

ATLAS

Corrective Action System Evaluation and Monitoring Report

1st half 2024

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 2024

Circle K Store no. 2720886

Release Reported 8/2/2018

4315 Savannah Highway

Ravenel (Charleston County), South Carolina

UST Permit No. 01589, CA # 61117

Atlas Project No. 257CK88613

Prepared By:

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Submitted To:

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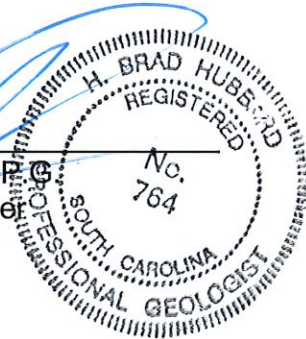
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Underground Storage Tank Site Rehabilitation
Contractor Certification No. 313

May 13, 2024

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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 2024.

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 the 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

xylene, 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 19 and 20, 2024. Monitoring well 01589 MW-37 appeared to be beneath heavy equipment and was not accessible at this time. 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.

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 on the site were found to be higher than measured in September 2023, ranging from 0.06 feet (01589 MW-21 and 01589 MW-22) to 3.49 feet (10589 MW-14). Several wells however, had water tables equal to or lower

than in September 2023 (01589 MW-9, 01589 MW-10, 01589 MW-11, 01589 MW-17, 01589 MW-25, 01589 MW-27, 01589 MW-28, 01589 MW-30, 01589 MW-31, and 01589 MW-32). The horizontal gradient, as calculated between wells 01589 MW-2 and 01589 MW-27, is $(19.01-14.09) / 470$ ft., or 0.01. The vertical hydraulic gradient, as measured between paired shallow and deep cased wells, was upward between well pairs 01589 MW-1/DW-1 (0.29 ft.) and 01589 MW-34/01589 DMW-5 (0.37ft.), and downward between 01589 DMW-2/01589 MW-22 (0.22ft.), 01589 MW-24/01589 DW-3 (1.04 ft.), and 01589 MW-16/01589 DW-4 (0.14 ft.).

During this event, LNAPL was encountered in monitoring well 01589 MW-6 (0.14 ft.), and recovery wells 01589 RW-5 (0.03 ft.), 01589 RW-6 (0.03 ft.), 01589 RW-0.03 ft.), 01589 RW-11A (indeterminant heavy sheen) and 01589 RW-11B (indeterminant heavy sheen). 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 19 and 20, 2024. 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). Monitoring well 01589 MW-37 appeared to be beneath heavy equipment and was not accessible at this time. Samples were also collected from recovery wells with no measurable LNAPL.

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-7, 01589 MW-8, 01589 MW-16, 01589 MW-17, 01589 MW-20, 01589 MW-21, 01589 MW-25, 01589 MW-26R, 01589 MW-27, 01589 MW-29R, 01589 MW-36, and the deep cased wells 01589 DMW-1 through 01589 DMW-5. Removal of a minimum of one up 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 A**. Water generated during pre-sample purging was placed into steel 55-gallon drums and removed for disposal at a SCDHEC-approved facility on March 25, 2024. A manifest for disposal is included in **Appendix B**. 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-3 (DUP-1), 01589 MW-32 (DUP-2), and 01589 MW-36 (DUP-3) concurrent with collection of the original samples. Field blanks were collected on March 19 and 20, 2024 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 overnight shipper to a SC-certified analytical laboratory (Pace Analytical Laboratories, Inc., of 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. As previously indicated, well 01589 MW-37 was inaccessible and could not be sampled.

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 report for groundwater sampling data, including chain-of-custody documentation and quality assurance, is presented in **Appendix C**.

3.3 Surface Water Sampling and Analysis

Surface water sampling was also performed on March 19 and 20, 2024, 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 by SGS 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 report for surface water sampling data, including chain-of-custody documentation and quality assurance, is 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, and WSW-13 were accessed for sampling on March 20, 2024. Well 01589 WSW-16, included in the sampling program, could not be accessed due to a locked fence. The owner or occupant of the site could not be reached, so this well was not sampled.

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 20, 2024. 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 submitted to Pace Analytical Services, Inc. of Huntersville, NC for analysis of 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 in **Figure 12**. The laboratory analytical report for water well sampling data, including chain-of-custody documentation and quality assurance, is 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-3, 01589 MW-32, and 01589 MW-36, 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 for two CoCs between 01589 MW-3 and its duplicate (ethylbenzene at 29%, tert-amyl alcohol at 51%) and one CoC between 01589 MW-32 and its duplicate (tert-amyl alcohol at 35%).

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 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-12, 01589 MW-13, 01589 MW-15, 01589 MW-32, 01589 MW-33, 01589 RW-1, 01589 RW-2, 01589 RW-3, 01589 RW-7, 01589 RW-8, 01589 RW-9, 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.

- > AFVR treatments on selected wells were performed between December 11 and 14, 2023. 8-hour duration AFVRs were performed on wells 01589 RW-6, 01589 RW-8, and 01589 RW-9 on December 11; on wells 01589 RW-1, 01589 RW-2, 01589 RW-3, and 01589 RW-7 on December 12; on wells 01589 MW-2, and 01589 MW-33 on December 13; and on well 01589 RW-11A, 01589 RW-11B, and 01589 RW-12 on December 14. A total of 4,700 gallons of petroleum-impacted water, with a calculated 15.32 equivalent gallons of product, were removed for disposal. Following termination of AFVR treatments, none of the treated wells contained measurable free product. The AFVR reports for this period are included in **Appendix E**.
- > AFVR treatments on selected wells were performed between February 12 and 15, 2024. 8-hour duration AFVRs were performed on wells 01589 RW-1, 01589 RW-7, and 01589 MW-33 on February 12 and 15; and on wells 01589 RW-11A, 01589 RW-11B, and 01589 RW-12 on February 13 and 14. A total of 5,600 gallons of petroleum-impacted water, with a calculated 21.83 equivalent gallons of product, were removed for disposal. Following termination of AFVR treatments, none of the treated wells contained measurable free product. The AFVR reports for this period are included in **Appendix F**.

4.2 Groundwater COC Evaluation

Based on the results of the CASE sampling performed for the 1st half of 2024, the following observations are presented:

- > Water levels on the site were found to be higher than measured in September 2023, ranging from 0.06 feet (01589 MW-21 and 01589 MW-22) to 3.49 feet (10589 MW-14). Several wells however, had water tables equal to or lower than in September 2023 (01589 MW-9, 01589 MW-10, 01589 MW-11, 01589 MW-17, 01589 MW-25, 01589 MW-27, 01589 MW-28, 01589 MW-30, 01589 MW-31, and 01589 MW-32). Groundwater flow is to the north-northwest, as measured in both water table wells and in the deeper cased wells, in accordance with historic trends.
- > Thin free product layers were encountered in wells 01589 MW-6, 01589 RW-5, 01589 RW-6, 01589 RW-10, 01598 RW-11A, and 01589 RW-11B. Thin layers or sheens of residual emulsified product remain in recovery wells 01589 RW-11A and 01589 RW-11B, which intercept product that has been in contact with the asphaltic subbase of Savannah Highway. AFVR treatments appear to have removed the bulk of product that potentially remains mobile.
- > 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-13, 01589 MW-15, 01589 MW-25, 01589 MW-29R, 01589 MW-32, 01589 MW-33, 01589 MW-36, 01589 DW-3, 01589 RW-4, and 01589 RW-12. With a couple of exceptions, CoC levels continue to show a decreasing trend relative to previous data.
- > The MTBE level in 01589 DW-3 (16.8 µg/L) was slightly above its SSTL of 5 µg/L but has increased from 8.8 µg/L in September 2023. MTBE is also present at a low concentration in well 01589 MW-25 west of the site, below its SSTL, and MTBE is present on well 01589 MW-26R, north of the site. This indicates that MTBE and other, more water-soluble alcohols and ethers, are actively migrating beyond the initial area impacted by the less soluble aromatic hydrocarbons.
- > COCs were below detection in water supply well samples collected during this reporting period. Well WSW-16, located west of the site area, was not

able to be sampled during this event due to the well being in a locked area with no contact with the owner possible.

- > All established surface water locations were able to be sampled during this period. No CoCs were present above detectable levels.

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 **82.67%** for this reporting period. However, the following comments concerning this calculation are offered:

- 1: Due to the return of a thin free product layer in well 01598 MW-6, the results from the September 2023 sampling are utilized.
- 2: Since well 01589 MW-37 was blocked by heavy equipment and was not accessible, the results from September 2023 are utilized (all CoCs are historically non-detected in this well).
- 3: Since water well 01589 WSW-16 remains inaccessible, results from March 2023 are utilized.

5.0 SUMMARY

During this reporting period, Atlas sampled all but one monitoring wells associated with the site, all nine surface water locations and two of the four water wells specified in the CAP. (Water well 01589 WSW-15 has been determined to be decommissioned and has been removed from the sampling program, and 01589 WSW-16 was not accessible during this event).

Findings from this sampling event indicate that the free product that has been so prolific at the site has been reduced to thin layers or heavy sheens in a few recovery wells and one or two monitoring wells (01589 MW-6, and 01589 MW-33, not evident this period). Dissolved levels show a slow trend overall of decreasing concentrations, but many CoC levels remain well above the calculated SSTLs.

Activities planned for the upcoming period before the next sampling event include performance of one or more additional AFVR events to remove all residual product.

It is recommended that well WSW-16 be removed from the sampling program as it has not been possible to sample the well or contact the property owner to gain access.

In accordance with the sampling schedule presented in the CAP, the first semi-annual sampling of all wells will be conducted in September 2024, and a CASE report of findings will be submitted.

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
	9/18/2023				NM	5.75	0.00	15.87
	3/20/2024				NM	3.42	0.00	18.20
	01589 MW-2				11/22/2018	21.59	2.0 - 12.0	12.0
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	19.29			
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			
9/18/2023		NM	5.06	0.00	16.53			
3/20/2024		NM	2.58	0.00	19.01			
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
	9/18/2023				NM	3.54	0.00	19.40
	3/19/2024				NM	3.30	0.00	19.64
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
	9/18/2023				NM	3.54	0.00	19.26
	3/19/2024				NM	2.96	0.00	19.84
	01589 MW-5				11/22/2018	23.57	2.0 - 12.0	12.0
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			
9/18/2023		NM	5.79	0.00	17.78			
3/19/2024		NM	3.18	0.00	20.39			
01589 MW-6		11/22/2018	19.33	2.0 - 12.0	12.0			
	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
	9/18/2023	3.48				3.48	0.00	15.85
	3/19/2024	1.45				1.59	0.14	17.64
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
	9/18/2023				NM	2.72	0.00	16.83
	3/19/2024				NM	1.76	0.00	17.79

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 baller

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			
	9/18/2023				NM	2.13	0.00	17.01			
	3/19/2024				NM	1.98	0.00	17.16			
	01589 MW-9				11/22/2018	16.50	2.0 - 12.0	12.0	NM	2.32	0.00
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						
9/18/2023		NM	1.55	0.00	14.95						
3/19/2024		NM	2.44	0.00	14.06						
01589 MW-10		11/22/2018	17.63	2.0 - 12.0	12.0				NM	3.09	0.00
	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			
	9/18/2023	NM				1.74	0.00	15.89			
	3/19/2024	NM				2.51	0.00	15.12			
	01589 MW-11	11/22/2018				18.13	2.0 - 12.0	12.0	NM	2.85	0.00
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						
9/18/2023		NM	1.81	0.00	16.32						
3/19/2024		NM	2.51	0.00	15.62						
01589 MW-12		11/22/2018	21.38	2.0 - 12.0	12.0				NM	4.76	0.00
	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			
	9/18/2023	NM				4.80	0.00	16.58			
	3/20/2024	NM				2.71	0.00	18.67			
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			
	9/18/2023				NM	3.73	0.00	16.75			
	3/20/2024				NM	2.29	0.00	18.19			
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			
	9/18/2023				NM	6.78	0.00	16.67			
	3/19/2024				NM	3.29	0.00	20.16			

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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4315 Savannah Highway
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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
	9/18/2023				NM	5.84	0.00	16.98
	3/20/2024				NM	3.13	0.00	19.69
	01589 MW-16				11/22/2018	21.18	2.0 - 12.0	12.0
2/26/2019		NM	2.89	0.00	18.29			
3/11/2019		NM	3.30	0.00	17.68			
4/25/2019		NM	3.59	0.00	17.59			
7/8/2019		NM	4.44	0.00	16.74			
3/2/2020		NM	3.04	0.00	18.14			
4/20/2021		NM	2.03	0.00	19.15			
10/13/2021		NM	4.45	0.00	16.73			
3/29/2022		NM	2.61	0.00	18.57			
9/27/2022		NM	5.33	0.00	15.85			
3/28/2023		NM	3.43	0.00	17.75			
9/18/2023		NM	3.61	0.00	17.57			
3/20/2024		NM	3.24	0.00	17.94			
01589 MW-17		11/22/2018	20.96	2.0 - 12.0	12.0			
	2/26/2019	NM				4.04	0.00	16.92
	3/11/2019	NM				3.40	0.00	17.56
	4/25/2019	NM				3.68	0.00	17.28
	7/8/2019	NM				4.75	0.00	16.21
	3/2/2020	NM				3.09	0.00	17.87
	4/20/2021	NM				1.75	0.00	19.21
	10/13/2021	NM				4.65	0.00	16.31
	3/29/2022	NM				2.74	0.00	18.22
	9/27/2022	NM				5.39	0.00	15.57
	3/28/2023	NM				3.66	0.00	17.30
	9/18/2023	NM				3.77	0.00	17.19
	3/20/2024	NM				1.62	0.00	19.34
	01589 MW-18	11/22/2018				20.05	2.0 - 12.0	12.0
2/26/2019		NM	3.86	0.00	16.19			
3/11/2019		NM	3.44	0.00	16.61			
4/25/2019		NM	3.56	0.00	16.49			
7/8/2019		NM	4.59	0.00	15.46			
3/2/2020		NM	3.29	0.00	16.76			
4/20/2021		NM	3.07	0.00	16.98			
10/13/2021		NM	4.62	0.00	15.43			
3/29/2022		NM	2.68	0.00	17.37			
9/27/2022		NM	5.17	0.00	14.88			
3/28/2023		NM	3.64	0.00	16.41			
9/18/2023		NM	3.73	0.00	16.32			
3/20/2024		NM	3.34	0.00	16.71			
01589 MW-19		11/22/2018	19.82	2.0 - 12.0	12.0			
	2/26/2019	NM				3.71	0.00	16.11
	3/11/2019	NM				2.74	0.00	17.08
	4/25/2019	NM				2.70	0.00	17.12
	7/8/2019	NM				4.71	0.00	15.11
	3/2/2020	NM				3.05	0.00	16.77
	4/20/2021	NM				1.86	0.00	17.96
	10/13/2021	NM				4.72	0.00	15.10
	3/29/2022	NM				2.30	0.00	17.52
	9/27/2022	NM				5.22	0.00	14.60
	3/28/2023	NM				3.73	0.00	16.09
	9/18/2023	NM				3.73	0.00	16.09
	3/20/2024	NM				3.10	0.00	16.72
	01589 MW-20	11/22/2018				18.53	2.0 - 12.0	12.0
2/26/2019		NM	2.71	0.00	15.82			
3/11/2019		NM	2.60	0.00	15.93			
4/25/2019		NM	2.76	0.00	15.77			
7/8/2019		NM	3.74	0.00	14.79			
3/2/2020		NM	2.19	0.00	16.34			
4/20/2021		NM	0.80	0.00	17.73			
10/13/2021		NM	3.78	0.00	14.75			
3/29/2022		NM	1.48	0.00	17.05			
9/27/2022		NM	4.13	0.00	14.40			
3/28/2023		NM	2.87	0.00	15.66			
9/18/2023		NM	2.87	0.00	15.66			
3/20/2024		NM	2.13	0.00	16.40			
01589 MW-21		11/22/2018	16.16	2.0 - 12.0	12.0			
	2/26/2019	NM				1.34	0.00	14.82
	3/11/2019	NM				0.00	0.00	16.16
	4/25/2019	NM				0.99	0.00	15.17
	7/8/2019	NM				1.24	0.00	14.92
	3/2/2020	NM				0.25	0.00	15.91
	4/20/2021	NM				0.00	0.00	16.16
	10/14/2021	NM				2.35	0.00	13.81
	3/28/2022	NM				0.50	0.00	15.66
	9/27/2022	NM				2.32	0.00	13.84
	3/29/2023	NM				1.50	0.00	14.66
	9/18/2023	NM				1.31	0.00	14.85
	3/19/2024	NM				0.26	0.00	15.90
		NM				0.20	0.00	15.96

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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				
	9/18/2023				NM	3.07	0.00	15.72				
	3/19/2024				NM	3.01	0.00	15.78				
	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	6.78	0.00	13.58							
9/27/2022		NM	7.82	0.00	14.54							
3/29/2023		NM	7.73	0.00	14.63							
9/18/2023		NM	6.87	0.00	15.49							
3/19/2024		NM	6.03	0.00	16.33							
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				
	9/18/2023	NM				6.47	0.00	16.03				
	3/19/2024	NM				5.44	0.00	17.06				
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				
	9/18/2023				NM	0.21	0.00	16.25				
	3/19/2024				NM	0.30	0.00	16.16				
	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-26R		9/19/2023	18.33	5.0 - 15.0	15				NM	3.35	0.00	14.98
		3/19/2024							NM	3.00	0.00	15.33
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				
	9/19/2023				NM	2.97	0.00	14.46				
	3/19/2024				NM	3.34	0.00	14.09				
	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							
9/18/2023		NM	3.09	0.00	15.09							
3/19/2024		NM	3.90	0.00	14.28							

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							
	9/19/2023											
	3/19/2024											
01589 MW-29R	11/22/2018	19.87	5.0 - 15.0	15	NM	4.25	0.00	15.62				
	3/19/2024				NM	3.44	0.00	16.43				
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				
	3/29/2022				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				
	9/18/2023				NM	2.31	0.00	15.75				
	3/19/2024				NM	2.36	0.00	15.70				
	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							
9/18/2023		NM	2.76	0.00	17.03							
3/19/2024		NM	3.01	0.00	16.78							
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				
	9/18/2023	NM				3.69	0.00	19.11				
	3/20/2024	NM				3.77	0.00	19.03				
	01589 MW-33	2/26/2019				22.26	3.0-13.0	13.0	NM	4.30	0.00	17.96
		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							
9/18/2023		5.86	5.96	0.10	16.37							
3/19/2024		NM	3.05	0.00	19.21							
01589 MW-34		2/26/2019	26.56	3.0-13.0	13.0				NM	8.08	0.00	18.48
		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				
	9/18/2023	NM				9.19	0.00	17.37				
	3/20/2024	NM				6.59	0.00	19.97				
	01589 MW-35	2/26/2019				25.15	3.0-13.0	13.0	NM	6.85	0.00	18.30
		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							
9/18/2023		NM	8.14	0.00	17.01							
3/20/2024		NM	5.25	0.00	19.90							
01589 MW-36		2/26/2019	19.00	3.0-13.0	13.0				NM	2.60	0.00	16.40
		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				
	9/18/2023	NM				2.57	0.00	16.43				
	3/19/2024	NM				1.51	0.00	17.49				

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 NA = not applicable
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 * = product thickness measured through use of a bailer

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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						
	9/19/2023							NM	3.99	0.00	14.62
	3/19/2024							NM	NM	NM	NM
01589 MW-38	2/26/2019	23.25	3.0-13.0	13.0	NM	8.19	0.00	15.06			
	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						
	9/19/2023							NM	3.89	0.00	15.36
	3/19/2024							NM	3.18	0.00	16.07
01589 DMW-1	11/22/2018	21.84	34.0 - 39.0	39.0	NM	5.11	0.00	16.73			
	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			
	9/20/2023				NM	5.33	0.00	16.51			
	3/20/2024				NM	3.93	0.00	17.91			
	11/22/2018				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							
9/19/2023	NM	3.12	0.00	15.69							
3/19/2024	NM	2.81	0.00	16.00							
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			
	9/19/2023				NM	7.67	0.00	15.66			
	3/19/2024				NM	7.23	0.00	16.10			
	7/8/2019				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							
3/28/2023	NM	3.68	0.00	17.45							
9/19/2023	NM	4.47	0.00	16.66							
3/20/2024	NM	1.68	0.00	19.45							
01589 DMW-5	7/8/2019	26.38	38.0 - 43.0	43.0	NM	8.06	0.00	18.32			
	3/2/2020				NM	6.88	0.00	19.50			
	4/20/2021				NM	9.27	0.00	17.11			
	10/15/2021				NM	7.56	0.00	18.82			
	3/30/2022				NM	10.19	0.00	16.19			
	9/27/2022				NM	8.36	0.00	18.02			
	3/28/2023				NM	8.50	0.00	17.88			
	9/19/2023				NM	9.09	0.00	17.29			
	3/20/2024				NM	6.78	0.00	19.60			
	11/22/2018				NM	4.68	0.00	16.95			
01589 RW-1	2/26/2019	21.63	2.0 - 12.0	12.0	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	18.47			
	4/20/2021				4.95	5.08	0.13	18.53			
	10/13/2021				3.59	3.66	0.07	18.53			
	3/30/2022				5.94	5.94	0.00	15.69			
	9/28/2022				4.00	4.30	0.30	17.33			
	3/28/2023				4.27	4.30	0.03	17.33			
	9/18/2023				NM	4.05	0.00	17.58			
	3/20/2024				NM	3.10	0.00	18.53			

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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 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	17.56		
	3/11/2019				4.20	4.24	0.04	17.27		
	4/25/2019				NM	4.69	0.00	16.82		
	7/8/2019				2.22	2.78	0.56	19.14		
	3/2/2020				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				NM	5.99	0.00	15.52		
	9/28/2022				NM	3.54	0.00	17.97		
	3/28/2023				NM	3.79	0.00	17.72		
	9/18/2023				NM	5.41	0.00	16.10		
	3/20/2024				NM	2.51	0.00	19.00		
	11/22/2018				21.95	2.0 - 12.0	12.0	NM	4.60	0.00
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	NM	5.54	0.00	16.41						
9/28/2022	NM	4.06	0.00	17.89						
3/28/2023	NM	4.33	0.00	17.62						
9/18/2023	NM	5.51	0.00	16.44						
3/20/2024	NM	3.17	0.00	18.78						
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				NM	5.42	0.00	16.38			
9/28/2022				NM	3.46	0.00	18.34			
3/28/2023				NM	3.77	0.00	18.03			
9/18/2023				NM	4.31	0.00	17.49			
3/19/2024				NM	2.46	0.00	19.34			
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			
9/18/2023	NM	3.52	0.00				16.24			
3/20/2024	1.54	1.57	0.03				18.17			
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			
9/18/2023				NM	2.87	0.00	16.33			
3/20/2024				1.54	1.57	0.03	17.61			
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	NM	4.49	0.00				17.04			
9/18/2023	NM	5.64	0.00				15.89			
3/20/2024	NM	3.08	0.00				18.45			
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			
9/18/2023				NM	2.67	0.00	16.00			
3/20/2024				NM	1.11	0.00	17.56			
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			
9/18/2023	NM	3.76	0.00				15.60			
3/20/2024	NM	1.60	0.00				17.76			

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 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				
	9/18/2023				NM	2.81	0.00	14.19				
	3/20/2024				1.21	1.24	0.03	15.74				
	1.39				1.80	0.41	15.99					
	01589 RW-11				2/26/2019	17.49	1.0-6.0	6.0	not gauged		0.50*	NM
3/11/2019		not gauged		1.30*	NM							
4/25/2019												
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-11A		9/19/2023	NM	5.0-15.0	15.0				NM	NM	0.08	NM
		3/19/2024							NM	0.90	0.00	NM
01589 RW-11B		9/19/2023	NM	5.0-15.0	15.0				NM	NM	0.30	NM
		3/19/2024							NM	5.75	0.00	NM
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				
	9/18/2023				NM	1.08	0.00	15.97				
	3/19/2024				NM	0.10	0.00	16.95				

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 2024
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)							comment	
		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 MW-1	3/20/2024	3,220	7,170	455	2,290	120	59.7	<50.0	<5,000	<50.0	<10,000	<5,000	3,240 J	<500	<500	<2,500	
01589 MW-2	3/20/2024	1,300	558	191	887	65.5	43.4	<12.5	<1,250	<12.5	<2,500	<1,250	3,370	<125	<125	<625	
01589 MW-3	3/19/2024	49.1	<1.0	1.6	5.1	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	124	<10.0	<10.0	<50.0	
01589 MW-4	3/19/2024	<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	3/19/2024	<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-7	3/19/2024	94.1	15.9	15.1	23.4	<1.0	1.6	<1.0	<100	<1.0	<200	<100	204	<10.0	<10.0	<50.0	
01589 MW-8	3/19/2024	0.54 J	<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	3/19/2024	<1.0	<1.0	<1.0	<1.0	0.67 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
01589 MW-10	3/19/2024	<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	3/19/2024	<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	3/20/2024	6.3	<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-13	3/20/2024	6.7	1.8 J	134	218	<2.0	51.7	<2.0	<200	<2.0	<400	<20.0	134 J	<20.0	<20.0	<100	
01589 MW-14	3/19/2024	<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	3/20/2024	1,730	2,690	532	2,480	<25.0	66.8	<25.0	<2,500	<25.0	<5,000	<2,500	1,880 J	<250	<250	<1,250	
01589 MW-16	3/20/2024	<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	3/20/2024	<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	3/20/2024	<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	3/20/2024	<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	3/20/2024	<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	3/19/2024	<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	3/19/2024	<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	
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE	

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

J: Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.
PS: The method-required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Table 2
Groundwater Analytical Data
1st Half 2024
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)							comment	
		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
01589 MW-23	3/19/2024	<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-24	3/19/2024	<1.0	<1.0	<1.0	<1.0	0.45 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
01589 MW-25	3/19/2024	15.2	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
01589 MW-26R	3/19/2024	<1.0	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<100	0.38 J	<200	<100	<100	<10.0	<10.0	<50.0	
01589 MW-27	3/19/2024	<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	3/19/2024	<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-29R	3/19/2024	<1.0	<1.0	<1.0	<1.0	59.6	<1.0	<1.0	<100	0.87 J	<200	159	1,380	6.8 J	11.9	<50.0	
01589 MW-30	3/19/2024	<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	3/19/2024	<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-32	3/20/2024	335	8	46.7	16.5	6.6	12.1	<2.0	<200	<2.0	<400	262	1,560	<20.0	19.9 J	<100	
01589 MW-33	3/19/2024	3,490	13,700	2,120	11,900	<100	347	<100	<10,000	<100	<20,000	<10,000	<10,000	<1,000	<1,000	<5,000	
01589 MW-34	3/20/2024	<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	3/20/2024	<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	3/19/2024	7.1	0.9 J	4	11.5	<1.0	<1.0	<1.0	<100	<1.0	<200	37.1 J	919	<10.0	<10.0	<50.0	
01589 MW-38R	3/19/2024	3.6	<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-1	3/20/2024	<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	3/19/2024	<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	3/19/2024	<1.0	<1.0	<1.0	<1.0	16.8	<1.0	<1.0	<100	0.46 J	<200	<100	<100	3.6 J	3.7 J	<50.0	
01589 DMW-4	3/20/2024	<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	3/20/2024	<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	3/20/2024	8,170	20,800	1,700	12,500	629	297	<125	<12,500	<125	13,400 J	<12,500	13,100	<1,250	<1,250	<6,250	
01589 RW-2	3/20/2024	16,800	39,300	3,260 J	16,700	<5,000	<5,000	<5,000	<500,000	<5,000	3,680,000	<500,000	<500,000	<50,000	<50,000	<250,000	
01589 RW-3	3/20/2024	2,340	4,270	479	1,970	37.1	102	<25.0	<2,500	<25.0	<5,000	<2,500	3,520	<250	<250	<1,250	
01589 RW-4	3/19/2024	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	59.3 J	204	<10.0	<10.0	<50.0	
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE	

Notes:

Units = ug/L

c = Not detected at or above the laboratory reporting limit

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

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

IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.

PS: The method-required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

Table 2
Groundwater Analytical Data
1st Half 2024
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)							comment	
		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-7	3/20/2024	9,850	15,600	1,700	8,890	300	214	<100	<10,000	<100	<20,000	<10,000	19,200	<1,000	<1,000	<5,000	
01589 RW-8	3/20/2024	243	68.5	55.3	408	47.9	29	<2.0	<200	<2.0	<400	185 J	2,450	11.4 J	36.7	<100	
01589 RW-9	3/20/2024	2,400	8,740	1,050	5,430	636	<400	<400	<40,000	<400	1,830,000	<40,000	33,900 J	<4,000	<4,000	<20,000	
01589 RW-12	3/19/2024	550	2,490	540	1,360	9.7 J	43.1	<20.0	<2,000	<20.0	<4,000	<2,000	1,140 J	<200	<200	<1,000	
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE	

Notes:

Units = µg/L

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

RBSL = SCDHEC Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

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

IH: The analyte exceeded secondary source verification criteria high for the initial calibration. Reported results should be considered as estimates.

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

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 (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
01589 MW-38R	3/19/2024	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	9/19/2023	<5.0	<5.0	<5.0	<15.0	122	<25.0	<5.0	<250	2.2 J	<1,000	618	2,710	17.8	30.1	<100
01589 MW-38	3/28/2023	well destroyed														
	9/27/2022	0.5 J	<1.0	<1.0	<1.0	70.5	<1.0	<1.0	<100	1.5	<200	105	58.5 J	10.5	19.5	<50.0
	3/29/2022	33	<1.0	2.1	<1.0	9	<1.0	<1.0	<100	0.33 J	<200	<100	<100	<10.0	<10.0	<50.0
	10/14/2021	4.8	<1.0	2.1	<1.0	25.4	<1.0	<1.0	<100	0.75 J	<200	86.7 J	143	<10.0	8.8 J	<50.0
	4/21/2021	10	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	41.1	<1.0	<1.0	<1.0	3.1	1.5	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	73.6	<1.0	<1.0	2.1	11.2	<1.0	<1.0	<100	<1.0	<200	<100	138	<10.0	<10.0	<50.0
	SSTL	74	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
	01589 DMW-1	3/20/2024	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
9/20/2023	0.65 J	2.6	0.72 J	3	<1.0	2.3 J	<1.0	<1.0	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
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	
9/28/2022	0.44 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
3/29/2022	0.58 J	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
10/13/2021	0.76 J	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
4/22/2021	<1.0	<1.0	<1.0	<1.0	0.43 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
03/03/2020	5.5	1.3	0.95 J	<1.0	0.49 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
07/10/2019	7.1	1.1	1.1	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
11/28/2018	130	16	14	48	12	1.3	<1.0	<20	<1.0	<100	24	190	<10.0	6.5	<5.0	
SSTL	7	6	6	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 DMW-2	3/19/2024	<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
	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	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
	9/27/2022	<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
	3/29/2022	<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
	10/14/2021	<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
	4/21/2021	<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
	03/03/2020	<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
	07/09/2019	<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
	11/28/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 DMW-3	3/19/2024	<1.0	<1.0	<1.0	<1.0	16.8	<1.0	<1.0	<100	0.46 J	<200	<100	<100	3.6 J	3.7 J	<50.0
	9/19/2023	<1.0	<1.0	<1.0	<3.0	8.6	<5.0	<1.0	<50.0	0.32 J	<200	<20.0	17.5 J	2	<2.0	<20.0
	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
	9/27/2022	<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
	3/29/2022	<1.0	<1.0	<1.0	<1.0	0.72 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	10/15/2021	0.48 J	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	4/22/2021	<1.0	<1.0	<1.0	<1.0	0.31 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	03/03/2020	<1.0	<1.0	<1.0	<1.0	0.31 J	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0
	07/09/2019	<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
	11/29/2018	<1.0	1.2	<1.0	0.66 J	<1.0	<1.0	<1.0	<20	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	
01589 DMW-4	3/20/2024	<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
	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	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
	9/27/2022	<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
	3/30/2022	<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
	10/15/2021	<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
	4/21/2021	<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
	03/04/2020	<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
	07/10/2019	<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
	SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--
01589 DMW-5	3/20/2024	<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
	9/19/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	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
	9/27/2022	<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
	3/30/2022	<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
	10/15/2021	<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
	4/21/2021	<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
	03/04/2020	<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
07/10/2019	<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	
SSTL	5	5	5	10	5	5	--	--	--	1,000	100	100	--	100	--	

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 (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	
01589 RW-1	3/20/2024	8,170	20,800	1,700	12,500	629	297	<125	<12,500	<125	13,400 J	<12,500	13,100	<1,250	<1,250	<6,250	
	9/20/2023	7,990	22,200	1,630	9,270	268 J	<2,500	<500	<25,000	<500	<100,000	<10,000	3,860 J	<1,000	<1,000	<10,000	
	3/28/2023	0.03 feet of free product															
	9/28/2022	0.3 feet of free product															
	3/30/2022	9,810	17,500	840	5,020	1,310	<200	<200	<20,000	<200	105,000	<20,000	20.5	<2,000	<2,000	<10,000	
	10/13/2021	0.07 feet of free product															
	4/20/2021	0.13 feet of free product															
	03/04/2020	0.81 feet of free product															
	07/10/2019	12,300	27,900	1,700	11,800	1,400	283	<200	<20,000	<200	<40,000	<20,000	<20,000	<2,000	<2,000	<10,000	
	11/28/2018	20,000	47,000	2,100	10,000	3,400	<500	<500	<10,000	<500	<50,000	5,100 J	34,000	<5,000	750	<2,500	
	01589 RW-2	3/20/2024	16,800	39,300	3,260 J	16,700	<5,000	<5,000	<5,000	<500,000	<5,000	3,680,000	<500,000	<500,000	<50,000	<50,000	<250,000
9/20/2023		6,950	17,400	1,410	6,300	989	<2,500	<500	<25,000	<500	68,000,000	<10,000	26,300	<1,000	<1,000	<10,000	
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	
9/28/2022		2,740	6,050	411	2,190	166	128	<50.0	<5,000	<50.0	47,200	<5,000	<5,000	<500	<500	<2,500	
3/30/2022		3,170	14,100	1,430	7,400	<500	<500	<500	<50,000	<500	3,850,000	<50,000	<50,000	<5,000	<5,000	<25,000	
10/13/2021		14,700	41,400	3,620 J	18,000	<10,000	<10,000	<10,000	<1,000,000	<10,000	61,100,000	<1,000,000	<1,000,000	<100,000	<100,000	<500,000	
4/20/2021		0.06 feet of free product															
03/04/2020		0.56 feet of free product															
07/08/2019		0.18 feet of free product															
11/28/2018		21,000	54,000	3,200	17,000	2,200	430J	<500	<10,000	<500	<50,000	13,000	31,000	<5,000	760	<2,500	
3/20/2024		2,340	4,270	479	1,970	37.1	102	<25.0	<2,500	<25.0	<5,000	<2,500	3,520	<250	<250	<1,250	
01589 RW-3	9/20/2023	662	406	199	751	<10.0	42.5 J	<10.0	<500	<10.0	<2,000	<200	517	7.5 J	<20.0		
	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	
	9/28/2022	5,890	28,700	3,510	21,300	117 J	396	<200	<20,000	<200	<40,000	<20,000	22,100	<2,000	<2,000	<10,000	
	3/30/2022	10,500	29,400	2,150	11,900	274	318	<200	<20,000	<200	<40,000	<20,000	23,100	<2,000	<2,000	<10,000	
	10/13/2021	8,420	24,900	1,760	14,700	198	403	<125	<12,500	<125	<25,000	<12,500	13,700	<1,250	<1,250	<6,250	
	4/20/2021	0.06 feet of free product															
	03/04/2020	0.56 feet of free product															
	07/08/2019	1.56 feet of free product															
	11/28/2018	15,000	41,000	2,800	15,000	530	360J	<500	<10,000	<500	<50,000	<10,000	21,000	<5,000	<500	<2,500	
	01589 RW-4	3/19/2024	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	59.3 J	204	<10.0	<10.0	<50.0
		9/20/2023	29.8	<1.0	<1.0	1.1 J	<1.0	<5.0	<1.0	18.4 JB	<1.0	<200	<20.0	19.9 J	<2.0	<2.0	<20.0
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	
9/28/2022		11.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<400	<4.0	<800	<400	<400	<40.0	<40.0	<200	
3/30/2022		0.93 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
10/13/2021		0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
4/22/2021		0.8 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
03/04/2020		1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
07/10/2019		3.3	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<100	<1.0	<200	<100	<100	<10.0	<10.0	<50.0	
11/28/2018		15	5.6	2.8	6.9	<1.0	<1.0	<1.0	<20	<1.0	<100	<20	77	<10	<10	<5.0	
		SSTL	3	5	5	10	5	5	--	--	1,000	100	100	--	100	--	
01589 RW-5	3/20/2024	0.03 feet of free product															
	9/20/2023	1,170	1,700	549	2,770	552	80.7 J	<20.0	<1,000	<20.0	<4,000	<400	13,500	40	<40.0	<400	
	3/28/2023	0.22 feet of free product															
	9/28/2022	0.2 feet of free product															
	3/30/2022	0.04 feet of free product															
	10/13/2021	0.13 feet of free product															
	4/20/2021	0.75 feet of free product															
	03/04/2020	2.52 feet of free product															
	07/08/2019	1.64 feet of free product															
	11/28/2018	0.36 feet of free product															
	01589 RW-6	3/20/2024	0.03 feet of free product														
9/20/2023		550	1,110	182	2,190	108	67.8 J	<20.0	<1,000	<20.0	<4,000	<400	3,040	18.4 J	<40.0	<400	
3/28/2023		0.59 feet of free product															
9/28/2022		0.3 feet of free product															
3/30/2022		0.01 feet of free product															
10/13/2021		1.19 feet of free product															
4/20/2021		0.37 feet of free product															
03/04/2020		1.67 feet of free product															
07/08/2019		2 feet of free product															
11/28/2018		1.67 feet of free product															
01589 RW-7		3/20/2024	9,850	15,600	1,700	8,890	300	214	<100	<10,000	<100	<20,000	<10,000	19,200	<1,000	<1,000	<5,000
	9/20/2023	2,810	7,810	853	6,620	468	111 J	<100	<5,000	<100	<20,000	<2,000	24,000	35.3 J	<200	<2,000	
	3/28/2023	8,830	13,400	757	6,880	266	154	<125	<12,500	<125	<25,000	<12,500	26,100	<1,250	<1,250	<6,250	
	9/28/2022	12,300	23,800	1,250	11,600	229	179 J	<200	<20,000	<200	<40,000	<20,000	22,300	<2,000	<2,000	<10,000	
	3/30/2022	14,600	24,100	1,130	9,820	447	228	<200	<20,000	<200	<40,000	<20,000	26,500	<2,000	<2,000	<10,000	
	10/13/2021	0.12 feet of free product															
	4/20/2021	0.2 feet of free product															
	03/04/2020	0.16 feet of free product															
07/08/2019	0.45 feet of free product																

