65-0	
tert-Butyl Formate	ND	ug/L	500	294	10		04/05/23 17:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.2	10		04/05/23 17:39	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.1	10		04/05/23 17:39	108-20-3	
Ethanol	ND	ug/L	2000	722	10		04/05/23 17:39	64-17-5	
Ethylbenzene	<b>1360</b>	ug/L	10.0	3.0	10		04/05/23 17:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	32.4	10		04/05/23 17:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	4.2	10		04/05/23 17:39	1634-04-4	
Naphthalene	<b>588</b>	ug/L	10.0	6.4	10		04/05/23 17:39	91-20-3	IH
Toluene	<b>31.5</b>	ug/L	10.0	4.8	10		04/05/23 17:39	108-88-3	
Xylene (Total)	<b>4130</b>	ug/L	10.0	3.4	10		04/05/23 17:39	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		10		04/05/23 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		10		04/05/23 17:39	17060-07-0	
Toluene-d8 (S)	101	%	70-130		10		04/05/23 17:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-14**      **Lab ID: 92660108013**      Collected: 03/28/23 11:15      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 18:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 18:02	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 18:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 18:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 18:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 18:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 18:02	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 18:02	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 18:02	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 18:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 18:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 18:02	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 18:02	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 18:02	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 18:02	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/06/23 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		04/06/23 18:02	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/06/23 18:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-15**      **Lab ID: 92660108014**      Collected: 03/28/23 11:20      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>6540</b>	ug/L	5000	1820	50		04/05/23 18:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	133	50		04/05/23 18:16	994-05-8	
Benzene	<b>4090</b>	ug/L	50.0	17.2	50		04/05/23 18:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2600	50		04/05/23 18:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1340	50		04/05/23 18:16	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1470	50		04/05/23 18:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	16.1	50		04/05/23 18:16	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	15.4	50		04/05/23 18:16	108-20-3	
Ethanol	ND	ug/L	10000	3610	50		04/05/23 18:16	64-17-5	
Ethylbenzene	<b>981</b>	ug/L	50.0	15.2	50		04/05/23 18:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	162	50		04/05/23 18:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	21.1	50		04/05/23 18:16	1634-04-4	
Naphthalene	<b>132</b>	ug/L	50.0	32.2	50		04/05/23 18:16	91-20-3	IH
Toluene	<b>7070</b>	ug/L	50.0	24.2	50		04/05/23 18:16	108-88-3	
Xylene (Total)	<b>4370</b>	ug/L	50.0	16.9	50		04/05/23 18:16	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		50		04/05/23 18:16	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		50		04/05/23 18:16	17060-07-0	
Toluene-d8 (S)	97	%	70-130		50		04/05/23 18:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-16**      **Lab ID: 92660108015**      Collected: 03/28/23 14:18      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 15:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 15:14	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 15:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 15:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 15:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 15:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 15:14	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 15:14	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 15:14	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 15:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 15:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 15:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 15:14	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 15:14	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 15:14	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/05/23 15:14	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/05/23 15:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/05/23 15:14	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-17**      **Lab ID: 92660108016**      Collected: 03/28/23 14:10      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 15:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 15:32	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 15:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 15:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 15:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 15:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 15:32	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 15:32	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 15:32	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 15:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 15:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 15:32	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 15:32	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 15:32	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 15:32	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/05/23 15:32	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/05/23 15:32	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/05/23 15:32	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-18**      **Lab ID: 92660108017**      Collected: 03/28/23 14:05      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 18:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 18:04	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 18:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 18:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 18:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 18:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 18:04	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 18:04	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 18:04	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 18:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 18:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 18:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 18:04	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 18:04	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 18:04	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/04/23 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		04/04/23 18:04	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/04/23 18:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-19**      **Lab ID: 92660108018**      Collected: 03/28/23 13:59      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 15:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 15:50	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 15:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 15:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 15:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 15:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 15:50	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 15:50	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 15:50	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 15:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 15:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 15:50	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 15:50	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 15:50	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 15:50	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/05/23 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/05/23 15:50	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/05/23 15:50	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-20**      **Lab ID: 92660108019**      Collected: 03/28/23 13:53      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 16:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 16:08	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 16:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 16:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 16:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 16:08	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 16:08	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 16:08	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 16:08	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 16:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 16:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 16:08	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 16:08	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 16:08	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 16:08	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/05/23 16:08	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		04/05/23 16:08	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/05/23 16:08	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-21**      **Lab ID: 92660108020**      Collected: 03/29/23 11:39      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 01:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 01:35	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 01:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 01:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 01:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 01:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 01:35	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 01:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 01:35	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 01:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 01:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 01:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 01:35	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 01:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 01:35	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	70-130		1		04/05/23 01:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/05/23 01:35	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/05/23 01:35	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-22**      **Lab ID: 92660108021**      Collected: 03/29/23 11:10      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 05:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 05:49	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 05:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 05:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 05:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 05:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 05:49	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 05:49	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 05:49	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 05:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 05:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 05:49	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 05:49	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 05:49	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 05:49	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/07/23 05:49	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/07/23 05:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/07/23 05:49	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-23**      **Lab ID: 92660108022**      Collected: 03/29/23 12:15      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 06:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 06:07	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 06:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 06:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 06:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 06:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 06:07	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 06:07	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 06:07	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 06:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 06:07	637-92-3	
Methyl-tert-butyl ether	1.2	ug/L	1.0	0.42	1		04/07/23 06:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 06:07	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 06:07	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 06:07	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/07/23 06:07	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		04/07/23 06:07	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/07/23 06:07	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-24**      **Lab ID: 92660108023**      Collected: 03/29/23 13:40      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 18:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 18:20	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 18:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 18:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 18:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 18:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 18:20	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 18:20	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 18:20	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 18:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 18:20	637-92-3	
Methyl-tert-butyl ether	1.7	ug/L	1.0	0.42	1		04/06/23 18:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 18:20	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 18:20	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 18:20	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/06/23 18:20	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		1		04/06/23 18:20	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/06/23 18:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-25**      **Lab ID: 92660108024**      Collected: 03/29/23 15:13      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 01:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 01:52	994-05-8	
Benzene	<b>4.6</b>	ug/L	1.0	0.34	1		04/05/23 01:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 01:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 01:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 01:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 01:52	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 01:52	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 01:52	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 01:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 01:52	637-92-3	
Methyl-tert-butyl ether	<b>2.3</b>	ug/L	1.0	0.42	1		04/05/23 01:52	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 01:52	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 01:52	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 01:52	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/05/23 01:52	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/05/23 01:52	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/05/23 01:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-27**      **Lab ID: 92660108025**      Collected: 03/29/23 13:08      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/07/23 06:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/07/23 06:25	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/07/23 06:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/07/23 06:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/07/23 06:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/07/23 06:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/07/23 06:25	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/07/23 06:25	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/07/23 06:25	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/07/23 06:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/07/23 06:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/07/23 06:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/07/23 06:25	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/07/23 06:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/07/23 06:25	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/07/23 06:25	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130		1		04/07/23 06:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/07/23 06:25	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-28**      **Lab ID: 92660108026**      Collected: 03/29/23 14:56      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 18:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 18:38	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 18:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 18:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 18:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 18:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 18:38	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 18:38	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 18:38	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 18:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 18:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 18:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 18:38	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 18:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 18:38	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/06/23 18:38	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		04/06/23 18:38	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/06/23 18:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-30**      **Lab ID: 92660108027**      Collected: 03/29/23 11:39      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 02:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 02:10	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 02:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 02:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 02:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 02:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 02:10	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 02:10	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 02:10	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 02:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 02:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 02:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 02:10	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 02:10	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 02:10	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/05/23 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/05/23 02:10	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		04/05/23 02:10	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-31**      **Lab ID: 92660108028**      Collected: 03/29/23 13:35      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 02:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 02:45	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 02:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 02:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 02:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 02:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 02:45	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 02:45	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 02:45	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 02:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 02:45	637-92-3	
Methyl-tert-butyl ether	<b>0.53J</b>	ug/L	1.0	0.42	1		04/05/23 02:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 02:45	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 02:45	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 02:45	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/05/23 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/05/23 02:45	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/05/23 02:45	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-32**      **Lab ID: 92660108029**      Collected: 03/28/23 09:37      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	572	ug/L	100	36.4	1		04/06/23 19:14	75-85-4	
tert-Amylmethyl ether	4.2J	ug/L	10.0	2.7	1		04/06/23 19:14	994-05-8	
Benzene	131	ug/L	1.0	0.34	1		04/06/23 19:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 19:14	624-95-3	
tert-Butyl Alcohol	119	ug/L	100	26.8	1		04/06/23 19:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 19:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 19:14	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 19:14	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 19:14	64-17-5	
Ethylbenzene	3.6	ug/L	1.0	0.30	1		04/06/23 19:14	100-41-4	
Ethyl-tert-butyl ether	24.5	ug/L	10.0	3.2	1		04/06/23 19:14	637-92-3	
Methyl-tert-butyl ether	8.3	ug/L	1.0	0.42	1		04/06/23 19:14	1634-04-4	
Naphthalene	7.2	ug/L	1.0	0.64	1		04/06/23 19:14	91-20-3	
Toluene	3.0	ug/L	1.0	0.48	1		04/06/23 19:14	108-88-3	
Xylene (Total)	6.4	ug/L	1.0	0.34	1		04/06/23 19:14	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/06/23 19:14	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		04/06/23 19:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/06/23 19:14	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-33**      **Lab ID: 92660108030**      Collected: 03/28/23 10:32      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	20000	7280	200		04/06/23 08:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2000	532	200		04/06/23 08:16	994-05-8	
Benzene	<b>7370</b>	ug/L	200	69.0	200		04/06/23 08:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	20000	10400	200		04/06/23 08:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	20000	5360	200		04/06/23 08:16	75-65-0	
tert-Butyl Formate	ND	ug/L	10000	5880	200		04/06/23 08:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	200	64.4	200		04/06/23 08:16	107-06-2	
Diisopropyl ether	ND	ug/L	200	61.6	200		04/06/23 08:16	108-20-3	
Ethanol	ND	ug/L	40000	14400	200		04/06/23 08:16	64-17-5	
Ethylbenzene	<b>2400</b>	ug/L	200	60.8	200		04/06/23 08:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2000	648	200		04/06/23 08:16	637-92-3	
Methyl-tert-butyl ether	<b>118J</b>	ug/L	200	84.4	200		04/06/23 08:16	1634-04-4	
Naphthalene	<b>394</b>	ug/L	200	129	200		04/06/23 08:16	91-20-3	
Toluene	<b>26200</b>	ug/L	200	97.0	200		04/06/23 08:16	108-88-3	
Xylene (Total)	<b>14100</b>	ug/L	200	67.6	200		04/06/23 08:16	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		200		04/06/23 08:16	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		200		04/06/23 08:16	17060-07-0	
Toluene-d8 (S)	98	%	70-130		200		04/06/23 08:16	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-34**      **Lab ID: 92660108031**      Collected: 03/28/23 13:10      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 18:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 18:22	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 18:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 18:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 18:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 18:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 18:22	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 18:22	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 18:22	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 18:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 18:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 18:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 18:22	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 18:22	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 18:22	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/04/23 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		04/04/23 18:22	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		04/04/23 18:22	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 MW-35**      **Lab ID: 92660108032**      Collected: 03/28/23 13:15      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 03:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 03:20	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 03:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 03:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 03:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 03:20	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 03:20	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 03:20	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 03:20	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 03:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 03:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 03:20	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 03:20	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 03:20	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 03:20	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/05/23 03:20	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/05/23 03:20	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		04/05/23 03:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 MW-36**      **Lab ID: 92660108033**      Collected: 03/29/23 10:37      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1060	ug/L	100	36.4	1		04/05/23 03:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 03:38	994-05-8	
Benzene	10.9	ug/L	1.0	0.34	1		04/05/23 03:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 03:38	624-95-3	
tert-Butyl Alcohol	52.3J	ug/L	100	26.8	1		04/05/23 03:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 03:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 03:38	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 03:38	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 03:38	64-17-5	
Ethylbenzene	0.50J	ug/L	1.0	0.30	1		04/05/23 03:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 03:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 03:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 03:38	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 03:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 03:38	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/05/23 03:38	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/05/23 03:38	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/05/23 03:38	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 DMW-1**      **Lab ID: 92660108034**      Collected: 03/29/23 12:02      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 03:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 03:55	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 03:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 03:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 03:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 03:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 03:55	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 03:55	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 03:55	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 03:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 03:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 03:55	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 03:55	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 03:55	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 03:55	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/05/23 03:55	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		04/05/23 03:55	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		04/05/23 03:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 DMW-2**      **Lab ID: 92660108035**      Collected: 03/28/23 12:04      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 18:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 18:40	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 18:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 18:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 18:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 18:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 18:40	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 18:40	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 18:40	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 18:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 18:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 18:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 18:40	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 18:40	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 18:40	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		04/04/23 18:40	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		04/04/23 18:40	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		04/04/23 18:40	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 DMW-3**      **Lab ID: 92660108036**      Collected: 03/29/23 14:01      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 05:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 05:48	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 05:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 05:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 05:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 05:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 05:48	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 05:48	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 05:48	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 05:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 05:48	637-92-3	
Methyl-tert-butyl ether	<b>5.8</b>	ug/L	1.0	0.42	1		04/06/23 05:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 05:48	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 05:48	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 05:48	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/06/23 05:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/06/23 05:48	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/06/23 05:48	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 DMW-4**      **Lab ID: 92660108037**      Collected: 03/28/23 14:36      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 06:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 06:06	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 06:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 06:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 06:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 06:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 06:06	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 06:06	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 06:06	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 06:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 06:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 06:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 06:06	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 06:06	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 06:06	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/06/23 06:06	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/06/23 06:06	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/06/23 06:06	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 DMW-5**      **Lab ID: 92660108038**      Collected: 03/28/23 13:40      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 06:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 06:25	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 06:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 06:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 06:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 06:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 06:25	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 06:25	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 06:25	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 06:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 06:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 06:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 06:25	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 06:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 06:25	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/06/23 06:25	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/06/23 06:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/06/23 06:25	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 RW-2**      **Lab ID: 92660108039**      Collected: 03/28/23 09:56      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>1020J</b>	ug/L	2500	910	25		04/06/23 06:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	66.5	25		04/06/23 06:49	994-05-8	
Benzene	<b>1470</b>	ug/L	25.0	8.6	25		04/06/23 06:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1300	25		04/06/23 06:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	670	25		04/06/23 06:49	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	735	25		04/06/23 06:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	8.0	25		04/06/23 06:49	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	7.7	25		04/06/23 06:49	108-20-3	
Ethanol	<b>52500</b>	ug/L	5000	1800	25		04/06/23 06:49	64-17-5	
Ethylbenzene	<b>272</b>	ug/L	25.0	7.6	25		04/06/23 06:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	81.0	25		04/06/23 06:49	637-92-3	
Methyl-tert-butyl ether	<b>71.6</b>	ug/L	25.0	10.6	25		04/06/23 06:49	1634-04-4	
Naphthalene	<b>63.5</b>	ug/L	25.0	16.1	25		04/06/23 06:49	91-20-3	
Toluene	<b>3880</b>	ug/L	25.0	12.1	25		04/06/23 06:49	108-88-3	
Xylene (Total)	<b>1260</b>	ug/L	25.0	8.4	25		04/06/23 06:49	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		25		04/06/23 06:49	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		25		04/06/23 06:49	17060-07-0	
Toluene-d8 (S)	98	%	70-130		25		04/06/23 06:49	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 RW-3**      **Lab ID: 92660108040**      Collected: 03/28/23 09:51      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>21500</b>	ug/L	12500	4550	125		04/06/23 07:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	332	125		04/06/23 07:41	994-05-8	
Benzene	<b>8080</b>	ug/L	125	43.1	125		04/06/23 07:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6490	125		04/06/23 07:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	3350	125		04/06/23 07:41	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3680	125		04/06/23 07:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	40.2	125		04/06/23 07:41	107-06-2	
Diisopropyl ether	ND	ug/L	125	38.5	125		04/06/23 07:41	108-20-3	
Ethanol	ND	ug/L	25000	9020	125		04/06/23 07:41	64-17-5	
Ethylbenzene	<b>999</b>	ug/L	125	38.0	125		04/06/23 07:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	405	125		04/06/23 07:41	637-92-3	
Methyl-tert-butyl ether	<b>275</b>	ug/L	125	52.8	125		04/06/23 07:41	1634-04-4	
Naphthalene	<b>353</b>	ug/L	125	80.6	125		04/06/23 07:41	91-20-3	
Toluene	<b>15400</b>	ug/L	125	60.6	125		04/06/23 07:41	108-88-3	
Xylene (Total)	<b>9730</b>	ug/L	125	42.2	125		04/06/23 07:41	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		125		04/06/23 07:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		125		04/06/23 07:41	17060-07-0	
Toluene-d8 (S)	97	%	70-130		125		04/06/23 07:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 RW-4**      **Lab ID: 92660108041**      Collected: 03/28/23 09:46      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>37.6J</b>	ug/L	100	36.4	1		04/06/23 05:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 05:56	994-05-8	
Benzene	<b>9.8</b>	ug/L	1.0	0.34	1		04/06/23 05:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 05:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 05:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 05:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 05:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 05:56	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 05:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 05:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 05:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 05:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 05:56	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 05:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 05:56	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/06/23 05:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/06/23 05:56	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/06/23 05:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 RW-7**      **Lab ID: 92660108042**      Collected: 03/28/23 10:22      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>26100</b>	ug/L	12500	4550	125		04/06/23 07:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1250	332	125		04/06/23 07:59	994-05-8	
Benzene	<b>8830</b>	ug/L	125	43.1	125		04/06/23 07:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6490	125		04/06/23 07:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	12500	3350	125		04/06/23 07:59	75-65-0	
tert-Butyl Formate	ND	ug/L	6250	3680	125		04/06/23 07:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	40.2	125		04/06/23 07:59	107-06-2	
Diisopropyl ether	ND	ug/L	125	38.5	125		04/06/23 07:59	108-20-3	
Ethanol	ND	ug/L	25000	9020	125		04/06/23 07:59	64-17-5	
Ethylbenzene	<b>757</b>	ug/L	125	38.0	125		04/06/23 07:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1250	405	125		04/06/23 07:59	637-92-3	
Methyl-tert-butyl ether	<b>266</b>	ug/L	125	52.8	125		04/06/23 07:59	1634-04-4	
Naphthalene	<b>154</b>	ug/L	125	80.6	125		04/06/23 07:59	91-20-3	
Toluene	<b>13400</b>	ug/L	125	60.6	125		04/06/23 07:59	108-88-3	
Xylene (Total)	<b>6880</b>	ug/L	125	42.2	125		04/06/23 07:59	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	101	%	70-130		125		04/06/23 07:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		125		04/06/23 07:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		125		04/06/23 07:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 RW-8**      **Lab ID: 92660108043**      Collected: 03/29/23 10:44      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>6410</b>	ug/L	1000	364	10		04/06/23 06:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	26.6	10		04/06/23 06:14	994-05-8	
Benzene	<b>894</b>	ug/L	10.0	3.4	10		04/06/23 06:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	519	10		04/06/23 06:14	624-95-3	
tert-Butyl Alcohol	<b>438J</b>	ug/L	1000	268	10		04/06/23 06:14	75-65-0	
tert-Butyl Formate	ND	ug/L	500	294	10		04/06/23 06:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.2	10		04/06/23 06:14	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	3.1	10		04/06/23 06:14	108-20-3	
Ethanol	ND	ug/L	2000	722	10		04/06/23 06:14	64-17-5	
Ethylbenzene	<b>339</b>	ug/L	10.0	3.0	10		04/06/23 06:14	100-41-4	
Ethyl-tert-butyl ether	<b>36.6J</b>	ug/L	100	32.4	10		04/06/23 06:14	637-92-3	
Methyl-tert-butyl ether	<b>62.2</b>	ug/L	10.0	4.2	10		04/06/23 06:14	1634-04-4	
Naphthalene	<b>85.3</b>	ug/L	10.0	6.4	10		04/06/23 06:14	91-20-3	
Toluene	<b>1250</b>	ug/L	10.0	4.8	10		04/06/23 06:14	108-88-3	
Xylene (Total)	<b>2980</b>	ug/L	10.0	3.4	10		04/06/23 06:14	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		10		04/06/23 06:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		10		04/06/23 06:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		10		04/06/23 06:14	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 RW-12**      **Lab ID: 92660108044**      Collected: 03/29/23 13:25      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	10000	3640	100		04/06/23 07:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	266	100		04/06/23 07:24	994-05-8	
Benzene	<b>2190</b>	ug/L	100	34.5	100		04/06/23 07:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5190	100		04/06/23 07:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	2680	100		04/06/23 07:24	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2940	100		04/06/23 07:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	32.2	100		04/06/23 07:24	107-06-2	
Diisopropyl ether	ND	ug/L	100	30.8	100		04/06/23 07:24	108-20-3	
Ethanol	ND	ug/L	20000	7220	100		04/06/23 07:24	64-17-5	
Ethylbenzene	<b>1160</b>	ug/L	100	30.4	100		04/06/23 07:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	324	100		04/06/23 07:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	42.2	100		04/06/23 07:24	1634-04-4	
Naphthalene	<b>277</b>	ug/L	100	64.5	100		04/06/23 07:24	91-20-3	
Toluene	<b>11800</b>	ug/L	100	48.5	100		04/06/23 07:24	108-88-3	
Xylene (Total)	<b>11100</b>	ug/L	100	33.8	100		04/06/23 07:24	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		100		04/06/23 07:24	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		100		04/06/23 07:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		04/06/23 07:24	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 DUP-1**      **Lab ID: 92660108045**      Collected: 03/28/23 10:41      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	<b>3450</b>	ug/L	1250	455	12.5		04/07/23 07:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	33.2	12.5		04/07/23 07:20	994-05-8	
Benzene	<b>1130</b>	ug/L	12.5	4.3	12.5		04/07/23 07:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	649	12.5		04/07/23 07:20	624-95-3	
tert-Butyl Alcohol	<b>683J</b>	ug/L	1250	335	12.5		04/07/23 07:20	75-65-0	
tert-Butyl Formate	ND	ug/L	625	368	12.5		04/07/23 07:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.0	12.5		04/07/23 07:20	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	3.8	12.5		04/07/23 07:20	108-20-3	
Ethanol	ND	ug/L	2500	902	12.5		04/07/23 07:20	64-17-5	
Ethylbenzene	<b>204</b>	ug/L	12.5	3.8	12.5		04/07/23 07:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	40.5	12.5		04/07/23 07:20	637-92-3	
Methyl-tert-butyl ether	<b>90.9</b>	ug/L	12.5	5.3	12.5		04/07/23 07:20	1634-04-4	
Naphthalene	<b>25.3</b>	ug/L	12.5	8.1	12.5		04/07/23 07:20	91-20-3	
Toluene	<b>1660</b>	ug/L	12.5	6.1	12.5		04/07/23 07:20	108-88-3	
Xylene (Total)	<b>806</b>	ug/L	12.5	4.2	12.5		04/07/23 07:20	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		12.5		04/07/23 07:20	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		12.5		04/07/23 07:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130		12.5		04/07/23 07:20	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