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 (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
01589 RW-8	3/20/2024	243	69	55	408	48	29	<2.0	<200	<2.0	<400	185 J	2,450	11.4 J	37	<100
	9/20/2023	88	117	44	410	<5.0	30	<5.0	<250	<5.0	<1,000	85.6 J	1,020	4.7 J	17	<100
	3/29/2023	894	1,250	339	2,980	62	85	<10.0	<1,000	<10.0	<2,000	438 J	6,410	<100	36.6 J	<500
	9/28/2022	3,050	4,360	881	6,290	136	140	<25.0	<2,500	<25.0	<5,000	738 J	12,400	<250	<250	<1,250
	3/30/2022	1,580	3,630	396	4,170	62.3	187	<20.0	<2,000	<20.0	<4,000	<2,000	3,900	<200	<200	<1,000
	10/14/2021	878	1,970	529	2,680	25.2	168	<20.0	<2,000	<20.0	<4,000	<2,000	2,360	<200	<200	<1,000
	4/20/2021	0.53 feet of free product														
	03/04/2020	1,690	3,550	587	2,570	48	103	<25.0	<2,500	<25.0	<5,000	<2,500	3,900	<250	<250	<1,250
07/08/2019	0.3 feet of free product															
01589 RW-9	3/20/2024	2400	8,740	1050	5,430	636	<400	<400	<40,000	<400	1830000	<40,000	33,900 J	<4,000	<4,000	<20,000
	9/20/2023	567	1,580	192	1,300	395	40.1 J	<20.0	<1,000	<20.0	2,440 J	<400	7,200	13.1 J	<40.0	<400
	3/29/2023	0.13 feet of free product														
	9/28/2022	0.12 feet of free product														
	3/30/2022	2,760	5,890	459	2,450	714	69.7	<50.0	<5,000	<50.0	233,000	2,240 J	19,200	<500	204 J	<2,500
	10/14/2021	0.06 feet of free product														
	4/20/2021	0.12 feet of free product														
	03/04/2020	13,600	31,200	2,460	12,500	2,250	446	<200	<20,000	<200	831,000	10,200 J	82,800	<2,000	<2,000	<10,000
07/08/2019	0.86 feet of free product															
01589 RW-10	3/20/2024	0.03 feet of free product														
	9/20/2023	436	1,610	294	1,270	<20.0	29.0 J	<20.0	<1,000	<20.0	<4,000	<400	787	<40.0	<40.0	<400
	3/29/2023	0.02 feet of free product														
	9/28/2022	6,420	17,100	1,390	7,390	95.3 J	329	<125	<12,500	<125	<25,000	<12,500	22,400	<1,250	<1,250	<6,250
	3/30/2022	0.02 feet of free product														
	10/14/2021	0.01 feet of free product														
	4/20/2021	0.22 feet of free product														
	03/04/2020	0.57 feet of free product														
07/08/2019	1.37 feet of free product															
01589 RW-11A	3/19/2024	heavy sheen of free product (< 0.01 ft.)														
9/19/2023	emulsified product, est. thickness 0.1 ft.															
01589 RW-11B	3/19/2024	heavy sheen of free product (< 0.01 ft.)														
9/19/2023	emulsified product, est. thickness 0.25 ft.															
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	3/19/2024	550	2,490	540	1,360	9.7 J	43.1	<20.0	<2,000	<20.0	<4,000	<2,000	1,140 J	<200	<200	<1,000
	9/19/2023	659	6,900	1,050	9,410	<100	104 J	<100	<5,000	<100	112,000	<2,000	800	<200	<200	<2,000
	3/29/2023	2,190	11,800	1,160	11,100	<100	277	<100	<10,000	<100	<20,000	<10,000	<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 = ug/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 2024
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
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-12	3/20/2024	<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	3/20/2024	<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 = 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-16 was not accessible for this sample period

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
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

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 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-12	3/20/2024	<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
	9/20/2023	<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
	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	3/20/2024	<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
	9/20/2023	<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
	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	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-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	3/20/2024	well was not accessible for sampling														
	9/20/2023	well was not accessible for sampling														
	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 = 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 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-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 = 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 6
Surface Water Analytical Data
1st Half 2024
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
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 SW-1	3/19/2024	<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-2	3/20/2024	<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-3	3/20/2024	<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-4	3/19/2024	<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-5	3/19/2024	<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-6	3/19/2024	<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	3/19/2024	<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	3/19/2024	<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	3/19/2024	<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
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

Notes:

Units = µg/L

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

RBSL = Risk Based Screening Level

Bold concentrations equal or exceed the corresponding RBSL

NE = Not established

Table 7
Historical Surface Water Results
Circle K # 2720886
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
UST Permit # 01589

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes,T,dai	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 formalde
RBSL		5	1,000	700	10,000	40	25	5	NE	150	10,000	1,400	240	128	47	NE
01589 SW-7	3/19/2024	<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
	9/20/2023	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<1.0	<50.0	<1.0	<200	<20.0	<20.0	<2.0	<2.0	<20.0
	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
	9/28/2022	<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
	3/30/2022	<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
	10/14/2021	<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
	04/22/2021	<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
	03/06/2020	<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
11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0	
01589 SW-8	3/19/2024	<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
	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	<25.0	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
	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
	9/28/2022	<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
	3/30/2022	<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
	10/14/2021	<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
	04/22/2021	<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
	03/06/2020	<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
11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0	
01589 SW-9	3/19/2024	<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
	9/20/2023	<5.0	<5.0	<5.0	<15.0	<5.0	5.2 J	<5.0	<250	<5.0	<1,000	<100	<100	<10.0	<10.0	<100
	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
	9/28/2022	<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
	3/30/2022	<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
	10/14/2021	<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
	04/22/2021	<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
	03/06/2020	<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
11/30/2018	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<20.0	<1.0	<100	<20.0	<20.0	<10.0	<1.0	<5.0	

Units = µg/L
 c = Not detected at or above the laboratory reporting limit
 RBSL = 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	
Precision Analysis																
Precision Limit (RPD %)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
01589 MW-3	3/19/24 @ 1649	49.1	<1.0	1.6	5.1	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	124	<10.0	<10.0	<50.0
01589 DUP-1	3/19/24 @ 1651	45.9	<1.0	1.2	4.2	<1.0	<1.0	<1.0	<100	<1.0	<200	<100	73.6	<10.0	<10.0	<50.0
RPD (%)		7%	---	29%	19%	---	---	---	---	---	---	---	51%	---	---	---
01589 MW-32	3/20/24 @ 0949	335	8	46.7	16.5	6.6	12.1	<2.0	<200	<2.0	<400	262	1,560	<20.0	19.9	<100
01589 DUP-2	3/20/24 @ 0951	319	9.2	47.6	18.2	<2.0	12.8	<2.0	<200	<2.0	<400	271	1,100	<20.0	24.2	<100
RPD (%)		5%	14%	2%	10%	---	6%	---	---	---	---	3%	35%	---	20%	---
01589 MW-36	3/19/24 @ 1640	7.1	0.9	4	11.5	<1.0	<1.0	<1.0	<100	<1.0	<200	37.1	919.0	<10.0	<10.0	<50.0
01589 DUP-3	3/19/24 @ 1643	6.5	1.1	4.1	12.2	<1.0	<1.0	<1.0	<100	<1.0	<200	41.9	852	<10.0	<10.0	<50.0
RPD (%)		9%	20%	2%	6%	---	---	---	---	---	---	12%	8%	---	---	---
Bias Analysis																
01589 FB-1	3/19/2024	<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	3/20/2024	<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 Blank 1	3/20/2024	<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 Blank 2	3/20/2024	<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 Blank 2	3/27/2024	<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
Method Sensitivity																
Sensitivity Limits (GW - ug/L)		5	5	5	5	5	10	5	100	10	1,000	100	100	100	100	100
01589 MW-1	3/20/2024	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-2	3/20/2024	4.3	6.1	3.8	4.2	5.3	8.1	4	649	3.8	2,500	335	455	33.2	40.5	368
01589 MW-3	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-4	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-5	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-7	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-8	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-9	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-10	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-11	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-12	3/20/2024	1.4	1.9	1.2	1.4	1.7	2.6	1.3	208	1.2	289	107	146	10.6	13	118
01589 MW-13	3/20/2024	0.69	0.97	0.61	0.68	0.84	1.3	0.64	104	0.62	144.0	53.6	72.8	5.3	6.5	58.8
01589 MW-14	3/19/2024	0.34	0.5	0.3	0.34	0.42	0.6	0.32	52	0.31	72	26.8	36.4	2.7	3.2	29.4
01589 MW-15	3/20/2024	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
01589 MW-16	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-17	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-18	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-19	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4
01589 MW-20	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4

Units = ug/L

*< = 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	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-22	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-23	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-24	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-25	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-26R	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-27	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-28	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-29R	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-30	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-31	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-32	3/20/2024	0.69	0.97	0.61	0.68	0.84	1.3	0.64	104	0.62	144	53.6	72.8	5.3	6.5	58.8	2 x dilution required
01589 MW-33	3/19/2024	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 required
01589 MW-34	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-35	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-36	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 MW-38R	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-1	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-2	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-3	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-4	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 DMW-5	3/20/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 RW-1	3/20/2024	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 required
01589 RW-2	3/20/2024	1,720	2,420	1,520	1,690	2,110	3,220	1,610	260,000	1,540	361,000	134,000	182,000	13,300	16,200	147,000	5,000 x dilution required
01589 RW-3	3/20/2024	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 required
01589 RW-4	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 RW-7	3/20/2024	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 required
01589 RW-8	3/20/2024	0.69	0.97	0.61	0.68	0.84	1.3	0.64	104	0.62	144	53.6	72.8	5.3	6.5	58.8	2 x dilution required
01589 RW-9	3/20/2024	138	194	122	135	169	258	129	20,800	123	28,900	10,700	14,600	1,060	1,300	11,800	400 x dilution required
01589 RW-12	3/19/2024	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	20 x dilution required

Units = ug/L

*< = 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																	
Precision Limit (RPD %)		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
01589 WSW-12	3/20/2024 @ 1720	<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	no detections
01589 DUP-1	3/20/2024 @ 1722	<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	
RPD (%)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Bias Analysis																	
TRIP BLANK	–	<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	no errors indicated
01589 WSW-FB	3/20/2024	<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	no errors indicated
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 WSW-12	3/20/2024	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	3/20/2024	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

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	3/19/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-2	3/20/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-3	3/20/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-4	3/19/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-5	3/19/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-6	3/19/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-7	3/19/2024	0.34	0.48	0.30	0.34	0.42	0.6	0.32	51.9	0.31	72	26.8	36.4	2.70	3.20	29.4	
01589 SW-8	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	
01589 SW-9	3/19/2024	0.34	0.48	0.3	0.34	0.42	0.6	0.32	51.9	0.31	72.2	26.8	36.4	2.7	3.2	29.4	

Notes:
Units = µg/L
NE = not established

Table 11
Calculation of COC Reduction
1st Half 2024
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-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	0	37,152.00	-----	-----
		Initial > SSTL	17,694	39,076	1,421	0	1,799	0	0	0	0	0	0	-----	59,990.00	-----
	3/20/24	Subsequent	3,220	7,170	455	2,290	120	59	3,240	0	0	0	0	16,554.00	-----	-----
		SSTL	6	1,324	869	11,400	51	28	295	1,526	21,596	57	0	37,152.00	-----	-----
		Subsequent > SSTL	3,214	5,846	0	0	69	31	2,945	0	0	0	-----	-----	12,105.00	
01589 MW-2	Initial	Initial	10,000	21,600	1,690	9,250	559	236	16,200	0	0	0	0	59,535.00	-----	-----
		SSTL	5	1,144	775	9,250	45	26	264	1,453	14,610	51	0	27,623.00	-----	-----
		Initial > SSTL	9,995	20,456	915	0	514	210	15,936	0	0	0	0	-----	48,026.00	-----
	3/20/24	Subsequent	1,300	558	191	887	65.5	43.4	3,370	0	0	23	0	6,437.90	-----	-----
		SSTL	5	1,144	775	9,250	45	26	264	1,453	14,610	51	0	27,623.00	-----	-----
		Subsequent > SSTL	1,295	0	0	0	21	17	3,106	0	0	0	-----	-----	4,438.90	
01589 MW-3	Initial	Initial	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	0	1,335.00	-----	-----
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.000	-----
	3/19/24	Subsequent	49.1	0	1.8	5.1	0	0	124	0	0	0	0	180.00	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	0	1,335.00	-----	-----
		Subsequent > SSTL	44	0	0	0	0	24	0	0	0	0	-----	-----	68.100	
01589 MW-4	Initial	Initial	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	0	1,335.00	-----	-----
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
	3/19/24	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	0	1,335.00	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-5	Initial	Initial	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	0	1,335.00	-----	-----
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
	3/19/24	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	0	1,335.00	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-6 (1)	Initial	Initial	16,400	28,900	2,190	8,920	1,990	272	42,200	5,410	0	0	0	106,282.00	-----	-----
		SSTL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	0	57,986.00	-----	-----
		Initial > SSTL	16,388	25,191	185	0	1,859	226	41,542	3,027	0	0	0	-----	88,418.00	-----
	9/20/23	Subsequent	1,830	4,070	337	4,130	459	189	11,700	1,500	0	0	0	24,215.00	-----	-----
		SSTL	12	3,709	2,005	8,920	131	46	658	2,383	40,000	122	0	57,986.00	-----	-----
		Subsequent > SSTL	1,818	361	0	0	328	143	11,042	0	0	0	-----	-----	13,692.00	
01589 MW-7	Initial	Initial	9,210	34,100	2,390	12,700	0	271	0	0	0	0	0	58,671.00	-----	-----
		SSTL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	0	68,703.00	-----	-----
		Initial > SSTL	9,189	25,600	0	0	0	204	0	0	0	0	0	-----	34,993.00	-----
	3/19/24	Subsequent	94.1	15.9	15.1	23.4	0	1.6	204	0	0	0	0	354.10	-----	-----
		SSTL	21	8,500	2,390	12,700	200	67	1,247	3,356	40,000	222	0	68,703.00	-----	-----
		Subsequent > SSTL	73	0	0	0	0	0	0	0	0	0	-----	-----	73.10	
01589 MW-8	Initial	Initial	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	0	1,335.00	-----	-----
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
	3/19/24	Subsequent	0.54	0	0	0	0	0	0	0	0	0	0	0.54	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	0	1,335.00	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	
01589 MW-9	Initial	Initial	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	0	1,335.00	-----	-----
		Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
	3/19/24	Subsequent	0	0	0	0	0.67	0	0	0	0	0	0	0.67	-----	-----
		SSTL	5	5	5	10	5	5	100	100	1,000	100	0	1,335.00	-----	-----
		Subsequent > SSTL	0	0	0	0	0	0	0	0	0	0	-----	-----	0.00	

Table 11
Calculation of COC Reduction
1st Half 2024
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	403	0	0	0	0	0	988	0	0	0	0	1,391.10	-----	-----
		Subsequent	6.3	0.0	0.0	0.0	0	0	0	0	0	0	0	6.30	-----	-----
		Subsequent > SSTL	7	13	47	25	10	9	382	250	1,000	26	1,769.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	24	0	0	0	0	134	0	0	0	0	0	158.20	-----	-----
		Subsequent	6.7	1.8	134	218	0	51.7	134	0	0	0	0	546.20	-----	-----
		Subsequent > SSTL	7	20	490	1,630	5	30	334	500	1,000	100	4,116.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.10	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent > SSTL	5	5	5	10	5	4	100	100	1,000	100	1,334.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	2,833	6,376	112	0	0	91	6,568	0	0	0	0	15,980.00	-----	-----
		Subsequent	1,730	2,690	532	2,480	0	66.8	1,880	0	0	10	9,388.80	-----	-----	
		Subsequent > SSTL	7	1,534	870	4,850	50	29	382	1,758	10,000	73	19,553.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	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	-----	-----	
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	1,335.00	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	-----	

Table 11
Calculation of COC Reduction
1st Half 2024
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	-----	-----
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.000	-----
		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	1,335.000	-----	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	-----	-----
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		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	1,335.000	-----	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	-----	-----
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		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	1,335.000	-----	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	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	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	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		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-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	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	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-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	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	0	0	0	0	0.45	0	0	0	0	0	0	0.45	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	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	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----
		Subsequent	15.2	0	0	0	2.5	0	0	0	0	0	0	18	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	10.20

Table 11
Calculation of COC Reduction
1st Half 2024
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-26R	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	100	1,335.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
		Subsequent	0	0	0	0	4.3	0	0	0	0	0	0	4.30	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	100	1,335.00	-----	-----
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	100	1,335.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
		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	100	1,335.00	-----	-----
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	100	1,335.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
		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	100	1,335.00	-----	-----
01589 MW-29R	Initial	Initial	2.2	0	0	0	7.4	0	0	0	0	0	0	9.60	-----	-----
		SSTL	5	5	5	10	7	5	100	100	1,000	100	100	1,337.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.40	-----
		Subsequent	0	0	0	0	59.6	0	1,380	159	0	11.9	0	1,611	-----	-----
		Subsequent > SSTL	5	5	5	10	7	5	100	100	1,000	100	100	1,337.00	-----	1,391.60
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	100	1,335.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	100	1,335.00	-----	-----
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	100	1,335.00	-----	-----
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	-----	0.00	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	100	1,335.00	-----	-----
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	100	1,646.00	-----	-----
	3/20/24	Initial > SSTL	293	0	0	0	0	0	0	0	0	0	0	-----	293.80	-----
		Subsequent	335	8	46.7	16.5	6.6	12.1	1,560	262	0	19.9	0	2,247	-----	-----
		Subsequent > SSTL	13	9	10	17	11	2	284	200	1,000	100	100	1,646.00	-----	-----
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	0	40,182.00	-----	-----
	3/19/2024	Initial > SSTL	4,174	11,995	1,001	0	1	330	0	0	0	0	0	-----	17,500.50	-----
		Subsequent	3,490	13,700	2,120	11,900	0	347	0	0	0	0	0	31,557	-----	-----
		Subsequent > SSTL	6	1,205	759	11,013	57	26	265	1,795	25,000	56	0	40,182.00	-----	-----
		Subsequent > SSTL	3,484	12,495	1,361	887	0	321	0	0	0	0	-----	-----	18,548.00	

Table 11
Calculation of COC Reduction
1st Half 2024
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
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	-----	-----	
	3/19/2024	Initial > SSTL	9	0	0	0	0	0	0	0	0	0	0	8.50	-----	-----
		Subsequent	7.1	0.9	4	11.5	0	0	919	37.1	0	0	0	980	-----	-----
		Subsequent > SSTL	6	102	113	223	5	13	148	100	1,000	100	1,810.00	-----	-----	
01589 MW-37R (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	-----	-----	
	9/19/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
01589 MW-38R	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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	38	0	0	0	0	0.20	-----	-----
		Subsequent	3.6	0	0	0	0	0	0	0	0	0	0	4	-----	-----
		Subsequent > SSTL	74	5	5	2	11	5	100	100	1,000	100	1,402.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.10	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	7	6	6	10	5	5	100	100	1,000	100	1,339.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	16.8	0	0	0	0	0	3.7	21	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	

Table 11
Calculation of COC Reduction
1st Half 2024
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	5	5	5	10	5	5	100	100	1,000	100	1,335.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	14	0	0	0.0	0	0	204	59.3	0	0	277	-----	-----	
		Subsequent > SSTL	3	5	5	10	5	5	100	100	1,000	100	1,333.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	4,355	5,266	0	0	191	144	4,766	0	0	0	9,956.00	-----	-----	
		Subsequent	550	2,400	540	1,360	9.7	43.1	1,140	0	0	0	6,043	-----	-----	
		Subsequent > SSTL	5	1,144	556	5,080	45	26	264	1,453	10,000	51	18,624.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
01589 WSW16 (3)	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	-----	-----	
	3/28/23	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > SSTL	0.5	0.5	0.5	0.5	5	2	100	100	1,000	100	1,309.00	-----	-----	
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		Subsequent	0	0	0	0	0	0	0	0	0	0	0	0	-----	-----
		Subsequent > 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	0.00	-----	-----	

Table 11
Calculation of COC Reduction
1st Half 2024
Circle K 2720886
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UST Permit # 01589

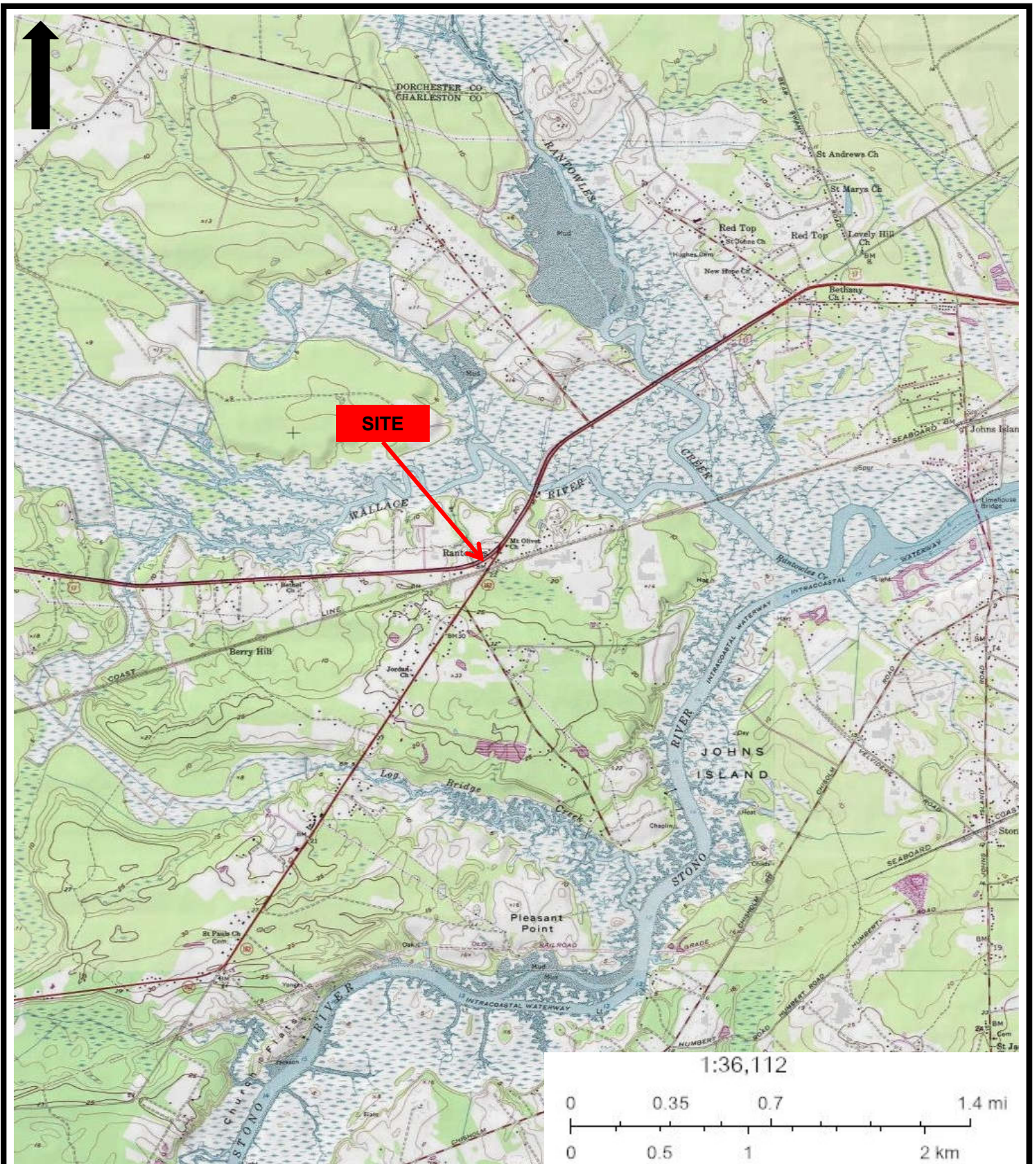
Well ID	Date Sampled	Condition	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	tert-Amyl Alcohol	tert-Butyl Alcohol	Ethanol	Ethyl tert-Butyl Ether	Total Concentration	Initial Concentration > SSTL Mass	Subsequent Concentration > SSTL Mass	
01589 SW02	Initial	Initial	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----	
		SSTL	2	2	2	6	5	2	100	100	1,000	100	1,319.00	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	-----	-----	
	3/20/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	0.00		
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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	-----	-----	
	3/19/24	Initial > SSTL	0	0	0	0	0	0	0	0	0	0	0	0.00	-----	-----
		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	-----	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	47,958.20
	82.67%

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 9/23 are utilized
2. for MW-37, since this well was inaccessible, values from 9/23 are utilized
3. for WSW-16, due the inability to access this well, dissolved COC levels from 3/23 are utilized

FIGURES



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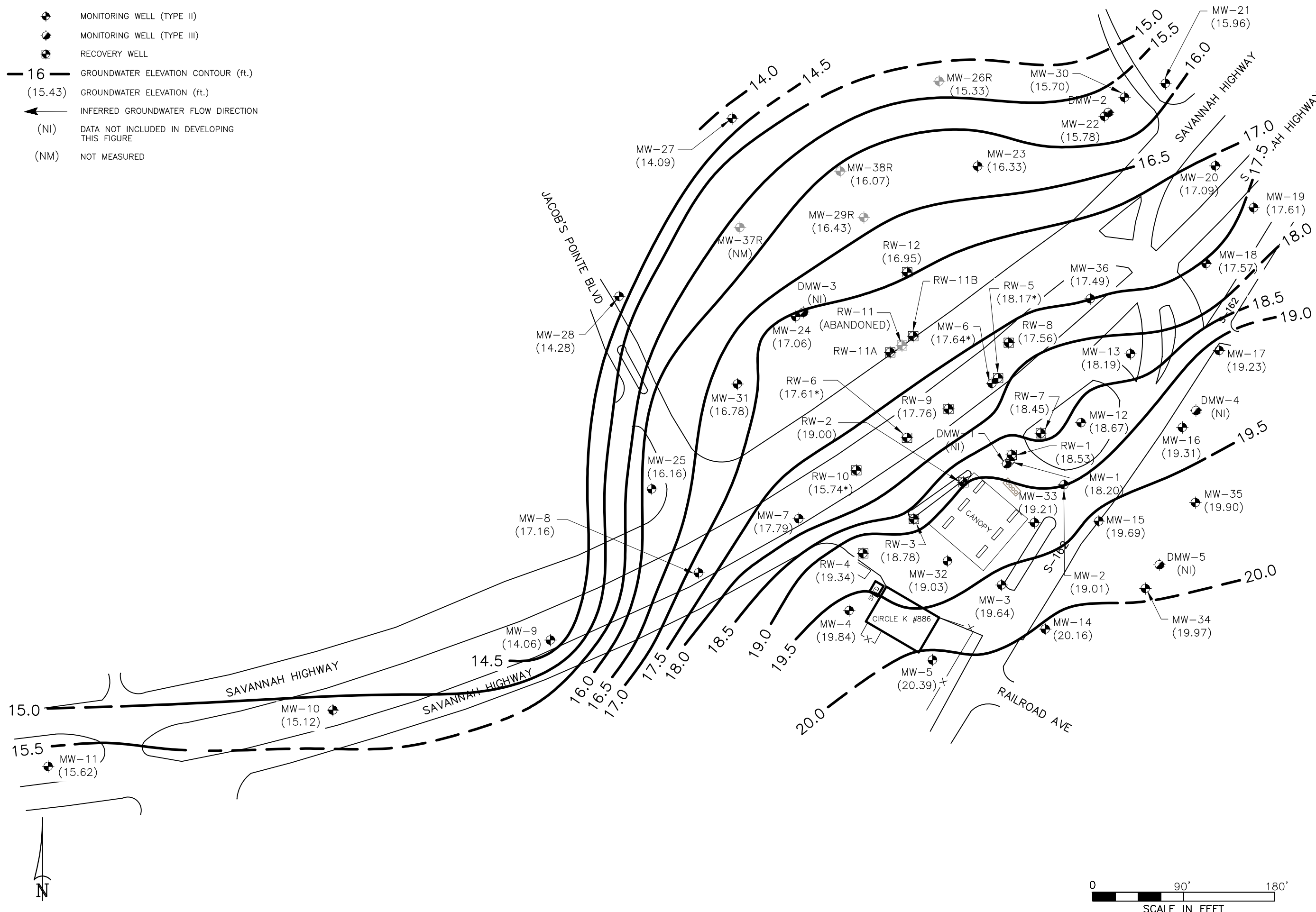
**FIGURE 1
 SITE LOCATION MAP**

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

- ◆ MONITORING WELL (TYPE II)
- ◆ MONITORING WELL (TYPE III)
- RECOVERY WELL
- 16 — GROUNDWATER ELEVATION CONTOUR (ft.)
(15.43) 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

UST PERMIT #01589	
TITLE FIGURE 3	
POTENTIOMETRIC SURFACE MAP - SHALLOW WELLS	
CIRCLE K #2720886	
4315 SAVANNAH HIGHWAY	
RAVENEL, SOUTH CAROLINA	
CAD FILE 1252215.dwg	TYPE CODE BH
PREP. BY BH	REV. BY
SCALE 1"=90'	DATE 05-03-2024
SCALE	PROJECT NO. 257CK88613

NOTES:
1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.