Sample: 01589 DUP-2		Lab ID: 92660108046		Collected: 03/28/23 10:35		Received: 03/31/23 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	25000	9100	250		04/07/23 07:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	665	250		04/07/23 07:56	994-05-8	
Benzene	<b>6750</b>	ug/L	250	86.2	250		04/07/23 07:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13000	250		04/07/23 07:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	6700	250		04/07/23 07:56	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	7350	250		04/07/23 07:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	250	80.5	250		04/07/23 07:56	107-06-2	
Diisopropyl ether	ND	ug/L	250	77.0	250		04/07/23 07:56	108-20-3	
Ethanol	ND	ug/L	50000	18000	250		04/07/23 07:56	64-17-5	
Ethylbenzene	<b>2440</b>	ug/L	250	76.0	250		04/07/23 07:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	810	250		04/07/23 07:56	637-92-3	
Methyl-tert-butyl ether	<b>106J</b>	ug/L	250	106	250		04/07/23 07:56	1634-04-4	
Naphthalene	<b>372</b>	ug/L	250	161	250		04/07/23 07:56	91-20-3	
Toluene	<b>24500</b>	ug/L	250	121	250		04/07/23 07:56	108-88-3	
Xylene (Total)	<b>15000</b>	ug/L	250	84.5	250		04/07/23 07:56	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		250		04/07/23 07:56	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		250		04/07/23 07:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		250		04/07/23 07:56	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 FB-1**      **Lab ID: 92660108047**      Collected: 03/28/23 09:16      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 15:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 15:06	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 15:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 15:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 15:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 15:06	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 15:06	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 15:06	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 15:06	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 15:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 15:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 15:06	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 15:06	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 15:06	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 15:06	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/04/23 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/04/23 15:06	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/04/23 15:06	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 FB-2**      **Lab ID: 92660108048**      Collected: 03/29/23 08:33      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 15:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 15:24	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 15:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 15:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 15:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 15:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 15:24	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 15:24	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 15:24	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 15:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 15:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 15:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 15:24	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 15:24	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 15:24	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/04/23 15:24	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/04/23 15:24	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/04/23 15:24	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 SW-1**      **Lab ID: 92660108049**      Collected: 03/29/23 09:02      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 04:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 04:13	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 04:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 04:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 04:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 04:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 04:13	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 04:13	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 04:13	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 04:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 04:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 04:13	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 04:13	91-20-3	
Toluene	<b>0.80J</b>	ug/L	1.0	0.48	1		04/05/23 04:13	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 04:13	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/05/23 04:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/05/23 04:13	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		04/05/23 04:13	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-2**      **Lab ID: 92660108050**      Collected: 03/29/23 09:05      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 06:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 06:11	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 06:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 06:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 06:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 06:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 06:11	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 06:11	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 06:11	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 06:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 06:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 06:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 06:11	91-20-3	
Toluene	1.1	ug/L	1.0	0.48	1		04/06/23 06:11	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 06:11	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		04/06/23 06:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/06/23 06:11	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/06/23 06:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-3**      **Lab ID: 92660108051**      Collected: 03/29/23 15:06      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 06:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 06:29	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 06:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 06:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 06:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 06:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 06:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 06:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 06:29	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 06:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 06:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 06:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 06:29	91-20-3	IH
Toluene	<b>0.72J</b>	ug/L	1.0	0.48	1		04/06/23 06:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 06:29	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/06/23 06:29	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/06/23 06:29	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		04/06/23 06:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-4**      **Lab ID: 92660108052**      Collected: 03/29/23 11:59      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 06:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 06:47	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 06:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 06:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 06:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 06:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 06:47	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 06:47	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 06:47	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 06:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 06:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 06:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 06:47	91-20-3	
Toluene	<b>0.51J</b>	ug/L	1.0	0.48	1		04/06/23 06:47	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 06:47	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/06/23 06:47	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/06/23 06:47	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		04/06/23 06:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-5**      **Lab ID: 92660108053**      Collected: 03/29/23 15:27      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 19:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 19:29	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 19:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 19:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 19:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 19:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 19:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 19:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 19:29	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 19:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 19:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 19:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 19:29	91-20-3	
Toluene	<b>2.3</b>	ug/L	1.0	0.48	1		04/04/23 19:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 19:29	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/04/23 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		04/04/23 19:29	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/04/23 19:29	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