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

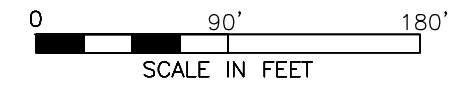
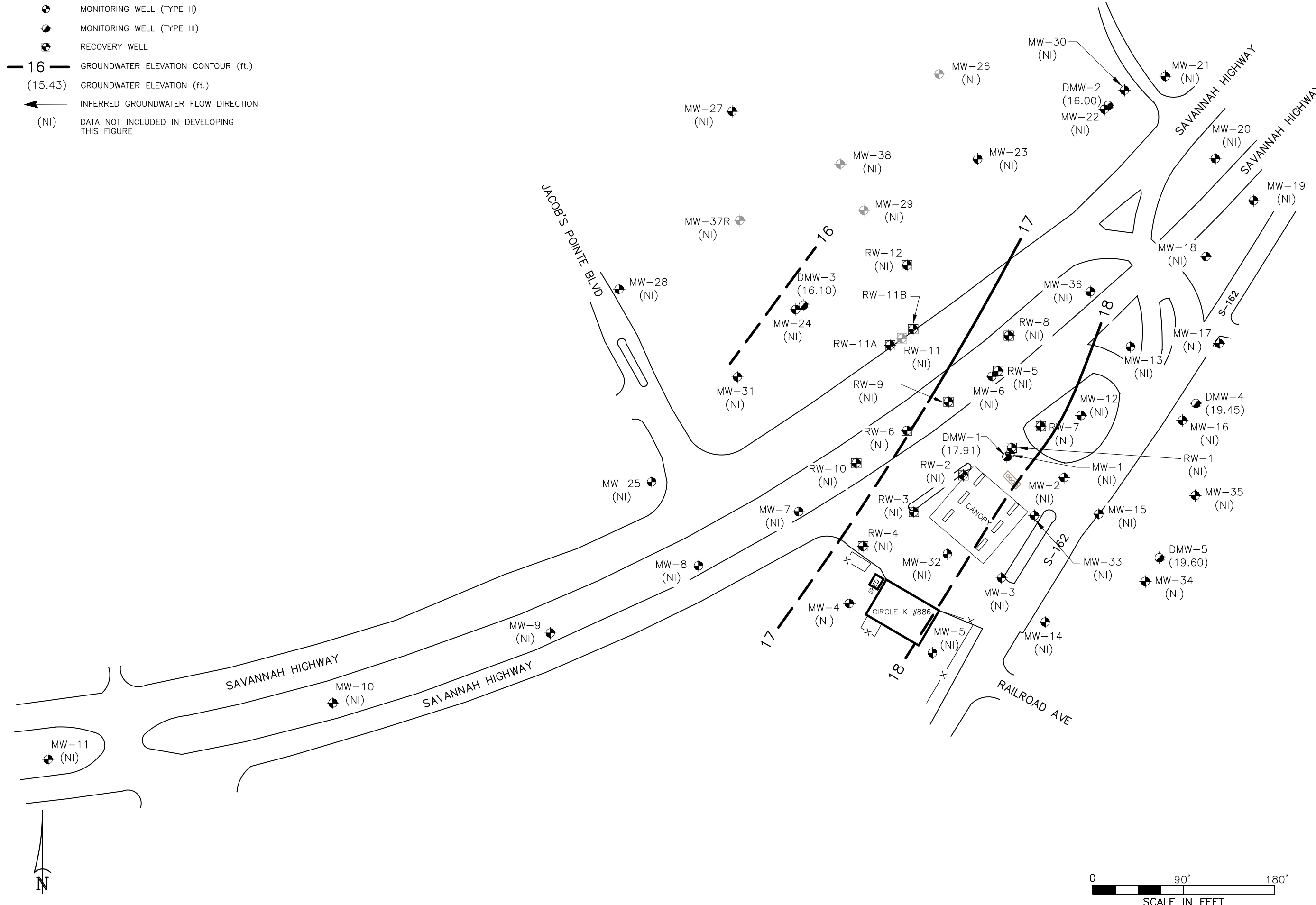












FIGURE 4
 POTENTIOMETRIC SURFACE MAP - DEEP WELLS
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY	
SCALE	1"=90'	DATE	05-03-2024	PROJECT NO.	257CK88613		

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED BENZENE >16,000 ug/L
-  DISSOLVED BENZENE 1,000-10,000 ug/L
-  DISSOLVED BENZENE 100-1,000 ug/L
-  DISSOLVED BENZENE 1-100 ug/L
-  DETECTABLE FREE PRODUCT
-  NO SAMPLE COLLECTED
-  SAMPLE NOT ANALYZED

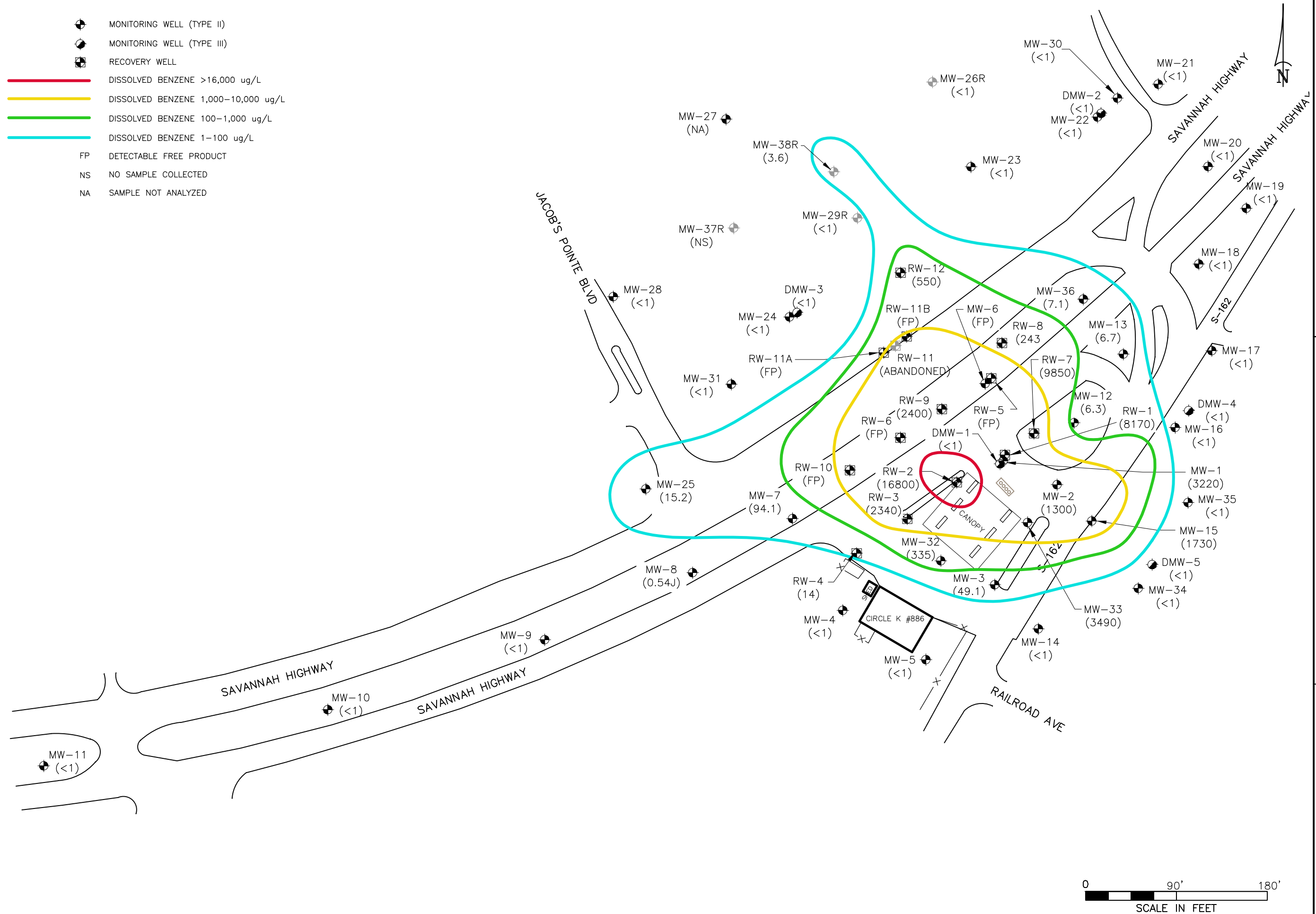


FIGURE 5
 BENEZENE ISOPLETH MAP FOR GROUNDWATER - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

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CAD FILE 1252215.dwg

TYPE CODE

PREP. BY BH

REV. BY

SCALE 1"=90'

DATE 05-03-2024

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
- NS NO SAMPLE COLLECTED
- NA SAMPLE NOT ANALYZED

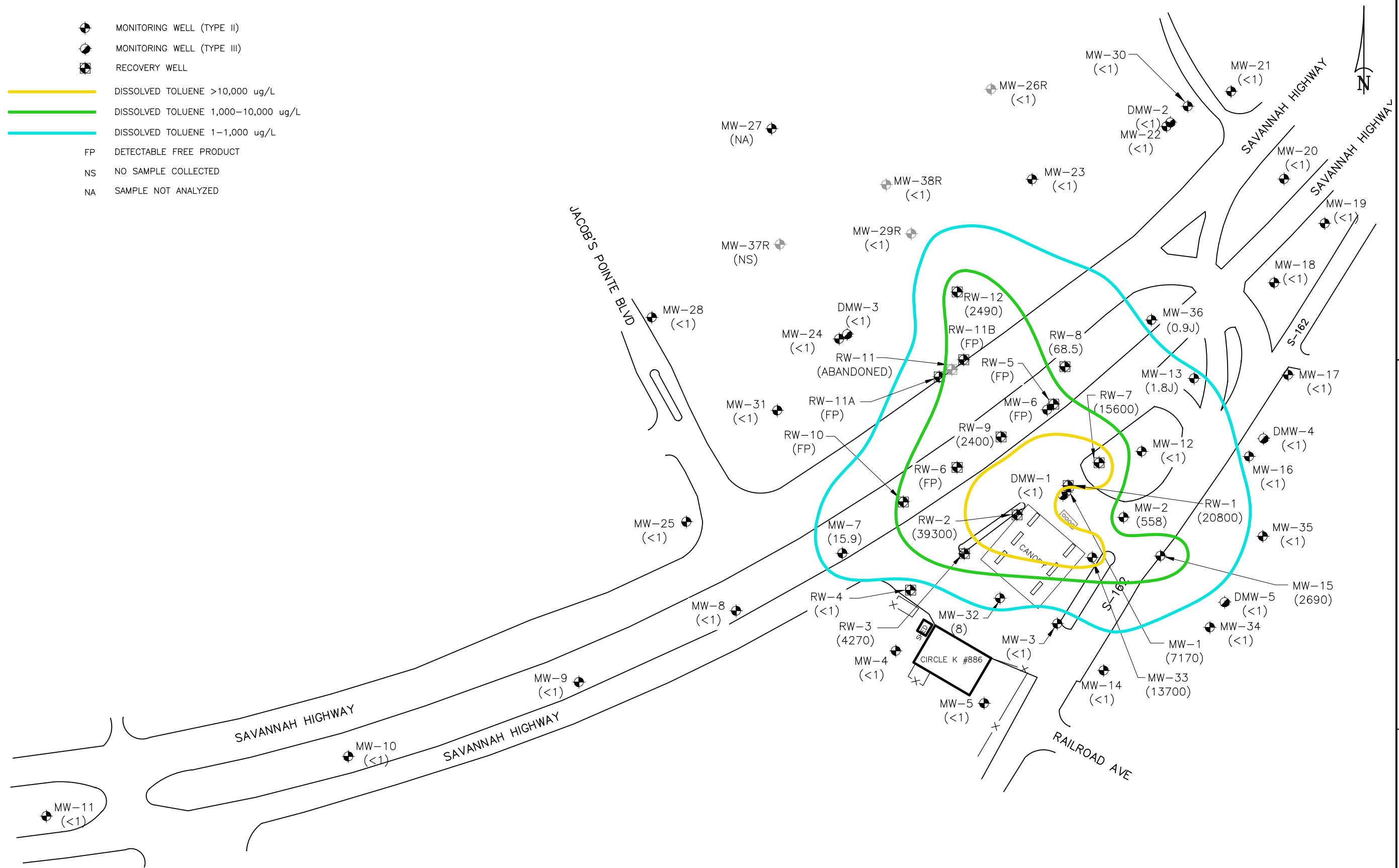


FIGURE 6
 TOLUENE ISOPLETH MAP FOR GROUNDWATER - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

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CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	05-03-2024	PROJECT NO.	257CK88613
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- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III)
- RECOVERY WELL
- DISSOLVED ETHYLBENZENE >1000 ug/L
- DISSOLVED ETHYLBENZENE 100-1000 ug/L
- DISSOLVED ETHYLBENZENE 1-100 ug/L
- FP DETECTABLE FREE PRODUCT
- NS NO SAMPLE COLLECTED
- NA SAMPLE NOT ANALYZED

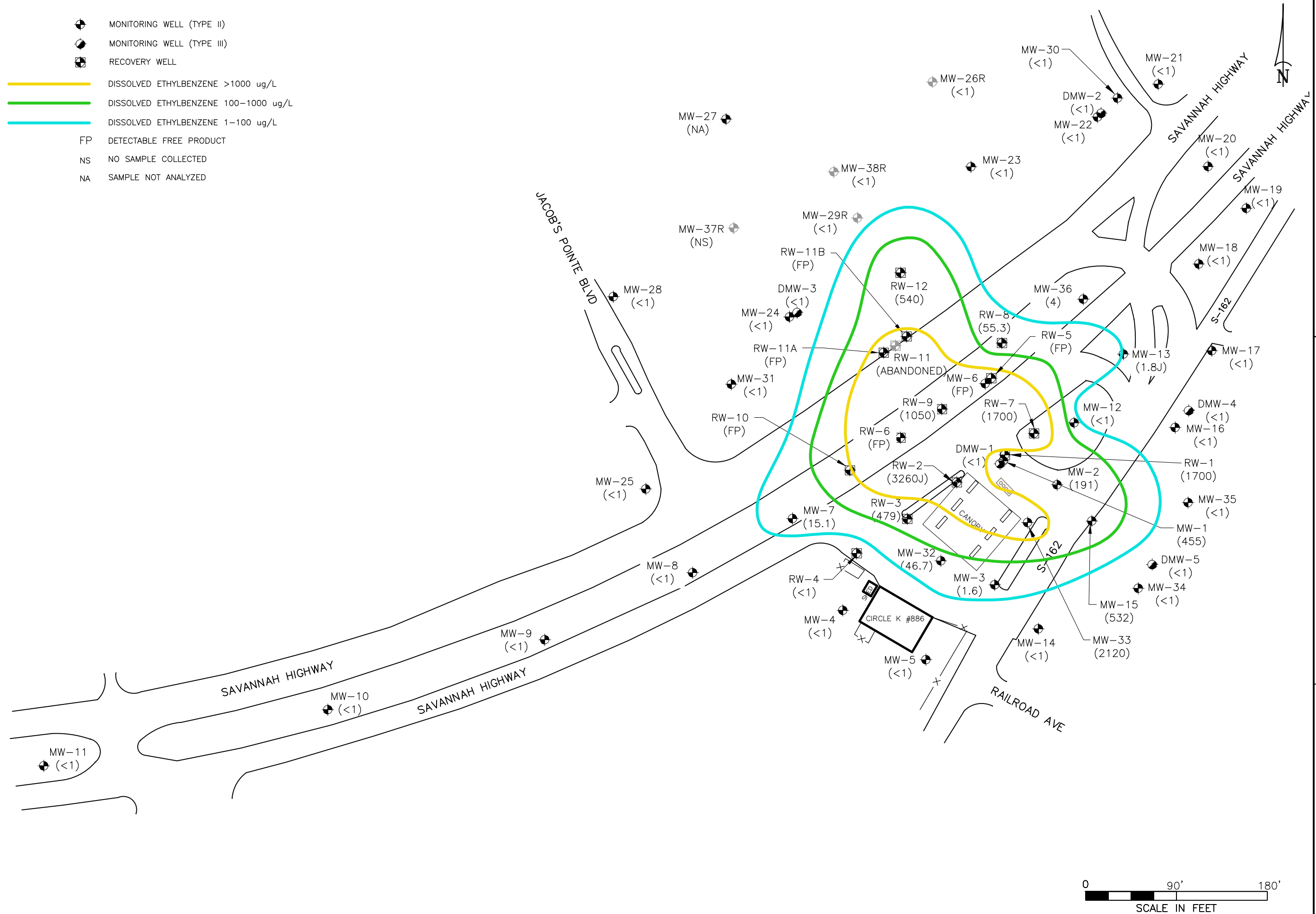








FIGURE 7
 UST PERMIT #01589
 ETHYLBENZENE ISOPLETH MAP FOR GROUNDWATER - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

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CAD FILE 1252215.dwg
TYPE CODE BH
PREP. BY BH
REV. BY
SCALE 1"=90'
DATE 05-03-2024
PROJECT NO. 257CK88613

-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED XYLENES >10,000 ug/L
-  DISSOLVED XYLENES 1,000-10,000 ug/L
-  DISSOLVED XYLENES 1-1,000 ug/L
- FP DETECTABLE FREE PRODUCT
- NS NO SAMPLE COLLECTED
- NA SAMPLE NOT ANALYZED

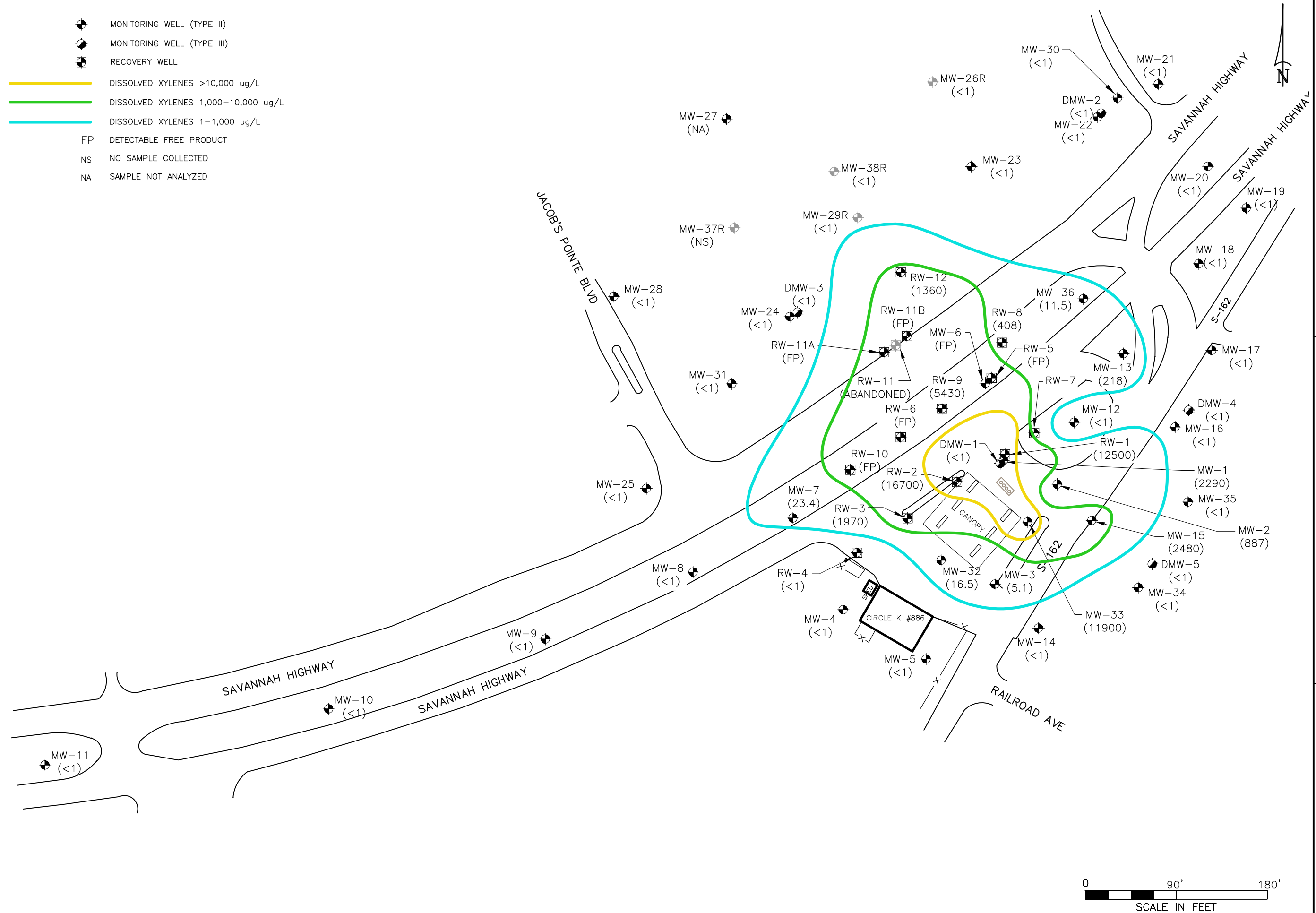










FIGURE 8
 UST PERMIT #01589
 XYLENES ISOPLETH MAP FOR GROUNDWATER - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

CAD FILE	1252215.dwg	TYPE CODE	BH	PREP. BY	BH	REV. BY		SCALE	1"=90'	DATE	05-03-2024	PROJECT NO.	257CK88613
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-  MONITORING WELL (TYPE II)
-  MONITORING WELL (TYPE III)
-  RECOVERY WELL
-  DISSOLVED NAPHTHALENE >100 ug/L
-  DISSOLVED NAPHTHALENE 1-100 ug/L
-  FP DETECTABLE FREE PRODUCT
-  NS NO SAMPLE COLLECTED
-  NA SAMPLE NOT ANALYZED

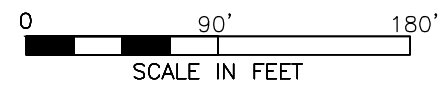
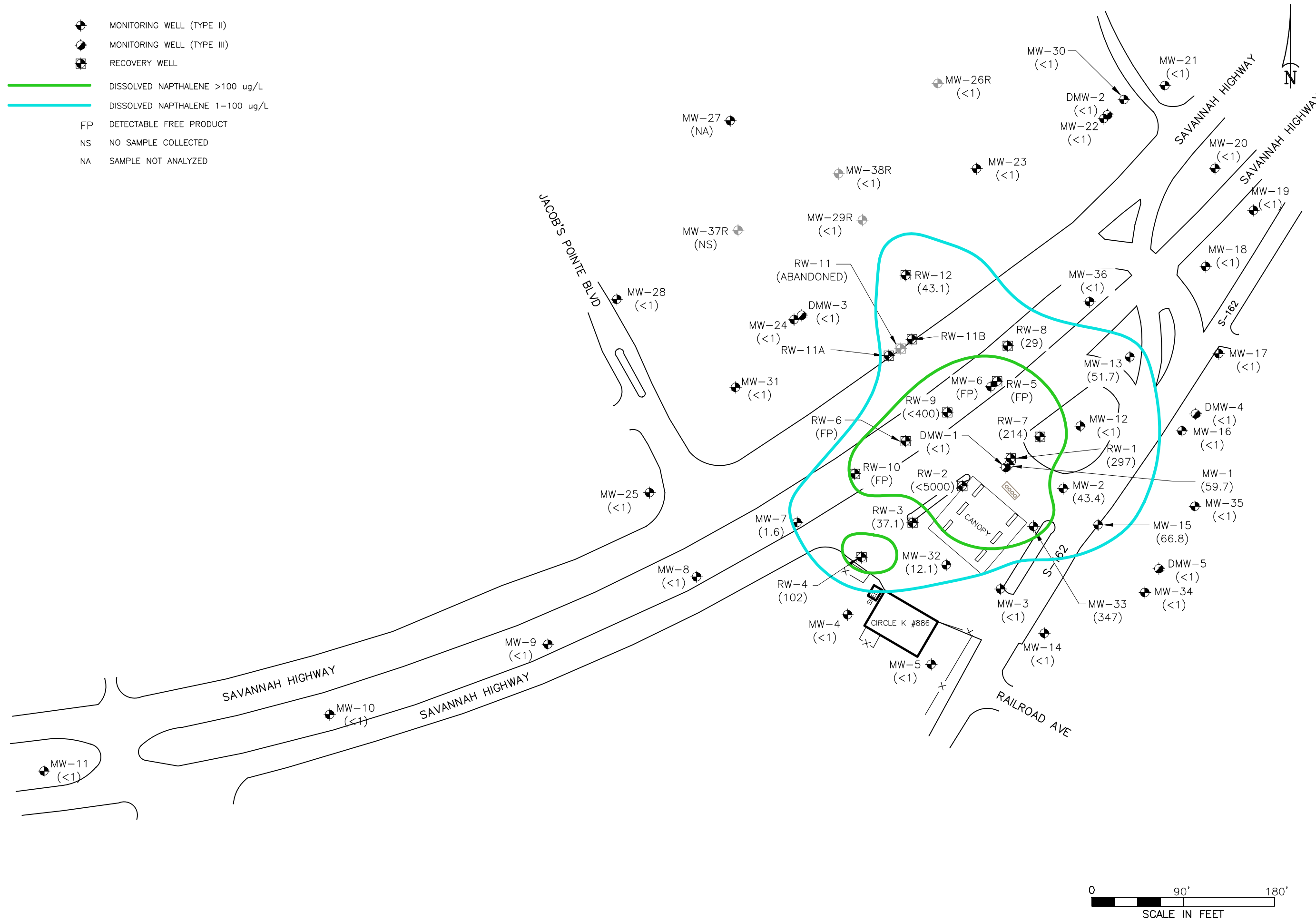
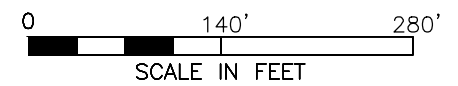
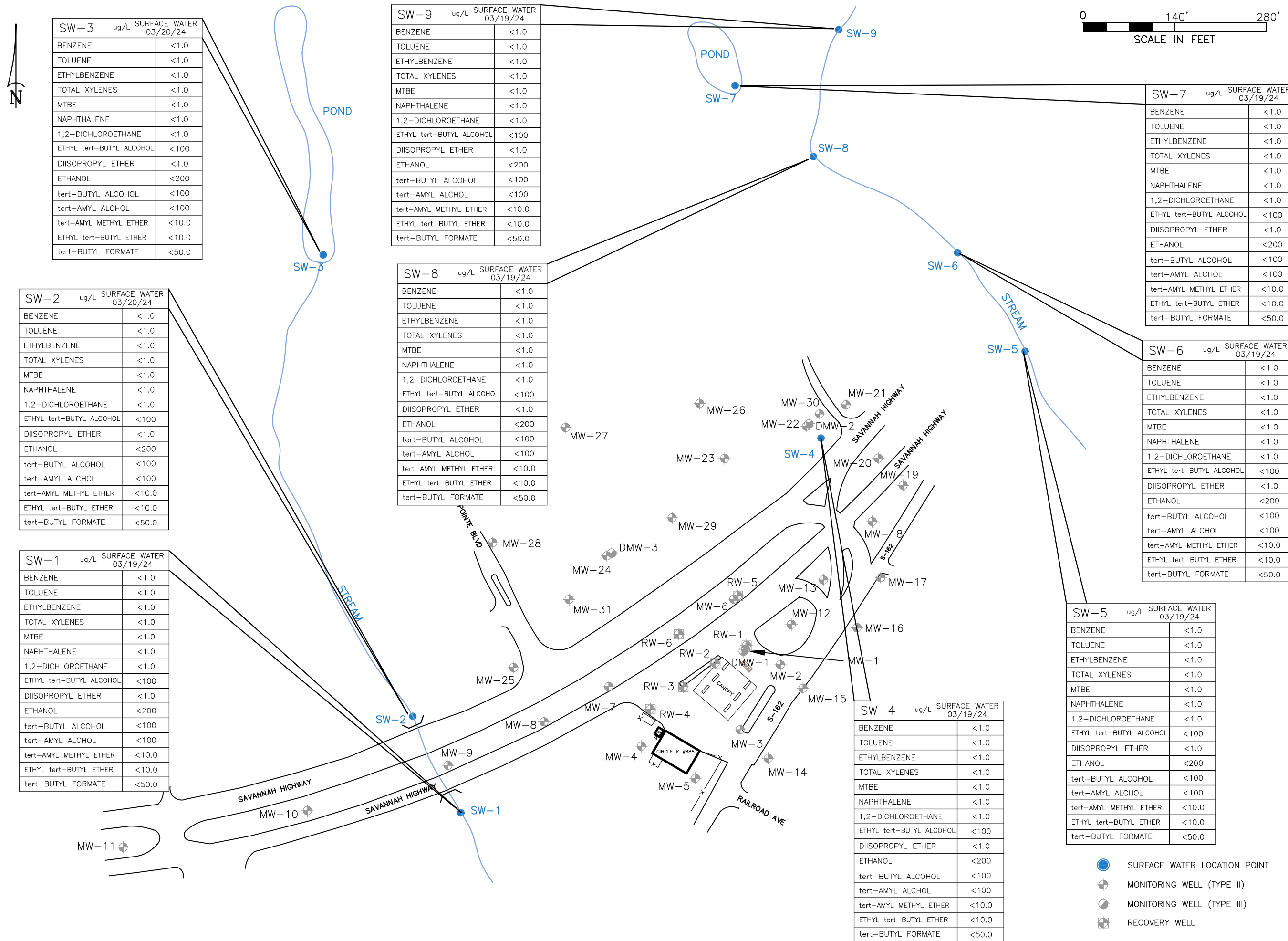


FIGURE 10
 NAPHTHALENE ISOPLETH MAP FOR GROUNDWATER - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:
 1. GROUNDWATER ELEVATIONS WERE MEASURED ON 03/19-20/2024.
 2. MW-37 WAS INACCESSIBLE, NOT SAMPLED.
 MW-27 SAMPLE WAS LOST IN SHIPMENT.

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SCALE	1"=90'	DATE	05-03-2024	PROJECT NO.	257CK88613		

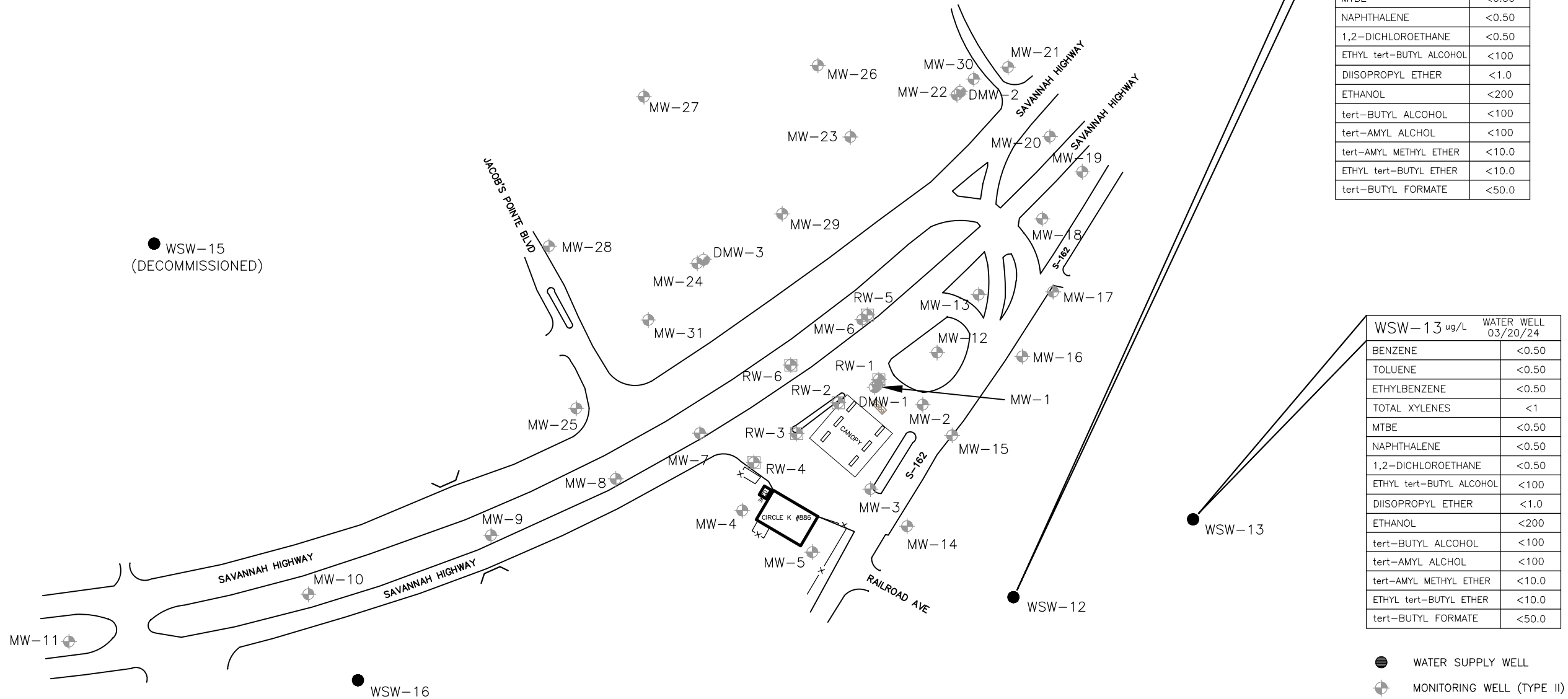
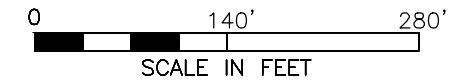


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FIGURE 11
SURFICIAL WATER SAMPLE RESULTS - MARCH 2024
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

NOTES:

CAD FILE	1252215.dwg	PREP. BY	JK	REV. BY	
SCALE	1"=140'	DATE	05-03-2024	PROJECT NO.	257CK88613



WSW-12 ug/L WATER WELL 03/20/24

BENZENE	<0.50
TOLUENE	<0.50
ETHYLBENZENE	<0.50
TOTAL XYLENES	<1
MTBE	<0.50
NAPHTHALENE	<0.50
1,2-DICHLOROETHANE	<0.50
ETHYL tert-BUTYL ALCOHOL	<100
DIISOPROPYL ETHER	<1.0
ETHANOL	<200
tert-BUTYL ALCOHOL	<100
tert-AMYL ALCHOL	<100
tert-AMYL METHYL ETHER	<10.0
ETHYL tert-BUTYL ETHER	<10.0
tert-BUTYL FORMATE	<50.0

WSW-13 ug/L WATER WELL 03/20/24

BENZENE	<0.50
TOLUENE	<0.50
ETHYLBENZENE	<0.50
TOTAL XYLENES	<1
MTBE	<0.50
NAPHTHALENE	<0.50
1,2-DICHLOROETHANE	<0.50
ETHYL tert-BUTYL ALCOHOL	<100
DIISOPROPYL ETHER	<1.0
ETHANOL	<200
tert-BUTYL ALCOHOL	<100
tert-AMYL ALCHOL	<100
tert-AMYL METHYL ETHER	<10.0
ETHYL tert-BUTYL ETHER	<10.0
tert-BUTYL FORMATE	<50.0

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

FIGURE 12

WATER WELL SAMPLE RESULTS - MARCH 2024
 CIRCLE K #2720886
 4315 SAVANNAH HIGHWAY
 RAVENEL, SOUTH CAROLINA

NOTES:



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CAD FILE 1252215.dwg

PREP. BY JK

REV. BY

SCALE 1"=140'

DATE 05-03-2024

PROJECT NO. 257CK88613

APPENDIX A
FIELD DATA INFORMATION SHEETS



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/20/2024** Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: *Clear Sunny* Ambient Air Temp (°F): **60**

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO
 pH, conductivity: 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L): 9.76 DO: Y or N
 Turbidity (NTU): 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-1** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~RW~~ ~~Private-WSW~~ ~~Public-WSW~~ Other
 Screened Interval (ft.): **2-12** Total Well Depth (TWD) (ft.): **12**

Depth to Free Product (DFP) (ft.): **3.42** Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	2:25						1115
PH (s.u.)	5.95						5.95
Specific Conductivity (µS/cm)	2080						2080
Water Temperature (°C)	19.40						19.40
Turbidity (NTU)	219						219
Dissolved Oxygen (mg/L)	0.39						0.39

Sampling Data

Sampled By: Joe Gray Sampling Time: **1115** Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons:

GRMS

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/23/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County: Grab	Project Manager: Grab	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			
	0.0 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:							
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.): 2.53		Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.):					
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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post			
Volume Purged (gallons)						Sampling			
Time (military)	10:22					25			
PH (s.u.)						10:23			
Specific Conductivity (µS/cm)						5.50			
Water Temperature (°C)						5.33			
Turbidity (NTU)						19.57			
Dissolved Oxygen (mg/L)						75.8			
						1.86			
Sampling Data									
Sampled By:	Grab	Sampling Time: 10:23	Duplicate: Y or N	If yes, Duplicate Time:					
Notes:	Signature:								



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3 / 19 / 2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear & Sunny Ambient Air Temp (°F): 60'
 Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DC: Y or N
 Turbidity (NTU) 0 Turb.: 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 (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW ~~HW~~ ~~RW~~ ~~Other~~ Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Private-WSW Public-WSW Other
 Depth to Free Product (DFP) (ft.): 3.30 Free Product Thickness (ft.):
 Length of water column 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):
 (LWC = TWD - DGW) (ft.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	.23						
Volume Purged (gallons)	1649						1649
Time (military)	5:23						5:23
PH (s.u.)	1380						1380
Specific Conductivity (µS/cm)	18.99						18.99
Water Temperature (°C)	0.0						0.0
Turbidity (NTU)	1.65						1.65
Dissolved Oxygen (mg/L)							

Sampling Data

Sampled By: Joe Gray Sampling Time: 1649 Duplicate: Y or N If yes, Duplicate Time: (Dup 1) 1651
 Signature: [Signature]

Notes: 4315 Savannah Highway, Ravenel, SC

Total Gallons:

Gms

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

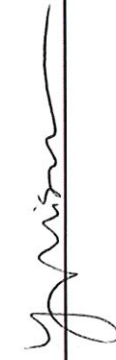
Site Information			
Date: 3/14/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County:	Project Manager:	General Weather Conditions:	Ambient Air Temp (°F):

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
	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" 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.): 2 to 12	Total Well Depth (TWD) (ft.):	
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.): 2.94	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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.
Volume Purged (gallons)				
Time (military)	25			
PH (s.u.)	17:11			
Specific Conductivity (µS/cm)				
Water Temperature (°C)				
Turbidity (NTU)				
Dissolved Oxygen (mg/L)				
				5 th Vol.
				Post
				Sampling
				17:12
				6.17
				4.27
				12.59
				15.4
				3.03

Sampling Data	
Sampled By:	Sampling Time: 17:12
Notes:	Duplicate: Y or <u>N</u>
	If yes, Duplicate Time:

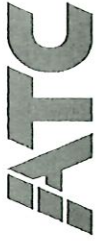
Signature: 

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information					
Date: 3/14/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca		
County:	Project Manager:	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-5	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 (DGM) (ft.): 3.18		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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.
Volume Purged (gallons)	25				25
Time (military)	17:18				17:19
PH (s.u.)					4.16
Specific Conductivity (µS/cm)					1887
Water Temperature (°C)					18.82
Turbidity (NTU)					29.6
Dissolved Oxygen (mg/L)					5.73
Sampling Data					
Sampled By:	Grab	Sampling Time: 17:19	Duplicate: Y or N	If yes, Duplicate Time:	
Notes:	Signature: <i>Y. Misuraca</i>				



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/19/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) DC: Y or N
 Turbidity (NTU) Turb.: 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 (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW RW Other Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 1.76 Free Product Thickness (ft.):
 Length of water column 1 casing volume (CV = LWC x C) (gals.): 1.69 5 casing volumes (5 x CV) (gals.):
 (LWC = TWD - DGW) (ft.): 10.24

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
	1.75						1.0
Volume Purged (gallons)	16.10						16.15
Time (military)	6:46						6:47
PH (s.u.)	5.87						6.96
Specific Conductivity (µS/cm)	19.09						18.93
Water Temperature (°C)	0.0						1.33
Turbidity (NTU)	2.27						1.79
Dissolved Oxygen (mg/L)							

Sampling Data

Sampled By: Joe Gray Sampling Time: 1615 Duplicate: Y or N If yes, Duplicate Time:
 Volume Purged: 1615

Notes: 4315 Savannah Highway, Ravenel, SC

Signature:

Joe Gray

Total Gallons:

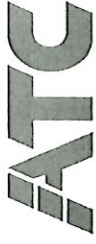
3.0 gallon purged
 & removed

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information										
Date: 3/9/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca							
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: <i>☁</i>		Ambient Air Temp (°F): 53						
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- 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	RW Public WSW	Other:								
Depth to Free Product (DFP) (ft.):										
Screened Interval (ft.): 2 to 12										
Total Well Depth (TWD) (ft.):										
Depth to Groundwater (DGW) (ft.): 1.98										
Free Product Thickness (ft.): NA										
Length of water column (LWC = TWD - DGW) (ft.): 10.02										
1 casing volume (CV = LWC x X) (gals.): 1.66										
3 casing volumes (3 x CV) (gals.):										
total volume bailed (gals.):										
Purging Data										
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling			
Volume Purged (gallons)	1.75	1.75	1.75	1.75	1.75					
Time (military)	15:29	15:34	15:38	15:43	15:48		15:49			
PH (s.u.)	4.55	4.36	4.15	4.12	4.12		4.12			
Specific Conductivity (µS/cm)	166	157	154	159	160		160			
Water Temperature (°C)	18.71	18.97	19.37	19.48	19.68		19.68			
Turbidity (NTU)	55.0	696	577	0.0	1000		1000			
Dissolved Oxygen (mg/L)	2.78	1.98	1.97	2.11	1.84		1.51			
Sampling Data										
Sampled By:	Sampling Time: 15:49		Duplicate: Y or N		If yes, Duplicate Time:					
Notes:	Signature: <i>Y. Misuraca</i>									
Purged @ 9 gallons										



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/19/2024** Site ID # **01589** Site Name: **Circle K 2720886** Field Personnel: **Joe Gray, Yolanda Misuraca**
 County: **Charleston** Project Manager: **Brad Hubbard** General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: **Horiba multimeter** Serial #: **1GA43QSRO** Calibration:
 pH, conductivity: **4.0, 4.48** pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L): **9.76** DO: Y or N
 Turbidity (NTU): **0** Turb.: **0.0** NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-9** Well Diameter (in): **2** Conversion Factor (C): 1" well = 0.047, 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.): **2.44** Screened Interval (ft.): **2-12** Total Well Depth (TWD) (ft.):

Length of water column (LWC = TWD - DGW) (ft.): **1** casing volume (CV = LWC x C) (gals.): **5** casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1529						1529
PH (s.u.)	6.11						6.11
Specific Conductivity (µS/cm)	231						231
Water Temperature (°C)	17.58						17.58
Turbidity (NTU)	65.4						65.4
Dissolved Oxygen (mg/L)	1.97						1.97

Sampling Data

Sampled By: **Joe Gray** Sampling Time: **1529** Duplicate: Y or N If yes, Duplicate Time:

Notes: **4315 Savannah Highway, Ravenel, SC** Signature: *Joe Gray* Total Gallons:

Carley



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



Date: 3/19/2024		Site ID #: 01589		Site Name: Circle K 2720886		Field Personnel: Joe Gray, Yolanda Misuraca	
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: Clear & Sunny		Ambient Air Temp (°F): 60.5	
Quality Assurance							
Meter Name: Horiba multimeter		Serial #: 1GA43QSRO		Calibration:			
pH, conductivity		4.0, 4.48		pH 4.0: (Y) or N		pH 7.0: Y or N	
Dissolved Oxygen (mg/L)		9.76		DO: Y or N		pH 10.0: Y or N	
Turbidity (NTU)		0		Turb.: 0.0 NTU: (Y) or N		10.0 NTU: Y or N	
Well Information							
Well ID: MW-10		Well Diameter (in): 2		Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: Bailor Pump	
MW RW Other		Private-WSW Public-WSA		Screened Interval (ft.): 2-12		Total Well Depth (TWD) (ft.):	
Depth to Free Product (DFP) (ft.):		2.51		Free Product Thickness (ft.):			
Length of water column (LWC = TWD - DGW) (ft.):		1 casing volume (CV = LWC x C) (gals.):		5 casing volumes (5 x CV) (gals.):			
Purging Data							
Volume Purged (gallons)		Initial		1st Vol.		2nd Vol.	
Time (military)		1449		3rd Vol.		4th Vol.	
PH (s.u.)		6.22		5th Vol.		Post	
Specific Conductivity (µS/cm)		223				1449	
Water Temperature (°C)		18.84				6.22	
Turbidity (NTU)		0.0				223	
Dissolved Oxygen (mg/L)		1.05				18.84	
						0.0	
						1.05	
Sampling Data							
Sampled By: Joe Gray		Sampling Time: 1449		Duplicate: Y or N		If yes, Duplicate Time:	
Notes: 4315 Savannah Highway, Ravenel, SC		Signature: <i>Joe Gray</i>		Total Gallons:			

Gray



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/19/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear & Sunny Ambient Air Temp (°F): 60.5

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 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 (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~HW~~ ~~RW~~ ~~Other~~
 Private-WSW Public-WSW Other

Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.):

Depth to Free Product (DFP) (ft.):

Free Product Thickness (ft.):

Length of water column

5 casing volumes (5 x CV) (gals.):

(LWC = TWD - DGW) (ft.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1440						1440
PH (s.u.)	6.82						6.82
Specific Conductivity (µS/cm)	389						389
Water Temperature (°C)	18.71						18.71
Turbidity (NTU)	6.6						0.0
Dissolved Oxygen (mg/L)	1.76						1.76

Sampling Data

Sampled By: Joe Gray Sampling Time: 1440 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Total Gallons:

Signature:

Joe Gray

Curry

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/20/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County: 20	Project Manager: <i>Sunny</i>		General Weather Conditions: <i>Sunny</i>		Ambient Air Temp (°F): 49				
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- 12	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.):				
Depth to Free Product (DFF) (ft.):		Depth to Groundwater (DGW) (ft.): 2.71		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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling	
Time (military)	08:10							25	
PH (s.u.)								16:11	
Specific Conductivity (µS/cm)								6:18	
Water Temperature (°C)								18.5	
Turbidity (NTU)								17.10	
Dissolved Oxygen (mg/L)								31.4	
								2.31	
Sampling Data									
Sampled By:	Sampling Time: 10:11		Duplicate: Y or (N)		If yes, Duplicate Time:				
Notes:	Grab								
		Signature: <i>Y. Misuraca</i>							

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/20/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County: <u>Wayne</u>	Project Manager: <u>Bob Hubbard</u>	General Weather Conditions: <u>Sunny</u>	Ambient Air Temp (°F): <u>53</u>

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

Well Information			
Well ID: MW- <u>13</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) <u>Pump</u>
MW Private WSW	RW Public WSW	Other:	Screened Interval (ft.): <u>2 to 12</u>
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGM) (ft.):	Free Product Thickness (ft.):	Total Well Depth (TWD) (ft.):
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					Sampling	
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.		5 th Vol.
Volume Purged (gallons)	<u>1.25</u>						<u>25</u>
Time (military)	<u>11:25</u>						<u>11:26</u>
PH (s.u.)							<u>6.30</u>
Specific Conductivity (µS/cm)							<u>127</u>
Water Temperature (°C)							<u>19.71</u>
Turbidity (NTU)							<u>27.7</u>
Dissolved Oxygen (mg/L)							<u>3.17</u>

Sampling Data			
Sampled By: <u>Y. Misuraca</u>	Sampling Time: <u>11:26</u>	Duplicate: Y or <u>(N)</u>	If yes, Duplicate Time:
Notes:	Signature: <u>[Handwritten Signature]</u>		



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/19/2024** Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: *Clear & Sunny* Ambient Air Temp (°F): *60*

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DC: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-14** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~HW~~ ~~Private-WSW~~ ~~Public-WSW~~ ~~Other~~ Screened Interval (ft.): *2-12* Total Well Depth (TWD) (ft.): *12*

Depth to Free Product (DFP) (ft.): *3.29* Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

.Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	<i>-25</i>							
Time (military)	<i>1639</i>							<i>1639</i>
PH (s.u.)	<i>6.55</i>							<i>6.95</i>
Specific Conductivity (µS/cm)	<i>814</i>							<i>816</i>
Water Temperature (°C)	<i>18.18</i>							<i>18.18</i>
Turbidity (NTU)	<i>7.4</i>							<i>7.4</i>
Dissolved Oxygen (mg/L)	<i>7.63</i>							<i>8.67</i>

Sampling Data

Sampled By: Joe Gray Sampling Time: *1639* Duplicate: Y or N: *(N)* If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature:

Total Gallons:



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3 / 20 / 2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Ambient Air Temp (°F): 50's

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-15 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 RW Private-WSW Public-WSW Other

Depth to Free Product (DFP) (ft.): 3.13 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.): Free Product Thickness (ft.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	25						
Volume Purged (gallons)	10.09						1019
Time (military)	14.09						6.09
PH (s.u.)	3.76						3.76
Specific Conductivity (µS/cm)	16.54						16.54
Water Temperature (°C)	28.5						28.5
Turbidity (NTU)	0.65						0.65
Dissolved Oxygen (mg/L)							

Sampling Data

Sampled By: Joe Gray Sampling Time: 1019 Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons: *6.65*

6.65

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information	
Date: 3/2/2024	Site ID #: 01589
County:	Site Name: Circle K 886
Project Manager:	Field Personnel: Y. Misuraca
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 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: 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	Other:	Total Well Depth (TWD) (ft.):	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.):	Free Product Thickness (ft.):
10.13	1.87	2 to 13	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.):
10.13	1.68		

Purging Data						
Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post
Volume Purged (gallons)	1.75	1.75	1.75	1.75	1.75	
Time (military)	12:50	13:05	13:08	13:11	13:15	13:16
PH (s.u.)	7.81	4.76	4.67	4.55	4.78	4.72
Specific Conductivity (µS/cm)	179	248	236	235	233	224
Water Temperature (°C)	18.19	18.10	18.17	18.18	18.16	18.26
Turbidity (NTU)	0.0	0.0	0.0	0.0	0.0	0.0
Dissolved Oxygen (mg/L)	1.31	1.76	1.94	1.98	1.98	1.62

Sampling Data	
Sampled By:	Duplicate: Y or N
Sampling Time: 13:16	If yes, Duplicate Time:

Notes: _____

Signature: 

Purged @ 9 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/20/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca
 County: Chester County Project Manager: Brad Hubine General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Calibration: Serial #: VU134N3T
 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 Private WSW Public WSW Other: Screened Interval (ft.): Total Well Depth (TWD) (ft.):
 Depth to Free Product (DFP) (ft.): Depth to Groundwater (DGM) (ft.): 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	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
25	175	650					
12.06	12.10	12.13					12.14
5.82	5.93						5.93
34.9	36.0						35.9
18.82	18.78						18.75
4.7	0.0						0.0
1.65	2.24						1.31

Sampling Data

Sampled By: Gb4 Sampling Time: 12:14 Duplicate: Y or N If yes, Duplicate Time:
 Notes: Signature: Y. Misuraca

Purged on 2nd volume @ 2.50 gallons



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/20/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Sunny Ambient Air Temp (°F): 60's
 Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSR0 Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 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 (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~HW~~ ~~RW~~ ~~Other~~
~~Private-WSW~~ ~~Public-WSW~~

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

Length of water column 1 casing volume (CV = LWC x C) (gals.): 2.48 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		1149						1149
PH (s.u.)		5.67						5.67
Specific Conductivity (µS/cm)		346						346
Water Temperature (°C)		19.23						19.23
Turbidity (NTU)		0.0						0.0
Dissolved Oxygen (mg/L)		0.77						0.77

Sampling Data

Sampled By: Joe Gray Sampling Time: 1149 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Total Gallons:

Signature: *Joseph Gray*

60ms



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/26/2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear / Sunny Ambient Air Temp (°F): 60's

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSR0 Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-19 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Private-WSW Public-WSW Other
 Depth to Free Product (DFP) (ft.): 2-12 Screened Interval (ft.): 12 Total Well Depth (TWD) (ft.): 12

Length of water column (LWC = TWD - DGW) (ft.): 2.21 Depth to Groundwater (DGW) (ft.): Free Product Thickness (ft.):
 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	1139						1139
PH (s.u.)	6.14						6.14
Specific Conductivity (µS/cm)	232						232
Water Temperature (°C)	19.60						19.60
Turbidity (NTU)	4.0						4.0
Dissolved Oxygen (mg/L)	1.16						1.14

Sampling Data

Sampled By: Joe Gray Sampling Time: 1139 Duplicate: Y or N If yes, Duplicate Time:
 Total Gallons:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature:

60113



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/20/2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear Sunny Ambient Air Temp (°F): 60°

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-26 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW: RW: Other:
 Private-WSW: Public-WSW: Other:
 Depth to Free Product (DFP) (ft.): 10.56 Depth to Groundwater (DGW) (ft.): 1.44 Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Length of water column (LWC = TWD - DGW) (ft.): 10.56 1 casing volume (CV = LWC x C) (gals.): 1.75 Free Product Thickness (ft.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		2:25						
PH (s.u.)		1202	1206					1206
Specific Conductivity (µS/cm)		6.09	6.26					6.26
Water Temperature (°C)		599	579					579
Turbidity (NTU)		19.85	19.60					19.60
Dissolved Oxygen (mg/L)		0.0	10.87					10.87
		0.82	1.82					1.82

Sampling Data

Sampled By: Joe Gray Sampling Time: 1206 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature:

Total Gallons:

Joe Gray

2.0 gallons Purged.

Purged @ 1:51 PM

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/19/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County: Charleston	Project Manager: Brad Hubbard	General Weather Conditions: Sunny		Ambient Air Temp (°F): 49					
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- 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	RW Public WSW	Other:							
Depth to Free Product (DFP) (ft.):	Screened Interval (ft.): 2 to 12		Total Well Depth (TWD) (ft.): 20			Free Product Thickness (ft.): NA			
Length of water column (LWC = TWD - DGW) (ft.): 19.8	Depth to Groundwater (DGW) (ft.): 20		3 casing volumes (3 x CV) (gals.): 3, 2			total volume bailed (gals.):			
Purging Data									
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling			
Volume Purged (gallons)	3.0								
Time (military)	8:20	8:27				8:28			
PH (s.u.)	5.44					5.57			
Specific Conductivity (µS/cm)	392					402			
Water Temperature (°C)	18.15					18.71			
Turbidity (NTU)	47.4					419			
Dissolved Oxygen (mg/L)	2.79					2.93			
Sampling Data									
Sampled By: Yolanda Misuraca	Signature: <i>Yolanda Misuraca</i>	Sampling Time: 8:28	Duplicate: Y or (N)	If yes, Duplicate Time:					
Notes:	Purged on 1st volume @ 3.25 gallons								

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/1/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County:	Project Manager:	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 to 12			Total Well Depth (TWD) (ft.):			
Depth to Free Product (DFP) (ft.):			Depth to Groundwater (DGM) (ft.): 3.01			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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling			
Volume Purged (gallons)									
Time (military)	9:25					9:30			
PH (s.u.)	9:28					4.41			
Specific Conductivity (µS/cm)						19.50			
Water Temperature (°C)						16.7			
Turbidity (NTU)						2.81			
Dissolved Oxygen (mg/L)									
Sampling Data									
Sampled By: Yolanda Misuraca	Sampling Time: 9:30	Duplicate: Y or N		If yes, Duplicate Time:					
Notes: Grab									
Signature: <i>Y. Misuraca</i>									



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/19/2024** Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear/Sunny Ambient Air Temp (°F): 50.5

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSR0 Calibration:
 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 DO: Y or N
 Dissolved Oxygen (mg/L) 9.76
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-23** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump
 MW ~~RAW~~ ~~Other~~
~~Private-WSW~~ ~~Public-WSW~~ Screened Interval (ft.): **5-15** Total Well Depth (TWD) (ft.): **15**

Depth to Free Product (DFP) (ft.): **6.03** Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)		0959						0959
PH (s.u.)		5.73						5.73
Specific Conductivity (µS/cm)		174						174
Water Temperature (°C)		15.88						15.58
Turbidity (NTU)		67.5						67.5
Dissolved Oxygen (mg/L)		2.30						2.30

Sampling Data

Sampled By: Joe Gray Sampling Time: **0959** Duplicate: Y or N
 If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Joe Gray* Total Gallons: **15**

Genes



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Date: 3/19/2024		Site ID # 01589		Site Name: Circle K 2720886		Field Personnel: Joe Gray, Yolanda Misuraca	
County: Charleston		Project Manager: Brad Hubbard		General Weather Conditions: <i>Clear Sunny</i>		Ambient Air Temp (°F): <i>50's</i>	
Quality Assurance							
Meter Name: Horiba multimeter		Serial #: 1GA43QSRO		Calibration:			
pH, conductivity		4.0, 4.48		pH 4.0: (Y) or N		pH 7.0: Y or N	
Dissolved Oxygen (mg/L)		9.76		DO: Y or N		pH 10.0: Y or N	
Turbidity (NTU)		0		Turb.: 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 (in): 2		Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652		Method of Purging/Sample Collection: Bailor Pump	
MW <input type="checkbox"/> RW <input type="checkbox"/> Other <input type="checkbox"/>				Screened Interval (ft.): <i>5-15</i>		Total Well Depth (TWD) (ft.): <i>15</i>	
Private-WSW <input type="checkbox"/> Public-WSW <input type="checkbox"/>				Depth to Groundwater (DGW) (ft.): <i>5.44</i>		Free Product Thickness (ft.):	
Depth to Free Product (DFP) (ft.):				1 casing volume (CV = LWC x C) (gals.):		5 casing volumes (5 x CV) (gals.):	
Length of water column (LWC = TWD - DGW) (ft.):							
Purging Data							
Initial		1 st Vol.		2 nd Vol.		3 rd Vol.	
Volume Purged (gallons)		<i>.25</i>				4 th Vol.	
Time (military)		<i>1219</i>				5 th Vol.	
PH (s.u.)		<i>5.01</i>				Post	
Specific Conductivity (µS/cm)		<i>148</i>				Sampling	
Water Temperature (°C)		<i>17.17</i>				<i>1219</i>	
Turbidity (NTU)		<i>3.2</i>				<i>5.01</i>	
Dissolved Oxygen (mg/L)		<i>3.10</i>				<i>148</i>	
						<i>17.17</i>	
						<i>3.2</i>	
						<i>3.10</i>	

Sampled By: Joe Gray		Sampling Time: <i>1219</i>		Duplicate: Y or N <input type="radio"/>		If yes, Duplicate Time:	
Signature							
Signature: <i>Joe Gray</i>				Total Gallons:			
Notes: 4315 Savannah Highway, Ravenel, SC							

GCWS

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/19/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County:	Project Manager:	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
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 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
MW Private WSW	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.): 11.7	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.): 12
Length of water column (LWC = TWD - DGW) (ft.):	1 casing volume (CV = LWC x X) (gals.): 1.94	3 casing volumes (3 x CV) (gals.):	total volume bailed (gals.):
		Free Product Thickness (ft.): NA	

	Purging Data					Post Sampling
	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	
Volume Purged (gallons)	2.5	2.0	2.0	2.0	2.0	
Time (military)	12:30	12:35	12:40	12:47	12:51	12:57
pH (s.u.)	7.69	4.71	4.64	4.61	4.54	4.51
Specific Conductivity (µS/cm)	201	201	201	199	199	198
Water Temperature (°C)	18.76	19.01	19.11	18.64	19.09	18.94
Turbidity (NTU)	66.3	334	415	453	437	370
Dissolved Oxygen (mg/L)	3.06	1.59	1.54	1.91	1.71	1.51

Sampling Data	
Sampled By:	Sampling Time: 12:57
	Duplicate: Y or N

Notes: _____
 Signature: *Y. Misuraca*

Purged @ 10.25 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/10/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca
 County: 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- 262 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.): 15
 Depth to Free Product (DFP) (ft.): Depth to Groundwater (DGW) (ft.): 3.0 Free Product Thickness (ft.): NA
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x X) (gals.): 1.99 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
2.5	2.0	2.0	2.0	2.0	2.0		
9:50	9:53	9:57	10:00	10:05	10:08		12:09
3.92	4.18	3.82	3.81	3.80	3.79		3.79
394	496	572	509	496	432		432
19.17	18.75	18.88	18.74	18.64	18.42		18.72
19.8	0.0	0.0	278	813	1000		1000
1.72	1.74	2.12	1.59	1.40	1.42		1.34

Sampling Data

Sampled By: Sampling Time: 10:09 Duplicate: Y or N If yes, Duplicate Time:
 Notes: Signature: 

Purged @ 10:25

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/19/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca
 County: Project Manager: General Weather Conditions: Ambient Air Temp (°F):

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
 0.0 NTU: (Y) or N 1.0 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 IW RW Other: Screened Interval (ft.): 5 to 15 Total Well Depth (TWD) (ft.): 15
 - Private WSW Public WSW Depth to Groundwater (DGW) (ft.): 3.34 Free Product Thickness (ft.): NA
 Depth to Free Product (DFP) (ft.): 1 casing volume (CV = LWC x X) (gals.): 1.93 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):

Purging Data

	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post
Initial						
Volume Purged (gallons)	25	175				
Time (military)	13:23	13:27				13:29
PH (s.u.)	4.43	4.45				4.44
Specific Conductivity (µS/cm)	112	111				111
Water Temperature (°C)	17.59	18.20				18.20
Turbidity (NTU)	26.7	0.0				0.0
Dissolved Oxygen (mg/L)	2.23	2.84				2.84

Sampling Data

Sampled By: Y. Misuraca Sampling Time: 13:29 Duplicate: Y or N If yes, Duplicate Time:
 Notes: Signature: *Y. Misuraca*

Dry on 1st volume
 Purged 2 gallons

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/14/2024		Site ID #: 01589		Site Name: Circle K 886		Field Personnel: Y. Misuraca			
County:		Project Manager:		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- 28		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		RW - Other:		Screened Interval (ft.): 2 to 12		Total Well Depth (TWD) (ft.):			
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.): 3.90		Free Product Thickness (ft.): NA		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.):		3 casing volumes (3 x CV) (gals.):					
Purging Data									
Initial		1 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.	
Volume Purged (gallons)								5 th Vol.	
Time (military)		12:15						Post	
PH (s.u.)								Sampling	
Specific Conductivity (µS/cm)								25	
Water Temperature (°C)								12:16	
Turbidity (NTU)								7.09	
Dissolved Oxygen (mg/L)								137	
								17.68	
								63.4	
								3.63	
Sampling Data									
Sampled By:		Sampling Time: 12:16		Duplicate: Y or (N)		If yes, Duplicate Time:			
Notes:		Grab		Signature: Y. Misuraca					



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca County: Charleston Project Manager: Brad Hubbard General Weather Conditions: <i>Clear</i> Ambient Air Temp (°F): <i>50's</i>							
Quality Assurance Meter Name: Horiba multimeter Serial #: 1GA43QSRO pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N Dissolved Oxygen (mg/L) 9.76 DO: Y or N Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N							
Well Information Well ID: MW-29R Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump MW RW Other Private-WSW Public-WSW							
Depth to Free Product (DFP) (ft.): 3.44 Screened Interval (ft.): 5-15 Total Well Depth (TWD) (ft.): 15 Length of water column (LWC = TWD - DGW) (ft.): 11.56 1 casing volume (CV = LWC x C) (gals.): 1.91 Free Product Thickness (ft.): 5 casing volumes (5 x CV) (gals.):							
Purging Data							
Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
	2.0	2.0	2.0	2.0	2.0		
Volume Purged (gallons)	1139	1146	1149	1154	1157		1157
Time (military)	4:65	4:60	4:64	4:68	4:76		4:76
PH (s.u.)	4.25	3.94	4.00	3.89	3.75		3.75
Specific Conductivity (µS/cm)	17.24	18.09	18.41	18.30	18.24		18.34
Water Temperature (°C)	2.1	818	1000+	977	513		513
Turbidity (NTU)	0.84	1.07	0.89	1.20	1.23		1.23
Dissolved Oxygen (mg/L)							
Sampled By: Joe Gray Sampling Time: 1157 Duplicate: Y or N <i>(N)</i> If yes, Duplicate Time:							
Signature: <i>Joseph Gray</i> Total Gallons: 10.25 gallons Notes: 4315 Savannah Highway, Ravenel, SC <i>Purged + Documented.</i>							

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/19/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca

County: Project Manager: General Weather Conditions: Sunny Ambient Air Temp (°F): 49

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

0.0 NTU: (Y) or N 1.0 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 IW RW Other: Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): Free Product Thickness (ft.): NA

Private WSW Public WSW

Depth to Free Product (DFP) (ft.): Depth to Groundwater (DGW) (ft.): 2, 36 Free Product Thickness (ft.): NA

Purging Data

	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							.25
Time (military)	12:55						9:10
PH (s.u.)	9.03						5.12
Specific Conductivity (µS/cm)	5.12						253
Water Temperature (°C)	19.16						14.16
Turbidity (NTU)	4.0						4.0
Dissolved Oxygen (mg/L)	2.21						2.21

Sampling Data

Sampled By: Sampling Time: 9:10 Duplicate: Y or N If yes, Duplicate Time:

Notes: Signature: *Y. Misuraca*

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/19/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County: Okaloosa	Project Manager: Brad Hubbard	General Weather Conditions: Sunny	
Ambient Air Temp (°F): 50			

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- 31	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		
Depth to Free Product (DFP) (ft.):	Total Well Depth (TWD) (ft.):		
Length of water column (LWC = TWD - DFW) (ft.):	Depth to Groundwater (DGW) (ft.):		Free Product Thickness (ft.): NA
	1 casing volume (CV = LWC x X) (gals.):		3 casing volumes (3 x CV) (gals.):
	2 casing volumes (2 x CV) (gals.):		total volume bailed (gals.):

Purging Data							
	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)							2.5
Time (military)	11:39						11:41
PH (s.u.)							4.17
Specific Conductivity (µS/cm)							209
Water Temperature (°C)							17.17
Turbidity (NTU)							122
Dissolved Oxygen (mg/L)							1.55

Sampling Data			
Sampled By: Yolande Misuraca	Sampling Time: 11:41	Duplicate: Y or <input checked="" type="checkbox"/>	If yes, Duplicate Time:
Notes: Grab			
Signature: <u>Y Misuraca</u>			



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information							
Date: 3 / 20 / 2024	Site ID # 01589						
County: Charleston	Project Manager: Brad Hubbard						
Site Name: Circle K 2720886	Field Personnel: Joe Gray, Yolanda Misuraca						
General Weather Conditions: <i>Clear / Cool</i>	Ambient Air Temp (°F): <i>50's</i>						
Quality Assurance							
Meter Name: Horiba multimeter	Serial #: 1GA43QSRO						
pH, conductivity	pH 4.0: (Y) or N 4.0, 4.48						
Dissolved Oxygen (mg/L)	DO: Y or N 9.76						
Turbidity (NTU)	Turb.: 0.0 NTU: (Y) or N 0						
Well Information							
Well ID: MW- 32	Well Diameter (in): 2						
Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652	Method of Purging/Sample Collection: Bailer Pump						
MW Private-WSW Public-WSW Other	Screened Interval (ft.): 3 - 13						
Depth to Free Product (DFP) (ft.):	Total Well Depth (TWD) (ft.): 13						
Length of water column (LWC = TWD - DGW) (ft.):	Free Product Thickness (ft.):						
1 casing volume (CV = LWC x C) (gals.):	5 casing volumes (5 x CV) (gals.):						
Purging Data							
Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	0949						
Volume Purged (gallons)							0949
Time (military)	6.30						6.30
PH (s.u.)	7.41						7.41
Specific Conductivity (µS/cm)	16.57						16.57
Water Temperature (°C)	34.2						34.2
Turbidity (NTU)	1.03						1.03
Dissolved Oxygen (mg/L)							
Sampling Data							
Sampled By: Joe Gray	Sampling Time: 0949	Duplicate: <input checked="" type="radio"/> Y or N	If yes, Duplicate Time: Dup 2 0951				
Notes: 4315 Savannah Highway, Ravenel, SC		Signature: <i>Joe Gray</i>					
		Total Gallons: _____					

6/2/23



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3 / 17 / 2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear & Sunny Ambient Air Temp (°F): 60.3

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSQRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: MW-33 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW ~~RW~~ ~~Other~~ Screened Interval (ft.): 3-13 Total Well Depth (TWD) (ft.): 13
 Private-WSW ~~Public-WSW~~

Depth to Free Product (DFP) (ft.): 3.05 Free Product Thickness (ft.):
 Length of water column 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	1710							1710
PH (s.u.)	6.29							6.29
Specific Conductivity (µS/cm)	1030							1030
Water Temperature (°C)	19.40							19.40
Turbidity (NTU)	0.0							0.0
Dissolved Oxygen (mg/L)	0.32							0.32

Sampling Data

Sampled By: Joe Gray Sampling Time: 1710 Duplicate: Y or N If yes, Duplicate Time:
 Sampled By: Joe Gray

Notes: 4315 Savannah Highway, Ravenel, SC

Total Gallons:

Signature: *Joe Gray*

GRAYS

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/20/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca
 Project Manager: Brad Hubbard General Weather Conditions: Sunny Ambient Air Temp (°F): 53
 County: Chancelston Quality Assurance

Meter Name: Serial #: VU134N3T Calibration: pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity) pH 4.0: (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 IW RW Other: Screened Interval (ft.): 3 to 13 Total Well Depth (TWD) (ft.): Free Product Thickness (ft.): NA
 - Private WSW Public WSW Depth to Groundwater (DGW) (ft.): 6.59 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):
 Depth to Free Product (DFP) (ft.): 1 casing volume (CV = LWC x X) (gals.): Purging Data

		1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	Initial							2.5
Time (military)		11:50						11:50
PH (s.u.)								5.80
Specific Conductivity (µS/cm)								0.87
Water Temperature (°C)								10.39
Turbidity (NTU)								0.0
Dissolved Oxygen (mg/L)								3.23

Sampling Data

Sampled By: Sampling Time: 11:50 Duplicate: Y or N If yes, Duplicate Time:

Notes: Grab Signature: 

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/20/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County: <i>Anderson</i>	Project Manager: <i>Brad Hubbard</i>	General Weather Conditions: <i>Sunny</i>	Ambient Air Temp (°F): <i>53</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
	0.0 NTU: (Y) or N	1.0 NTU: Y or N	10.0 NTU: Y or N	

Well Information

Well ID: MW- *35* Well Diameter (inches): *2* Conversion Factor (X gal/foot) *1"* well = 0.041, *2"* well = 0.166, *4"* well = 0.662

Method of Purging/Sample Collection: _____ (Bailer) _____ Pump

MW Private WSW	RW Public WSW	Other: _____
Depth to Free Product (DFP) (ft.): _____		
Screened Interval (ft.): <i>3</i> to <i>13</i>		
Total Well Depth (TWD) (ft.): _____		
Free Product Thickness (ft.): <i>NA</i>		

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 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post
Volume Purged (gallons)						
Time (military)	<i>11:41</i>					
PH (s.u.)						<i>11:42</i>
Specific Conductivity (µS/cm)						<i>6.53</i>
Water Temperature (°C)						<i>18.84</i>
Turbidity (NTU)						<i>42.8</i>
Dissolved Oxygen (mg/L)						<i>2.38</i>

Sampled By: _____

Sampling Time: *11:42* Duplicate: Y or **N** If yes, Duplicate Time: _____

Notes: _____

Signature: *[Handwritten Signature]*

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/14/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca

Project Manager: _____ 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: or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

0.0 NTU: 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: _____

MW: _____ RW: _____ Other: _____ Screened Interval (ft.): 3 to 13 Total Well Depth (TWD) (ft.): 13

Private WSW: _____ Public WSW: _____ Depth to Groundwater (DGW) (ft.): 1.51 Free Product Thickness (ft.): NA

Depth to Free Product (DFP) (ft.): _____ 1 casing volume (CV = LWC x X) (gals.): 1.90 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
2.5	2.0	2.0	2.0	2.0	2.0	
16.18	16.24	16.28	16.32	16.36	16.39	16.40
5.36	5.52	5.16	5.44	5.51		6.12
382	523	545	545	535		0.0
20.97	20.37	20.70	20.19	21.45		21.10
24.8	318	359	423	871		951
1.70	1.19	1.23	1.76	2.47		7.37

Sampling Data

Sampled By: _____ Sampling Time: 16:40 Duplicated: or N If yes, Duplicate Time: 16:43

Notes: _____ Signature: *Y. Misuraca*

Purged @ 10.25 gallons Dup-3

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/ 20 /2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County: Charelston		Project Manager: Brad Hubbard		General Weather Conditions:					
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		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- 37		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:			
- MW IW RW Other		Screened Interval (ft.): 3 to 13		Total Well Depth (TWD) (ft.):					
- Private WSW Public WSW		Depth to Groundwater (DGW) (ft.):		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.):					
Length of water column (LWC = TWD – DGW) (ft.):									
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling		
Time (military)									
PH (s.u.)									
Specific Conductivity (µS/cm)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/L)									
Sampling Data									
Sampled By: Y. Misuraca		Sampling Time:		Duplicate: Y or N		If yes, Duplicate Time:			
Notes: -									

Y. Misuraca

Not Located, no access



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/19/2024** Site ID #: **01589** Site Name: **Circle K 2720886** Field Personnel: **Joe Gray, Yolanda Misuraca**

County: **Charleston** Project Manager: **Brad Hubbard** General Weather Conditions: **Clear/Sunny** Ambient Air Temp (°F): **50.3**

Quality Assurance

Meter Name: **Horiba multimeter** Serial #: **1GA43QSRO** Calibration:

ph, conductivity: **4.0, 4.48** pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L): **9.76** DO: Y or N

Turbidity (NTU): **0** Turb.: **0.0** NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **MW-38R** Well Diameter (in): **2** Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: **Boiler Pump**

MW Private-WSW Public-WSW Other

Depth to Free Product (DFF) (ft.): **3.18** Screened Interval (ft.): **3-13** Total Well Depth (TWD) (ft.): **13**

Length of water column (LWC = TWD - DGW) (ft.): **1** casing volume (CV = LWC x C) (gals.): **5** casing volumes (5 x CV) (gals.): **5**

Free Product Thickness (ft.): **5**

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
	.25						<input checked="" type="checkbox"/>
Volume Purged (gallons)							
Time (Military)	1115						1115
PH (s.u.)	4.63						4.63
Specific Conductivity (µS/cm)	698						698
Water Temperature (°C)	17.05						17.05
Turbidity (NTU)	0.0						0.0
Dissolved Oxygen (mg/L)	3.37						3.37

Sampling Data

Sampled By: **Joe Gray** Sampling Time: **1115** Duplicate: Y or **N** If yes, Duplicate Time:

Notes: **4315 Savannah Highway, Ravenel, SC** Signature: *Joe Gray* Total Gallons: **5**

GRAB

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/20/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County: <u>Brad Hubbard</u>	Project Manager: <u>Brad Hubbard</u>	General Weather Conditions: <u>Sunny</u>	Ambient Air Temp (°F): <u>52</u>

Quality Assurance			
Meter Name	Serial #: VU134N3T	Calibration:	
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)	pH 4.0: <u>7.15</u> or N	pH 7.0: Y or N	pH 10.0: Y or N
	0.0 NTU: <u>3.15</u> or N	1.0 NTU: Y or N	10.0 NTU: Y or N

Well Information			
Well ID: <u>DW-1</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	RW Public WSW	Other:	
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Screened Interval (ft.):	Total Well Depth (TWD) (ft.):
<u>35.07</u>	<u>3.93</u>	<u>34 to 39</u>	<u>39</u>
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.):
<u>31.14</u>	<u>5.82</u>	<u>17.52</u>	<u>NA</u>

	Purging Data					Sampling
	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	
Volume Purged (gallons)	<u>6.0</u>					<u>6.0</u>
Time (military)	<u>11:07</u>					<u>11:08</u>
PH (s.u.)	<u>7.15</u>					<u>7.10</u>
Specific Conductivity (µS/cm)	<u>373</u>					<u>389</u>
Water Temperature (°C)	<u>19.99</u>					<u>22.32</u>
Turbidity (NTU)	<u>23.9</u>					<u>323</u>
Dissolved Oxygen (mg/L)	<u>3.15</u>					<u>2.66</u>

Sampling Data			
Sampled By:	Sampling Time: <u>11:08</u>	Duplicate: Y or N	If yes, Duplicate Time:
Notes:	Signature: <u>Y. Misuraca</u>		

Purged on 1st volume
6.50 gallons purged



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



Site Information

Date: 3/19/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: DMW-2 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 Screened Interval (ft.): 34-39 Total Well Depth (TWD) (ft.): 39

MW: ~~Private-WSW~~ ~~Public-WSW~~ ~~Other~~
 Depth to Free Product (DFP) (ft.): 2.81 Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 36.19 1 casing volume (CV = LWC x C) (gals.): 6.0 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
2.5	6.0						1.5
10.39	10.75						10.48
7.19	7.31						7.39
4.91	5.61						5.02
16.60	19.37						19.91
0.0	31.0						2.92
4.70	2.93						2.87

Sampling Data

Sampled By: Joe Gray Sampling Time: 10:48 Duplicate: Y or N: If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: [Signature] Total Gallons: 7.75 gallons purged



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



Site Information

Date: 3/19/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear/Sunny Ambient Air Temp (°F): 60's

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSR0 Calibration:

ph, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 9.76 DO: Y or N

Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: DMW-3 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other
Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 32.17 Screened Interval (ft.): 35-40 Total Well Depth (TWD) (ft.): 40

Length of water column (LWC = TWD - DGW) (ft.): 32.17 Depth to Groundwater (DGW) (ft.): 7.23 Free Product Thickness (ft.):

Purging Data

Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
-.5	6.50						
13.44	13.53						13.53
6.97	7.01						7.01
5.22	4.87						4.87
19.52	20.65						20.65
0.0	43.8						43.8
0.60	1.65						1.65

1 casing volume (CV = LWC x C) (gals.): 5.43 5 casing volumes (5 x CV) (gals.):

Sampling Data

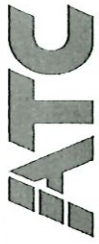
Sampled By: Joe Gray Sampling Time: 13:53 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: [Signature] Total Gallons: 60 gallons Purged

Purged 1 1/2 W.