**Sample: 01589 SW-6**      **Lab ID: 92660108054**      Collected: 03/29/23 12:00      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 19:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 19:47	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 19:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 19:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 19:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 19:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 19:47	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 19:47	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 19:47	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 19:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 19:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 19:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 19:47	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 19:47	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 19:47	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/04/23 19:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/04/23 19:47	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		04/04/23 19:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-7**      **Lab ID: 92660108055**      Collected: 03/29/23 12:45      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/06/23 07:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/06/23 07:05	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/06/23 07:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/06/23 07:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/06/23 07:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/06/23 07:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/06/23 07:05	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/06/23 07:05	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/06/23 07:05	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/06/23 07:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/06/23 07:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/06/23 07:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/06/23 07:05	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/06/23 07:05	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/06/23 07:05	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/06/23 07:05	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		04/06/23 07:05	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/06/23 07:05	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-8**      **Lab ID: 92660108056**      Collected: 03/29/23 12:55      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 16:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 16:38	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 16:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 16:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 16:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 16:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 16:38	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 16:38	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 16:38	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 16:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 16:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 16:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 16:38	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 16:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 16:38	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/04/23 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		04/04/23 16:38	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/04/23 16:38	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 SW-9**      **Lab ID: 92660108057**      Collected: 03/29/23 00:00      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 16:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 16:56	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/04/23 16:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 16:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 16:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 16:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/04/23 16:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 16:56	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 16:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/04/23 16:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 16:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/04/23 16:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/04/23 16:56	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		04/04/23 16:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/04/23 16:56	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/04/23 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		04/04/23 16:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/04/23 16:56	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

**Sample: 01589 TRIP BLANK**      **Lab ID: 92660108058**      Collected: 03/29/23 00:00      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 23:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 23:43	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		04/05/23 23:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 23:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 23:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 23:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		04/05/23 23:43	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 23:43	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 23:43	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		04/05/23 23:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 23:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		04/05/23 23:43	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		04/05/23 23:43	91-20-3	IH
Toluene	ND	ug/L	1.0	0.48	1		04/05/23 23:43	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		04/05/23 23:43	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		04/05/23 23:43	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		04/05/23 23:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/05/23 23:43	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765309 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108017, 92660108031, 92660108035

METHOD BLANK: 3973903 Matrix: Water

Associated Lab Samples: 92660108017, 92660108031, 92660108035

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/04/23 14:26	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/04/23 14:26	
Benzene	ug/L	ND	1.0	0.34	04/04/23 14:26	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/04/23 14:26	
Ethanol	ug/L	ND	200	72.2	04/04/23 14:26	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/04/23 14:26	
Ethylbenzene	ug/L	ND	1.0	0.30	04/04/23 14:26	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/04/23 14:26	
Naphthalene	ug/L	ND	1.0	0.64	04/04/23 14:26	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/04/23 14:26	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/04/23 14:26	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/04/23 14:26	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/04/23 14:26	
Toluene	ug/L	ND	1.0	0.48	04/04/23 14:26	
Xylene (Total)	ug/L	ND	1.0	0.34	04/04/23 14:26	
1,2-Dichloroethane-d4 (S)	%	96	70-130		04/04/23 14:26	
4-Bromofluorobenzene (S)	%	96	70-130		04/04/23 14:26	
Toluene-d8 (S)	%	96	70-130		04/04/23 14:26	

LABORATORY CONTROL SAMPLE: 3973904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.1	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	399	100	70-130	
Benzene	ug/L	20	19.3	97	70-130	
Diisopropyl ether	ug/L	20	16.1	80	70-130	
Ethanol	ug/L	800	674	84	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.2	85	70-130	
Ethylbenzene	ug/L	20	19.5	98	70-130	
Methyl-tert-butyl ether	ug/L	20	16.9	85	70-130	
Naphthalene	ug/L	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	400	370	92	70-130	
tert-Amylmethyl ether	ug/L	40	37.7	94	70-130	
tert-Butyl Alcohol	ug/L	200	157	78	70-130	
tert-Butyl Formate	ug/L	160	138	86	70-130	
Toluene	ug/L	20	18.9	94	70-130	
Xylene (Total)	ug/L	60	59.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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**QUALITY CONTROL DATA**

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3973904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 3976019

Parameter	Units	92660108031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.0	95	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	446	112	39-157	
Benzene	ug/L	ND	20	19.7	98	70-151	
Diisopropyl ether	ug/L	ND	20	17.7	89	63-144	
Ethanol	ug/L	ND	800	503	63	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	36.0	90	66-137	
Ethylbenzene	ug/L	ND	20	21.0	105	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	17.7	89	54-156	
Naphthalene	ug/L	ND	20	23.1	116	61-148	IH
tert-Amyl Alcohol	ug/L	ND	400	416	104	54-153	
tert-Amylmethyl ether	ug/L	ND	40	38.2	96	69-139	
tert-Butyl Alcohol	ug/L	ND	200	242	121	43-188	
tert-Butyl Formate	ug/L	ND	160	87.7	55	10-170	
Toluene	ug/L	ND	20	19.4	97	59-148	
Xylene (Total)	ug/L	ND	60	63.1	105	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 3976018

Parameter	Units	92660108017 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	IH
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	92	96			
4-Bromofluorobenzene (S)	%	94	96			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3976018

Parameter	Units	92660108017 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	97	101			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765719      Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D      Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108058

METHOD BLANK: 3975689      Matrix: Water  
Associated Lab Samples: 92660108058

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/05/23 23:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 23:25	
Benzene	ug/L	ND	1.0	0.34	04/05/23 23:25	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 23:25	
Ethanol	ug/L	ND	200	72.2	04/05/23 23:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 23:25	
Ethylbenzene	ug/L	ND	1.0	0.30	04/05/23 23:25	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/05/23 23:25	
Naphthalene	ug/L	ND	1.0	0.64	04/05/23 23:25	IH
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 23:25	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 23:25	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 23:25	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 23:25	
Toluene	ug/L	ND	1.0	0.48	04/05/23 23:25	
Xylene (Total)	ug/L	ND	1.0	0.34	04/05/23 23:25	
1,2-Dichloroethane-d4 (S)	%	95	70-130		04/05/23 23:25	
4-Bromofluorobenzene (S)	%	93	70-130		04/05/23 23:25	
Toluene-d8 (S)	%	100	70-130		04/05/23 23:25	

LABORATORY CONTROL SAMPLE: 3975690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	439	110	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Diisopropyl ether	ug/L	20	18.3	91	70-130	
Ethanol	ug/L	800	791	99	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.0	93	70-130	
Ethylbenzene	ug/L	20	20.5	102	70-130	
Methyl-tert-butyl ether	ug/L	20	18.4	92	70-130	
Naphthalene	ug/L	20	24.2	121	70-130	IH
tert-Amyl Alcohol	ug/L	400	437	109	70-130	
tert-Amylmethyl ether	ug/L	40	40.1	100	70-130	
tert-Butyl Alcohol	ug/L	200	204	102	70-130	
tert-Butyl Formate	ug/L	160	151	94	70-130	
Toluene	ug/L	20	19.9	99	70-130	
Xylene (Total)	ug/L	60	62.9	105	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3975692

Parameter	Units	92660071006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.3	102	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	399	100	39-157	
Benzene	ug/L	ND	20	21.2	106	70-151	
Diisopropyl ether	ug/L	ND	20	18.9	95	63-144	
Ethanol	ug/L	ND	800	772	97	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	37.8	95	66-137	
Ethylbenzene	ug/L	ND	20	21.2	106	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	18.8	94	54-156	
Naphthalene	ug/L	ND	20	21.8	109	61-148	IH
tert-Amyl Alcohol	ug/L	ND	400	392	98	54-153	
tert-Amylmethyl ether	ug/L	ND	40	39.2	98	69-139	
tert-Butyl Alcohol	ug/L	ND	200	209	104	43-188	
tert-Butyl Formate	ug/L	ND	160	117	73	10-170	
Toluene	ug/L	ND	20	20.6	103	59-148	
Xylene (Total)	ug/L	ND	60	65.1	108	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 3975691

Parameter	Units	92659760002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	IH
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	96	95			
4-Bromofluorobenzene (S)	%	92	94			

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**QUALITY CONTROL DATA**

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975691

Parameter	Units	92659760002 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	100	99			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

QC Batch: 765731 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108050, 92660108051, 92660108052, 92660108055

METHOD BLANK: 3975741 Matrix: Water

Associated Lab Samples: 92660108050, 92660108051, 92660108052, 92660108055

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/06/23 01:58	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/06/23 01:58	
Benzene	ug/L	ND	1.0	0.34	04/06/23 01:58	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/06/23 01:58	
Ethanol	ug/L	ND	200	72.2	04/06/23 01:58	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/06/23 01:58	
Ethylbenzene	ug/L	ND	1.0	0.30	04/06/23 01:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/06/23 01:58	
Naphthalene	ug/L	ND	1.0	0.64	04/06/23 01:58	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/06/23 01:58	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/06/23 01:58	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/06/23 01:58	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/06/23 01:58	
Toluene	ug/L	ND	1.0	0.48	04/06/23 01:58	
Xylene (Total)	ug/L	ND	1.0	0.34	04/06/23 01:58	
1,2-Dichloroethane-d4 (S)	%	97	70-130		04/06/23 01:58	
4-Bromofluorobenzene (S)	%	98	70-130		04/06/23 01:58	
Toluene-d8 (S)	%	108	70-130		04/06/23 01:58	

LABORATORY CONTROL SAMPLE: 3975742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	414	103	70-130	
Benzene	ug/L	20	19.6	98	70-130	
Diisopropyl ether	ug/L	20	19.3	96	70-130	
Ethanol	ug/L	800	845	106	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.7	94	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Naphthalene	ug/L	20	21.8	109	70-130	
tert-Amyl Alcohol	ug/L	400	431	108	70-130	
tert-Amylmethyl ether	ug/L	40	39.7	99	70-130	
tert-Butyl Alcohol	ug/L	200	183	92	70-130	
tert-Butyl Formate	ug/L	160	152	95	70-130	
Toluene	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	60.3	100	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 3975744

Parameter	Units	92659893003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.5	108	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	401	100	39-157	
Benzene	ug/L	ND	20	21.3	107	70-151	
Diisopropyl ether	ug/L	ND	20	19.5	98	63-144	
Ethanol	ug/L	ND	800	951	119	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.2	98	66-137	
Ethylbenzene	ug/L	ND	20	22.0	110	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	19.7	98	54-156	
Naphthalene	ug/L	ND	20	20.1	101	61-148	
tert-Amyl Alcohol	ug/L	ND	400	436	109	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.4	104	69-139	
tert-Butyl Alcohol	ug/L	ND	200	216	108	43-188	
tert-Butyl Formate	ug/L	ND	160	128	80	10-170	
Toluene	ug/L	ND	20	21.4	107	59-148	
Xylene (Total)	ug/L	ND	60	67.9	113	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 3975743