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



Site Information

Date: 3 / 20 / 2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear / Sunny Ambient Air Temp (°F): 70°

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:

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

Dissolved Oxygen (mg/L) DO: Y or N

Turbidity (NTU) Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: PMW-4 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other Screened Interval (ft.): 40-45 Total Well Depth (TWD) (ft.): 45

Private-WSW Public-WSW Depth to Free Product (DFP) (ft.): 1.68 Free Product Thickness (ft.):

Length of water column 43.32 1 casing volume (CV = LWC x C) (gals.): 7.19 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	.25	7.5						
Time (military)	1428	1436						1436
PH (s.u.)	7.67	7.64						7.67
Specific Conductivity (µS/cm)	437	492						437
Water Temperature (°C)	17.97	19.22						17.97
Turbidity (NTU)	37.1	48.6						37.1
Dissolved Oxygen (mg/L)	2.01	1.62						1.62

Sampling Data

Sampled By: Joe Gray Sampling Time: 1436 Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: [Signature] Total Gallons: 7.75 gallons [Signature]

[Signature]



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/26/2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear / Sunny Ambient Air Temp (°F): 60's

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration: _____

ph, conductivity: 4.0, 4.48 pH 4.0: (Y) or N _____ pH 7.0: Y or N _____ pH 10.0: Y or N _____ S.C.: (Y) or N _____

Dissolved Oxygen (mg/L): 9.76 DO: Y or N _____

Turbidity (NTU): 0 Turb.: 0.0 NTU: (Y) or N _____ 1.0 NTU: Y or N _____ 10.0 NTU: Y or N _____

Well Information

Well ID: DMW-S Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailer Pump

MW: DMW-S RW: _____ Other: _____

Private-WSW: _____ Public-WSW: _____

Depth to Free Product (DFP) (ft.): _____ Screened Interval (ft.): 38-43 Total Well Depth (TWD) (ft.): 43

Length of water column (LWC = TWD - DGW) (ft.): 36.21 Depth to Groundwater (DGW) (ft.): 6.79 Free Product Thickness (ft.): _____

1 casing volume (CV = LWC x C) (gals.): 6.01 5 casing volumes (5 x CV) (gals.): _____

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
<u>.5</u>	<u>6.0</u>	<u>6.0</u>					
<u>12.56</u>	<u>1366</u>	<u>1313</u>					<u>1313</u>
<u>7.22</u>	<u>7.51</u>	<u>7.49</u>					<u>7.49</u>
<u>7.97</u>	<u>445</u>	<u>462</u>					<u>462</u>
<u>17.59</u>	<u>19.05</u>	<u>19.12</u>					<u>19.12</u>
<u>0.0</u>	<u>66.1</u>	<u>173</u>					<u>173</u>
<u>3.94</u>	<u>1.07</u>	<u>0.68</u>					<u>0.68</u>

Sampling Data

Sampled By: Joe Gray Sampling Time: 1313 Duplicate: Y or (N) If yes, Duplicate Time: _____

Notes: 4315 Savannah Highway, Ravenel, SC Signature: Joe Gray Total Gallons: 12.5 gallons

Purged @ 2nd Vol Purged



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/20/2024** Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard (General Weather Conditions: *Clear / Sunny*) Ambient Air Temp (°F): **60**

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: **RW-1** Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Baller Pump
 MW RW Other
 Private-WSW Public-WSW Screened Interval (ft.): **2-12** Total Well Depth (TWD) (ft.): **12**
 Depth to Free Product (DFP) (ft.): **3-10** Free Product Thickness (ft.):
 Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post
Volume Purged (gallons)						
Time (military)	1059					1059
PH (s.u.)	5.83					5.83
Specific Conductivity (µS/cm)	3140					3140
Water Temperature (°C)	18.59					18.59
Turbidity (NTU)	111					111
Dissolved Oxygen (mg/L)	0.61					0.61

Sampling Data

Sampled By: Joe Gray Sampling Time: **1059** Duplicate: Y or N If yes, Duplicate Time:
 Signature: *Joe Gray*

Notes: 4315 Savannah Highway, Ravenel, SC Total Gallons:
Gray

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information													
Date: 3/20/2024		Site ID #: 01589		Site Name: Circle K 886		Field Personnel: Y. Misuraca							
County: <u>Brad Hubbard</u>		Project Manager: <u>Brad Hubbard</u>		General Weather Conditions: <u>2</u>		Ambient Air Temp (°F): <u>43</u>							
Quality Assurance													
Meter Name		Serial #: VU134N3T		Calibration:									
Horiba (pH, Specific Conductivity, Temperature, Dissolved Oxygen, Turbidity)		pH 4.0: <u>(Y)</u> or N		pH 7.0: Y or N		pH 10.0: Y or N		S.C.: (Y) or N					
		0.0 NTU: <u>(Y)</u> or N		1.0 NTU: Y or N		10.0 NTU: Y or N							
Well Information													
Well ID: <u>RAW-2</u>		Well Diameter (inches): <u>2</u>		Conversion Factor (X gal/foot): <u>1" well = 0.041, 2" well = 0.166, 4" well = 0.652</u>		Method of Purging/Sample Collection: (Bailer) <u>Pump</u>							
MW Private WSW		RW Public WSW		Other:									
Depth to Free Product (DFP) (ft.):		Screened Interval (ft.): <u>2 to 12</u>		Total Well Depth (TWD) (ft.):									
Length of water column (LWC = TWD - DGM) (ft.):		Depth to Groundwater (DGM) (ft.): <u>2.51</u>		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 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.		5 th Vol.		Post	
Volume Purged (gallons)												2.5	
Time (military)		9:49										9:50	
PH (s.u.)												4.73	
Specific Conductivity (µS/cm)												.005	
Water Temperature (°C)												18.09	
Turbidity (NTU)												90.1	
Dissolved Oxygen (mg/L)												10.03	
Sampling Data													
Sampled By:		Sampling Time: <u>9:50</u>		Duplicate: Y or (N)		If yes, Duplicate Time:							
Notes:													
Grab						Signature: <u>Y. Misuraca</u>							

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information			
Date: 3/20/2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca
County:	Project Manager: Brad Hubbard	General Weather Conditions: sunny	Ambient Air Temp (°F): 42

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 2W-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 Private WSW Public WSW	Other:	Screened Interval (ft.): 2 to 12	Total Well Depth (TWD) (ft.):
Depth to Free Product (DFP) (ft.):	Depth to Groundwater (DGW) (ft.):	Free Product Thickness (ft.): NA	total volume bailed (gals.):

Purging Data							
	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)							
Time (military)	9:39						9:40
PH (s.u.)							5.61
Specific Conductivity (µS/cm)							1.24
Water Temperature (°C)							18.26
Turbidity (NTU)							75.2
Dissolved Oxygen (mg/L)							2.32

Sampling Data		
Sampled By: Y. Misuraca	Sampling Time: 9:40	Duplicate: Y or N
Notes:	If yes, Duplicate Time:	

Grab

Y. Misuraca

Signature: _____

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information

Date: 3/19/2024 Site ID #: 01589 Site Name: Circle K 886 Field Personnel: Y. Misuraca

County: Project Manager: General Weather Conditions: Ambient Air Temp (°F):

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 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: ~~WV-4~~ RW-4 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

Screened Interval (ft.): 2 to 12 Total Well Depth (TWD) (ft.): Free Product Thickness (ft.): NA

Depth to Free Product (DFP) (ft.): 2.46 3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):

Length of water column (LWC = TWD - DGM) (ft.): 1 casing volume (CV = LWC x X) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
Volume Purged (gallons)	25							25
Time (Military)	16:59							17:01
PH (s.u.)								5.81
Specific Conductivity (µS/cm)								471
Water Temperature (°C)								26.26
Turbidity (NTU)								24.9
Dissolved Oxygen (mg/L)								2.64

Sampling Data

Sampled By: Sampling Time: 17:01 Duplicate: Y or N If yes, Duplicate Time:

Notes: Grab Signature: 



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/20/2024 Site ID #: 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca

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

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:

pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 9.76 DO: Y or N

Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: RW-5 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW: RW: Other: Screened Interval (ft.):

Private-WSW: Public-WSW: Total Well Depth (TWD) (ft.):

Depth to Free Product (DFP) (ft.): 1.54 Depth to Groundwater (DGW) (ft.): 1.57 Free Product Thickness (ft.): .03

Length of water column (LWC = TWD - DGW) (ft.): 1 casing volume (CV = LWC x C) (gals.): 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th 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: Joe Gray Sampling Time: Duplicate: Y or N If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC Signature: *Yolanda Misuraca* Total Gallons: *Free product thickness of .03*

Not sample, over 100



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: **3/20/2024** Site ID #: **01589** Site Name: **Circle K 2720886** Field Personnel: **Joe Gray, Yolanda Misuraca**

County: **Charleston** Project Manager: **Brad Hubbard** General Weather Conditions: **Clear / Sunny** Ambient Air Temp (°F): **73°**

Quality Assurance

Meter Name: **Honiba multimeter** Serial #: **1GA43QSRO** Calibration:

ph, conductivity: **4.0, 4.48** pH 4.0: (Y) or N: **N** pH 7.0: Y or N: **N** pH 10.0: Y or N: **N** S.C.: (Y) or N: **N**

Dissolved Oxygen (mg/L): **9.76** DO: Y or N: **N**

Turbidity (NTU): **0** Turb.: **0.0** NTU: (Y) or N: **N** 1.0 NTU: Y or N: **N** 10.0 NTU: Y or N: **N**

Well Information

Well ID: **RW-6** Well Diameter (in): **2** Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: **Bailer Pump**

MW: **Private-WSW** Other: **Public-WSW** Screened Interval (ft.): **2-12** Total Well Depth (TWD) (ft.): **12**

Depth to Free Product (DFP) (ft.): **1.54** Depth to Groundwater (DGW) (ft.): **1.87** Free Product Thickness (ft.): **.03**

Length of water column (LWC = TWD - DGW) (ft.): **1.89** 1 casing volume (CV = LWC x C) (gals.): **2.40** 5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th 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: **Joe Gray** Sampling Time: **N/S** Duplicate: Y or N: **N** If yes, Duplicate Time:

Notes: **4315 Savannah Highway, Ravenel, SC** Signature: Total Gallons:

Not Sampled. Free Product Present

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/ /2024		Site ID #: 01589		Site Name: Circle K 886		Field Personnel: Y. Misuraca			
County: 20		Project Manager:		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: 134N3T RW-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		RW Public WSW		Other:		Screened Interval (ft.): 3 to 13		Total Well Depth (TWD) (ft.):	
Depth to Free Product (DFP) (ft.):		Depth to Groundwater (DGW) (ft.):		3.08		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 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.	
Volume Purged (gallons)								5 th Vol.	
Time (military)		10:29						Post	
PH (s.u.)								2.5	
Specific Conductivity (µS/cm)								10:30	
Water Temperature (°C)								6.02	
Turbidity (NTU)								2.64	
Dissolved Oxygen (mg/L)								19.43	
								79.9	
								1.73	
Sampling Data									
Sampled By:		Sampling Time: 10:30		Duplicate: Y or N		If yes, Duplicate Time:			
Notes:		Grab		Signature: Y. Misuraca					



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information

Date: 3/20/2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca
 County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Ambient Air Temp (°F):

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:
 pH, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N
 Dissolved Oxygen (mg/L) 9.76 DO: Y or N
 Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: RW-8 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump
 MW RW Other Screened Interval (ft.): 3-13
 Private-WSW Public-WSW Depth to Groundwater (DGW) (ft.): 1.11 Free Product Thickness (ft.):
 Depth to Free Product (DFP) (ft.): Length of water column (LWC = TWD - DGW) (ft.): 11.89 1 casing volume (CV = LWC x C) (gals.): 7.75 5 casing volumes (5 x CV) (gals.):

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
7.5	7.5	7.5	7.5	7.5	7.5	7.5	
14:05	14:16	14:21	14:27	14:33	14:39	14:40	
4.23	5.52	5.65	5.71	5.74	5.75	5.75	
22.7	29.8	49.0	52.8	51.3	50.6	50.6	
20.65	21.03	21.64	21.34	22.59	21.85	21.85	
49.0	28.1	13.6	11.9	11.4	2.22	2.22	
4.54	2.39	2.33	8.85	2.28	1.41	1.41	

Sampling Data

Sampled By: Joe Gray Sampling Time: 14:40 Duplicate: Y or N If yes, Duplicate Time:
 Signature: Y. Misuraca

Notes: 4315 Savannah Highway, Ravenel, SC
 Total Gallons: 38.25 gallons
 purged @ 38.25 gallons



Underground Storage Tank Management Division Field Data Information Sheet - Sampling



Site Information

Date: 3 / 20 / 2024 Site ID # 01589 Site Name: Circle K 2720886 Field Personnel: Joe Gray, Yolanda Misuraca

County: Charleston Project Manager: Brad Hubbard General Weather Conditions: Clear / Sunny Ambient Air Temp (°F): 70.3

Quality Assurance

Meter Name: Horiba multimeter Serial #: 1GA43QSRO Calibration:

ph, conductivity 4.0, 4.48 pH 4.0: (Y) or N pH 7.0: Y or N pH 10.0: Y or N S.C.: (Y) or N

Dissolved Oxygen (mg/L) 9.76 DO: Y or N

Turbidity (NTU) 0 Turb.: 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: RW-9 Well Diameter (in): 2 Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 Method of Purging/Sample Collection: Bailor Pump

MW RW Other

Private-WSW Public-WSW

Depth to Free Product (DFP) (ft.): 10.4

Screened Interval (ft.): 2-12 Total Well Depth (TWD) (ft.): 12

Free Product Thickness (ft.):

Length of water column (LWC = TWD - DGW) (ft.): 10.4

1 casing volume (CV = LWC x C) (gals.): 6.78

5 casing volumes (5 x CV) (gals.):

Purging Data

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sampling
Volume Purged (gallons)	.5	7.0						2.0
Time (military)	1557	1603						1606
PH (s.u.)	4.94	4.72						4.72
Specific Conductivity (µS/cm)	2460	2850						2850
Water Temperature (°C)	22.24	21.21						22.79
Turbidity (NTU)	37.6	272						199
Dissolved Oxygen (mg/L)	0.93	0.67						0.24

Sampling Data

Sampled By: Joe Gray Sampling Time: Duplicate: Y or N (N) If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature: *Joe Gray*

Total Gallons: 9.5 gallons purged & returned.

Sherry Sherris



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Site Information	
Date: 3 / 20 / 2024	Site ID # 01589
County: Charleston	Project Manager: Brad Hubbard
Site Name: Circle K 2720886	Field Personnel: Joe Gray, Yolanda Misuraca
General Weather Conditions: Sunny	Ambient Air Temp (°F): Sunny 53

Quality Assurance	
Meter Name: Horiba multimeter	Serial #: 1GA43QSRO
ph, conductivity	4.0, 4.48
Dissolved Oxygen (mg/L)	9.76
Turbidity (NTU)	0
Calibration:	pH 4.0: (Y) or N
	DO: Y or N
	Turb.: 0.0 NTU: (Y) or N
	pH 7.0: Y or N
	pH 10.0: Y or N
	S.C.: (Y) or N
	1.0 NTU: Y or N
	10.0 NTU: Y or N

Well Information	
Well ID: RW-10	Well Diameter (in): 2
MW: RW-10	Conversion Factor (C): 1" well = 0.047, 2" well = 0.166, 4" well = 0.652
Public-WSW	Method of Purging/Sample Collection: Bailor Pump
Other	Screened Interval (ft.): 3 - 13
Depth to Free Product (DFP) (ft.): 1.21	Total Well Depth (TWD) (ft.):
Length of water column (LWC = TWD - DGW) (ft.):	Free Product Thickness (ft.): .03
	5 casing volumes (5 x CV) (gals.):

Purging Data					
	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.
Initial					
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: Joe Gray	Sampling Time:
	Duplicate: Y or N
	If yes, Duplicate Time:

Notes: 4315 Savannah Highway, Ravenel, SC

Signature: *Yolanda Misuraca*

Total Gallons: *Not sampled, Free product thickness of .03*

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information									
Date: 3/ 20 /2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca						
County: Chareiston	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			10.0 NTU: Y or N		
	0.0 NTU: (Y) or N	1.0 NTU: Y or N							
Well Information									
Well ID: MW Rw-11a	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: Pump						
MW Private WSW Public WSW Other:	Screened Interval (ft.):		Total Well Depth (TWD) (ft.):						
Depth to Free Product (DFP) (ft.):	to		Free Product Thickness (ft.): NA						
Length of water column (LWC = TWD - DGW) (ft.):	Depth to Groundwater (DGW) (ft.):		3 casing volumes (3 x CV) (gals.): total volume bailed (gals.):						
	1 casing volume (CV = LWC x X) (gals.):								
Purging Data									
Volume Purged (gallons)	Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post Sampling		
Time (military)									
PH (s.u.)									
Specific Conductivity (µS/cm)									
Water Temperature (°C)									
Turbidity (NTU)									
Dissolved Oxygen (mg/L)									
Sampling Data									
Sampled By: Y. Misuraca	Sampling Time:	Duplicate: Y or N	If yes, Duplicate Time:						
Notes:	Signature: _____								

strong sheen, not sampled
Beads of product

Underground Storage Tank Management Division Field Data Information Sheet – Sampling

Site Information													
Date: 3/ 20 /2024	Site ID #: 01589	Site Name: Circle K 886	Field Personnel: Y. Misuraca										
County: Chareiston		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- Rw-11b		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: _____							
- MW IW RW Other _____		- Private WSW Public WSW		Screened Interval (ft.): _____ to _____		Total Well Depth (TWD) (ft.): _____							
Depth to Free Product (DFP) (ft.): _____		Depth to Groundwater (DGW) (ft.): 5.75		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 st Vol.		2 nd Vol.		3 rd Vol.		4 th Vol.		5 th Vol.		Post	
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: Y. Misuraca		Sampling Time: _____		Duplicate: Y or N		If yes, Duplicate Time: _____							
Notes: _____													
Signature: _____													

Strong sheen, not sampled



Underground Storage Tank Management Division Field Data Information Sheet – Sampling



Date: 3/19/2024 **Site ID #** 01589 **Site Name:** Circle K 2720886 **Field Personnel:** Joe Gray, Yolanda Misuraca

County: Charleston **Project Manager:** Brad Hubbard **General Weather Conditions:** Clear & Sunny **Ambient Air Temp (°F):** 54

Meter Name: Horiba multimeter **Serial #:** 1GA43QSR0 **Calibration:** **pH 4.0:** (Y) or N **pH 7.0:** Y or N **pH 10.0:** Y or N **S.C.:** (Y) or N

ph, conductivity 4.0, 4.48

Dissolved Oxygen (mg/L) 9.76 **DO:** Y or N

Turbidity (NTU) 0 **Turb.:** 0.0 NTU: (Y) or N 1.0 NTU: Y or N 10.0 NTU: Y or N

Well Information

Well ID: RW-12 **Well Diameter (in):** 2 **Conversion Factor (C):** 1" well = 0.047, 2" well = 0.166, 4" well = 0.652 **Method of Purging/Sample Collection:** Bailor Pump

MW **RAW** **Other**

Private-WSW **Public-WSW**

Screened Interval (ft.): 1-6 **Total Well Depth (TWD) (ft.):** 6

Depth to Free Product (DFP) (ft.): **Depth to Groundwater (DGW) (ft.):** 0.10 **Free Product Thickness (ft.):** **Free Product Thickness (ft.):**

Length of water column (LWC = TWD - DGW) (ft.): 5.90 **1 casing volume (CV = LWC x C) (gals.):** 3.89 **5 casing volumes (5 x CV) (gals.):**

Purging Data

Initial	1 st Vol.	2 nd Vol.	3 rd Vol.	4 th Vol.	5 th Vol.	Post	Sampling
5	4.0						7.0
12.58	12.58						12.58
6.37	6.37						6.37
15.40	15.40						15.40
18.16	18.16						18.16
39.6	39.6						39.6
1.35	1.35						1.35

Sampled By: Joe Gray **Sampling Time:** 1258 **Duplicate:** Y or N **If yes, Duplicate Time:**

Notes: 4315 Savannah Highway, Ravenel, SC **Signature:** *Joe Gray* **Total Gallons:** 4.5 gallon purged + 7 Deciml.

Purged @ 12:16

APPENDIX B
PURGE WATER MANIFEST

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 751-818-1100	4. Waste Tracking Number SACCMAC028-001
		5. Generator's Name and Mailing Address Atlas Technical, dba ATC Group Services 6804 North Main Street Columbia SC 29203 Generator's Phone: 803-928-9050		Generator's Site Address (if different than mailing address) 4915 Savannah Highway Ravenel SC 29470	
6. Transporter 1 Company Name Moran Environmental Recovery, LLC.		U.S. EPA ID Number SI D002718570			
7. Transporter 2 Company Name		U.S. EPA ID Number			
8. Designated Facility Name and Site Address American Bio-Mass 36 Clearwater Drive Walterboro, SC 29488 Facility's Phone: 843-582-1759		U.S. EPA ID Number			
GENERATOR	9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	1.	No.	Type		
	NON Regulated NON Hex / NHNR (BW Cutting)	2	DM	200	P
	2.				
	3.				
13. Special Handling Instructions and Additional Information PO #: MA240022 Profile #					
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
Generator's/Offeror's Printed/Typed Name CSO Ann Correll		Signature <i>[Signature]</i>		Month 03	Day 25
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit:		Year 74	
16. Transporter Acknowledgment of Receipt of Materials		Date leaving U.S.:			
TRANSPORTER	Transporter 1 Printed/Typed Name Ann Correll	Signature <i>[Signature]</i>		Month 03	Day 25
	Transporter 2 Printed/Typed Name	Signature		Year 74	
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number					
17c. Signature of Alternate Facility (or Generator) Month Day Year					
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name Shane McDonald		Signature <i>[Signature]</i>		Month 3	Day 25
				Year 24	

APPENDIX C
LABORATORY ANALYTICAL REPORTS



March 29, 2024

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

RE: Project: 257CK88613 Circle K 2720886 GW
Pace Project No.: 92720815

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2024. 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
704-977-0943
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

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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SAMPLE SUMMARY

Project: 257CK88613 Circle K 2720886 GW
Pace Project No.: 92720815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92720815001	01589 MW-1	Water	03/20/24 11:15	03/22/24 10:05
92720815002	01589 MW-2	Water	03/20/24 10:23	03/22/24 10:05
92720815003	01589 MW-3	Water	03/19/24 16:49	03/22/24 10:05
92720815004	01589 MW-4	Water	03/19/24 17:12	03/22/24 10:05
92720815005	01589 MW-5	Water	03/19/24 17:19	03/22/24 10:05
92720815006	01589 MW-7	Water	03/19/24 16:15	03/22/24 10:05
92720815007	01589 MW-8	Water	03/19/24 15:49	03/22/24 10:05
92720815008	01589 MW-9	Water	03/19/24 15:29	03/22/24 10:05
92720815009	01589 MW-10	Water	03/19/24 14:49	03/22/24 10:05
92720815010	01589 MW-11	Water	03/19/24 14:40	03/22/24 10:05
92720815011	01589 MW-12	Water	03/20/24 10:11	03/22/24 10:05
92720815012	01589 MW-13	Water	03/20/24 11:26	03/22/24 10:05
92720815013	01589 MW-14	Water	03/19/24 16:39	03/22/24 10:05
92720815014	01589 MW-15	Water	03/20/24 10:19	03/22/24 10:05
92720815015	01589 MW-16	Water	03/20/24 13:16	03/22/24 10:05
92720815016	01589 MW-17	Water	03/20/24 12:14	03/22/24 10:05
92720815017	01589 MW-18	Water	03/20/24 11:49	03/22/24 10:05
92720815018	01589 MW-19	Water	03/20/24 11:39	03/22/24 10:05
92720815019	01589 MW-20	Water	03/20/24 12:06	03/22/24 10:05
92720815020	01589 MW-21	Water	03/19/24 08:28	03/22/24 10:05
92720815021	01589 MW-22	Water	03/19/24 09:30	03/22/24 10:05
92720815022	01589 MW-23	Water	03/19/24 09:54	03/22/24 10:05
92720815023	01589 MW-24	Water	03/19/24 12:19	03/22/24 10:05
92720815024	01589 MW-25	Water	03/19/24 12:57	03/22/24 10:05
92720815025	01589 MW-26R	Water	03/19/24 10:09	03/22/24 10:05
92720815026	01589 MW-28	Water	03/19/24 12:16	03/22/24 10:05
92720815027	01589 MW-29R	Water	03/19/24 11:57	03/22/24 10:05
92720815028	01589 MW-30	Water	03/19/24 09:10	03/22/24 10:05
92720815029	01589 MW-31	Water	03/19/24 11:41	03/22/24 10:05
92720815030	01589 MW-32	Water	03/20/24 09:49	03/22/24 10:05
92720815031	01589 MW-33	Water	03/19/24 14:10	03/22/24 10:05
92720815032	01589 MW-34	Water	03/20/24 11:50	03/22/24 10:05
92720815033	01589 MW-35	Water	03/20/24 11:42	03/22/24 10:05
92720815034	01589 MW-36	Water	03/19/24 16:40	03/22/24 10:05
92720815035	01589 MW-38R	Water	03/19/24 11:15	03/22/24 10:05
92720815036	01589 DMW-1	Water	03/20/24 10:48	03/22/24 10:05
92720815037	01589 DMW-2	Water	03/19/24 13:53	03/22/24 10:05

REPORT OF LABORATORY ANALYSIS

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**SAMPLE SUMMARY**

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92720815038	01589 DMW-3	Water	03/19/24 14:36	03/22/24 10:05
92720815039	01589 DMW-4	Water	03/20/24 14:36	03/22/24 10:05
92720815040	01589 DMW-5	Water	03/20/24 13:13	03/22/24 10:05
92720815041	01589 RW-1	Water	03/20/24 10:59	03/22/24 10:05
92720815042	01589 RW-2	Water	03/20/24 09:50	03/22/24 10:05
92720815043	01589 RW-3	Water	03/20/24 09:40	03/22/24 10:05
92720815044	01589 RW-4	Water	03/19/24 17:01	03/22/24 10:05
92720815045	01589 RW-7	Water	03/20/24 10:30	03/22/24 10:05
92720815046	01589 RW-8	Water	03/20/24 14:40	03/22/24 10:05
92720815047	01589 RW-9	Water	03/20/24 16:06	03/22/24 10:05
92720815048	01589 RW-12	Water	03/19/24 12:58	03/22/24 10:05
92720815049	01589 DUP-1	Water	03/19/24 16:51	03/22/24 10:05
92720815050	01589 DUP-2	Water	03/20/24 09:51	03/22/24 10:05
92720815051	01589 DUP-3	Water	03/19/24 16:43	03/22/24 10:05
92720815052	01589 FB-1	Water	03/19/24 10:01	03/22/24 10:05
92720815053	01589 FB-2	Water	03/20/24 17:35	03/22/24 10:05
92720815054	TRIP BLANK -1	Water	03/20/24 00:00	03/22/24 10:05
92720815055	TRIP BLANK - 2	Water	03/20/24 00:00	03/22/24 10:05
92720815056	01589 SW-1	Water	03/19/24 15:39	03/22/24 10:05
92720815057	01589 SW-2	Water	03/20/24 16:00	03/22/24 10:05
92720815058	01589 SW-3	Water	03/20/24 16:10	03/22/24 10:05
92720815059	01589 SW-4	Water	03/19/24 09:40	03/22/24 10:05
92720815060	01589 SW-5	Water	03/19/24 09:04	03/22/24 10:05
92720815061	01589 SW-6	Water	03/19/24 09:54	03/22/24 10:05
92720815062	01589 SW-7	Water	03/19/24 14:39	03/22/24 10:05
92720815063	01589 SW-8	Water	03/19/24 14:44	03/22/24 10:05
92720815064	01589 SW-9	Water	03/19/24 14:53	03/22/24 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92720815001	01589 MW-1	EPA 8260D	GAW	18	PASI-C
92720815002	01589 MW-2	EPA 8260D	GAW	18	PASI-C
92720815003	01589 MW-3	EPA 8260D	GAW	18	PASI-C
92720815004	01589 MW-4	EPA 8260D	LMB	18	PASI-C
92720815005	01589 MW-5	EPA 8260D	LMB	18	PASI-C
92720815006	01589 MW-7	EPA 8260D	GAW	18	PASI-C
92720815007	01589 MW-8	EPA 8260D	LMB	18	PASI-C
92720815008	01589 MW-9	EPA 8260D	LMB	18	PASI-C
92720815009	01589 MW-10	EPA 8260D	GAW	18	PASI-C
92720815010	01589 MW-11	EPA 8260D	GAW	18	PASI-C
92720815011	01589 MW-12	EPA 8260D	GAW	18	PASI-C
92720815012	01589 MW-13	EPA 8260D	GAW	18	PASI-C
92720815013	01589 MW-14	EPA 8260D	GAW	18	PASI-C
92720815014	01589 MW-15	EPA 8260D	GAW	18	PASI-C
92720815015	01589 MW-16	EPA 8260D	GAW	18	PASI-C
92720815016	01589 MW-17	EPA 8260D	GAW	18	PASI-C
92720815017	01589 MW-18	EPA 8260D	GAW	18	PASI-C
92720815018	01589 MW-19	EPA 8260D	JJK	18	PASI-C
92720815019	01589 MW-20	EPA 8260D	JJK	18	PASI-C
92720815020	01589 MW-21	EPA 8260D	JJK	18	PASI-C
92720815021	01589 MW-22	EPA 8260D	JJK	18	PASI-C
92720815022	01589 MW-23	EPA 8260D	JJK	18	PASI-C
92720815023	01589 MW-24	EPA 8260D	JJK	18	PASI-C
92720815024	01589 MW-25	EPA 8260D	JJK	18	PASI-C
92720815025	01589 MW-26R	EPA 8260D	JJK	18	PASI-C
92720815026	01589 MW-28	EPA 8260D	JJK	18	PASI-C
92720815027	01589 MW-29R	EPA 8260D	JJK	18	PASI-C
92720815028	01589 MW-30	EPA 8260D	JJK	18	PASI-C
92720815029	01589 MW-31	EPA 8260D	JJK	18	PASI-C
92720815030	01589 MW-32	EPA 8260D	JJK	18	PASI-C
92720815031	01589 MW-33	EPA 8260D	JJK	18	PASI-C
92720815032	01589 MW-34	EPA 8260D	JJK	18	PASI-C
92720815033	01589 MW-35	EPA 8260D	JJK	18	PASI-C
92720815034	01589 MW-36	EPA 8260D	JJK	18	PASI-C
92720815035	01589 MW-38R	EPA 8260D	JJK	18	PASI-C
92720815036	01589 DMW-1	EPA 8260D	JJK	18	PASI-C
92720815037	01589 DMW-2	EPA 8260D	JJK	18	PASI-C

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92720815038	01589 DMW-3	EPA 8260D	LMB	18	PASI-C
92720815039	01589 DMW-4	EPA 8260D	LMB	18	PASI-C
92720815040	01589 DMW-5	EPA 8260D	LMB	18	PASI-C
92720815041	01589 RW-1	EPA 8260D	TMH	18	PASI-C
92720815042	01589 RW-2	EPA 8260D	LMB	18	PASI-C
92720815043	01589 RW-3	EPA 8260D	LMB	18	PASI-C
92720815044	01589 RW-4	EPA 8260D	LMB	18	PASI-C
92720815045	01589 RW-7	EPA 8260D	LMB	18	PASI-C
92720815046	01589 RW-8	EPA 8260D	LMB	18	PASI-C
92720815047	01589 RW-9	EPA 8260D	TMH	18	PASI-C
92720815048	01589 RW-12	EPA 8260D	LMB	18	PASI-C
92720815049	01589 DUP-1	EPA 8260D	LMB	18	PASI-C
92720815050	01589 DUP-2	EPA 8260D	LMB	18	PASI-C
92720815051	01589 DUP-3	EPA 8260D	LMB	18	PASI-C
92720815052	01589 FB-1	EPA 8260D	LMB	18	PASI-C
92720815053	01589 FB-2	EPA 8260D	SAS	18	PASI-C
92720815054	TRIP BLANK -1	EPA 8260D	SAS	18	PASI-C
92720815055	TRIP BLANK - 2	EPA 8260D	SAS	18	PASI-C
92720815056	01589 SW-1	EPA 8260D	SAS	18	PASI-C
92720815057	01589 SW-2	EPA 8260D	SAS	18	PASI-C
92720815058	01589 SW-3	EPA 8260D	LMB	18	PASI-C
92720815059	01589 SW-4	EPA 8260D	LMB	18	PASI-C
92720815060	01589 SW-5	EPA 8260D	LMB	18	PASI-C
92720815061	01589 SW-6	EPA 8260D	LMB	18	PASI-C
92720815062	01589 SW-7	EPA 8260D	LMB	18	PASI-C
92720815063	01589 SW-8	EPA 8260D	SAS	18	PASI-C
92720815064	01589 SW-9	EPA 8260D	SAS	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 29, 2024

General Information:

64 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 841830

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- 01589 MW-11 (Lab ID: 92720815010)
 - tert-Butyl Alcohol
- DUP (Lab ID: 4347689)
 - tert-Butyl Alcohol

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- 01589 MW-10 (Lab ID: 92720815009)
 - tert-Butyl Alcohol
- MS (Lab ID: 4347688)
 - tert-Butyl Alcohol

QC Batch: 841832

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- DUP (Lab ID: 4347697)
 - tert-Butyl Alcohol

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 4347696)
 - tert-Butyl Alcohol

QC Batch: 842181

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- 01589 MW-33 (Lab ID: 92720815031)
 - 3,3-Dimethyl-1-Butanol
 - tert-Amyl Alcohol
 - tert-Butyl Alcohol
- BLANK (Lab ID: 4349611)
 - 3,3-Dimethyl-1-Butanol

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 29, 2024

QC Batch: 842181

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- tert-Amyl Alcohol
- tert-Butyl Alcohol
- DUP (Lab ID: 4349614)
- Naphthalene

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- LCS (Lab ID: 4349612)
 - 3,3-Dimethyl-1-Butanol
 - tert-Amyl Alcohol
 - tert-Butyl Alcohol
- MS (Lab ID: 4349613)
 - Naphthalene

QC Batch: 842697

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- 01589 MW-1 (Lab ID: 92720815001)
 - tert-Butyl Alcohol
- 01589 MW-12 (Lab ID: 92720815011)
 - tert-Butyl Alcohol
- 01589 MW-15 (Lab ID: 92720815014)
 - tert-Butyl Alcohol
- 01589 MW-7 (Lab ID: 92720815006)
 - tert-Butyl Alcohol
- BLANK (Lab ID: 4352388)
 - tert-Butyl Alcohol
- DUP (Lab ID: 4352390)
 - tert-Butyl Alcohol

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- LCS (Lab ID: 4352389)
 - tert-Butyl Alcohol
- MS (Lab ID: 4352391)
 - tert-Butyl Alcohol

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 29, 2024

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 841830

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720815009

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

- MS (Lab ID: 4347688)
- tert-Butyl Formate

QC Batch: 841838

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720815038

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

- MS (Lab ID: 4347733)
- tert-Butyl Formate

QC Batch: 842181

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720929001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4349613)
- tert-Butyl Formate

QC Batch: 842269

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720702011

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4350216)
 - Benzene
 - Methyl-tert-butyl ether
 - Naphthalene
- MSD (Lab ID: 4350217)
 - Benzene
 - Methyl-tert-butyl ether

R1: RPD value was outside control limits.