Parameter	Units	92660108051 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30 IH	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	0.72J	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	97	97			
4-Bromofluorobenzene (S)	%	94	94			

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975743

Parameter	Units	92660108051 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	109	101			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765735 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108036, 92660108037, 92660108038

METHOD BLANK: 3975788 Matrix: Water

Associated Lab Samples: 92660108036, 92660108037, 92660108038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/05/23 23:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 23:07	
Benzene	ug/L	ND	1.0	0.34	04/05/23 23:07	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 23:07	
Ethanol	ug/L	ND	200	72.2	04/05/23 23:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 23:07	
Ethylbenzene	ug/L	ND	1.0	0.30	04/05/23 23:07	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/05/23 23:07	
Naphthalene	ug/L	ND	1.0	0.64	04/05/23 23:07	IH
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 23:07	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 23:07	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 23:07	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 23:07	
Toluene	ug/L	ND	1.0	0.48	04/05/23 23:07	
Xylene (Total)	ug/L	ND	1.0	0.34	04/05/23 23:07	
1,2-Dichloroethane-d4 (S)	%	94	70-130		04/05/23 23:07	
4-Bromofluorobenzene (S)	%	94	70-130		04/05/23 23:07	
Toluene-d8 (S)	%	101	70-130		04/05/23 23:07	

LABORATORY CONTROL SAMPLE: 3975789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.9	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	406	102	70-130	
Benzene	ug/L	20	18.1	90	70-130	
Diisopropyl ether	ug/L	20	16.5	82	70-130	
Ethanol	ug/L	800	762	95	70-130	
Ethyl-tert-butyl ether	ug/L	40	33.3	83	70-130	
Ethylbenzene	ug/L	20	18.7	93	70-130	
Methyl-tert-butyl ether	ug/L	20	16.6	83	70-130	
Naphthalene	ug/L	20	21.8	109	70-130	IH
tert-Amyl Alcohol	ug/L	400	408	102	70-130	
tert-Amylmethyl ether	ug/L	40	36.3	91	70-130	
tert-Butyl Alcohol	ug/L	200	187	93	70-130	
tert-Butyl Formate	ug/L	160	135	84	70-130	
Toluene	ug/L	20	17.9	90	70-130	
Xylene (Total)	ug/L	60	57.2	95	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3975791

Parameter	Units	92660108037 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.8	104	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	424	106	39-157	
Benzene	ug/L	ND	20	21.7	109	70-151	
Diisopropyl ether	ug/L	ND	20	19.7	99	63-144	
Ethanol	ug/L	ND	800	791	99	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.1	98	66-137	
Ethylbenzene	ug/L	ND	20	21.8	109	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	19.4	97	54-156	
Naphthalene	ug/L	ND	20	21.8	109	61-148	IH
tert-Amyl Alcohol	ug/L	ND	400	413	103	54-153	
tert-Amylmethyl ether	ug/L	ND	40	40.8	102	69-139	
tert-Butyl Alcohol	ug/L	ND	200	227	113	43-188	
tert-Butyl Formate	ug/L	ND	160	112	70	10-170	
Toluene	ug/L	ND	20	21.3	107	59-148	
Xylene (Total)	ug/L	ND	60	65.6	109	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3975790

Parameter	Units	92660108036 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	5.8	5.4	7	30	
Naphthalene	ug/L	ND	ND		30	IH
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	98	95			
4-Bromofluorobenzene (S)	%	94	95			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975790

Parameter	Units	92660108036 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	99	101			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765748 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92660108047, 92660108048, 92660108056, 92660108057

METHOD BLANK: 3975821 Matrix: Water  
Associated Lab Samples: 92660108047, 92660108048, 92660108056, 92660108057

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/04/23 13:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/04/23 13:15	
Benzene	ug/L	ND	1.0	0.34	04/04/23 13:15	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/04/23 13:15	
Ethanol	ug/L	ND	200	72.2	04/04/23 13:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/04/23 13:15	
Ethylbenzene	ug/L	ND	1.0	0.30	04/04/23 13:15	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/04/23 13:15	
Naphthalene	ug/L	ND	1.0	0.64	04/04/23 13:15	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/04/23 13:15	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/04/23 13:15	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/04/23 13:15	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/04/23 13:15	
Toluene	ug/L	ND	1.0	0.48	04/04/23 13:15	
Xylene (Total)	ug/L	ND	1.0	0.34	04/04/23 13:15	
1,2-Dichloroethane-d4 (S)	%	99	70-130		04/04/23 13:15	
4-Bromofluorobenzene (S)	%	100	70-130		04/04/23 13:15	
Toluene-d8 (S)	%	101	70-130		04/04/23 13:15	

LABORATORY CONTROL SAMPLE: 3975822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.1	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	391	98	70-130	
Benzene	ug/L	20	20.7	104	70-130	
Diisopropyl ether	ug/L	20	20.4	102	70-130	
Ethanol	ug/L	800	846	106	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.4	101	70-130	
Ethylbenzene	ug/L	20	20.7	104	70-130	
Methyl-tert-butyl ether	ug/L	20	19.7	98	70-130	
Naphthalene	ug/L	20	21.0	105	70-130	
tert-Amyl Alcohol	ug/L	400	407	102	70-130	
tert-Amylmethyl ether	ug/L	40	41.8	105	70-130	
tert-Butyl Alcohol	ug/L	200	199	99	70-130	
tert-Butyl Formate	ug/L	160	160	100	70-130	
Toluene	ug/L	20	20.8	104	70-130	
Xylene (Total)	ug/L	60	61.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3975824

Parameter	Units	92659760004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	0.68J	20	23.2	113	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	394	99	39-157	
Benzene	ug/L	ND	20	22.1	111	70-151	
Diisopropyl ether	ug/L	ND	20	21.6	108	63-144	
Ethanol	ug/L	ND	800	1110	139	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.5	104	66-137	
Ethylbenzene	ug/L	ND	20	21.8	109	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	20.0	100	54-156	
Naphthalene	ug/L	ND	20	20.4	102	61-148	
tert-Amyl Alcohol	ug/L	ND	400	420	105	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.8	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	308	146	43-188	
tert-Butyl Formate	ug/L	ND	160	41.2J	26	10-170	
Toluene	ug/L	ND	20	21.8	109	59-148	
Xylene (Total)	ug/L	ND	60	63.5	106	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 3975823

Parameter	Units	92660108056 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	101			
4-Bromofluorobenzene (S)	%	100	99			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975823

Parameter	Units	92660108056 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	102	103			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765760 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108053, 92660108054

METHOD BLANK: 3975879 Matrix: Water

Associated Lab Samples: 92660108053, 92660108054

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/04/23 14:21	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/04/23 14:21	
Benzene	ug/L	ND	1.0	0.34	04/04/23 14:21	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/04/23 14:21	
Ethanol	ug/L	ND	200	72.2	04/04/23 14:21	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/04/23 14:21	
Ethylbenzene	ug/L	ND	1.0	0.30	04/04/23 14:21	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/04/23 14:21	
Naphthalene	ug/L	ND	1.0	0.64	04/04/23 14:21	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/04/23 14:21	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/04/23 14:21	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/04/23 14:21	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/04/23 14:21	
Toluene	ug/L	ND	1.0	0.48	04/04/23 14:21	
Xylene (Total)	ug/L	ND	1.0	0.34	04/04/23 14:21	
1,2-Dichloroethane-d4 (S)	%	103	70-130		04/04/23 14:21	
4-Bromofluorobenzene (S)	%	100	70-130		04/04/23 14:21	
Toluene-d8 (S)	%	100	70-130		04/04/23 14:21	

LABORATORY CONTROL SAMPLE: 3975880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.9	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	406	101	70-130	
Benzene	ug/L	20	20.4	102	70-130	
Diisopropyl ether	ug/L	20	19.5	98	70-130	
Ethanol	ug/L	800	864	108	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.6	102	70-130	
Ethylbenzene	ug/L	20	20.8	104	70-130	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Naphthalene	ug/L	20	22.7	113	70-130	
tert-Amyl Alcohol	ug/L	400	410	102	70-130	
tert-Amylmethyl ether	ug/L	40	42.2	105	70-130	
tert-Butyl Alcohol	ug/L	200	196	98	70-130	
tert-Butyl Formate	ug/L	160	167	105	70-130	
Toluene	ug/L	20	20.6	103	70-130	
Xylene (Total)	ug/L	60	62.7	105	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3975882

Parameter	Units	92659782005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	24.6	123	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	433	108	39-157	
Benzene	ug/L	ND	20	23.2	116	70-151	
Diisopropyl ether	ug/L	ND	20	24.1	121	63-144	
Ethanol	ug/L	ND	800	982	123	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	46.2	116	66-137	
Ethylbenzene	ug/L	ND	20	22.9	114	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	22.8	114	54-156	
Naphthalene	ug/L	ND	20	22.4	112	61-148	
tert-Amyl Alcohol	ug/L	ND	400	458	115	54-153	
tert-Amylmethyl ether	ug/L	ND	40	45.9	115	69-139	
tert-Butyl Alcohol	ug/L	ND	200	334	167	43-188	
tert-Butyl Formate	ug/L	ND	160	39.5J	25	10-170	
Toluene	ug/L	ND	20	22.9	114	59-148	
Xylene (Total)	ug/L	ND	60	66.5	111	63-158	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3975881

Parameter	Units	92660108053 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	2.3	2.6	12	30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	100			
4-Bromofluorobenzene (S)	%	99	98			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975881

Parameter	Units	92660108053 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	100	102			

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 765771 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92660108005, 92660108012, 92660108014, 92660108015, 92660108016, 92660108018, 92660108019

METHOD BLANK: 3975927 Matrix: Water  
Associated Lab Samples: 92660108005, 92660108012, 92660108014, 92660108015, 92660108016, 92660108018, 92660108019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/05/23 13:06	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 13:06	
Benzene	ug/L	ND	1.0	0.34	04/05/23 13:06	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 13:06	
Ethanol	ug/L	ND	200	72.2	04/05/23 13:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 13:06	
Ethylbenzene	ug/L	ND	1.0	0.30	04/05/23 13:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/05/23 13:06	
Naphthalene	ug/L	ND	1.0	0.64	04/05/23 13:06	IH
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 13:06	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 13:06	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 13:06	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 13:06	
Toluene	ug/L	ND	1.0	0.48	04/05/23 13:06	
Xylene (Total)	ug/L	ND	1.0	0.34	04/05/23 13:06	
1,2-Dichloroethane-d4 (S)	%	93	70-130		04/05/23 13:06	
4-Bromofluorobenzene (S)	%	94	70-130		04/05/23 13:06	
Toluene-d8 (S)	%	100	70-130		04/05/23 13:06	

LABORATORY CONTROL SAMPLE: 3975928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.3	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	412	103	70-130	
Benzene	ug/L	20	18.3	91	70-130	
Diisopropyl ether	ug/L	20	16.6	83	70-130	
Ethanol	ug/L	800	755	94	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.0	85	70-130	
Ethylbenzene	ug/L	20	19.7	99	70-130	
Methyl-tert-butyl ether	ug/L	20	16.5	82	70-130	
Naphthalene	ug/L	20	21.2	106	70-130	IH
tert-Amyl Alcohol	ug/L	400	418	104	70-130	
tert-Amylmethyl ether	ug/L	40	38.0	95	70-130	
tert-Butyl Alcohol	ug/L	200	192	96	70-130	
tert-Butyl Formate	ug/L	160	140	87	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	60.6	101	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3975930

Parameter	Units	92660108005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.8	109	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	437	109	39-157	
Benzene	ug/L	ND	20	22.7	114	70-151	
Diisopropyl ether	ug/L	ND	20	20.5	103	63-144	
Ethanol	ug/L	ND	800	827	103	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	40.9	102	66-137	
Ethylbenzene	ug/L	ND	20	22.5	113	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	20.4	102	54-156	
Naphthalene	ug/L	ND	20	23.1	116	61-148	IH
tert-Amyl Alcohol	ug/L	ND	400	419	105	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.9	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	216	108	43-188	
tert-Butyl Formate	ug/L	ND	160	138	86	10-170	
Toluene	ug/L	ND	20	21.8	109	59-148	
Xylene (Total)	ug/L	ND	60	68.2	114	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 3975929

Parameter	Units	92660135027 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	0.65J		30	
Naphthalene	ug/L	ND	ND		30	IH
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	95	93			
4-Bromofluorobenzene (S)	%	93	93			

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**QUALITY CONTROL DATA**

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975929

Parameter	Units	92660135027 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	100	101			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch:	765778	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108020, 92660108024, 92660108027, 92660108028, 92660108032, 92660108033, 92660108034, 92660108049

METHOD BLANK: 3975970 Matrix: Water  
Associated Lab Samples: 92660108020, 92660108024, 92660108027, 92660108028, 92660108032, 92660108033, 92660108034, 92660108049

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/05/23 00:59	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 00:59	
Benzene	ug/L	ND	1.0	0.34	04/05/23 00:59	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 00:59	
Ethanol	ug/L	ND	200	72.2	04/05/23 00:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 00:59	
Ethylbenzene	ug/L	ND	1.0	0.30	04/05/23 00:59	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/05/23 00:59	
Naphthalene	ug/L	ND	1.0	0.64	04/05/23 00:59	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 00:59	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 00:59	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 00:59	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 00:59	
Toluene	ug/L	ND	1.0	0.48	04/05/23 00:59	
Xylene (Total)	ug/L	ND	1.0	0.34	04/05/23 00:59	
1,2-Dichloroethane-d4 (S)	%	96	70-130		04/05/23 00:59	
4-Bromofluorobenzene (S)	%	99	70-130		04/05/23 00:59	
Toluene-d8 (S)	%	104	70-130		04/05/23 00:59	

LABORATORY CONTROL SAMPLE: 3975971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.0	85	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	373	93	70-130	
Benzene	ug/L	20	19.4	97	70-130	
Diisopropyl ether	ug/L	20	18.5	93	70-130	
Ethanol	ug/L	800	774	97	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.8	87	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Naphthalene	ug/L	20	19.9	100	70-130	
tert-Amyl Alcohol	ug/L	400	360	90	70-130	
tert-Amylmethyl ether	ug/L	40	36.1	90	70-130	
tert-Butyl Alcohol	ug/L	200	162	81	70-130	
tert-Butyl Formate	ug/L	160	121	76	70-130	
Toluene	ug/L	20	18.4	92	70-130	
Xylene (Total)	ug/L	60	54.8	91	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3975971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE SAMPLE: 3975973

Parameter	Units	92660108032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.6	113	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	373	93	39-157	
Benzene	ug/L	ND	20	22.1	110	70-151	
Diisopropyl ether	ug/L	ND	20	19.5	97	63-144	
Ethanol	ug/L	ND	800	802	100	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.2	98	66-137	
Ethylbenzene	ug/L	ND	20	18.4	92	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	19.0	95	54-156	
Naphthalene	ug/L	ND	20	17.7	89	61-148	
tert-Amyl Alcohol	ug/L	ND	400	395	99	54-153	
tert-Amylmethyl ether	ug/L	ND	40	39.6	99	69-139	
tert-Butyl Alcohol	ug/L	ND	200	257	129	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	0	10-170	P5
Toluene	ug/L	ND	20	20.1	101	59-148	
Xylene (Total)	ug/L	ND	60	55.3	92	63-158	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 3975972

Parameter	Units	92660108024 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	4.6	4.4	4	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	2.3	2.0	15	30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3975972

Parameter	Units	92660108024 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	99	100			
4-Bromofluorobenzene (S)	%	100	101			
Toluene-d8 (S)	%	108	106			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 766098 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108001

METHOD BLANK: 3977650 Matrix: Water  
Associated Lab Samples: 92660108001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/05/23 12:22	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 12:22	
Benzene	ug/L	ND	1.0	0.34	04/05/23 12:22	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 12:22	
Ethanol	ug/L	ND	200	72.2	04/05/23 12:22	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 12:22	
Ethylbenzene	ug/L	ND	1.0	0.30	04/05/23 12:22	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/05/23 12:22	
Naphthalene	ug/L	ND	1.0	0.64	04/05/23 12:22	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 12:22	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 12:22	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 12:22	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 12:22	
Toluene	ug/L	ND	1.0	0.48	04/05/23 12:22	
Xylene (Total)	ug/L	ND	1.0	0.34	04/05/23 12:22	
1,2-Dichloroethane-d4 (S)	%	106	70-130		04/05/23 12:22	
4-Bromofluorobenzene (S)	%	96	70-130		04/05/23 12:22	
Toluene-d8 (S)	%	100	70-130		04/05/23 12:22	

LABORATORY CONTROL SAMPLE: 3977651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.9	90	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	373	93	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Diisopropyl ether	ug/L	20	16.6	83	70-130	
Ethanol	ug/L	800	785	98	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.0	85	70-130	
Ethylbenzene	ug/L	20	18.6	93	70-130	
Methyl-tert-butyl ether	ug/L	20	16.4	82	70-130	
Naphthalene	ug/L	20	20.4	102	70-130	
tert-Amyl Alcohol	ug/L	400	374	93	70-130	
tert-Amylmethyl ether	ug/L	40	36.0	90	70-130	
tert-Butyl Alcohol	ug/L	200	181	90	70-130	
tert-Butyl Formate	ug/L	160	139	87	70-130	
Toluene	ug/L	20	18.3	92	70-130	
Xylene (Total)	ug/L	60	57.5	96	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3977651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3977653

Parameter	Units	92659624021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.6	108	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	343	86	39-157	
Benzene	ug/L	ND	20	20.8	104	70-151	
Diisopropyl ether	ug/L	ND	20	21.9	109	63-144	
Ethanol	ug/L	ND	800	794	99	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.9	105	66-137	
Ethylbenzene	ug/L	0.94J	20	21.3	102	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	19.1	96	54-156	
Naphthalene	ug/L	1.1	20	22.0	104	61-148	
tert-Amyl Alcohol	ug/L	ND	400	381	95	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.9	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	237	118	43-188	
tert-Butyl Formate	ug/L	ND	160	81.6	51	10-170	
Toluene	ug/L	ND	20	20.4	102	59-148	
Xylene (Total)	ug/L	2.1	60	61.8	99	63-158	
1,2-Dichloroethane-d4 (S)	%				106	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 3977652

Parameter	Units	92659624020 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	4.4	5.0	11	30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	9.1	8.5	7	30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	105	109			
4-Bromofluorobenzene (S)	%	98	100			

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3977652

Parameter	Units	92659624020 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	99	103			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 766186 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92660108003, 92660108004, 92660108008, 92660108009, 92660108010, 92660108021, 92660108022, 92660108025, 92660108045, 92660108046

METHOD BLANK: 3978160 Matrix: Water  
Associated Lab Samples: 92660108003, 92660108004, 92660108008, 92660108009, 92660108010, 92660108021, 92660108022, 92660108025, 92660108045, 92660108046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/07/23 01:17	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/07/23 01:17	
Benzene	ug/L	ND	1.0	0.34	04/07/23 01:17	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/07/23 01:17	
Ethanol	ug/L	ND	200	72.2	04/07/23 01:17	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/07/23 01:17	
Ethylbenzene	ug/L	ND	1.0	0.30	04/07/23 01:17	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/07/23 01:17	
Naphthalene	ug/L	ND	1.0	0.64	04/07/23 01:17	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/07/23 01:17	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/07/23 01:17	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/07/23 01:17	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/07/23 01:17	
Toluene	ug/L	ND	1.0	0.48	04/07/23 01:17	
Xylene (Total)	ug/L	ND	1.0	0.34	04/07/23 01:17	
1,2-Dichloroethane-d4 (S)	%	107	70-130		04/07/23 01:17	
4-Bromofluorobenzene (S)	%	97	70-130		04/07/23 01:17	
Toluene-d8 (S)	%	100	70-130		04/07/23 01:17	

LABORATORY CONTROL SAMPLE: 3978161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.3	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	405	101	70-130	
Benzene	ug/L	20	19.1	95	70-130	
Diisopropyl ether	ug/L	20	20.8	104	70-130	
Ethanol	ug/L	800	971	121	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.1	100	70-130	
Ethylbenzene	ug/L	20	19.5	97	70-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	70-130	
Naphthalene	ug/L	20	22.7	114	70-130	
tert-Amyl Alcohol	ug/L	400	417	104	70-130	
tert-Amylmethyl ether	ug/L	40	39.7	99	70-130	
tert-Butyl Alcohol	ug/L	200	212	106	70-130	
tert-Butyl Formate	ug/L	160	164	103	70-130	
Toluene	ug/L	20	19.4	97	70-130	
Xylene (Total)	ug/L	60	59.6	99	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3978161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 3978163

Parameter	Units	92660108003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.2	116	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	496	124	39-157	
Benzene	ug/L	36.0	20	56.8	104	70-151	
Diisopropyl ether	ug/L	ND	20	22.8	114	63-144	
Ethanol	ug/L	ND	800	1070	134	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	44.8	112	66-137	
Ethylbenzene	ug/L	ND	20	23.0	115	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	21.0	105	54-156	
Naphthalene	ug/L	ND	20	25.9	129	61-148	
tert-Amyl Alcohol	ug/L	219	400	703	121	54-153	
tert-Amylmethyl ether	ug/L	ND	40	44.5	111	69-139	
tert-Butyl Alcohol	ug/L	ND	200	284	132	43-188	
tert-Butyl Formate	ug/L	ND	160	148	92	10-170	
Toluene	ug/L	ND	20	22.5	113	59-148	
Xylene (Total)	ug/L	0.68J	60	70.9	117	63-158	
1,2-Dichloroethane-d4 (S)	%				105	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				100	70-130	

SAMPLE DUPLICATE: 3978162

Parameter	Units	92659328003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3978162

Parameter	Units	92659328003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	107	108			
4-Bromofluorobenzene (S)	%	97	97			
Toluene-d8 (S)	%	101	98			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch: 766244 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108030, 92660108039, 92660108040, 92660108041, 92660108042, 92660108043, 92660108044

METHOD BLANK: 3978714 Matrix: Water  
Associated Lab Samples: 92660108030, 92660108039, 92660108040, 92660108041, 92660108042, 92660108043, 92660108044

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/06/23 01:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/06/23 01:50	
Benzene	ug/L	ND	1.0	0.34	04/06/23 01:50	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/06/23 01:50	
Ethanol	ug/L	ND	200	72.2	04/06/23 01:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/06/23 01:50	
Ethylbenzene	ug/L	ND	1.0	0.30	04/06/23 01:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/06/23 01:50	
Naphthalene	ug/L	ND	1.0	0.64	04/06/23 01:50	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/06/23 01:50	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/06/23 01:50	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/06/23 01:50	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/06/23 01:50	
Toluene	ug/L	ND	1.0	0.48	04/06/23 01:50	
Xylene (Total)	ug/L	ND	1.0	0.34	04/06/23 01:50	
1,2-Dichloroethane-d4 (S)	%	100	70-130		04/06/23 01:50	
4-Bromofluorobenzene (S)	%	99	70-130		04/06/23 01:50	
Toluene-d8 (S)	%	104	70-130		04/06/23 01:50	

LABORATORY CONTROL SAMPLE: 3978715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.2	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	356	89	70-130	
Benzene	ug/L	20	17.9	90	70-130	
Diisopropyl ether	ug/L	20	17.1	86	70-130	
Ethanol	ug/L	800	743	93	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.3	86	70-130	
Ethylbenzene	ug/L	20	18.0	90	70-130	
Methyl-tert-butyl ether	ug/L	20	17.4	87	70-130	
Naphthalene	ug/L	20	19.3	97	70-130	
tert-Amyl Alcohol	ug/L	400	372	93	70-130	
tert-Amylmethyl ether	ug/L	40	35.2	88	70-130	
tert-Butyl Alcohol	ug/L	200	177	88	70-130	
tert-Butyl Formate	ug/L	160	148	93	70-130	
Toluene	ug/L	20	17.9	90	70-130	
Xylene (Total)	ug/L	60	53.4	89	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3978715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3978720

Parameter	Units	92659624046 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.2	101	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	384	96	39-157	
Benzene	ug/L	1.1	20	21.2	101	70-151	
Diisopropyl ether	ug/L	0.51J	20	19.6	96	63-144	
Ethanol	ug/L	ND	800	860	108	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	37.7	94	66-137	
Ethylbenzene	ug/L	1.8	20	22.9	105	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	18.2	91	54-156	
Naphthalene	ug/L	ND	20	21.6	107	61-148	
tert-Amyl Alcohol	ug/L	ND	400	431	105	54-153	
tert-Amylmethyl ether	ug/L	ND	40	39.2	98	69-139	
tert-Butyl Alcohol	ug/L	ND	200	209	105	43-188	
tert-Butyl Formate	ug/L	ND	160	100	63	10-170	
Toluene	ug/L	2.4	20	22.8	102	59-148	
Xylene (Total)	ug/L	8.4	60	70.3	103	63-158	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3978719

Parameter	Units	92659624045 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	1.3	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	99			
4-Bromofluorobenzene (S)	%	99	101			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

SAMPLE DUPLICATE: 3978719

Parameter	Units	92659624045 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	107	109			

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

QC Batch:	766451	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92660108002, 92660108006, 92660108007, 92660108011, 92660108013, 92660108023, 92660108026, 92660108029