- MSD (Lab ID: 4350217)
 - Ethanol

QC Batch: 842697

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720770015

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

- MS (Lab ID: 4352391)
 - tert-Butyl Formate

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 29, 2024

QC Batch: 842892

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720815045

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4353034)
 - 1,2-Dichloroethane
 - Benzene
 - Ethylbenzene
 - Methyl-tert-butyl ether
 - Naphthalene
 - Toluene
 - tert-Amyl Alcohol
 - tert-Amylmethyl ether
- MSD (Lab ID: 4353035)
 - 1,2-Dichloroethane
 - 3,3-Dimethyl-1-Butanol
 - Benzene
 - Ethyl-tert-butyl ether
 - Ethylbenzene
 - Naphthalene
 - Toluene
 - tert-Amylmethyl ether

QC Batch: 842952

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720815041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4353407)
 - 1,2-Dichloroethane
 - 3,3-Dimethyl-1-Butanol
 - Benzene
 - Diisopropyl ether
 - Ethanol
 - Ethyl-tert-butyl ether
 - Ethylbenzene
 - Methyl-tert-butyl ether
 - Naphthalene
 - Toluene
 - tert-Amyl Alcohol
 - tert-Amylmethyl ether
 - tert-Butyl Alcohol
 - tert-Butyl Formate
- MSD (Lab ID: 4353408)
 - 1,2-Dichloroethane
 - 3,3-Dimethyl-1-Butanol
 - Benzene
 - Diisopropyl ether
 - Ethanol

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 29, 2024

QC Batch: 842952

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92720815041

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Ethyl-tert-butyl ether
- Ethylbenzene
- Methyl-tert-butyl ether
- Naphthalene
- Toluene
- tert-Amyl Alcohol
- tert-Amylmethyl ether
- tert-Butyl Alcohol
- tert-Butyl Formate

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 841830

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 01589 MW-13 (Lab ID: 92720815012)
- 4-Bromofluorobenzene (S)

QC Batch: 842697

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 01589 MW-12 (Lab ID: 92720815011)
- 4-Bromofluorobenzene (S)

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-1 **Lab ID: 92720815001** Collected: 03/20/24 11:15 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	3240J	ug/L	5000	1820	50		03/28/24 23:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	133	50		03/28/24 23:47	994-05-8	
Benzene	3220	ug/L	50.0	17.2	50		03/28/24 23:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2600	50		03/28/24 23:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	1340	50		03/28/24 23:47	75-65-0	v2
tert-Butyl Formate	ND	ug/L	2500	1470	50		03/28/24 23:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	16.1	50		03/28/24 23:47	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	15.4	50		03/28/24 23:47	108-20-3	
Ethanol	ND	ug/L	10000	3610	50		03/28/24 23:47	64-17-5	
Ethylbenzene	455	ug/L	50.0	15.2	50		03/28/24 23:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	162	50		03/28/24 23:47	637-92-3	
Methyl-tert-butyl ether	120	ug/L	50.0	21.1	50		03/28/24 23:47	1634-04-4	
Naphthalene	59.7	ug/L	50.0	32.2	50		03/28/24 23:47	91-20-3	
Toluene	7170	ug/L	50.0	24.2	50		03/28/24 23:47	108-88-3	
Xylene (Total)	2290	ug/L	50.0	16.9	50		03/28/24 23:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		50		03/28/24 23:47	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		50		03/28/24 23:47	17060-07-0	
Toluene-d8 (S)	102	%	70-130		50		03/28/24 23:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-2 Lab ID: 92720815002 Collected: 03/20/24 10:23 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	3370	ug/L	1250	455	12.5		03/26/24 20:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	33.2	12.5		03/26/24 20:48	994-05-8	
Benzene	1300	ug/L	12.5	4.3	12.5		03/26/24 20:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	649	12.5		03/26/24 20:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	335	12.5		03/26/24 20:48	75-65-0	
tert-Butyl Formate	ND	ug/L	625	368	12.5		03/26/24 20:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	12.5	4.0	12.5		03/26/24 20:48	107-06-2	
Diisopropyl ether	ND	ug/L	12.5	3.8	12.5		03/26/24 20:48	108-20-3	
Ethanol	ND	ug/L	2500	902	12.5		03/26/24 20:48	64-17-5	
Ethylbenzene	191	ug/L	12.5	3.8	12.5		03/26/24 20:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	40.5	12.5		03/26/24 20:48	637-92-3	
Methyl-tert-butyl ether	65.5	ug/L	12.5	5.3	12.5		03/26/24 20:48	1634-04-4	
Naphthalene	43.4	ug/L	12.5	8.1	12.5		03/26/24 20:48	91-20-3	
Toluene	558	ug/L	12.5	6.1	12.5		03/26/24 20:48	108-88-3	
Xylene (Total)	887	ug/L	12.5	4.2	12.5		03/26/24 20:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		12.5		03/26/24 20:48	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		12.5		03/26/24 20:48	17060-07-0	
Toluene-d8 (S)	96	%	70-130		12.5		03/26/24 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-3 Lab ID: 92720815003 Collected: 03/19/24 16:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	124	ug/L	100	36.4	1		03/26/24 19:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 19:35	994-05-8	
Benzene	49.1	ug/L	1.0	0.34	1		03/26/24 19:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 19:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 19:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 19:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 19:35	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 19:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 19:35	64-17-5	
Ethylbenzene	1.6	ug/L	1.0	0.30	1		03/26/24 19:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 19:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 19:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 19:35	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 19:35	108-88-3	
Xylene (Total)	5.1	ug/L	1.0	0.34	1		03/26/24 19:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/26/24 19:35	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/26/24 19:35	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/26/24 19:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-4 Lab ID: 92720815004 Collected: 03/19/24 17:12 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 19:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 19:41	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 19:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 19:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 19:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 19:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 19:41	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 19:41	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 19:41	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 19:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 19:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 19:41	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 19:41	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 19:41	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 19:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/26/24 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/26/24 19:41	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/26/24 19:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-5 **Lab ID: 92720815005** Collected: 03/19/24 17:19 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 19:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 19:59	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 19:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 19:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 19:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 19:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 19:59	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 19:59	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 19:59	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 19:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 19:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 19:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 19:59	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 19:59	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 19:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		03/26/24 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		03/26/24 19:59	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/26/24 19:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-7 **Lab ID: 92720815006** Collected: 03/19/24 16:15 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	204	ug/L	100	36.4	1		03/28/24 20:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 20:29	994-05-8	
Benzene	94.1	ug/L	1.0	0.34	1		03/28/24 20:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 20:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 20:29	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 20:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 20:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 20:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 20:29	64-17-5	
Ethylbenzene	15.1	ug/L	1.0	0.30	1		03/28/24 20:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 20:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 20:29	1634-04-4	
Naphthalene	1.6	ug/L	1.0	0.64	1		03/28/24 20:29	91-20-3	
Toluene	15.9	ug/L	1.0	0.48	1		03/28/24 20:29	108-88-3	
Xylene (Total)	23.4	ug/L	1.0	0.34	1		03/28/24 20:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/28/24 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/28/24 20:29	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/28/24 20:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-8 **Lab ID: 92720815007** Collected: 03/19/24 15:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 20:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 20:16	994-05-8	
Benzene	0.54J	ug/L	1.0	0.34	1		03/26/24 20:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 20:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 20:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 20:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 20:16	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 20:16	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 20:16	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 20:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 20:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 20:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 20:16	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 20:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 20:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/26/24 20:16	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		03/26/24 20:16	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/26/24 20:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-9 Lab ID: 92720815008 Collected: 03/19/24 15:29 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 20:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 20:34	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 20:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 20:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 20:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 20:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 20:34	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 20:34	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 20:34	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 20:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 20:34	637-92-3	
Methyl-tert-butyl ether	0.67J	ug/L	1.0	0.42	1		03/26/24 20:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 20:34	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 20:34	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 20:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/26/24 20:34	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/26/24 20:34	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/26/24 20:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-10 Lab ID: 92720815009 Collected: 03/19/24 14:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 17:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 17:45	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 17:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 17:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 17:45	75-65-0	v3
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 17:45	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 17:45	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 17:45	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 17:45	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 17:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 17:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 17:45	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 17:45	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 17:45	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 17:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/26/24 17:45	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		03/26/24 17:45	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 17:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-11 Lab ID: 92720815010 Collected: 03/19/24 14:40 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 18:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 18:04	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 18:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 18:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 18:04	75-65-0	v2
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 18:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 18:04	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 18:04	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 18:04	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 18:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 18:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 18:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 18:04	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 18:04	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 18:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/26/24 18:04	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/26/24 18:04	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 18:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-12 **Lab ID: 92720815011** Collected: 03/20/24 10:11 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	400	146	4		03/28/24 22:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	10.6	4		03/28/24 22:35	994-05-8	
Benzene	6.3	ug/L	4.0	1.4	4		03/28/24 22:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	208	4		03/28/24 22:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	107	4		03/28/24 22:35	75-65-0	v2
tert-Butyl Formate	ND	ug/L	200	118	4		03/28/24 22:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	4.0	1.3	4		03/28/24 22:35	107-06-2	
Diisopropyl ether	ND	ug/L	4.0	1.2	4		03/28/24 22:35	108-20-3	
Ethanol	ND	ug/L	800	289	4		03/28/24 22:35	64-17-5	
Ethylbenzene	ND	ug/L	4.0	1.2	4		03/28/24 22:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	13.0	4		03/28/24 22:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	4.0	1.7	4		03/28/24 22:35	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.6	4		03/28/24 22:35	91-20-3	
Toluene	ND	ug/L	4.0	1.9	4		03/28/24 22:35	108-88-3	
Xylene (Total)	ND	ug/L	4.0	1.4	4		03/28/24 22:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		4		03/28/24 22:35	460-00-4	D3
1,2-Dichloroethane-d4 (S)	107	%	70-130		4		03/28/24 22:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		4		03/28/24 22:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-13 Lab ID: 92720815012 Collected: 03/20/24 11:26 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	134J	ug/L	200	72.8	2		03/26/24 19:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	5.3	2		03/26/24 19:54	994-05-8	
Benzene	6.7	ug/L	2.0	0.69	2		03/26/24 19:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	104	2		03/26/24 19:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	53.6	2		03/26/24 19:54	75-65-0	
tert-Butyl Formate	ND	ug/L	100	58.8	2		03/26/24 19:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	2.0	0.64	2		03/26/24 19:54	107-06-2	
Diisopropyl ether	ND	ug/L	2.0	0.62	2		03/26/24 19:54	108-20-3	
Ethanol	ND	ug/L	400	144	2		03/26/24 19:54	64-17-5	
Ethylbenzene	134	ug/L	2.0	0.61	2		03/26/24 19:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	6.5	2		03/26/24 19:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	2.0	0.84	2		03/26/24 19:54	1634-04-4	
Naphthalene	51.7	ug/L	2.0	1.3	2		03/26/24 19:54	91-20-3	
Toluene	1.8J	ug/L	2.0	0.97	2		03/26/24 19:54	108-88-3	
Xylene (Total)	218	ug/L	2.0	0.68	2		03/26/24 19:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2		03/26/24 19:54	460-00-4	D3
1,2-Dichloroethane-d4 (S)	107	%	70-130		2		03/26/24 19:54	17060-07-0	
Toluene-d8 (S)	97	%	70-130		2		03/26/24 19:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-14 Lab ID: 92720815013 Collected: 03/19/24 16:39 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 18:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 18:22	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 18:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 18:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 18:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 18:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 18:22	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 18:22	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 18:22	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 18:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 18:22	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 18:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 18:22	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 18:22	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 18:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/26/24 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/26/24 18:22	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/26/24 18:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-15 Lab ID: 92720815014 Collected: 03/20/24 10:19 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1880J	ug/L	2500	910	25		03/28/24 23:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	66.5	25		03/28/24 23:11	994-05-8	
Benzene	1730	ug/L	25.0	8.6	25		03/28/24 23:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1300	25		03/28/24 23:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	670	25		03/28/24 23:11	75-65-0	v2
tert-Butyl Formate	ND	ug/L	1250	735	25		03/28/24 23:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	8.0	25		03/28/24 23:11	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	7.7	25		03/28/24 23:11	108-20-3	
Ethanol	ND	ug/L	5000	1800	25		03/28/24 23:11	64-17-5	
Ethylbenzene	532	ug/L	25.0	7.6	25		03/28/24 23:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	81.0	25		03/28/24 23:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	10.6	25		03/28/24 23:11	1634-04-4	
Naphthalene	66.8	ug/L	25.0	16.1	25		03/28/24 23:11	91-20-3	
Toluene	2690	ug/L	25.0	12.1	25		03/28/24 23:11	108-88-3	
Xylene (Total)	2480	ug/L	25.0	8.4	25		03/28/24 23:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		25		03/28/24 23:11	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		25		03/28/24 23:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130		25		03/28/24 23:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-16 Lab ID: 92720815015 Collected: 03/20/24 13:16 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 18:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 18:40	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 18:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 18:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 18:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 18:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 18:40	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 18:40	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 18:40	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 18:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 18:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 18:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 18:40	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 18:40	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 18:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		03/26/24 18:40	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/26/24 18:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 18:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-17 Lab ID: 92720815016 Collected: 03/20/24 12:14 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 18:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 18:59	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 18:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 18:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 18:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 18:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 18:59	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 18:59	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 18:59	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 18:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 18:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 18:59	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 18:59	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 18:59	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 18:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/26/24 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/26/24 18:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-18 Lab ID: 92720815017 Collected: 03/20/24 11:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 19:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 19:17	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 19:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 19:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 19:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 19:17	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 19:17	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 19:17	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 19:17	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 19:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 19:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 19:17	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 19:17	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 19:17	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 19:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		03/26/24 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/26/24 19:17	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/26/24 19:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-19 **Lab ID: 92720815018** Collected: 03/20/24 11:39 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 04:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 04:09	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 04:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 04:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 04:09	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 04:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 04:09	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 04:09	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 04:09	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 04:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 04:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 04:09	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 04:09	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 04:09	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 04:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/27/24 04:09	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		03/27/24 04:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		03/27/24 04:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-20 Lab ID: 92720815019 Collected: 03/20/24 12:06 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 04:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 04:28	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 04:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 04:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 04:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 04:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 04:28	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 04:28	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 04:28	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 04:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 04:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 04:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 04:28	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 04:28	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 04:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/27/24 04:28	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		03/27/24 04:28	17060-07-0	
Toluene-d8 (S)	95	%	70-130		1		03/27/24 04:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-21 **Lab ID: 92720815020** Collected: 03/19/24 08:28 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 04:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 04:46	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 04:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 04:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 04:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 04:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 04:46	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 04:46	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 04:46	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 04:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 04:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 04:46	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 04:46	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 04:46	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 04:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/27/24 04:46	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		03/27/24 04:46	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		03/27/24 04:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-22 Lab ID: 92720815021 Collected: 03/19/24 09:30 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 05:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 05:04	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 05:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 05:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 05:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 05:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 05:04	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 05:04	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 05:04	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 05:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 05:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 05:04	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 05:04	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 05:04	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 05:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/27/24 05:04	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		03/27/24 05:04	17060-07-0	
Toluene-d8 (S)	91	%	70-130		1		03/27/24 05:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-23 Lab ID: 92720815022 Collected: 03/19/24 09:54 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 08:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 08:24	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 08:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 08:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 08:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 08:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 08:24	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 08:24	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 08:24	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 08:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 08:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 08:24	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 08:24	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 08:24	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 08:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/27/24 08:24	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		03/27/24 08:24	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/27/24 08:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-24 Lab ID: 92720815023 Collected: 03/19/24 12:19 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 05:22	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 05:22	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 05:22	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 05:22	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 05:22	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 05:22	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 05:22	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 05:22	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 05:22	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 05:22	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 05:22	637-92-3	
Methyl-tert-butyl ether	0.45J	ug/L	1.0	0.42	1		03/27/24 05:22	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 05:22	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 05:22	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 05:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/27/24 05:22	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		03/27/24 05:22	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 05:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-25 **Lab ID: 92720815024** Collected: 03/19/24 12:57 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 05:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 05:40	994-05-8	
Benzene	15.2	ug/L	1.0	0.34	1		03/27/24 05:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 05:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 05:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 05:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 05:40	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 05:40	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 05:40	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 05:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 05:40	637-92-3	
Methyl-tert-butyl ether	2.5	ug/L	1.0	0.42	1		03/27/24 05:40	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 05:40	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 05:40	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 05:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 05:40	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		03/27/24 05:40	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 05:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-26R **Lab ID: 92720815025** Collected: 03/19/24 10:09 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 05:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 05:58	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 05:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 05:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 05:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 05:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 05:58	107-06-2	
Diisopropyl ether	0.38J	ug/L	1.0	0.31	1		03/27/24 05:58	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 05:58	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 05:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 05:58	637-92-3	
Methyl-tert-butyl ether	4.3	ug/L	1.0	0.42	1		03/27/24 05:58	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 05:58	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 05:58	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 05:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 05:58	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		03/27/24 05:58	17060-07-0	
Toluene-d8 (S)	93	%	70-130		1		03/27/24 05:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-28 **Lab ID: 92720815026** Collected: 03/19/24 12:16 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 06:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 06:16	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 06:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 06:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 06:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 06:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 06:16	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 06:16	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 06:16	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 06:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 06:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 06:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 06:16	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 06:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 06:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		03/27/24 06:16	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		03/27/24 06:16	17060-07-0	
Toluene-d8 (S)	96	%	70-130		1		03/27/24 06:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-29R Lab ID: 92720815027 Collected: 03/19/24 11:57 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1380	ug/L	100	36.4	1		03/27/24 08:42	75-85-4	
tert-Amylmethyl ether	6.8J	ug/L	10.0	2.7	1		03/27/24 08:42	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 08:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 08:42	624-95-3	
tert-Butyl Alcohol	159	ug/L	100	26.8	1		03/27/24 08:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 08:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 08:42	107-06-2	
Diisopropyl ether	0.87J	ug/L	1.0	0.31	1		03/27/24 08:42	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 08:42	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 08:42	100-41-4	
Ethyl-tert-butyl ether	11.9	ug/L	10.0	3.2	1		03/27/24 08:42	637-92-3	
Methyl-tert-butyl ether	59.6	ug/L	1.0	0.42	1		03/27/24 08:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 08:42	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 08:42	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 08:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 08:42	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%	70-130		1		03/27/24 08:42	17060-07-0	
Toluene-d8 (S)	89	%	70-130		1		03/27/24 08:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-30 Lab ID: 92720815028 Collected: 03/19/24 09:10 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 06:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 06:35	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 06:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 06:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 06:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 06:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 06:35	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 06:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 06:35	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 06:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 06:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 06:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 06:35	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 06:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 06:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/27/24 06:35	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		03/27/24 06:35	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 06:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-31 Lab ID: 92720815029 Collected: 03/19/24 11:41 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 06:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 06:53	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 06:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 06:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 06:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 06:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 06:53	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 06:53	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 06:53	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 06:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 06:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 06:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 06:53	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 06:53	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 06:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 06:53	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		03/27/24 06:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 06:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-32 Lab ID: 92720815030 Collected: 03/20/24 09:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1560	ug/L	200	72.8	2		03/27/24 09:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	5.3	2		03/27/24 09:36	994-05-8	
Benzene	335	ug/L	2.0	0.69	2		03/27/24 09:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	104	2		03/27/24 09:36	624-95-3	
tert-Butyl Alcohol	262	ug/L	200	53.6	2		03/27/24 09:36	75-65-0	
tert-Butyl Formate	ND	ug/L	100	58.8	2		03/27/24 09:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	2.0	0.64	2		03/27/24 09:36	107-06-2	
Diisopropyl ether	ND	ug/L	2.0	0.62	2		03/27/24 09:36	108-20-3	
Ethanol	ND	ug/L	400	144	2		03/27/24 09:36	64-17-5	
Ethylbenzene	46.7	ug/L	2.0	0.61	2		03/27/24 09:36	100-41-4	
Ethyl-tert-butyl ether	19.9J	ug/L	20.0	6.5	2		03/27/24 09:36	637-92-3	
Methyl-tert-butyl ether	6.6	ug/L	2.0	0.84	2		03/27/24 09:36	1634-04-4	
Naphthalene	12.1	ug/L	2.0	1.3	2		03/27/24 09:36	91-20-3	
Toluene	8.0	ug/L	2.0	0.97	2		03/27/24 09:36	108-88-3	
Xylene (Total)	16.5	ug/L	2.0	0.68	2		03/27/24 09:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2		03/27/24 09:36	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		2		03/27/24 09:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		2		03/27/24 09:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-33 Lab ID: 92720815031 Collected: 03/19/24 14:10 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	10000	3640	100		03/28/24 06:11	75-85-4	v2
tert-Amylmethyl ether	ND	ug/L	1000	266	100		03/28/24 06:11	994-05-8	
Benzene	3490	ug/L	100	34.5	100		03/28/24 06:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5190	100		03/28/24 06:11	624-95-3	v2
tert-Butyl Alcohol	ND	ug/L	10000	2680	100		03/28/24 06:11	75-65-0	v2
tert-Butyl Formate	ND	ug/L	5000	2940	100		03/28/24 06:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	32.2	100		03/28/24 06:11	107-06-2	
Diisopropyl ether	ND	ug/L	100	30.8	100		03/28/24 06:11	108-20-3	
Ethanol	ND	ug/L	20000	7220	100		03/28/24 06:11	64-17-5	
Ethylbenzene	2120	ug/L	100	30.4	100		03/28/24 06:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	324	100		03/28/24 06:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	42.2	100		03/28/24 06:11	1634-04-4	
Naphthalene	347	ug/L	100	64.5	100		03/28/24 06:11	91-20-3	
Toluene	13700	ug/L	100	48.5	100		03/28/24 06:11	108-88-3	
Xylene (Total)	11900	ug/L	100	33.8	100		03/28/24 06:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		03/28/24 06:11	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		100		03/28/24 06:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130		100		03/28/24 06:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-34 **Lab ID: 92720815032** Collected: 03/20/24 11:50 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 07:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 07:11	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 07:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 07:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 07:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 07:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 07:11	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 07:11	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 07:11	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 07:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 07:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 07:11	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 07:11	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 07:11	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 07:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		03/27/24 07:11	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		03/27/24 07:11	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/27/24 07:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-35 Lab ID: 92720815033 Collected: 03/20/24 11:42 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 07:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 07:29	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 07:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 07:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 07:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 07:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 07:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 07:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 07:29	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 07:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 07:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 07:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 07:29	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 07:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 07:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/27/24 07:29	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		03/27/24 07:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/27/24 07:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-36 Lab ID: 92720815034 Collected: 03/19/24 16:40 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	919	ug/L	100	36.4	1		03/27/24 09:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 09:00	994-05-8	
Benzene	7.1	ug/L	1.0	0.34	1		03/27/24 09:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 09:00	624-95-3	
tert-Butyl Alcohol	37.1J	ug/L	100	26.8	1		03/27/24 09:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 09:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 09:00	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 09:00	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 09:00	64-17-5	
Ethylbenzene	4.0	ug/L	1.0	0.30	1		03/27/24 09:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 09:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 09:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 09:00	91-20-3	
Toluene	0.90J	ug/L	1.0	0.48	1		03/27/24 09:00	108-88-3	
Xylene (Total)	11.5	ug/L	1.0	0.34	1		03/27/24 09:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/27/24 09:00	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		03/27/24 09:00	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/27/24 09:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 MW-38R Lab ID: 92720815035 Collected: 03/19/24 11:15 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 09:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 09:18	994-05-8	
Benzene	3.6	ug/L	1.0	0.34	1		03/27/24 09:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 09:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 09:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 09:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 09:18	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 09:18	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 09:18	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 09:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 09:18	637-92-3	
Methyl-tert-butyl ether	9.2	ug/L	1.0	0.42	1		03/27/24 09:18	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 09:18	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 09:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 09:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 09:18	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		03/27/24 09:18	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 09:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DMW-1 Lab ID: 92720815036 Collected: 03/20/24 10:48 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 07:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 07:47	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 07:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 07:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 07:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 07:47	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 07:47	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 07:47	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 07:47	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 07:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 07:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 07:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 07:47	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 07:47	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 07:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 07:47	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		03/27/24 07:47	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		03/27/24 07:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DMW-2 Lab ID: 92720815037 Collected: 03/19/24 13:53 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 08:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 08:05	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 08:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 08:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 08:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 08:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 08:05	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 08:05	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 08:05	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 08:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 08:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 08:05	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 08:05	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 08:05	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 08:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/27/24 08:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/27/24 08:05	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/27/24 08:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DMW-3 Lab ID: 92720815038 Collected: 03/19/24 14:36 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 14:01	75-85-4	
tert-Amylmethyl ether	3.6J	ug/L	10.0	2.7	1		03/26/24 14:01	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 14:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 14:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 14:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 14:01	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 14:01	107-06-2	
Diisopropyl ether	0.46J	ug/L	1.0	0.31	1		03/26/24 14:01	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 14:01	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 14:01	100-41-4	
Ethyl-tert-butyl ether	3.7J	ug/L	10.0	3.2	1		03/26/24 14:01	637-92-3	
Methyl-tert-butyl ether	16.8	ug/L	1.0	0.42	1		03/26/24 14:01	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 14:01	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 14:01	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 14:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/26/24 14:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/24 14:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DMW-4 Lab ID: 92720815039 Collected: 03/20/24 14:36 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 14:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 14:19	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 14:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 14:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 14:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 14:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 14:19	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 14:19	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 14:19	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 14:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 14:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 14:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 14:19	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 14:19	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 14:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/26/24 14:19	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/24 14:19	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/26/24 14:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DMW-5 Lab ID: 92720815040 Collected: 03/20/24 13:13 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 14:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 14:38	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 14:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 14:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 14:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 14:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 14:38	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 14:38	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 14:38	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 14:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 14:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 14:38	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 14:38	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 14:38	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 14:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/24 14:38	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/24 14:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 14:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-1 Lab ID: 92720815041 Collected: 03/20/24 10:59 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	13100	ug/L	12500	4550	125		03/29/24 13:26	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	1250	332	125		03/29/24 13:26	994-05-8	M1
Benzene	8170	ug/L	125	43.1	125		03/29/24 13:26	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	12500	6490	125		03/29/24 13:26	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	12500	3350	125		03/29/24 13:26	75-65-0	M1
tert-Butyl Formate	ND	ug/L	6250	3680	125		03/29/24 13:26	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	125	40.2	125		03/29/24 13:26	107-06-2	M1
Diisopropyl ether	ND	ug/L	125	38.5	125		03/29/24 13:26	108-20-3	M1
Ethanol	13400J	ug/L	25000	9020	125		03/29/24 13:26	64-17-5	M1
Ethylbenzene	1700	ug/L	125	38.0	125		03/29/24 13:26	100-41-4	M1
Ethyl-tert-butyl ether	ND	ug/L	1250	405	125		03/29/24 13:26	637-92-3	M1
Methyl-tert-butyl ether	629	ug/L	125	52.8	125		03/29/24 13:26	1634-04-4	M1
Naphthalene	297	ug/L	125	80.6	125		03/29/24 13:26	91-20-3	M1
Toluene	20800	ug/L	125	60.6	125		03/29/24 13:26	108-88-3	M1
Xylene (Total)	12500	ug/L	125	42.2	125		03/29/24 13:26	1330-20-7	MS
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		125		03/29/24 13:26	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		125		03/29/24 13:26	17060-07-0	
Toluene-d8 (S)	103	%	70-130		125		03/29/24 13:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-2 Lab ID: 92720815042 Collected: 03/20/24 09:50 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	500000	182000	5000		03/29/24 12:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50000	13300	5000		03/29/24 12:10	994-05-8	
Benzene	16800	ug/L	5000	1720	5000		03/29/24 12:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500000	260000	5000		03/29/24 12:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500000	134000	5000		03/29/24 12:10	75-65-0	
tert-Butyl Formate	ND	ug/L	250000	147000	5000		03/29/24 12:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5000	1610	5000		03/29/24 12:10	107-06-2	
Diisopropyl ether	ND	ug/L	5000	1540	5000		03/29/24 12:10	108-20-3	
Ethanol	36800000	ug/L	1000000	361000	5000		03/29/24 12:10	64-17-5	
Ethylbenzene	3260J	ug/L	5000	1520	5000		03/29/24 12:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50000	16200	5000		03/29/24 12:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5000	2110	5000		03/29/24 12:10	1634-04-4	
Naphthalene	ND	ug/L	5000	3220	5000		03/29/24 12:10	91-20-3	
Toluene	39300	ug/L	5000	2420	5000		03/29/24 12:10	108-88-3	
Xylene (Total)	16700	ug/L	5000	1690	5000		03/29/24 12:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5000		03/29/24 12:10	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		5000		03/29/24 12:10	17060-07-0	
Toluene-d8 (S)	102	%	70-130		5000		03/29/24 12:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-3 **Lab ID: 92720815043** Collected: 03/20/24 09:40 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	3520	ug/L	2500	910	25		03/29/24 11:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	66.5	25		03/29/24 11:35	994-05-8	
Benzene	2340	ug/L	25.0	8.6	25		03/29/24 11:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1300	25		03/29/24 11:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	670	25		03/29/24 11:35	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	735	25		03/29/24 11:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	8.0	25		03/29/24 11:35	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	7.7	25		03/29/24 11:35	108-20-3	
Ethanol	ND	ug/L	5000	1800	25		03/29/24 11:35	64-17-5	
Ethylbenzene	479	ug/L	25.0	7.6	25		03/29/24 11:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	81.0	25		03/29/24 11:35	637-92-3	
Methyl-tert-butyl ether	37.1	ug/L	25.0	10.6	25		03/29/24 11:35	1634-04-4	
Naphthalene	102	ug/L	25.0	16.1	25		03/29/24 11:35	91-20-3	
Toluene	4270	ug/L	25.0	12.1	25		03/29/24 11:35	108-88-3	
Xylene (Total)	1970	ug/L	25.0	8.4	25		03/29/24 11:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		25		03/29/24 11:35	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		25		03/29/24 11:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		25		03/29/24 11:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-4 Lab ID: 92720815044 Collected: 03/19/24 17:01 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	204	ug/L	100	36.4	1		03/26/24 16:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 16:10	994-05-8	
Benzene	14.0	ug/L	1.0	0.34	1		03/26/24 16:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 16:10	624-95-3	
tert-Butyl Alcohol	59.3J	ug/L	100	26.8	1		03/26/24 16:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 16:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 16:10	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 16:10	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 16:10	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 16:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 16:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 16:10	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 16:10	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 16:10	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 16:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/24 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/26/24 16:10	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 16:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-7 Lab ID: 92720815045 Collected: 03/20/24 10:30 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	19200	ug/L	10000	3640	100		03/29/24 11:53	75-85-4	M1
tert-Amylmethyl ether	ND	ug/L	1000	266	100		03/29/24 11:53	994-05-8	M1
Benzene	9850	ug/L	100	34.5	100		03/29/24 11:53	71-43-2	M1
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5190	100		03/29/24 11:53	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	10000	2680	100		03/29/24 11:53	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2940	100		03/29/24 11:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	32.2	100		03/29/24 11:53	107-06-2	M1
Diisopropyl ether	ND	ug/L	100	30.8	100		03/29/24 11:53	108-20-3	
Ethanol	ND	ug/L	20000	7220	100		03/29/24 11:53	64-17-5	
Ethylbenzene	1700	ug/L	100	30.4	100		03/29/24 11:53	100-41-4	M1
Ethyl-tert-butyl ether	ND	ug/L	1000	324	100		03/29/24 11:53	637-92-3	M1
Methyl-tert-butyl ether	300	ug/L	100	42.2	100		03/29/24 11:53	1634-04-4	M1
Naphthalene	214	ug/L	100	64.5	100		03/29/24 11:53	91-20-3	M1
Toluene	15600	ug/L	100	48.5	100		03/29/24 11:53	108-88-3	M1
Xylene (Total)	8890	ug/L	100	33.8	100		03/29/24 11:53	1330-20-7	MS
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		03/29/24 11:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		100		03/29/24 11:53	17060-07-0	
Toluene-d8 (S)	99	%	70-130		100		03/29/24 11:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-8 Lab ID: 92720815046 Collected: 03/20/24 14:40 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	2450	ug/L	200	72.8	2		03/29/24 00:55	75-85-4	
tert-Amylmethyl ether	11.4J	ug/L	20.0	5.3	2		03/29/24 00:55	994-05-8	
Benzene	243	ug/L	2.0	0.69	2		03/29/24 00:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	104	2		03/29/24 00:55	624-95-3	
tert-Butyl Alcohol	185J	ug/L	200	53.6	2		03/29/24 00:55	75-65-0	
tert-Butyl Formate	ND	ug/L	100	58.8	2		03/29/24 00:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	2.0	0.64	2		03/29/24 00:55	107-06-2	
Diisopropyl ether	ND	ug/L	2.0	0.62	2		03/29/24 00:55	108-20-3	
Ethanol	ND	ug/L	400	144	2		03/29/24 00:55	64-17-5	
Ethylbenzene	55.3	ug/L	2.0	0.61	2		03/29/24 00:55	100-41-4	
Ethyl-tert-butyl ether	36.7	ug/L	20.0	6.5	2		03/29/24 00:55	637-92-3	
Methyl-tert-butyl ether	47.9	ug/L	2.0	0.84	2		03/29/24 00:55	1634-04-4	
Naphthalene	29.0	ug/L	2.0	1.3	2		03/29/24 00:55	91-20-3	
Toluene	68.5	ug/L	2.0	0.97	2		03/29/24 00:55	108-88-3	
Xylene (Total)	408	ug/L	2.0	0.68	2		03/29/24 00:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2		03/29/24 00:55	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		2		03/29/24 00:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2		03/29/24 00:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-9 Lab ID: 92720815047 Collected: 03/20/24 16:06 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	33900J	ug/L	40000	14600	400		03/29/24 13:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	4000	1060	400		03/29/24 13:45	994-05-8	
Benzene	2400	ug/L	400	138	400		03/29/24 13:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	40000	20800	400		03/29/24 13:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	40000	10700	400		03/29/24 13:45	75-65-0	
tert-Butyl Formate	ND	ug/L	20000	11800	400		03/29/24 13:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	400	129	400		03/29/24 13:45	107-06-2	
Diisopropyl ether	ND	ug/L	400	123	400		03/29/24 13:45	108-20-3	
Ethanol	1830000	ug/L	80000	28900	400		03/29/24 13:45	64-17-5	
Ethylbenzene	1050	ug/L	400	122	400		03/29/24 13:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	4000	1300	400		03/29/24 13:45	637-92-3	
Methyl-tert-butyl ether	636	ug/L	400	169	400		03/29/24 13:45	1634-04-4	
Naphthalene	ND	ug/L	400	258	400		03/29/24 13:45	91-20-3	
Toluene	8740	ug/L	400	194	400		03/29/24 13:45	108-88-3	
Xylene (Total)	5430	ug/L	400	135	400		03/29/24 13:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		400		03/29/24 13:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		400		03/29/24 13:45	17060-07-0	
Toluene-d8 (S)	105	%	70-130		400		03/29/24 13:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 RW-12 **Lab ID: 92720815048** Collected: 03/19/24 12:58 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1140J	ug/L	2000	728	20		03/26/24 17:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	53.2	20		03/26/24 17:05	994-05-8	
Benzene	550	ug/L	20.0	6.9	20		03/26/24 17:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1040	20		03/26/24 17:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	536	20		03/26/24 17:05	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	588	20		03/26/24 17:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	20.0	6.4	20		03/26/24 17:05	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	6.2	20		03/26/24 17:05	108-20-3	
Ethanol	ND	ug/L	4000	1440	20		03/26/24 17:05	64-17-5	
Ethylbenzene	540	ug/L	20.0	6.1	20		03/26/24 17:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	64.8	20		03/26/24 17:05	637-92-3	
Methyl-tert-butyl ether	9.7J	ug/L	20.0	8.4	20		03/26/24 17:05	1634-04-4	
Naphthalene	43.1	ug/L	20.0	12.9	20		03/26/24 17:05	91-20-3	
Toluene	2490	ug/L	20.0	9.7	20		03/26/24 17:05	108-88-3	
Xylene (Total)	1360	ug/L	20.0	6.8	20		03/26/24 17:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		20		03/26/24 17:05	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		20		03/26/24 17:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130		20		03/26/24 17:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DUP-1 Lab ID: 92720815049 Collected: 03/19/24 16:51 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	73.6J	ug/L	100	36.4	1		03/28/24 22:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 22:34	994-05-8	
Benzene	45.9	ug/L	1.0	0.34	1		03/28/24 22:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 22:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 22:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 22:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 22:34	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 22:34	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 22:34	64-17-5	
Ethylbenzene	1.2	ug/L	1.0	0.30	1		03/28/24 22:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 22:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 22:34	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 22:34	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/28/24 22:34	108-88-3	
Xylene (Total)	4.2	ug/L	1.0	0.34	1		03/28/24 22:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/28/24 22:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/28/24 22:34	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/28/24 22:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DUP-2 Lab ID: 92720815050 Collected: 03/20/24 09:51 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	1100	ug/L	200	72.8	2		03/29/24 00:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	5.3	2		03/29/24 00:38	994-05-8	
Benzene	319	ug/L	2.0	0.69	2		03/29/24 00:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	104	2		03/29/24 00:38	624-95-3	
tert-Butyl Alcohol	271	ug/L	200	53.6	2		03/29/24 00:38	75-65-0	
tert-Butyl Formate	ND	ug/L	100	58.8	2		03/29/24 00:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	2.0	0.64	2		03/29/24 00:38	107-06-2	
Diisopropyl ether	ND	ug/L	2.0	0.62	2		03/29/24 00:38	108-20-3	
Ethanol	ND	ug/L	400	144	2		03/29/24 00:38	64-17-5	
Ethylbenzene	47.6	ug/L	2.0	0.61	2		03/29/24 00:38	100-41-4	
Ethyl-tert-butyl ether	24.2	ug/L	20.0	6.5	2		03/29/24 00:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	2.0	0.84	2		03/29/24 00:38	1634-04-4	
Naphthalene	12.8	ug/L	2.0	1.3	2		03/29/24 00:38	91-20-3	
Toluene	9.2	ug/L	2.0	0.97	2		03/29/24 00:38	108-88-3	
Xylene (Total)	18.2	ug/L	2.0	0.68	2		03/29/24 00:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		2		03/29/24 00:38	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130		2		03/29/24 00:38	17060-07-0	
Toluene-d8 (S)	99	%	70-130		2		03/29/24 00:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 DUP-3 Lab ID: 92720815051 Collected: 03/19/24 16:43 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	852	ug/L	100	36.4	1		03/28/24 21:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 21:23	994-05-8	
Benzene	6.5	ug/L	1.0	0.34	1		03/28/24 21:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 21:23	624-95-3	
tert-Butyl Alcohol	41.9J	ug/L	100	26.8	1		03/28/24 21:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 21:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 21:23	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 21:23	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 21:23	64-17-5	
Ethylbenzene	4.1	ug/L	1.0	0.30	1		03/28/24 21:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 21:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 21:23	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 21:23	91-20-3	
Toluene	1.1	ug/L	1.0	0.48	1		03/28/24 21:23	108-88-3	
Xylene (Total)	12.2	ug/L	1.0	0.34	1		03/28/24 21:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/28/24 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/28/24 21:23	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/28/24 21:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 FB-1 **Lab ID: 92720815052** Collected: 03/19/24 10:01 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 13:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 13:42	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 13:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 13:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 13:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 13:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 13:42	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 13:42	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 13:42	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 13:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 13:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 13:42	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 13:42	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 13:42	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 13:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/26/24 13:42	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/26/24 13:42	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 13:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 FB-2 **Lab ID: 92720815053** Collected: 03/20/24 17:35 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 23:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 23:16	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 23:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 23:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 23:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 23:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 23:16	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 23:16	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 23:16	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 23:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 23:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 23:16	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 23:16	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 23:16	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 23:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/27/24 23:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/27/24 23:16	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/27/24 23:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: TRIP BLANK -1 Lab ID: 92720815054 Collected: 03/20/24 00:00 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 23:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 23:35	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 23:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 23:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 23:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 23:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 23:35	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 23:35	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 23:35	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 23:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 23:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 23:35	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 23:35	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 23:35	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 23:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/27/24 23:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/27/24 23:35	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/27/24 23:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: TRIP BLANK - 2 Lab ID: 92720815055 Collected: 03/20/24 00:00 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/27/24 23:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/27/24 23:53	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/27/24 23:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/27/24 23:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/27/24 23:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/27/24 23:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/27/24 23:53	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/27/24 23:53	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/27/24 23:53	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/27/24 23:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/27/24 23:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/27/24 23:53	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/27/24 23:53	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/27/24 23:53	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/27/24 23:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/27/24 23:53	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/27/24 23:53	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/27/24 23:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-1 **Lab ID: 92720815056** Collected: 03/19/24 15:39 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/28/24 00:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 00:30	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/28/24 00:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 00:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 00:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 00:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 00:30	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 00:30	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 00:30	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/28/24 00:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 00:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 00:30	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 00:30	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/28/24 00:30	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/28/24 00:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/28/24 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/28/24 00:30	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/28/24 00:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-2 **Lab ID: 92720815057** Collected: 03/20/24 16:00 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/28/24 00:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 00:48	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/28/24 00:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 00:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 00:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 00:48	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 00:48	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 00:48	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 00:48	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/28/24 00:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 00:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 00:48	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 00:48	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/28/24 00:48	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/28/24 00:48	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/28/24 00:48	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/28/24 00:48	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/28/24 00:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-3 Lab ID: 92720815058 Collected: 03/20/24 16:10 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 14:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 14:56	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 14:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 14:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 14:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 14:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 14:56	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 14:56	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 14:56	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 14:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 14:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 14:56	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 14:56	91-20-3	
Toluene	2.0	ug/L	1.0	0.48	1		03/26/24 14:56	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 14:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/26/24 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/26/24 14:56	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 14:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-4 Lab ID: 92720815059 Collected: 03/19/24 09:40 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 15:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 15:14	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 15:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 15:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 15:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 15:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 15:14	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 15:14	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 15:14	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 15:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 15:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 15:14	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 15:14	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 15:14	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 15:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/26/24 15:14	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/26/24 15:14	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 15:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-5 **Lab ID: 92720815060** Collected: 03/19/24 09:04 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 16:29	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 16:29	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 16:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 16:29	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 16:29	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 16:29	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 16:29	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 16:29	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 16:29	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 16:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 16:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 16:29	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 16:29	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 16:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 16:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/26/24 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/26/24 16:29	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/26/24 16:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-6 **Lab ID: 92720815061** Collected: 03/19/24 09:54 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 15:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 15:33	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 15:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 15:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 15:33	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 15:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 15:33	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 15:33	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 15:33	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 15:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 15:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 15:33	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 15:33	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 15:33	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 15:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/26/24 15:33	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/26/24 15:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 15:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-7 Lab ID: 92720815062 Collected: 03/19/24 14:39 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/26/24 15:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/26/24 15:51	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/26/24 15:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/26/24 15:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/26/24 15:51	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/26/24 15:51	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/26/24 15:51	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/26/24 15:51	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/26/24 15:51	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/26/24 15:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/26/24 15:51	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/26/24 15:51	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/26/24 15:51	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/26/24 15:51	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/26/24 15:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/26/24 15:51	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/26/24 15:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/26/24 15:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-8 Lab ID: 92720815063 Collected: 03/19/24 14:44 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/28/24 01:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 01:07	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/28/24 01:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 01:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 01:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 01:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 01:07	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 01:07	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 01:07	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/28/24 01:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 01:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 01:07	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 01:07	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/28/24 01:07	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/28/24 01:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/28/24 01:07	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/28/24 01:07	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/28/24 01:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Sample: 01589 SW-9 Lab ID: 92720815064 Collected: 03/19/24 14:53 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/28/24 01:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/28/24 01:25	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/28/24 01:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/28/24 01:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/28/24 01:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/28/24 01:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/28/24 01:25	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/28/24 01:25	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/28/24 01:25	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/28/24 01:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/28/24 01:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/28/24 01:25	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/28/24 01:25	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/28/24 01:25	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/28/24 01:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/28/24 01:25	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/28/24 01:25	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/28/24 01:25	2037-26-5	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch: 841830 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92720815002, 92720815003, 92720815009, 92720815010, 92720815012, 92720815013, 92720815015, 92720815016, 92720815017