METHOD BLANK: 3979712 Matrix: Water  
Associated Lab Samples: 92660108002, 92660108006, 92660108007, 92660108011, 92660108013, 92660108023, 92660108026, 92660108029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	04/06/23 12:54	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/06/23 12:54	
Benzene	ug/L	ND	1.0	0.34	04/06/23 12:54	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/06/23 12:54	
Ethanol	ug/L	ND	200	72.2	04/06/23 12:54	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/06/23 12:54	
Ethylbenzene	ug/L	ND	1.0	0.30	04/06/23 12:54	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	04/06/23 12:54	
Naphthalene	ug/L	ND	1.0	0.64	04/06/23 12:54	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/06/23 12:54	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/06/23 12:54	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/06/23 12:54	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/06/23 12:54	
Toluene	ug/L	ND	1.0	0.48	04/06/23 12:54	
Xylene (Total)	ug/L	ND	1.0	0.34	04/06/23 12:54	
1,2-Dichloroethane-d4 (S)	%	111	70-130		04/06/23 12:54	
4-Bromofluorobenzene (S)	%	96	70-130		04/06/23 12:54	
Toluene-d8 (S)	%	100	70-130		04/06/23 12:54	

LABORATORY CONTROL SAMPLE: 3979713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	393	98	70-130	
Benzene	ug/L	20	19.1	95	70-130	
Diisopropyl ether	ug/L	20	20.4	102	70-130	
Ethanol	ug/L	800	941	118	70-130	
Ethyl-tert-butyl ether	ug/L	40	38.7	97	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
Methyl-tert-butyl ether	ug/L	20	17.9	89	70-130	
Naphthalene	ug/L	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	400	401	100	70-130	
tert-Amylmethyl ether	ug/L	40	39.9	100	70-130	
tert-Butyl Alcohol	ug/L	200	202	101	70-130	
tert-Butyl Formate	ug/L	160	161	101	70-130	
Toluene	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	59.4	99	70-130	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

LABORATORY CONTROL SAMPLE: 3979713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 3979715

Parameter	Units	92659624033 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.0	105	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	414	104	39-157	
Benzene	ug/L	0.50J	20	20.4	100	70-151	
Diisopropyl ether	ug/L	ND	20	20.7	103	63-144	
Ethanol	ug/L	ND	800	950	119	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.5	99	66-137	
Ethylbenzene	ug/L	ND	20	20.9	104	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	18.3	92	54-156	
Naphthalene	ug/L	0.76J	20	22.3	108	61-148	
tert-Amyl Alcohol	ug/L	ND	400	417	104	54-153	
tert-Amylmethyl ether	ug/L	ND	40	38.2	96	69-139	
tert-Butyl Alcohol	ug/L	ND	200	274	137	43-188	
tert-Butyl Formate	ug/L	ND	160	38.0J	24	10-170	
Toluene	ug/L	2.7	20	21.8	95	59-148	
Xylene (Total)	ug/L	2.6	60	64.6	103	63-158	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3979714

Parameter	Units	92660108007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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### QUALITY CONTROL DATA

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

SAMPLE DUPLICATE: 3979714

Parameter	Units	92660108007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	113	112			
4-Bromofluorobenzene (S)	%	95	97			
Toluene-d8 (S)	%	101	100			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

## QUALIFIERS

Project: CK 886 RAVENEL SC

Pace Project No.: 92660108

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92660108001	01589 MW-1	EPA 8260D	766098		
92660108002	01589 MW-2	EPA 8260D	766451		
92660108003	01589 MW-3	EPA 8260D	766186		
92660108004	01589 MW-4	EPA 8260D	766186		
92660108005	01589 MW-5	EPA 8260D	765771		
92660108006	01589 MW-7	EPA 8260D	766451		
92660108007	01589 MW-8	EPA 8260D	766451		
92660108008	01589 MW-9	EPA 8260D	766186		
92660108009	01589 MW-10	EPA 8260D	766186		
92660108010	01589 MW-11	EPA 8260D	766186		
92660108011	01589 MW-12	EPA 8260D	766451		
92660108012	01589 MW-13	EPA 8260D	765771		
92660108013	01589 MW-14	EPA 8260D	766451		
92660108014	01589 MW-15	EPA 8260D	765771		
92660108015	01589 MW-16	EPA 8260D	765771		
92660108016	01589 MW-17	EPA 8260D	765771		
92660108017	01589 MW-18	EPA 8260D	765309		
92660108018	01589 MW-19	EPA 8260D	765771		
92660108019	01589 MW-20	EPA 8260D	765771		
92660108020	01589 MW-21	EPA 8260D	765778		
92660108021	01589 MW-22	EPA 8260D	766186		
92660108022	01589 MW-23	EPA 8260D	766186		
92660108023	01589 MW-24	EPA 8260D	766451		
92660108024	01589 MW-25	EPA 8260D	765778		
92660108025	01589 MW-27	EPA 8260D	766186		
92660108026	01589 MW-28	EPA 8260D	766451		
92660108027	01589 MW-30	EPA 8260D	765778		
92660108028	01589 MW-31	EPA 8260D	765778		
92660108029	01589 MW-32	EPA 8260D	766451		
92660108030	01589 MW-33	EPA 8260D	766244		
92660108031	01589 MW-34	EPA 8260D	765309		
92660108032	01589 MW-35	EPA 8260D	765778		
92660108033	01589 MW-36	EPA 8260D	765778		
92660108034	01589 DMW-1	EPA 8260D	765778		
92660108035	01589 DMW-2	EPA 8260D	765309		
92660108036	01589 DMW-3	EPA 8260D	765735		
92660108037	01589 DMW-4	EPA 8260D	765735		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CK 886 RAVENEL SC  
Pace Project No.: 92660108

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92660108038	01589 DMW-5	EPA 8260D	765735		
92660108039	01589 RW-2	EPA 8260D	766244		
92660108040	01589 RW-3	EPA 8260D	766244		
92660108041	01589 RW-4	EPA 8260D	766244		
92660108042	01589 RW-7	EPA 8260D	766244		
92660108043	01589 RW-8	EPA 8260D	766244		
92660108044	01589 RW-12	EPA 8260D	766244		
92660108045	01589 DUP-1	EPA 8260D	766186		
92660108046	01589 DUP-2	EPA 8260D	766186		
92660108047	01589 FB-1	EPA 8260D	765748		
92660108048	01589 FB-2	EPA 8260D	765748		
92660108049	01589 SW-1	EPA 8260D	765778		
92660108050	01589 SW-2	EPA 8260D	765731		
92660108051	01589 SW-3	EPA 8260D	765731		
92660108052	01589 SW-4	EPA 8260D	765731		
92660108053	01589 SW-5	EPA 8260D	765760		
92660108054	01589 SW-6	EPA 8260D	765760		
92660108055	01589 SW-7	EPA 8260D	765731		
92660108056	01589 SW-8	EPA 8260D	765748		
92660108057	01589 SW-9	EPA 8260D	765748		
92660108058	01589 TRIP BLANK	EPA 8260D	765719		

### REPORT OF LABORATORY ANALYSIS

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Effective Date: 05/12/202205/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: A TC Group Services, LLC - Columbia Project #: WO#: 92660108

WO#: 92660108



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 4/20/22 4-2-22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 927070 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.6, 4.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C  Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C) 4.6, 4.1

USDA Regulated Soil (  N/A; water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

Chain of Custody Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	1.	Comments/Discrepancy:
Samples Arrived within Hold Time?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	2.	
Short Hold Time Analysis (<72 hr.)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	3.	
Rush Turn Around Time Requested?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	4.	
Sufficient Volume?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	5.	
Correct Containers Used?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	6.	
-Pace Containers Used?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		
Containers Intact?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	7.	
Dissoived analysis: Samples Field Filtered?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/>	8.	
Sample Labels Match COC?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>W T</u>			
Headspace in VOA Vials (>5-6mm)?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	10.	
Trip Blank Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	11.	
Trip Blank Custody Seals Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>		

COMMENTS/SAMPLE DISCREPANCY: The lab said there would be 2 containers for the trip. Received extra unexpected trip blank. Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION Lot ID of split containers:

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Effective Date: 05/12/2022 05/12/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LTHg.

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #



WO#: 92660108

PM: TMC

Due Date: 04/07/23

CLIENT: 92-ATC\_Colum

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.5-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL 5 distillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Effective Date: 11/14/2022

WO#: 92660108

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

2

PM: TMC

Due Date: 04/07/23

CLIENT: 92-ATC\_Colum

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP3T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92660108

PM: TMC

Due Date: 04/07/23

CLIENT: 92-ATC\_Colum

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scriftillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

Effective Date: 05/12/202205/12/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.  
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, L/Hg

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project

**WO#: 92660108**

PM: TMC

Due Date: 04/07/23

CLIENT: 92-ATC\_Colum



Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFDU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/SK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Effective Date: 05/12/2022 05/12/2022

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LfHg.

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Project #

5

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WG6U-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A) - (lab)	SP2T-250 mL Sterile Plastic (N/A) - (lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).





# CHAIN-OF-CUSTODY / Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

### Section A

**Required Client Information:**  
 Company: ATC Group Services, LLC - Columbia  
 Address: 6904 North Main Street  
 Suite 107, Columbia, SC 29203  
 Email: [brad.hubbard@atcgs.com](mailto:brad.hubbard@atcgs.com)  
 Phone: NONE | Fax: NONE  
 Requested Due Date: NONE

**Required Project Information:**  
 Report To: Brad Hubbard  
 Copy To: NONE  
 Project Name: CK 886 Ravenel SC  
 Project #: NONE

**Invoice Information:**  
 Attention: Taylor Cannon  
 Company Name: Pace Labs  
 Address: NONE  
 Pace Quote: NONE  
 Pace Project Manager: taylor.cannon@pacelabs.com  
 Pace Profile #: 9570-4

**Regulatory Agency:** SC

### Section B

**MATRIX**  
 Drinking Water  
 Waste Water  
 Product  
 Soil/Solid  
 Oil  
 Air  
 Other  
 Tissue

**CODE**  
 DW  
 WW  
 P  
 SL  
 OL  
 WP  
 AR  
 OT  
 TS

**SAMPLE ID**  
 One Character per box.  
 (A-Z, 0-9 / , ' )  
 Sample Ids must be unique

ITEM #	MATRIX	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	VOC by 8260	Trip Blank	Requested Analysis Filtered (Y/N)	Restraint Chlorine (Y/N)	Received On	Temp in C	Custody Sealed (Y/N)	Samples Intact (Y/N)
			START DATE	END TIME												
1	MW 14	G	3/28	1115		3	H2SO4									
2	MW 15	G	3/28	1120			HNO3									
3	MW 16	G	3/28	1418			NaOH									
4	MW 17	G	3/28	1410			Na2SO3									
5	MW 18	G	3/28	1405			HCl									
6	MW 19	G	3/28	1359			Unpreserved									
7	MW 20	G	3/28	1353												
8	MW 21	G	3/29	1139												
9	MW 22	G	3/29	1110												
10	MW 23	G	3/29	1215												
11	MW 24	G	3/29	1340												
12	MW 25	G	3/29	1513												

**ADDITIONAL COMMENTS:**  
 Carolyn Morris / ATC  
 did not Pace

**RELINQUISHED BY / AFFILIATION:**  
 Carolyn Morris / ATC  
 DATE: 3/31/23  
 TIME: 1800

**ACCEPTED BY / AFFILIATION:**  
 Pace  
 DATE: 3-31-23  
 TIME: 1100

**DATE SIGNED:** 3/31/23  
**SIGNATURE OF SAMPLER:** Carolyn Morris  
**PRINT NAME OF SAMPLER:** Carolyn Morris





# CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 1

## Section A

**Required Client Information:**  
 Company: ATC Group Services, LLC - Columbia  
 Address: 6904 North Main Street  
 Suite 107, Columbia, SC 29203  
 Email: brad.hubbard@atcgs.com  
 Phone: NONE | Fax: NONE  
 Requested Due Date:

**Required Project Information:**  
 Report To: Brad Hubbard  
 Copy To:  
 Project Name: CK 886 Ravenel SC  
 Project #:  
 Purchase Order #:  
 Invoice Information:  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: taylor.cannon@pacelabs.com  
 Pace Profile #: 9570-4

**Section B**  
 Regulatory Agency:  
 State / Location: SC

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES			Y/N	VOC by 8260	Trip Blank	Requested Analysis: Filtered (Y/N)	TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)		
			START DATE	END DATE				UNPRESERVED	H2SO4	HNO3											HCl	NaOH
1	MW 27	DW	3/29 1308		G	WT	3	X													025	
2	MW 28	WT	3/29 1456																			026
3	MW 30	WW	3/29 1139																			027
4	MW 31	SL	3/29 1335																			028
5	MW 32	CL	3/28 0937 *																			029
6	MW 33	WP	3/28 1032																			030
7	MW 34	AR	3/28 1310																			031
8	MW 35	OT	3/28 1315																			032
9	MW 36	TS	3/29 1037 *																			033
10	DMW 1		3/29 1202																			034
11	DMW 2		3/28 1204 *																			035
12	DMW 3		3/29 1401																			036