METHOD BLANK: 4347686 Matrix: Water
Associated Lab Samples: 92720815002, 92720815003, 92720815009, 92720815010, 92720815012, 92720815013, 92720815015, 92720815016, 92720815017

Table with 7 columns: Parameter, Units, Blank Result, Reporting Limit, MDL, Analyzed, Qualifiers. Lists various chemical compounds and their detection results.

LABORATORY CONTROL SAMPLE: 4347687

Table with 7 columns: Parameter, Units, Spike Conc., LCS Result, LCS % Rec, % Rec Limits, Qualifiers. Shows laboratory control sample results for various compounds.

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.

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4347687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE SAMPLE: 4347688

Parameter	Units	92720815009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	26.1	131	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	528	132	39-157	
Benzene	ug/L	ND	20	24.3	122	70-151	
Diisopropyl ether	ug/L	ND	20	25.2	126	63-144	
Ethanol	ug/L	ND	800	993	124	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	49.6	124	66-137	
Ethylbenzene	ug/L	ND	20	23.6	118	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	24.5	122	54-156	
Naphthalene	ug/L	ND	20	26.0	130	61-148	
tert-Amyl Alcohol	ug/L	ND	400	501	125	54-153	
tert-Amylmethyl ether	ug/L	ND	40	46.6	117	69-139	
tert-Butyl Alcohol	ug/L	ND	200	330	165	43-188	v3
tert-Butyl Formate	ug/L	ND	160	ND	5	10-170	P5
Toluene	ug/L	ND	20	23.9	119	59-148	
Xylene (Total)	ug/L	ND	60	71.5	119	63-158	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				103	70-130	

SAMPLE DUPLICATE: 4347689

Parameter	Units	92720815010 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	v2
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	

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.

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

SAMPLE DUPLICATE: 4347689

Parameter	Units	92720815010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	100	105			
4-Bromofluorobenzene (S)	%	95	100			
Toluene-d8 (S)	%	100	100			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch: 841832 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte
 Associated Lab Samples: 92720815018, 92720815019, 92720815020, 92720815021, 92720815022, 92720815023, 92720815024, 92720815025, 92720815026, 92720815027, 92720815028, 92720815029, 92720815030, 92720815032, 92720815033, 92720815034, 92720815035, 92720815036, 92720815037

METHOD BLANK: 4347694 Matrix: Water
 Associated Lab Samples: 92720815018, 92720815019, 92720815020, 92720815021, 92720815022, 92720815023, 92720815024, 92720815025, 92720815026, 92720815027, 92720815028, 92720815029, 92720815030, 92720815032, 92720815033, 92720815034, 92720815035, 92720815036, 92720815037

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/27/24 00:50	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/27/24 00:50	
Benzene	ug/L	ND	1.0	0.34	03/27/24 00:50	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/27/24 00:50	
Ethanol	ug/L	ND	200	72.2	03/27/24 00:50	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/27/24 00:50	
Ethylbenzene	ug/L	ND	1.0	0.30	03/27/24 00:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/27/24 00:50	
Naphthalene	ug/L	ND	1.0	0.64	03/27/24 00:50	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/27/24 00:50	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/27/24 00:50	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/27/24 00:50	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/27/24 00:50	
Toluene	ug/L	ND	1.0	0.48	03/27/24 00:50	
Xylene (Total)	ug/L	ND	1.0	0.34	03/27/24 00:50	
1,2-Dichloroethane-d4 (S)	%	90	70-130		03/27/24 00:50	
4-Bromofluorobenzene (S)	%	93	70-130		03/27/24 00:50	
Toluene-d8 (S)	%	88	70-130		03/27/24 00:50	

LABORATORY CONTROL SAMPLE: 4347695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	17.7	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	367	92	70-130	
Benzene	ug/L	20	20.8	104	70-130	
Diisopropyl ether	ug/L	20	18.5	93	70-130	
Ethanol	ug/L	800	649	81	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.7	94	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
Methyl-tert-butyl ether	ug/L	20	19.7	98	70-130	
Naphthalene	ug/L	20	21.8	109	70-130	
tert-Amyl Alcohol	ug/L	400	365	91	70-130	
tert-Amylmethyl ether	ug/L	40	37.4	93	70-130	
tert-Butyl Alcohol	ug/L	200	197	98	70-130	
tert-Butyl Formate	ug/L	160	151	94	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4347695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	20.3	101	70-130	
Xylene (Total)	ug/L	60	64.6	108	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE SAMPLE: 4347696

Parameter	Units	92720815018 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.1	116	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	476	119	39-157	
Benzene	ug/L	ND	20	23.6	118	70-151	
Diisopropyl ether	ug/L	ND	20	22.1	111	63-144	
Ethanol	ug/L	ND	800	912	114	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	43.7	109	66-137	
Ethylbenzene	ug/L	ND	20	24.0	120	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	22.3	111	54-156	
Naphthalene	ug/L	ND	20	27.4	136	61-148	
tert-Amyl Alcohol	ug/L	ND	400	474	119	54-153	
tert-Amylmethyl ether	ug/L	ND	40	43.1	108	69-139	
tert-Butyl Alcohol	ug/L	ND	200	293	146	43-188 v3	
tert-Butyl Formate	ug/L	ND	160	35.0J	22	10-170	
Toluene	ug/L	ND	20	23.6	118	59-148	
Xylene (Total)	ug/L	ND	60	72.3	120	63-158	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4347697

Parameter	Units	92720815019 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 v2	
tert-Butyl Formate	ug/L	ND	ND		30	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

SAMPLE DUPLICATE: 4347697

Parameter	Units	92720815019 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	88	99			
4-Bromofluorobenzene (S)	%	96	98			
Toluene-d8 (S)	%	95	101			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	841838	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815038, 92720815039, 92720815040, 92720815044, 92720815048, 92720815052, 92720815058, 92720815059, 92720815060, 92720815061, 92720815062

METHOD BLANK: 4347731 Matrix: Water

Associated Lab Samples: 92720815038, 92720815039, 92720815040, 92720815044, 92720815048, 92720815052, 92720815058, 92720815059, 92720815060, 92720815061, 92720815062

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/26/24 13:06	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/26/24 13:06	
Benzene	ug/L	ND	1.0	0.34	03/26/24 13:06	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/26/24 13:06	
Ethanol	ug/L	ND	200	72.2	03/26/24 13:06	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/26/24 13:06	
Ethylbenzene	ug/L	ND	1.0	0.30	03/26/24 13:06	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/26/24 13:06	
Naphthalene	ug/L	ND	1.0	0.64	03/26/24 13:06	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/26/24 13:06	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/26/24 13:06	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/26/24 13:06	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/26/24 13:06	
Toluene	ug/L	ND	1.0	0.48	03/26/24 13:06	
Xylene (Total)	ug/L	ND	1.0	0.34	03/26/24 13:06	
1,2-Dichloroethane-d4 (S)	%	93	70-130		03/26/24 13:06	
4-Bromofluorobenzene (S)	%	97	70-130		03/26/24 13:06	
Toluene-d8 (S)	%	99	70-130		03/26/24 13:06	

LABORATORY CONTROL SAMPLE: 4347732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.4	97	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	357	89	70-130	
Benzene	ug/L	20	19.5	98	70-130	
Diisopropyl ether	ug/L	20	18.0	90	70-130	
Ethanol	ug/L	800	722	90	70-130	
Ethyl-tert-butyl ether	ug/L	40	36.6	92	70-130	
Ethylbenzene	ug/L	20	20.1	101	70-130	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Naphthalene	ug/L	20	20.1	101	70-130	
tert-Amyl Alcohol	ug/L	400	363	91	70-130	
tert-Amylmethyl ether	ug/L	40	37.2	93	70-130	
tert-Butyl Alcohol	ug/L	200	167	84	70-130	
tert-Butyl Formate	ug/L	160	153	96	70-130	
Toluene	ug/L	20	19.1	96	70-130	
Xylene (Total)	ug/L	60	59.6	99	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4347732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 4347733

Parameter	Units	92720815038 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	379	95	39-157	
Benzene	ug/L	ND	20	22.2	111	70-151	
Diisopropyl ether	ug/L	0.46J	20	21.6	106	63-144	
Ethanol	ug/L	ND	800	801	100	39-176	
Ethyl-tert-butyl ether	ug/L	3.7J	40	45.8	105	66-137	
Ethylbenzene	ug/L	ND	20	21.6	108	66-153	
Methyl-tert-butyl ether	ug/L	16.8	20	38.0	106	54-156	
Naphthalene	ug/L	ND	20	20.9	105	61-148	
tert-Amyl Alcohol	ug/L	ND	400	394	99	54-153	
tert-Amylmethyl ether	ug/L	3.6J	40	44.6	103	69-139	
tert-Butyl Alcohol	ug/L	ND	200	247	123	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	3	10-170	P5
Toluene	ug/L	ND	20	21.1	105	59-148	
Xylene (Total)	ug/L	ND	60	64.3	107	63-158	
1,2-Dichloroethane-d4 (S)	%				97	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4347734

Parameter	Units	92720815039 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: 257CK88613 Circle K 2720886 GW
 Pace Project No.: 92720815

SAMPLE DUPLICATE: 4347734

Parameter	Units	92720815039 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%	97	97			
4-Bromofluorobenzene (S)	%	99	98			
Toluene-d8 (S)	%	98	99			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	841839	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815053, 92720815054, 92720815055, 92720815056, 92720815057, 92720815063, 92720815064

METHOD BLANK: 4347738 Matrix: Water
 Associated Lab Samples: 92720815053, 92720815054, 92720815055, 92720815056, 92720815057, 92720815063, 92720815064

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/27/24 22:58	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/27/24 22:58	
Benzene	ug/L	ND	1.0	0.34	03/27/24 22:58	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/27/24 22:58	
Ethanol	ug/L	ND	200	72.2	03/27/24 22:58	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/27/24 22:58	
Ethylbenzene	ug/L	ND	1.0	0.30	03/27/24 22:58	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/27/24 22:58	
Naphthalene	ug/L	ND	1.0	0.64	03/27/24 22:58	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/27/24 22:58	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/27/24 22:58	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/27/24 22:58	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/27/24 22:58	
Toluene	ug/L	ND	1.0	0.48	03/27/24 22:58	
Xylene (Total)	ug/L	ND	1.0	0.34	03/27/24 22:58	
1,2-Dichloroethane-d4 (S)	%	100	70-130		03/27/24 22:58	
4-Bromofluorobenzene (S)	%	97	70-130		03/27/24 22:58	
Toluene-d8 (S)	%	102	70-130		03/27/24 22:58	

LABORATORY CONTROL SAMPLE: 4347739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	18.8	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	391	98	70-130	
Benzene	ug/L	20	19.7	98	70-130	
Diisopropyl ether	ug/L	20	17.9	89	70-130	
Ethanol	ug/L	800	702	88	70-130	
Ethyl-tert-butyl ether	ug/L	40	35.0	87	70-130	
Ethylbenzene	ug/L	20	20.0	100	70-130	
Methyl-tert-butyl ether	ug/L	20	18.1	91	70-130	
Naphthalene	ug/L	20	20.2	101	70-130	
tert-Amyl Alcohol	ug/L	400	372	93	70-130	
tert-Amylmethyl ether	ug/L	40	36.2	90	70-130	
tert-Butyl Alcohol	ug/L	200	157	79	70-130	
tert-Butyl Formate	ug/L	160	137	85	70-130	
Toluene	ug/L	20	19.3	96	70-130	
Xylene (Total)	ug/L	60	60.3	100	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4347739

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

MATRIX SPIKE SAMPLE: 4347740

Parameter	Units	92720815056 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	22.3	112	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	458	114	39-157	
Benzene	ug/L	ND	20	23.4	117	70-151	
Diisopropyl ether	ug/L	ND	20	20.9	104	63-144	
Ethanol	ug/L	ND	800	841	105	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	41.3	103	66-137	
Ethylbenzene	ug/L	ND	20	24.1	120	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	21.6	108	54-156	
Naphthalene	ug/L	ND	20	23.3	116	61-148	
tert-Amyl Alcohol	ug/L	ND	400	433	108	54-153	
tert-Amylmethyl ether	ug/L	ND	40	42.4	106	69-139	
tert-Butyl Alcohol	ug/L	ND	200	210	105	43-188	
tert-Butyl Formate	ug/L	ND	160	119	74	10-170	
Toluene	ug/L	ND	20	22.9	115	59-148	
Xylene (Total)	ug/L	ND	60	71.4	119	63-158	
1,2-Dichloroethane-d4 (S)	%				104	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4347741

Parameter	Units	92720815057 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)	%	101	101			
4-Bromofluorobenzene (S)	%	99	98			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW
 Pace Project No.: 92720815

SAMPLE DUPLICATE: 4347741

Parameter	Units	92720815057 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	102	103			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	841894	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815004, 92720815005, 92720815007, 92720815008

METHOD BLANK: 4348106 Matrix: Water

Associated Lab Samples: 92720815004, 92720815005, 92720815007, 92720815008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/26/24 17:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/26/24 17:02	
Benzene	ug/L	ND	1.0	0.34	03/26/24 17:02	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/26/24 17:02	
Ethanol	ug/L	ND	200	72.2	03/26/24 17:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/26/24 17:02	
Ethylbenzene	ug/L	ND	1.0	0.30	03/26/24 17:02	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/26/24 17:02	
Naphthalene	ug/L	ND	1.0	0.64	03/26/24 17:02	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/26/24 17:02	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/26/24 17:02	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/26/24 17:02	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/26/24 17:02	
Toluene	ug/L	ND	1.0	0.48	03/26/24 17:02	
Xylene (Total)	ug/L	ND	1.0	0.34	03/26/24 17:02	
1,2-Dichloroethane-d4 (S)	%	94	70-130		03/26/24 17:02	
4-Bromofluorobenzene (S)	%	99	70-130		03/26/24 17:02	
Toluene-d8 (S)	%	104	70-130		03/26/24 17:02	

LABORATORY CONTROL SAMPLE: 4348107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.5	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	364	91	70-130	
Benzene	ug/L	20	21.4	107	70-130	
Diisopropyl ether	ug/L	20	18.9	95	70-130	
Ethanol	ug/L	800	725	91	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.3	93	70-130	
Ethylbenzene	ug/L	20	21.5	107	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	96	70-130	
Naphthalene	ug/L	20	20.6	103	70-130	
tert-Amyl Alcohol	ug/L	400	352	88	70-130	
tert-Amylmethyl ether	ug/L	40	39.1	98	70-130	
tert-Butyl Alcohol	ug/L	200	174	87	70-130	
tert-Butyl Formate	ug/L	160	157	98	70-130	
Toluene	ug/L	20	20.5	102	70-130	
Xylene (Total)	ug/L	60	63.7	106	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4348107

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

MATRIX SPIKE SAMPLE: 4348109

Parameter	Units	92720815005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.5	118	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	394	98	39-157	
Benzene	ug/L	ND	20	22.9	115	70-151	
Diisopropyl ether	ug/L	ND	20	26.6	133	63-144	
Ethanol	ug/L	ND	800	847	106	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	43.2	108	66-137	
Ethylbenzene	ug/L	ND	20	22.7	113	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	21.8	109	54-156	
Naphthalene	ug/L	ND	20	23.4	115	61-148	
tert-Amyl Alcohol	ug/L	ND	400	415	104	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.8	105	69-139	
tert-Butyl Alcohol	ug/L	ND	200	287	144	43-188	
tert-Butyl Formate	ug/L	ND	160	104	65	10-170	
Toluene	ug/L	ND	20	22.0	110	59-148	
Xylene (Total)	ug/L	ND	60	67.9	113	63-158	
1,2-Dichloroethane-d4 (S)	%				110	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 4348108

Parameter	Units	92720815004 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)	%	102	106			
4-Bromofluorobenzene (S)	%	99	100			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW
 Pace Project No.: 92720815

SAMPLE DUPLICATE: 4348108

Parameter	Units	92720815004 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	103	103			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	842181	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815031

METHOD BLANK: 4349611 Matrix: Water

Associated Lab Samples: 92720815031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/28/24 01:20	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/28/24 01:20	v2
Benzene	ug/L	ND	1.0	0.34	03/28/24 01:20	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/28/24 01:20	
Ethanol	ug/L	ND	200	72.2	03/28/24 01:20	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/28/24 01:20	
Ethylbenzene	ug/L	ND	1.0	0.30	03/28/24 01:20	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/28/24 01:20	
Naphthalene	ug/L	ND	1.0	0.64	03/28/24 01:20	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/28/24 01:20	v2
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/28/24 01:20	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/28/24 01:20	v2
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/28/24 01:20	
Toluene	ug/L	ND	1.0	0.48	03/28/24 01:20	
Xylene (Total)	ug/L	ND	1.0	0.34	03/28/24 01:20	
1,2-Dichloroethane-d4 (S)	%	99	70-130		03/28/24 01:20	
4-Bromofluorobenzene (S)	%	98	70-130		03/28/24 01:20	
Toluene-d8 (S)	%	99	70-130		03/28/24 01:20	

LABORATORY CONTROL SAMPLE: 4349612

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	327	82	70-130	v3
Benzene	ug/L	20	18.5	93	70-130	
Diisopropyl ether	ug/L	20	17.6	88	70-130	
Ethanol	ug/L	800	661	83	70-130	
Ethyl-tert-butyl ether	ug/L	40	34.3	86	70-130	
Ethylbenzene	ug/L	20	19.1	95	70-130	
Methyl-tert-butyl ether	ug/L	20	17.4	87	70-130	
Naphthalene	ug/L	20	19.8	99	70-130	
tert-Amyl Alcohol	ug/L	400	324	81	70-130	v3
tert-Amylmethyl ether	ug/L	40	33.5	84	70-130	
tert-Butyl Alcohol	ug/L	200	148	74	70-130	v3
tert-Butyl Formate	ug/L	160	137	86	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	57.5	96	70-130	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4349612

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

MATRIX SPIKE SAMPLE: 4349613

Parameter	Units	92720929001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	26.7	134	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	437	109	39-157	
Benzene	ug/L	ND	20	24.0	120	70-151	
Diisopropyl ether	ug/L	ND	20	24.9	124	63-144	
Ethanol	ug/L	ND	800	1040	131	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	49.7	124	66-137	
Ethylbenzene	ug/L	ND	20	24.1	121	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	23.2	116	54-156	
Naphthalene	ug/L	ND	20	22.8	114	61-148	v3
tert-Amyl Alcohol	ug/L	ND	400	522	130	54-153	
tert-Amylmethyl ether	ug/L	ND	40	47.0	118	69-139	
tert-Butyl Alcohol	ug/L	ND	200	259	130	43-188	
tert-Butyl Formate	ug/L	ND	160	ND	1	10-170	M1
Toluene	ug/L	ND	20	21.5	108	59-148	
Xylene (Total)	ug/L	ND	60	72.3	120	63-158	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				90	70-130	

SAMPLE DUPLICATE: 4349614

Parameter	Units	92720929002 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	0.70J	0.80J		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	0.82J	ND		30	v2
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)	%	99	111			
4-Bromofluorobenzene (S)	%	97	95			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

SAMPLE DUPLICATE: 4349614

Parameter	Units	92720929002 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	101	96			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch: 842269 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815046, 92720815049, 92720815050, 92720815051

METHOD BLANK: 4350214 Matrix: Water

Associated Lab Samples: 92720815046, 92720815049, 92720815050, 92720815051

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/28/24 14:53	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/28/24 14:53	
Benzene	ug/L	ND	1.0	0.34	03/28/24 14:53	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/28/24 14:53	
Ethanol	ug/L	ND	200	72.2	03/28/24 14:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/28/24 14:53	
Ethylbenzene	ug/L	ND	1.0	0.30	03/28/24 14:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/28/24 14:53	
Naphthalene	ug/L	ND	1.0	0.64	03/28/24 14:53	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/28/24 14:53	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/28/24 14:53	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/28/24 14:53	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/28/24 14:53	
Toluene	ug/L	ND	1.0	0.48	03/28/24 14:53	
Xylene (Total)	ug/L	ND	1.0	0.34	03/28/24 14:53	
1,2-Dichloroethane-d4 (S)	%	96	70-130		03/28/24 14:53	
4-Bromofluorobenzene (S)	%	101	70-130		03/28/24 14:53	
Toluene-d8 (S)	%	104	70-130		03/28/24 14:53	

LABORATORY CONTROL SAMPLE: 4350215

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	21.4	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	339	85	70-130	
Benzene	ug/L	20	20.1	100	70-130	
Diisopropyl ether	ug/L	20	19.6	98	70-130	
Ethanol	ug/L	800	692	86	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.0	97	70-130	
Ethylbenzene	ug/L	20	19.9	99	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	96	70-130	
Naphthalene	ug/L	20	20.8	104	70-130	
tert-Amyl Alcohol	ug/L	400	348	87	70-130	
tert-Amylmethyl ether	ug/L	40	37.7	94	70-130	
tert-Butyl Alcohol	ug/L	200	183	92	70-130	
tert-Butyl Formate	ug/L	160	156	97	70-130	
Toluene	ug/L	20	19.5	98	70-130	
Xylene (Total)	ug/L	60	60.0	100	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4350215

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4350216 4350217

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92720702011 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	22.9	23.1	115	116	70-137	1	30
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	274J	301J	68	75	39-157		30
Benzene	ug/L	560	20	20	432	430	-636	-647	70-151	0	30 M1
Diisopropyl ether	ug/L	2.3J	20	20	21.9	21.4	98	96	63-144	2	30
Ethanol	ug/L	ND	800	800	1230	878	154	110	39-176	34	30 R1
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.7J	37.2J	94	93	66-137		30
Ethylbenzene	ug/L	15.5	20	20	31.9	31.5	82	80	66-153	1	30
Methyl-tert-butyl ether	ug/L	252	20	20	307	304	276	264	54-156	1	30 M1
Naphthalene	ug/L	28.9	20	20	37.4	43.0	42	70	61-148	14	30 M1
tert-Amyl Alcohol	ug/L	214J	400	400	552	554	85	85	54-153	0	30
tert-Amylmethyl ether	ug/L	ND	40	40	40.4	40.1	101	100	69-139	1	30
tert-Butyl Alcohol	ug/L	ND	200	200	227J	213J	113	107	43-188		30
tert-Butyl Formate	ug/L	ND	160	160	137J	124J	86	78	10-170		30
Toluene	ug/L	5.5	20	20	22.3	21.4	84	79	59-148	4	30
Xylene (Total)	ug/L	128	60	60	155	155	45	46	63-158	1	30 MS
1,2-Dichloroethane-d4 (S)	%						105	105	70-130		
4-Bromofluorobenzene (S)	%						101	100	70-130		
Toluene-d8 (S)	%						100	101	70-130		

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch: 842697 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815001, 92720815006, 92720815011, 92720815014

METHOD BLANK: 4352388 Matrix: Water

Associated Lab Samples: 92720815001, 92720815006, 92720815011, 92720815014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/28/24 19:53	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/28/24 19:53	
Benzene	ug/L	ND	1.0	0.34	03/28/24 19:53	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/28/24 19:53	
Ethanol	ug/L	ND	200	72.2	03/28/24 19:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/28/24 19:53	
Ethylbenzene	ug/L	ND	1.0	0.30	03/28/24 19:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/28/24 19:53	
Naphthalene	ug/L	ND	1.0	0.64	03/28/24 19:53	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/28/24 19:53	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/28/24 19:53	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/28/24 19:53	v2
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/28/24 19:53	
Toluene	ug/L	ND	1.0	0.48	03/28/24 19:53	
Xylene (Total)	ug/L	ND	1.0	0.34	03/28/24 19:53	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/28/24 19:53	
4-Bromofluorobenzene (S)	%	101	70-130		03/28/24 19:53	
Toluene-d8 (S)	%	99	70-130		03/28/24 19:53	

LABORATORY CONTROL SAMPLE: 4352389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.5	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	380	95	70-130	
Benzene	ug/L	20	19.5	98	70-130	
Diisopropyl ether	ug/L	20	18.9	95	70-130	
Ethanol	ug/L	800	725	91	70-130	
Ethyl-tert-butyl ether	ug/L	40	39.0	97	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Methyl-tert-butyl ether	ug/L	20	19.0	95	70-130	
Naphthalene	ug/L	20	19.8	99	70-130	
tert-Amyl Alcohol	ug/L	400	377	94	70-130	
tert-Amylmethyl ether	ug/L	40	37.7	94	70-130	
tert-Butyl Alcohol	ug/L	200	190	95	70-130 v3	
tert-Butyl Formate	ug/L	160	166	104	70-130	
Toluene	ug/L	20	19.2	96	70-130	
Xylene (Total)	ug/L	60	58.6	98	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4352389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 4352391

Parameter	Units	92720770015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	23.6	118	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	469	117	39-157	
Benzene	ug/L	ND	20	23.3	117	70-151	
Diisopropyl ether	ug/L	ND	20	23.4	114	63-144	
Ethanol	ug/L	ND	800	952	119	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	45.3	113	66-137	
Ethylbenzene	ug/L	ND	20	22.7	114	66-153	
Methyl-tert-butyl ether	ug/L	1.5	20	24.1	113	54-156	
Naphthalene	ug/L	ND	20	23.1	115	61-148	
tert-Amyl Alcohol	ug/L	ND	400	445	111	54-153	
tert-Amylmethyl ether	ug/L	ND	40	44.5	111	69-139	
tert-Butyl Alcohol	ug/L	ND	200	287	143	43-188 v3	
tert-Butyl Formate	ug/L	ND	160	ND	5	10-170 P5	
Toluene	ug/L	ND	20	22.9	114	59-148	
Xylene (Total)	ug/L	ND	60	68.8	115	63-158	
1,2-Dichloroethane-d4 (S)	%				98	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 4352390

Parameter	Units	92720770016 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 v2	
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)	%	106	105			
4-Bromofluorobenzene (S)	%	101	101			

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

SAMPLE DUPLICATE: 4352390

Parameter	Units	92720770016 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	101	101			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	842892	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815042, 92720815043, 92720815045

METHOD BLANK: 4353032 Matrix: Water

Associated Lab Samples: 92720815042, 92720815043, 92720815045

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/29/24 03:53	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/29/24 03:53	
Benzene	ug/L	ND	1.0	0.34	03/29/24 03:53	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/29/24 03:53	
Ethanol	ug/L	ND	200	72.2	03/29/24 03:53	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/29/24 03:53	
Ethylbenzene	ug/L	ND	1.0	0.30	03/29/24 03:53	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/29/24 03:53	
Naphthalene	ug/L	ND	1.0	0.64	03/29/24 03:53	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/29/24 03:53	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/29/24 03:53	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/29/24 03:53	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/29/24 03:53	
Toluene	ug/L	ND	1.0	0.48	03/29/24 03:53	
Xylene (Total)	ug/L	ND	1.0	0.34	03/29/24 03:53	
1,2-Dichloroethane-d4 (S)	%	94	70-130		03/29/24 03:53	
4-Bromofluorobenzene (S)	%	102	70-130		03/29/24 03:53	
Toluene-d8 (S)	%	105	70-130		03/29/24 03:53	

LABORATORY CONTROL SAMPLE: 4353033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	20.5	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	310	78	70-130	
Benzene	ug/L	20	19.2	96	70-130	
Diisopropyl ether	ug/L	20	18.3	91	70-130	
Ethanol	ug/L	800	663	83	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.0	92	70-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
Methyl-tert-butyl ether	ug/L	20	18.1	90	70-130	
Naphthalene	ug/L	20	18.8	94	70-130	
tert-Amyl Alcohol	ug/L	400	313	78	70-130	
tert-Amylmethyl ether	ug/L	40	35.5	89	70-130	
tert-Butyl Alcohol	ug/L	200	155	77	70-130	
tert-Butyl Formate	ug/L	160	141	88	70-130	
Toluene	ug/L	20	19.1	96	70-130	
Xylene (Total)	ug/L	60	56.9	95	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4353033