**ADDITIONAL COMMENTS:**  
 Caroleyn Morris / Mias 3/31/23 0900  
 Caroleyn Morris / Pace 3/31/23 1101  
 Caroleyn Morris / Pace 3/29 1820  
 Caroleyn Morris / Pace 3/29 1820

**REQUISITIONED BY / AFFILIATION:**  
 Caroleyn Morris / Pace  
 Caroleyn Morris / Pace

**ACCEPTED BY / AFFILIATION:**  
 Caroleyn Morris / Pace  
 Caroleyn Morris / Pace

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: Caroleyn Morris  
 SIGNATURE of SAMPLER: Caroleyn Morris  
 DATE Signed: 3/31/23



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

## Section A

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 Suite 107, Columbia, SC 29203  
 Email: [brad.hubbard@atcgs.com](mailto:brad.hubbard@atcgs.com)  
 Phone: NONE  
 Requested Due Date: NONE

**Required Project Information:**  
 Report To: Brad Hubbard  
 Copy To:  
 Purchase Order #: CK 886 Ravenel SC  
 Project Name: CK 886 Ravenel SC  
 Project #:

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Project Manager: taylor.cannon@pacelabs.com  
 Pace Quote:  
 Pace Profile #: 9570-4

**Regulatory Agency:**  
**State / Location:** SC

## Section B

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	VOC by 8260	Trip Blank	Requested Analysis: Filtered (Y/N)	TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)	
			START DATE	END DATE																
1	DMW 4	DMW 4	3/28 1404	1436	G	WT	3	X												
2	DMW 5	DMW 5	3/28 1340																	
3	RW 2	RW 2	3/28 0956																	
4	RW 3	RW 3	3/28 0951																	
5	RW 4	RW 4	3/28 0946																	
6	RW 7	RW 7	3/28 1022																	
7	RW 8	RW 8	3/29 1044	*																
8	RW 12	RW 12	3/29 1325																	
9	Dup 1	Dup 1	3/28 1041	*																
10	Dup 2	Dup 2	3/28 1035																	
11	FB 1	FB 1	3/28/23 0916																	
12	FB 2	FB 2	3/29 0833	*																

## Section C

**ADDITIONAL COMMENTS:**  
 Carolynn Morris / Hias 3/23/23 0800  
 Carolynn Morris / Hias 3/23/23 1820  
 Carolynn Morris / Hias 3/23/23 0800

**ACCEPTED BY / AFFILIATION:**  
 Carolynn Morris / Hias  
 Carolynn Morris / Hias

**DATE SIGNED:** 3/31/23

**PRINT Name of SAMPLER:** Carolynn Morris  
**SIGNATURE of SAMPLER:** Carolynn Morris



# CHAIN-OF-CUSTODY / Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

### Section A

**Required Client Information:**  
 Company: ATC Group Services, LLC - Columbia  
 Address: 5904 North Main Street  
 Suite 107, Columbia, SC 29203  
 Email: brad.hubbard@atogs.com  
 Phone: NONE  
 Requested Due Date:

**Required Project Information:**  
 Report To: Brad Hubbard  
 Copy To:  
 Project Name: CK 886 Ravenel SC  
 Project #: SC

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: taylor.cannon@pacelabs.com,  
 Pace Profile #: 9570-4

**Regulatory Agency:**  
**State/Location:**

### Section B

**MATRIX CODE**  
 DW Drinking Water  
 WT Wastewater  
 P Product  
 SL Soil/Solid  
 OL Oil  
 WP Wipe  
 AR Air  
 OT Other  
 TS Tissue

**MATRIX CODE (see valid codes to left)**

**SAMPLE TYPE (G-GRAB C-COMP)**

**COLLECTED**  
 START DATE TIME  
 END DATE TIME

**SAMPLE TEMP AT COLLECTION**

**# OF CONTAINERS**

**Preservatives**  
 Unpreserved  
 H2SO4  
 HNO3  
 HCl  
 NaOH  
 Na2S2O3  
 Methanol  
 Other

**Analyses Test** Y/N

**VOC by 8260**

**Trip Blank**

**Requested Analysis: Filtered (Y/N)**

**Residual Chlorine (Y/N)**

ITEM #	MATRIX	MATRIX CODE	SAMPLE TYPE	START DATE TIME	END DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	VOC by 8260	Trip Blank	Requested Analysis: Filtered (Y/N)	Residual Chlorine (Y/N)
1	Drinking Water	DW	G	3/29 0903			3						
2	Drinking Water	DW	G	3/29 0905									049
3	Drinking Water	DW	G	3/29 1506									050
4	Drinking Water	DW	G	3/29 1159									051
5	Drinking Water	DW	G	3/29 1527									052
6	Drinking Water	DW	G	3/29 1200									053
7	Drinking Water	DW	G	3/29 1245									054
8	Drinking Water	DW	G	3/29 1255									055
9	Drinking Water	DW	G										056
10	Trip Blank									2			057
11	Trip Blank												058
12	Trip Blank												

**REQUISITIONED BY (AFFILIATION)**  
 Carolyn Morris / Atlas  
 Carolyn Morris / Pace

**ACCEPTED BY (AFFILIATION)**  
 Brad Morris / Pace  
 ATC / Pace of PL

**DATE**  
 3/31/23  
 3-31-23  
 4-3-23

**TIME**  
 0800  
 0800  
 1300

**DATE**  
 3-31-23  
 4-3-23

**TIME**  
 1108  
 0800

**TEMP in C**  
 46.1  
 47.1

**Received on**  
 Ice (Y/N)  
 Custody Sealed (Y/N)  
 Cooler (Y/N)  
 Samples Intact (Y/N)

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Carolyn Morris  
 SIGNATURE of SAMPLER: Carolyn Morris

**DATE Signed:** 3/31/23

April 07, 2023

Brad Hubbard  
ATC Group Services  
6904 North Main Street  
Suite 107  
Columbia, SC 29203

RE: Project: CK 886  
Pace Project No.: 92660040

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on March 31, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor M Cannon  
taylor.cannon@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: CK 886  
Pace Project No.: 92660040

---

### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DoH Drinking Water #: LA029  
Virginia/VELAP Certification #: 460221

---

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

## SAMPLE SUMMARY

Project: CK 886  
Pace Project No.: 92660040

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92660040001	01589 WSW-12	Water	03/28/23 12:42	03/31/23 11:08
92660040002	01589 WSW-13	Water	03/28/23 12:52	03/31/23 11:08
92660040003	01589 WSW-16	Water	03/28/23 08:27	03/31/23 11:08
92660040004	01589 WSW-DUP	Water	03/28/23 00:00	03/31/23 11:08
92660040005	01589 WSW-FB	Water	03/28/23 11:58	03/31/23 11:08
92660040006	TRIP BLANK	Water	03/28/23 00:00	03/31/23 11:08

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: CK 886  
Pace Project No.: 92660040

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92660040001	01589 WSW-12	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92660040002	01589 WSW-13	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92660040003	01589 WSW-16	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92660040004	01589 WSW-DUP	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92660040005	01589 WSW-FB	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C
92660040006	TRIP BLANK	EPA 524.2	JJK	10	PASI-C
		EPA 8260D	CL	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

Sample: 01589 WSW-12		Lab ID: 92660040001		Collected: 03/28/23 12:42	Received: 03/31/23 11:08	Matrix: Water
Parameters	Results	Units	Report Limit	MDL	DF	Prepared Analyzed CAS No. Qual
<b>524.2 MSV SC List</b>						
Analytical Method: EPA 524.2						
Pace Analytical Services - Charlotte						
Benzene	ND	mg/L	0.00050	0.00021	1	04/03/23 21:13 71-43-2
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1	04/03/23 21:13 107-06-2
Ethylbenzene	ND	mg/L	0.00050	0.00022	1	04/03/23 21:13 100-41-4
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1	04/03/23 21:13 1634-04-4
Naphthalene	ND	mg/L	0.00050	0.00035	1	04/03/23 21:13 91-20-3
Toluene	ND	mg/L	0.00050	0.00020	1	04/03/23 21:13 108-88-3
m&p-Xylene	ND	mg/L	0.0010	0.00039	1	04/03/23 21:13 179601-23-1
o-Xylene	ND	mg/L	0.00050	0.00022	1	04/03/23 21:13 95-47-6
<b>Surrogates</b>						
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1	04/03/23 21:13 2199-69-1
4-Bromofluorobenzene (S)	98	%	70-130		1	04/03/23 21:13 460-00-4
<b>8260 MSV Low Level SC</b>						
Analytical Method: EPA 8260D						
Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	36.4	1	04/05/23 18:25 75-85-4
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1	04/05/23 18:25 994-05-8
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1	04/05/23 18:25 624-95-3
tert-Butyl Alcohol	ND	ug/L	100	26.8	1	04/05/23 18:25 75-65-0
tert-Butyl Formate	ND	ug/L	50.0	29.4	1	04/05/23 18:25 762-75-4
Diisopropyl ether	ND	ug/L	1.0	0.31	1	04/05/23 18:25 108-20-3
Ethanol	ND	ug/L	200	72.2	1	04/05/23 18:25 64-17-5
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1	04/05/23 18:25 637-92-3
<b>Surrogates</b>						
4-Bromofluorobenzene (S)	96	%	70-130		1	04/05/23 18:25 460-00-4
1,2-Dichloroethane-d4 (S)	106	%	70-130		1	04/05/23 18:25 17060-07-0
Toluene-d8 (S)	99	%	70-130		1	04/05/23 18:25 2037-26-5

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



## ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

**Sample: 01589 WSW-13**      **Lab ID: 92660040002**      Collected: 03/28/23 12:52      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		04/03/23 21:39	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		04/03/23 21:39	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		04/03/23 21:39	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		04/03/23 21:39	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		04/03/23 21:39	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		04/03/23 21:39	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		04/03/23 21:39	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		04/03/23 21:39	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		04/03/23 21:39	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/03/23 21:39	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 18:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 18:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 18:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 18:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 18:43	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 18:43	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 18:43	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 18:43	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/05/23 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		04/05/23 18:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/05/23 18:43	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

**Sample: 01589 WSW-16**      **Lab ID: 92660040003**      Collected: 03/28/23 08:27      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		04/03/23 22:06	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		04/03/23 22:06	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		04/03/23 22:06	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		04/03/23 22:06	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		04/03/23 22:06	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		04/03/23 22:06	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		04/03/23 22:06	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		04/03/23 22:06	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	98	%	70-130		1		04/03/23 22:06	2199-69-1	
4-Bromofluorobenzene (S)	97	%	70-130		1		04/03/23 22:06	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 19:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 19:01	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 19:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 19:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 19:01	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 19:01	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 19:01	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 19:01	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		04/05/23 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/05/23 19:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/05/23 19:01	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

**Sample: 01589 WSW-DUP**      **Lab ID: 92660040004**      Collected: 03/28/23 00:00      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		04/03/23 22:32	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		04/03/23 22:32	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		04/03/23 22:32	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		04/03/23 22:32	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		04/03/23 22:32	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		04/03/23 22:32	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		04/03/23 22:32	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		04/03/23 22:32	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	97	%	70-130		1		04/03/23 22:32	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/03/23 22:32	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/05/23 19:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/05/23 19:19	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/05/23 19:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/05/23 19:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/05/23 19:19	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/05/23 19:19	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/05/23 19:19	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/05/23 19:19	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/05/23 19:19	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		04/05/23 19:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		04/05/23 19:19	2037-26-5	

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### ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

**Sample: 01589 WSW-FB**      **Lab ID: 92660040005**      Collected: 03/28/23 11:58      Received: 03/31/23 11:08      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		04/03/23 18:35	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		04/03/23 18:35	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		04/03/23 18:35	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		04/03/23 18:35	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		04/03/23 18:35	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		04/03/23 18:35	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		04/03/23 18:35	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		04/03/23 18:35	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	96	%	70-130		1		04/03/23 18:35	2199-69-1	
4-Bromofluorobenzene (S)	96	%	70-130		1		04/03/23 18:35	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 13:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 13:34	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 13:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 13:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 13:34	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 13:34	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 13:34	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 13:34	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		1		04/04/23 13:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		04/04/23 13:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		04/04/23 13:34	2037-26-5	

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## ANALYTICAL RESULTS

Project: CK 886  
Pace Project No.: 92660040

Sample: TRIP BLANK		Lab ID: 92660040006		Collected: 03/28/23 00:00		Received: 03/31/23 11:08		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>524.2 MSV SC List</b>									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		04/04/23 14:50	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		04/04/23 14:50	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		04/04/23 14:50	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		04/04/23 14:50	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		04/04/23 14:50	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		04/04/23 14:50	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		04/04/23 14:50	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		04/04/23 14:50	95-47-6	
<b>Surrogates</b>									
1,2-Dichlorobenzene-d4 (S)	95	%	70-130		1		04/04/23 14:50	2199-69-1	
4-Bromofluorobenzene (S)	95	%	70-130		1		04/04/23 14:50	460-00-4	
<b>8260 MSV Low Level SC</b>									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		04/04/23 13:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		04/04/23 13:52	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		04/04/23 13:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		04/04/23 13:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		04/04/23 13:52	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		04/04/23 13:52	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		04/04/23 13:52	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		04/04/23 13:52	637-92-3	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		04/04/23 13:52	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		04/04/23 13:52	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		04/04/23 13:52	2037-26-5	

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

QC Batch: 765618      Analysis Method: EPA 524.2  
QC Batch Method: EPA 524.2      Analysis Description: 524.2 MSV  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660040001, 92660040002, 92660040003, 92660040004, 92660040005

METHOD BLANK: 3975407      Matrix: Water  
Associated Lab Samples: 92660040001, 92660040002, 92660040003, 92660040004, 92660040005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00016	04/03/23 17:16	
Benzene	mg/L	ND	0.00050	0.00021	04/03/23 17:16	
Ethylbenzene	mg/L	ND	0.00050	0.00022	04/03/23 17:16	
m&p-Xylene	mg/L	ND	0.0010	0.00039	04/03/23 17:16	
Methyl-tert-butyl ether	mg/L	ND	0.00050	0.00014	04/03/23 17:16	
Naphthalene	mg/L	ND	0.00050	0.00035	04/03/23 17:16	
o-Xylene	mg/L	ND	0.00050	0.00022	04/03/23 17:16	
Toluene	mg/L	ND	0.00050	0.00020	04/03/23 17:16	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		04/03/23 17:16	
4-Bromofluorobenzene (S)	%	96	70-130		04/03/23 17:16	

LABORATORY CONTROL SAMPLE: 3975408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.022	109	70-130	
Benzene	mg/L	0.02	0.021	104	70-130	
Ethylbenzene	mg/L	0.02	0.021	103	70-130	
m&p-Xylene	mg/L	0.04	0.042	105	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.019	93	70-130	
Naphthalene	mg/L	0.02	0.020	99	70-130	
o-Xylene	mg/L	0.02	0.021	103	70-130	
Toluene	mg/L	0.02	0.021	103	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

QC Batch: 765859	Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2	Analysis Description: 524.2 MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660040006

METHOD BLANK: 3976429 Matrix: Water

Associated Lab Samples: 92660040006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00016	04/04/23 13:57	
Benzene	mg/L	ND	0.00050	0.00021	04/04/23 13:57	
Ethylbenzene	mg/L	ND	0.00050	0.00022	04/04/23 13:57	
m&p-Xylene	mg/L	ND	0.0010	0.00039	04/04/23 13:57	
Methyl-tert-butyl ether	mg/L	ND	0.00050	0.00014	04/04/23 13:57	
Naphthalene	mg/L	ND	0.00050	0.00035	04/04/23 13:57	
o-Xylene	mg/L	ND	0.00050	0.00022	04/04/23 13:57	
Toluene	mg/L	ND	0.00050	0.00020	04/04/23 13:57	
1,2-Dichlorobenzene-d4 (S)	%	99	70-130		04/04/23 13:57	
4-Bromofluorobenzene (S)	%	97	70-130		04/04/23 13:57	

LABORATORY CONTROL SAMPLE: 3976430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.023	115	70-130	
Benzene	mg/L	0.02	0.022	108	70-130	
Ethylbenzene	mg/L	0.02	0.021	106	70-130	
m&p-Xylene	mg/L	0.04	0.042	106	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.019	96	70-130	
Naphthalene	mg/L	0.02	0.020	100	70-130	
o-Xylene	mg/L	0.02	0.021	107	70-130	
Toluene	mg/L	0.02	0.021	105	70-130	
1,2-Dichlorobenzene-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

QC Batch: 765748 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92660040005, 92660040006

METHOD BLANK: 3975821 Matrix: Water  
Associated Lab Samples: 92660040005, 92660040006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/04/23 13:15	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/04/23 13:15	
Ethanol	ug/L	ND	200	72.2	04/04/23 13:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/04/23 13:15	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/04/23 13:15	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/04/23 13:15	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/04/23 13:15	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/04/23 13:15	
1,2-Dichloroethane-d4 (S)	%	99	70-130		04/04/23 13:15	
4-Bromofluorobenzene (S)	%	100	70-130		04/04/23 13:15	
Toluene-d8 (S)	%	101	70-130		04/04/23 13:15	

LABORATORY CONTROL SAMPLE: 3975822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	391	98	70-130	
Diisopropyl ether	ug/L	20	20.4	102	70-130	
Ethanol	ug/L	800	846	106	70-130	
Ethyl-tert-butyl ether	ug/L	40	40.4	101	70-130	
tert-Amyl Alcohol	ug/L	400	407	102	70-130	
tert-Amylmethyl ether	ug/L	40	41.8	105	70-130	
tert-Butyl Alcohol	ug/L	200	199	99	70-130	
tert-Butyl Formate	ug/L	160	160	100	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 3975824

Parameter	Units	92659760004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	394	99	39-157	
Diisopropyl ether	ug/L	ND	20	21.6	108	63-144	
Ethanol	ug/L	ND	800	1110	139	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.5	104	66-137	
tert-Amyl Alcohol	ug/L	ND	400	420	105	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.8	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	308	146	43-188	

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

MATRIX SPIKE SAMPLE: 3975824		92659760004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	41.2J	26	10-170	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 3975823

Parameter	Units	92660108056	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	101			
4-Bromofluorobenzene (S)	%	100	99			
Toluene-d8 (S)	%	102	103			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

QC Batch: 765751 Analysis Method: EPA 8260D  
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC  
Laboratory: Pace Analytical Services - Charlotte  
Associated Lab Samples: 92660040001, 92660040002, 92660040003, 92660040004

METHOD BLANK: 3975840 Matrix: Water  
Associated Lab Samples: 92660040001, 92660040002, 92660040003, 92660040004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	04/05/23 12:04	
Diisopropyl ether	ug/L	ND	1.0	0.31	04/05/23 12:04	
Ethanol	ug/L	ND	200	72.2	04/05/23 12:04	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	04/05/23 12:04	
tert-Amyl Alcohol	ug/L	ND	100	36.4	04/05/23 12:04	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	04/05/23 12:04	
tert-Butyl Alcohol	ug/L	ND	100	26.8	04/05/23 12:04	
tert-Butyl Formate	ug/L	ND	50.0	29.4	04/05/23 12:04	
1,2-Dichloroethane-d4 (S)	%	102	70-130		04/05/23 12:04	
4-Bromofluorobenzene (S)	%	98	70-130		04/05/23 12:04	
Toluene-d8 (S)	%	100	70-130		04/05/23 12:04	

LABORATORY CONTROL SAMPLE: 3975841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	367	92	70-130	
Diisopropyl ether	ug/L	20	18.0	90	70-130	
Ethanol	ug/L	800	804	100	70-130	
Ethyl-tert-butyl ether	ug/L	40	36.2	90	70-130	
tert-Amyl Alcohol	ug/L	400	361	90	70-130	
tert-Amylmethyl ether	ug/L	40	38.3	96	70-130	
tert-Butyl Alcohol	ug/L	200	184	92	70-130	
tert-Butyl Formate	ug/L	160	149	93	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE SAMPLE: 3975842

Parameter	Units	92660040004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	427	107	39-157	
Diisopropyl ether	ug/L	ND	20	20.9	105	63-144	
Ethanol	ug/L	ND	800	976	122	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	42.7	107	66-137	
tert-Amyl Alcohol	ug/L	ND	400	473	118	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.4	109	69-139	
tert-Butyl Alcohol	ug/L	ND	200	326	163	43-188	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CK 886  
Pace Project No.: 92660040

MATRIX SPIKE SAMPLE: 3975842		92660040004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	48.7J	30	10-170	
1,2-Dichloroethane-d4 (S)	%				109	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 3975843

Parameter	Units	92660070001	Dup	RPD	Max	Qualifiers
		Result	Result		RPD	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	104	105			
4-Bromofluorobenzene (S)	%	96	100			
Toluene-d8 (S)	%	101	101			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: CK 886  
Pace Project No.: 92660040

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CK 886  
Pace Project No.: 92660040

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92660040001	01589 WSW-12	EPA 524.2	765618		
92660040002	01589 WSW-13	EPA 524.2	765618		
92660040003	01589 WSW-16	EPA 524.2	765618		
92660040004	01589 WSW-DUP	EPA 524.2	765618		
92660040005	01589 WSW-FB	EPA 524.2	765618		
92660040006	TRIP BLANK	EPA 524.2	765859		
92660040001	01589 WSW-12	EPA 8260D	765751		
92660040002	01589 WSW-13	EPA 8260D	765751		
92660040003	01589 WSW-16	EPA 8260D	765751		
92660040004	01589 WSW-DUP	EPA 8260D	765751		
92660040005	01589 WSW-FB	EPA 8260D	765748		
92660040006	TRIP BLANK	EPA 8260D	765748		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name:

ATC

Project:

WO#: 92660040



92660040

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: TJS 11/3/23

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID: 921070

Type of Ice:  Wet  Blue  None

Cooler Temp: 13 Correction Factor: Add/Subtract (°C) -0

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 13

USDA Regulated Soil (  N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  Yes  No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?  Yes  No

	Comments/Discrepancy:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sample Labels Match CQC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



DC#\_ Title: ENV-FRM-HUN1-0083 v02\_Sample Condition Upon Receipt

Effective Date: 11/14/2022

**WO# : 92660040**

\*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project:

PM: TMC

Due Date: 04/07/23

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-ATC\_Colum

\*\*Bottom half of box is to list number of bottles

\*\*\*Check all unpreserved Nitrates for chlorine

Item#	BP4U-1 25 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

256666

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

### Section A

**Required Client Information:**  
 Company: ATC Group Services, LLC - Columbia  
 Address: 6904 North Main Street, Suite 107, Columbia, SC 29203  
 Email: brad.hubbard@atcgs.com  
 Phone: NONE  
 Requested Due Date:

**Required Project Information:**  
 Report To: Brad Hubbard  
 Copy To:  
 Project Name: CK 886  
 Project #:

**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: taylor.cannon@pacelabs.com  
 Pace Profile #: 9570-3

**Regulatory Agency:**  
 State/Location: SC

### Section B

**Requested Analysis Filtered (Y/N)**

MATRIX	CODE	START DATE	START TIME	END DATE	END TIME	SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260 Oxy	VOC 524.2	Tri Blank	Residual Chlorine (Y/N)
Drinking Water	DW	3/28	1242			G	WTG	6				X					X	X			
Water	WT	3/28	1252																		
Waste Water	WW	3/28	1817																		
Product	P	3/28	1158																		
Soil/Solid	SL																				
Oil	OL																				
Wipe	WP																				
Air	AR																				
Other	OT																				
Tissue	TS																				

### Section C

**ADDITIONAL COMMENTS**

Caroleyn Morris / ATCS 3/31/23 0800  
 Caroleyn Morris / ATCS 3/31/23 1820  
 TJS HVL PACE 4/23/23 0800 13 U N U

**REQUISITION BY / AFFILIATION** DATE TIME  
 Caroleyn Morris / ATCS 3/31/23 0800  
 Caroleyn Morris / ATCS 3/31/23 1820  
 TJS HVL PACE 4/23/23 0800 13 U N U

**ACCEPTED BY / AFFILIATION** DATE TIME  
 Caroleyn Morris / ATCS 3/31/23 1100

**SAMPLE CONDITIONS**

Received on Ice (Y/N)  
 Custody Sealed (Y/N)  
 Cooler (Y/N)  
 Samples Intact (Y/N)

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Caroleyn Morris  
 SIGNATURE of SAMPLER: Caroleyn Morris

DATE Signed: 3/31/23



**APPENDIX D**

**QAPP CONTRACTOR CHECKLIST**

### Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	X		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?	X		
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?	X		
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	X		
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided?	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	X		
24	If free-product is present, has the thickness been provided?	X		
25	Does the report include a brief discussion of the assessment done and the results?			X
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)	X		X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)	X		
31	Have recommendations for further action been provided and explained?	X		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format?	X		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	X		
40	Has the site potentiometric map been provided? (Figure 5)	X		
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements? (Appendix A)			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			X
47	Have the soil boring/field screening logs been provided? (Appendix D)			X
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)	X		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			X
50	Have the disposal manifests been provided? (Appendix G)			X
51	Has a copy of the local zoning regulations been provided? (Appendix H)			X
52	Has all fate and transport modeling been provided? (Appendix I)			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	X		