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353034 4353035

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92720815045 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	ND	ND	58	41	70-137	30	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	ND	ND	61	9	39-157	30	M1
Benzene	ug/L	9850	20	20	9930	9940	430	459	70-151	0	30 M1
Diisopropyl ether	ug/L	ND	20	20	ND	ND	118	110	63-144	30	
Ethanol	ug/L	ND	800	800	ND	ND	149	88	39-176	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	ND	ND	73	50	66-137	30	M1
Ethylbenzene	ug/L	1700	20	20	1680	1710	-67	41	66-153	1	30 M1
Methyl-tert-butyl ether	ug/L	300	20	20	339	330	196	148	54-156	3	30 M1
Naphthalene	ug/L	214	20	20	271	217	282	15	61-148	22	30 M1
tert-Amyl Alcohol	ug/L	19200	400	400	20100	19700	223	124	54-153	2	30 M1
tert-Amylmethyl ether	ug/L	ND	40	40	ND	ND	189	189	69-139	30	M1
tert-Butyl Alcohol	ug/L	ND	200	200	ND	ND	108	100	43-188	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	64	59	10-170	30	
Toluene	ug/L	15600	20	20	15700	15800	601	651	59-148	0	30 M1
Xylene (Total)	ug/L	8890	60	60	8820	8920	-126	49	63-158	1	30 MS
1,2-Dichloroethane-d4 (S)	%						101	102	70-130		
4-Bromofluorobenzene (S)	%						99	100	70-130		
Toluene-d8 (S)	%						102	99	70-130		

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

QC Batch:	842952	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260 MSV Low Level SC
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720815041, 92720815047

METHOD BLANK: 4353405 Matrix: Water

Associated Lab Samples: 92720815041, 92720815047

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/29/24 06:52	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/29/24 06:52	
Benzene	ug/L	ND	1.0	0.34	03/29/24 06:52	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/29/24 06:52	
Ethanol	ug/L	ND	200	72.2	03/29/24 06:52	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/29/24 06:52	
Ethylbenzene	ug/L	ND	1.0	0.30	03/29/24 06:52	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/29/24 06:52	
Naphthalene	ug/L	ND	1.0	0.64	03/29/24 06:52	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/29/24 06:52	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/29/24 06:52	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/29/24 06:52	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/29/24 06:52	
Toluene	ug/L	ND	1.0	0.48	03/29/24 06:52	
Xylene (Total)	ug/L	ND	1.0	0.34	03/29/24 06:52	
1,2-Dichloroethane-d4 (S)	%	104	70-130		03/29/24 06:52	
4-Bromofluorobenzene (S)	%	105	70-130		03/29/24 06:52	
Toluene-d8 (S)	%	106	70-130		03/29/24 06:52	

LABORATORY CONTROL SAMPLE: 4353406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	23.9	119	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	396	99	70-130	
Benzene	ug/L	20	21.7	108	70-130	
Diisopropyl ether	ug/L	20	20.6	103	70-130	
Ethanol	ug/L	800	747	93	70-130	
Ethyl-tert-butyl ether	ug/L	40	42.0	105	70-130	
Ethylbenzene	ug/L	20	21.5	108	70-130	
Methyl-tert-butyl ether	ug/L	20	21.7	108	70-130	
Naphthalene	ug/L	20	22.3	111	70-130	
tert-Amyl Alcohol	ug/L	400	403	101	70-130	
tert-Amylmethyl ether	ug/L	40	40.4	101	70-130	
tert-Butyl Alcohol	ug/L	200	183	92	70-130	
tert-Butyl Formate	ug/L	160	176	110	70-130	
Toluene	ug/L	20	21.0	105	70-130	
Xylene (Total)	ug/L	60	66.3	111	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

LABORATORY CONTROL SAMPLE: 4353406

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4353407 4353408

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92720815041 Result	Spike Conc.	Spike Conc.	MS Result						
1,2-Dichloroethane	ug/L	ND	20	20	ND	ND	0	0	70-137	30	M1
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	ND	ND	0	0	39-157	30	M1
Benzene	ug/L	8170	20	20	2100	1990	-30300	-30900	70-151	5	30 M1
Diisopropyl ether	ug/L	ND	20	20	ND	ND	0	0	63-144		30 M1
Ethanol	ug/L	13400J	800	800	1590000	1450000	197000	180000	39-176	9	30 M1
Ethyl-tert-butyl ether	ug/L	ND	40	40	ND	ND	-570	-570	66-137		30 M1
Ethylbenzene	ug/L	1700	20	20	922	902	-3910	-4010	66-153	2	30 M1
Methyl-tert-butyl ether	ug/L	629	20	20	496	443	-669	-934	54-156	11	30 M1
Naphthalene	ug/L	297	20	20	714	ND	2090	-1480	61-148		30 M1
tert-Amyl Alcohol	ug/L	13100	400	400	26300J	21100J	3320	2010	54-153		30 M1
tert-Amylmethyl ether	ug/L	ND	40	40	ND	ND	0	0	69-139		30 M1
tert-Butyl Alcohol	ug/L	ND	200	200	ND	ND	1590	-963	43-188		30 M1
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	10-170		30 M1
Toluene	ug/L	20800	20	20	7180	7080	-68200	-68700	59-148	2	30 M1
Xylene (Total)	ug/L	12500	60	60	4870	4820	-12800	-12900	63-158	1	30 MS
1,2-Dichloroethane-d4 (S)	%						100	100	70-130		
4-Bromofluorobenzene (S)	%						101	102	70-130		
Toluene-d8 (S)	%						103	104	70-130		

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QUALIFIERS

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
v2	The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92720815001	01589 MW-1	EPA 8260D	842697		
92720815002	01589 MW-2	EPA 8260D	841830		
92720815003	01589 MW-3	EPA 8260D	841830		
92720815004	01589 MW-4	EPA 8260D	841894		
92720815005	01589 MW-5	EPA 8260D	841894		
92720815006	01589 MW-7	EPA 8260D	842697		
92720815007	01589 MW-8	EPA 8260D	841894		
92720815008	01589 MW-9	EPA 8260D	841894		
92720815009	01589 MW-10	EPA 8260D	841830		
92720815010	01589 MW-11	EPA 8260D	841830		
92720815011	01589 MW-12	EPA 8260D	842697		
92720815012	01589 MW-13	EPA 8260D	841830		
92720815013	01589 MW-14	EPA 8260D	841830		
92720815014	01589 MW-15	EPA 8260D	842697		
92720815015	01589 MW-16	EPA 8260D	841830		
92720815016	01589 MW-17	EPA 8260D	841830		
92720815017	01589 MW-18	EPA 8260D	841830		
92720815018	01589 MW-19	EPA 8260D	841832		
92720815019	01589 MW-20	EPA 8260D	841832		
92720815020	01589 MW-21	EPA 8260D	841832		
92720815021	01589 MW-22	EPA 8260D	841832		
92720815022	01589 MW-23	EPA 8260D	841832		
92720815023	01589 MW-24	EPA 8260D	841832		
92720815024	01589 MW-25	EPA 8260D	841832		
92720815025	01589 MW-26R	EPA 8260D	841832		
92720815026	01589 MW-28	EPA 8260D	841832		
92720815027	01589 MW-29R	EPA 8260D	841832		
92720815028	01589 MW-30	EPA 8260D	841832		
92720815029	01589 MW-31	EPA 8260D	841832		
92720815030	01589 MW-32	EPA 8260D	841832		
92720815031	01589 MW-33	EPA 8260D	842181		
92720815032	01589 MW-34	EPA 8260D	841832		
92720815033	01589 MW-35	EPA 8260D	841832		
92720815034	01589 MW-36	EPA 8260D	841832		
92720815035	01589 MW-38R	EPA 8260D	841832		
92720815036	01589 DMW-1	EPA 8260D	841832		
92720815037	01589 DMW-2	EPA 8260D	841832		
92720815038	01589 DMW-3	EPA 8260D	841838		
92720815039	01589 DMW-4	EPA 8260D	841838		
92720815040	01589 DMW-5	EPA 8260D	841838		
92720815041	01589 RW-1	EPA 8260D	842952		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 257CK88613 Circle K 2720886 GW

Pace Project No.: 92720815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92720815042	01589 RW-2	EPA 8260D	842892		
92720815043	01589 RW-3	EPA 8260D	842892		
92720815044	01589 RW-4	EPA 8260D	841838		
92720815045	01589 RW-7	EPA 8260D	842892		
92720815046	01589 RW-8	EPA 8260D	842269		
92720815047	01589 RW-9	EPA 8260D	842952		
92720815048	01589 RW-12	EPA 8260D	841838		
92720815049	01589 DUP-1	EPA 8260D	842269		
92720815050	01589 DUP-2	EPA 8260D	842269		
92720815051	01589 DUP-3	EPA 8260D	842269		
92720815052	01589 FB-1	EPA 8260D	841838		
92720815053	01589 FB-2	EPA 8260D	841839		
92720815054	TRIP BLANK -1	EPA 8260D	841839		
92720815055	TRIP BLANK - 2	EPA 8260D	841839		
92720815056	01589 SW-1	EPA 8260D	841839		
92720815057	01589 SW-2	EPA 8260D	841839		
92720815058	01589 SW-3	EPA 8260D	841838		
92720815059	01589 SW-4	EPA 8260D	841838		
92720815060	01589 SW-5	EPA 8260D	841838		
92720815061	01589 SW-6	EPA 8260D	841838		
92720815062	01589 SW-7	EPA 8260D	841838		
92720815063	01589 SW-8	EPA 8260D	841839		
92720815064	01589 SW-9	EPA 8260D	841839		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 11/29/2023 4:16:30 PM

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

ATC

Project #:

WO#: 92720815



Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: 3/22/24 *GMK*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer:

IR Gun ID: 427078

Type of Ice: Wet Blue None

Cooler Temp: 4.4, 5.3 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): 4.4, 5.3

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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
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: _____

WO#: 92720815

*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: 03/29/24

Exceptions: VOA, Coliform, TOC, Oil and Grease, DR0/8015 (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-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-)	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)	DG94-40 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)	
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/

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

*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# : 92720815

PM: TMC

Due Date: 03/29/24

CLIENT: 92-ATC_Colum

②

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-)	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)	DG94-40 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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/

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

*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# : 92720815

PM: TMC

Due Date: 03/29/24

CLIENT: 92-ATC_Colum

3

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-)	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)	DG94-40 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-)	V5GU-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 #

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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.

Project #

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

4

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-)	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)	DG94-40 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)	
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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 #

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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.

Project #

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

5

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

***Check all unpreserved Nitrates for chlorine

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 HMO3 (pH < 2)	BP4Z-125 mL Plastic ZN 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)	DG94-40 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-)	V5GU-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: 11/14/2022

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

Project #

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

6

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)	BP45-125 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-)	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)	DG94-40 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)	
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10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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.

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.

Project #

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

7

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

***Check all unpreserved Nitrates for chlorine

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-)	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)	DG94-40 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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	1	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	3	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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.

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 CC E-Mail:

Customer Project #: 257CK88613 Circle K 2720886 GW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Site Collection Info/Facility ID (as applicable):

Country / State origin of sample(s): South Carolina

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET [] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

DW PWSID # or WW Permit # as applicable:

Data Deliverables: [] Level II [] Level III [] Level IV

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other

Field Filtered (if applicable): [] Yes [] No
 Analysis:

[] Other
 Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OU), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (L), Biosolid (BS), Other (O)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Units
			Date	Time	Date	Time		
01589 MW-1	GW	GR			3/20/24	11:15	3	
	MW-2				3/20/24	10:23		
	MW-3				3/19/24	16:44		
	MW-4				3/19/24	17:12		
	MW-5				3/19/24	17:19		
	MW-7				3/19/24	16:15		
	MW-6				3/19/24	15:49		
	MW-9				3/19/24	15:29		
	MW-10				3/19/24	14:44		
	MW-11				3/19/24	14:46		

Additional Instructions from Pace*:
 8260: BTEXNM+1,2-DCA+DMY
 Collected By: Yolanda Williams & Joe Gray
 Signature: *Yolanda Williams*

Customer Remarks / Special Conditions / Possible Hazards:
 8260 MSV Low Level SC
 Trip Blank

Relinquished by/Company: (Signature) *Yolanda Williams*
 Date/Time: 3/20/24
 Relinquished by/Company: (Signature) *Brad Hubbard*
 Date/Time: 3/20/24

Received by/Company: (Signature) *Brad Hubbard*
 Date/Time: 3/20/24
 Received by/Company: (Signature) *Omni Paul HM*
 Date/Time: 3/20/24



Scan QR Code for instructions
 2720815

Specify Container Size **
 Identify Container Preservative Type ***
 Analysis Requested

Lab Use Only
 Proj. Mgr: Taylor Cannon
 Acctnum / Client ID:
 Table #:
 Profile / Template: 9570
 Preleg / Bottle Ord. ID: EZ3078981
 Sample Comment

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203
 Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 Cc E-Mail:
 Customer Project #:
 Project Name: 257CK88613 Circle K 2720886 GW
 Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET [] ET
 Data Deliverables: [] Level II [] Level III [] Level IV
 [] EQUUS
 [] Other
 Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SD), Sludge (SL), Canik (CK), Leachate (LL), Biosolid (BS), Other (OT)
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 County / State origin of sample(s): South Carolina
 DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): [] Yes [] No
 Analysis:
 Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results:
 Requested:
 Date Results:
 Site Collection Info/Facility ID (as applicable):
 DW PWSID # or WW Permit # as applicable:
 Purchase Order # (if applicable):
 Quote #:

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		#	Res. Chlorine
			Date	Time	Date	Time		
01589 MW-12	GW	G			3/20/24	10:11	3	
					3/20/24	11:26		
					3/19/24	16:39		
					3/20/24	10:14		
					3/20/24	13:16		
					3/20/24	12:14		
					3/20/24	11:49		
					3/20/24	11:39		
					3/20/24	12:06		
					3/19/24	8:28		

Additional Instructions from Pace*:
 8260-BTEXNMH+1,2-DCA+Oxys
 Collected By: yolanda missner
 Signature: *yolanda missner*

Relinquished by/Company: (Signature) *Missner* Date/Time: 3/19/24
 Relinquished by/Company: (Signature) *Atlas* Date/Time: 3/19/24
 Relinquished by/Company: (Signature) *Missner* Date/Time: 3/19/24
 Relinquished by/Company: (Signature) *Missner* Date/Time: 3/19/24
 Relinquished by/Company: (Signature) *Missner* Date/Time: 3/19/24
 Relinquished by/Company: (Signature) *Missner* Date/Time: 3/19/24

Scan QR Code for instructions
 Specify Container Size **
 Identify Container Preservative Type ***
 Analysis Requested
 Proj. Mgr: Taylor Cannon
 Account / Client ID:
 Table #:
 Profile / Template: 9570
 PrePkg / Bottle Ord. ID: EZ3078981
 Sample Comment
 Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)	Date/Time:
8260 MSV Low Level SC Trip Blank					3/19/24

Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other
 Page: 2 of 7

Pace® Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinney Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 CC E-Mail:

Project Name: 257CK88613 Circle K 2720886 GW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Site Collection Info/Facility ID (as applicable):

County / State origin of sample(s): South Carolina

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Data Deliverables: [] Level II [] Level III [] Level IV

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____ DW PWSID # or WW Permit # as applicable:

[] EQUIS

Date Results Requested: Field Filtered (if applicable): [] Yes [] No

[] Other

Analysis:

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biossay

(B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Cask (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine Units
			Date	Time	Date	Time		
01589 MW-22					3/19/24	9:30	3	
						9:54		
						12:19		
						12:57		
						10:09		
						13:29		
						12:16		
						11:57		
						9:10		
						11:41		

Additional Instructions from Pace®:
 8260: BTEXNM+1,2-DCA+Oxys

Customer Remarks / Special Conditions / Possible Hazards:
 8260: BTEXNM+1,2-DCA+Oxys

Relinquished by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24
 Relinquished by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24
 Relinquished by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24

Received by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24
 Received by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24
 Received by/Company: (Signature) *Yvonne Atlas* Date/Time: 3/22/24

Scan QR Code for instructions


Page* Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 CC E-Mail:

Scan QR Code for instructions


Customer Project #: 257CK88613 Circle K 2720886 GW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Site Collection Info/Facility ID (as applicable):

Country / State origin of sample(s): South Carolina

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Data Deliverables: [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results Requested:
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine
			Date	Time	Date	Time		
01584 MS-32	GW				3/20/24	9:49	3	
					3/19/24	17:10		
					3/20/24	11:50		
					3/20/24	11:52		
					3/19/24	16:40		
					3/19/24	11:15		
					3/20/24	10:48		
					3/19/24	13:53		
					3/19/24	14:36		

Additional Instructions from Pace*:
 8260: BTEXMM412-DCA+OMYS

Customer Remarks / Special Conditions / Possible Hazards:
 8260 MSV Low Level SC
 Trip Blank

Relinquished by/Company/ (Signature) *Misner* Date/Time: 3/22/24
 Relinquished by/Company/ (Signature) *pace* Date/Time: 3/22/24

Received by/Company/ (Signature) *pace* Date/Time: 3/22/24
 Received by/Company/ (Signature) *pace* Date/Time: 3/22/24

Relinquished by/Company/ (Signature) Date/Time:
 Tracking Number:
 Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other
 Page: 4 of 7
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CHAIN-OF-CUSTODY Analytical Request Document
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LAB USE ONLY - Affix Workorder/Login Label Here

Scan QR Code for instructions
 97720819

Company Name: ATC Group Services, LLC - Columbia
Street Address: 6904 North Main Street, Columbia, SC 29203
Phone #: Brad Hubbard
E-Mail: brad.hubbard@atcgs.com
Cc E-Mail:
Customer Project #: 257CK88613 Circle K 2720886 GW
Project Name:
Site Collection Info/Facility ID (as applicable):
Invoice To: Angela White
Invoice E-Mail: angela.white@oneatlas.com
Purchase Order # (if applicable):
Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
County / State origin of sample(s): South Carolina

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
Date Results Requested: [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other _____
 Field Filtered (if applicable): [] Yes [] No
 Analysis: [] DW PWSID # or WW Permit # as applicable:
 [] Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Leachate (LL), Biosolid (BS), Other (OT)
 [] Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay

Customer Sample ID

Matrix *	Comp / Grab	Composite Start		Collected or Composite End		#	Res. Chlorine
		Date	Time	Date	Time		
C1589	Dmw-4						
	Dmw-5						
	Rw-1			3/20/24	10:59		
	Rw-2			3/20/24	9:50		
	Rw-3			3/20/24	9:40		
	Rw-4			3/19/24	17:01		
	Rw-7			3/20/24	10:30		
	Rw-8			3/20/24	14:40		
	Rw-9			3/20/24	16:06		

Customer Sample ID 8260 MSV Low Level SC
 Trip Blank

Customer Remarks / Special Conditions / Possible Hazards:

Thermometer ID: _____
Correction Factor (°C): _____
Obs. Temp. (°C): _____
Corrected Temp. (°C): _____
On Ice: _____

Collected By: *Jordan Morrison*
(Printed Name)
Signature: *Jordan Morrison*

Relinquished By/Company: *Thomas Green ATLAS*
(Signature)
Date/Time: 3/28/24
Received By/Company: *Orvin Paul III*
(Signature)
Date/Time: 3/28/24 12:05

Relinquished By/Company: *Orvin Paul III*
(Signature)
Date/Time: 3/28/24
Received By/Company: *Orvin Paul III*
(Signature)
Date/Time: 3/28/24 12:05

Specify Container Size **
 Identify Container Preservative Type ***
 Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) Teracore, (9) 90mL, (10) Other
 *** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) HAcOH, (6) Zn Acetate, (7) NaNH2O4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Proj. Mgr. Taylor Cannon
AccNum / Client ID:
Table #:
Profile / Template: 9570
Preleg / Bottle Ord. ID: EZ 3078981

Preservation non-conformance identified for sample.

Pace[®] Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinsey Ave, Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 CC E-Mail:

Customer Project #: 257CK88613 Circle K 2720886 GW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

[] Level II [] Level III [] Level IV
 [] ECUS
 Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results: Field Filtered (if applicable): [] Yes [] No
 Requested: Analysis: DW PWSID # or WW Permit # as applicable:

[] Other
 Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SD), Sludge (SL), Cask/CKL, Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		#	Res. Chlorine	Units	8260 MSV Low Level SC	Trip Blank	Specify Container Size **	Identify Container Preservative Type ***	Analysis Requested	Prof. Mgr.: Taylor Cannon	AccNun / Client ID:	Table #:	Profile / Template: 9570	Pre/bottle Ord. ID: EZ 3078981	Sample Comment	Preservation non-conformance identified for sample.	
			Time	Date	Time	Date																
10589 EW-12	Env	LS	12:58	3/19/24						X												
Dug-1			10:51	3/19/24																		
Dug-2			9:51	3/20/24																		
Dug-3			10:43	3/19/24																		
FB-1			10:01	3/19/24																		
FB-2			17:35	3/20/24																		
Trip Blank -1																						
Trip Blank -2																						

Additional Instructions from Pace[®]:
 8260: BTEXNM+1,2-DCA+OXS
 Collected By: *Yovanka Misner*
 (Printed Name)
 Signature: *Yovanka Misner*

Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:	Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:
<i>Misner Atlas</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24
<i>Misner Atlas</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24	<i>Yovanka Misner</i>	3/22/24

Scan QR Code for instructions
 97720815

Pace® Location Requested (City/State):
 Pace Analytical Charlotte
 9800 Kinsey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 CC E-Mail:

Customer Project #: 257CK88613 Circle K 2720886 GW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Specify Container Size **
 Identify Container Preservative Type ***
 Analysis Requested

Scan QR Code for instructions
 0272 0915

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables: [] Level II [] Level III [] Level IV
 [] EQUIS
 [] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): [] Yes [] No
 Analysis:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) Encore, (8) TerraCore, (9) 90mL, (10) Other
 ***Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MnOH, (11) Other
 Prof. Mfg: Taylor Cannon
 AccNum / Client ID:
 Table #:
 Profile / Template: 9570
 Preleg / Bottle Ord. ID: EZ3078981

Customer Sample ID	Matrix *	Comp / Grab	Composite Start		Collected or Composite End		# Cont.	Res. Chlorine
			Date	Time	Date	Time		
25786 SW-1	SW	SW			3/19/24	15:35	3	
SW-2					3/20/24	16:00	2	
SW-3					3/20/24	16:10	3	
SW-4					3/19/24	9:40	1	
SW-5					3/19/24	9:04	1	
SW-6					3/19/24	9:54	1	
SW-7					3/19/24	14:59	1	
SW-8					3/19/24	14:44	1	
SW-9					3/19/24	14:53	1	

8260 MSV Low Level SC
 Trip Blank
 Preservation non-conformance identified for sample.

Additional Instructions from Pace®:
 8260: BTEXNM+1,2-DCA+Oxys

Collected By:
 (Printed Name)
 Signature:

Customer Remarks / Special Conditions / Possible Hazards:
 # Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C) On Ice:

Relinquished by/Company: (Signature)	Date/Time: 3/20/24	Received by/Company: (Signature)	Date/Time: 3/20/24	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 3/20/24	Received by/Company: (Signature)	Date/Time: 3/20/24	Delivered by: [] In Person [] Courier [] FedEx [] UPS [] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Pages: 7 of 7

Sample Receiving Non-Conformance Form (NCF)

Date: 3/22/24	Evaluated by: GML
Client: ATC	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	<input checked="" type="checkbox"/>	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received		Required signatures are missing

Comments/Details/Other Issues not listed above:

did not received sample MW-27

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	<input checked="" type="checkbox"/>	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect		Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper		Other:

Comments/Details:

Containers received broken; MW-15 (1 vial), MW-23 (2 vials), DMW-1 (2 vials), SW-6 (2 vials)

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:



April 03, 2024

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

RE: Project: Circle K 886
Pace Project No.: 92721692

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2024. 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
704-977-0943
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Circle K 886

Pace Project No.: 92721692

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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SAMPLE SUMMARY

Project: Circle K 886
Pace Project No.: 92721692

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92721692001	01589 MW-27	Water	03/19/24 13:29	03/27/24 10:45
92721692002	Trip #4	Water	03/19/24 00:00	03/27/24 10:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Circle K 886
Pace Project No.: 92721692

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92721692001	01589 MW-27	EPA 8260D	TMH	18	PASI-C
92721692002	Trip #4	EPA 8260D	TMH	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Circle K 886

Pace Project No.: 92721692

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: April 03, 2024

General Information:

2 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 842454

v2: The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard.

- DUP (Lab ID: 4350990)
- Naphthalene

v3: The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias.

- MS (Lab ID: 4350989)
- Naphthalene

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 842454

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92721702009

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 4350989)
- Naphthalene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Circle K 886

Pace Project No.: 92721692

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: April 03, 2024

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Circle K 886

Pace Project No.: 92721692

Sample: 01589 MW-27 Lab ID: 92721692001 Collected: 03/19/24 13:29 Received: 03/27/24 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/29/24 01:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/29/24 01:28	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/29/24 01:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/29/24 01:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/29/24 01:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/29/24 01:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/29/24 01:28	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/29/24 01:28	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/29/24 01:28	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/29/24 01:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/29/24 01:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/29/24 01:28	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/29/24 01:28	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/29/24 01:28	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/29/24 01:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/29/24 01:28	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/29/24 01:28	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		03/29/24 01:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Circle K 886

Pace Project No.: 92721692

Sample: Trip #4 **Lab ID: 92721692002** Collected: 03/19/24 00:00 Received: 03/27/24 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/29/24 00:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/29/24 00:00	994-05-8	
Benzene	ND	ug/L	1.0	0.34	1		03/29/24 00:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/29/24 00:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/29/24 00:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/29/24 00:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	1.0	0.32	1		03/29/24 00:00	107-06-2	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/29/24 00:00	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/29/24 00:00	64-17-5	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/29/24 00:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/29/24 00:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.42	1		03/29/24 00:00	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.64	1		03/29/24 00:00	91-20-3	
Toluene	ND	ug/L	1.0	0.48	1		03/29/24 00:00	108-88-3	
Xylene (Total)	ND	ug/L	1.0	0.34	1		03/29/24 00:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/29/24 00:00	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		03/29/24 00:00	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		03/29/24 00:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Circle K 886

Pace Project No.: 92721692

QC Batch: 842454

Analysis Method: EPA 8260D

QC Batch Method: EPA 8260D

Analysis Description: 8260 MSV Low Level SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92721692001, 92721692002

METHOD BLANK: 4350987

Matrix: Water

Associated Lab Samples: 92721692001, 92721692002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	1.0	0.32	03/28/24 18:43	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/28/24 18:43	
Benzene	ug/L	ND	1.0	0.34	03/28/24 18:43	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/28/24 18:43	
Ethanol	ug/L	ND	200	72.2	03/28/24 18:43	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/28/24 18:43	
Ethylbenzene	ug/L	ND	1.0	0.30	03/28/24 18:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.42	03/28/24 18:43	
Naphthalene	ug/L	ND	1.0	0.64	03/28/24 18:43	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/28/24 18:43	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/28/24 18:43	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/28/24 18:43	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/28/24 18:43	
Toluene	ug/L	ND	1.0	0.48	03/28/24 18:43	
Xylene (Total)	ug/L	ND	1.0	0.34	03/28/24 18:43	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/28/24 18:43	
4-Bromofluorobenzene (S)	%	99	70-130		03/28/24 18:43	
Toluene-d8 (S)	%	99	70-130		03/28/24 18:43	

LABORATORY CONTROL SAMPLE: 4350988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	400	375	94	70-130	
Benzene	ug/L	20	18.8	94	70-130	
Diisopropyl ether	ug/L	20	17.6	88	70-130	
Ethanol	ug/L	800	603	75	70-130	
Ethyl-tert-butyl ether	ug/L	40	37.1	93	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Methyl-tert-butyl ether	ug/L	20	19.3	96	70-130	
Naphthalene	ug/L	20	16.3	81	70-130	
tert-Amyl Alcohol	ug/L	400	347	87	70-130	
tert-Amylmethyl ether	ug/L	40	36.4	91	70-130	
tert-Butyl Alcohol	ug/L	200	167	83	70-130	
tert-Butyl Formate	ug/L	160	156	97	70-130	
Toluene	ug/L	20	18.6	93	70-130	
Xylene (Total)	ug/L	60	58.5	97	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: Circle K 886

Pace Project No.: 92721692

LABORATORY CONTROL SAMPLE: 4350988

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE SAMPLE: 4350989

Parameter	Units	92721702009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	16.3	82	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	294	73	39-157	
Benzene	ug/L	ND	20	16.2	81	70-151	
Diisopropyl ether	ug/L	ND	20	14.2	71	63-144	
Ethanol	ug/L	ND	800	525	66	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	30.3	76	66-137	
Ethylbenzene	ug/L	ND	20	16.2	81	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	15.8	79	54-156	
Naphthalene	ug/L	ND	20	11.2	56	61-148	M1,v3
tert-Amyl Alcohol	ug/L	ND	400	253	63	54-153	
tert-Amylmethyl ether	ug/L	ND	40	28.3	71	69-139	
tert-Butyl Alcohol	ug/L	ND	200	138	69	43-188	
tert-Butyl Formate	ug/L	ND	160	121	76	10-170	
Toluene	ug/L	ND	20	15.4	77	59-148	
Xylene (Total)	ug/L	ND	60	48.3	81	63-158	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 4350990

Parameter	Units	92721702010 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	v2
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)	%	102	100			
4-Bromofluorobenzene (S)	%	100	99			

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QUALITY CONTROL DATA

Project: Circle K 886
 Pace Project No.: 92721692

SAMPLE DUPLICATE: 4350990

Parameter	Units	92721702010 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	99	96			

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.

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QUALIFIERS

Project: Circle K 886

Pace Project No.: 92721692

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

- | | |
|----|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| v2 | The continuing calibration verification was below the method acceptance limit. The analyte was not detected in the associated samples and the sensitivity of the instrument was verified with a reporting limit check standard. |
| v3 | The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have low bias. |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Circle K 886
Pace Project No.: 92721692

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92721692001	01589 MW-27	EPA 8260D	842454		
92721692002	Trip #4	EPA 8260D	842454		

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023 4:16:30 PM

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

ATLAS

Project #: WO#: 92721692

Courier: Fed Ex UPS USPS Client Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: HHT 11/30/23

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 922070

Type of Ice: Wet Blue None

Cooler Temp: 1.8 Correction Factor: 0 Add/Subtract (°C)

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.8

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 -Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	9.
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: _____

*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

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-)	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-)	AG3S-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)	VG9V-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)-YPH/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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																3													
2																2													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
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).

Pace® Location Requested (City/State): CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company Name: **ATLAS**
 Street Address: **6909 N. MAIN ST., STE. 107**
COLUMBIA SC 29203
 Project Name: **CIRCLE K 886**
 Site Collection Info/Activity ID (as applicable):
 Time Zone Collected: **[] AK [] PT [] MT [] CT [] ET**
 County/State origin of sample(s):

Contact/Report To: **ISRAEL HUBBARD**
 Phone #: **803.455.4557**
 Email: **brod.hubbard@oneatlans.com**
 CC E-Mail:
 Invoice to: **SALE**
 Invoice E-mail:
 Purchase Order # (if applicable):
 Quote #:

Data Deliverables: **[] Level II [] Level III [] Level IV**
[] EQUIS
[] Other
 Regulatory Program (DW, RCRA, etc.) as applicable: **SCDHEC 457**
 Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day Other:
 Date Results:
 Requested:
 Replicable: **[] Yes [] No**
 DW PWSID # or WW Permit # as applicable:
 Field Filtered (if applicable): **[] Yes [] No**
 Analysis:
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Sed (SS), Oil (O), Vapor (V), Tissue (TS), Residue (R), Vapor (V), Surface Water (SW), Sediment (SE), Sludge (SL), Cook (CX), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Match *	Comp / Grab	Composite Start Date	Time	Collected or Composite End Date	Time	# Cont.	Residual Check Result	Units
01589 MW-27		G	3/19/24	1329			3		
TRIP #4		W					2		

Additional Instructions from Pace: **Collected By: J. Gray**

Retinquished by/Company: (Signature) **[Signature]** Date/Time: **3/27/24 10:00**
 Retinquished by/Company: (Signature) **[Signature]** Date/Time: **3/27/24 1700**
 Retinquished by/Company: (Signature) **[Signature]** Date/Time: **[Signature]**



LAB USE ONLY - Aftix WorkorderLogin Label Here
 Scan QR Code for Instructions
92791602

Specify Container Size **
 Identify Container Preservative Type***
 Analysis Requested
 * Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 50mL, (7) 25mL, (8) 10mL, (9) 5mL, (10) Other
 ** Preservative Type: (1) None, (2) HClO4, (3) H2SO4, (4) HNO3, (5) NaOH, (6) 2% Acetic Acid, (7) Boric Acid, (8) Ascorbic Acid, (9) Ascorbic Acid, (10) MDA, (11) Other
 Lab Use Only
 Actinum / Client ID:
 Table #:
 Profile / Template:
 Pregab / Bottle Ord. ID:
 Sample Comment: **001**
 Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
Sample left out of original shipment & 3/22/24
 Thermometer ID: **023070**
 Correction Factor FCF: **0**
 Date/Time: **3/27/24 1045**
 Delivered by: **[Signature]**
 Tracking Number:
 Corrected Temp: FCP: **18**
 Corrected Temp: CP: **18**
 Other:
 Page: **1** of **1**
 EHV-FRM-COR-0019_v02_110123 ©



March 27, 2024

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

RE: Project: 257CK88613 Circle K 2720886 WS
Pace Project No.: 92720664

Dear Brad Hubbard:

Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 2024. 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,

A handwritten signature in black ink, appearing to read "T Cannon".

Taylor M Cannon
taylor.cannon@pacelabs.com
704-977-0943
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

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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SAMPLE SUMMARY

Project: 257CK88613 Circle K 2720886 WS
Pace Project No.: 92720664

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92720664001	01589 WSW-12	Water	03/20/24 17:20	03/22/24 10:05
92720664002	01589 WSW-13	Water	03/20/24 17:39	03/22/24 10:05
92720664003	01589 WSW-FB	Water	03/20/24 17:49	03/22/24 10:05
92720664004	01589 DUP-1	Water	03/20/24 17:22	03/22/24 10:05
92720664005	01589 TRIP BLANK	Water	03/20/24 00:00	03/22/24 10:05

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SAMPLE ANALYTE COUNT

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92720664001	01589 WSW-12	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	JJK	11	PASI-C
92720664002	01589 WSW-13	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	JJK	11	PASI-C
92720664003	01589 WSW-FB	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	JJK	11	PASI-C
92720664004	01589 DUP-1	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	JJK	11	PASI-C
92720664005	01589 TRIP BLANK	EPA 524.2	GAW	10	PASI-C
		EPA 8260D	JJK	11	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Method: EPA 524.2

Description: 524.2 MSV SC List

Client: ATC Group Services, LLC - Columbia

Date: March 27, 2024

General Information:

5 samples were analyzed for EPA 524.2 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Method: EPA 8260D

Description: 8260 MSV Low Level SC

Client: ATC Group Services, LLC - Columbia

Date: March 27, 2024

General Information:

5 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Sample: 01589 WSW-12 **Lab ID: 92720664001** Collected: 03/20/24 17:20 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		03/25/24 15:57	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		03/25/24 15:57	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:57	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		03/25/24 15:57	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		03/25/24 15:57	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		03/25/24 15:57	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		03/25/24 15:57	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:57	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	91	%	70-130		1		03/25/24 15:57	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130		1		03/25/24 15:57	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/23/24 17:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/23/24 17:25	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/23/24 17:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/23/24 17:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/23/24 17:25	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/23/24 17:25	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/23/24 17:25	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/23/24 17:25	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/23/24 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/23/24 17:25	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/24 17:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Sample: 01589 WSW-13 **Lab ID: 92720664002** Collected: 03/20/24 17:39 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		03/25/24 16:49	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		03/25/24 16:49	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		03/25/24 16:49	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		03/25/24 16:49	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		03/25/24 16:49	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		03/25/24 16:49	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		03/25/24 16:49	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		03/25/24 16:49	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	92	%	70-130		1		03/25/24 16:49	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		03/25/24 16:49	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/23/24 17:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/23/24 17:43	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/23/24 17:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/23/24 17:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/23/24 17:43	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/23/24 17:43	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/23/24 17:43	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/23/24 17:43	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/23/24 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		03/23/24 17:43	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/24 17:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Sample: 01589 WSW-FB **Lab ID: 92720664003** Collected: 03/20/24 17:49 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		03/25/24 15:05	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		03/25/24 15:05	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:05	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		03/25/24 15:05	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		03/25/24 15:05	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		03/25/24 15:05	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		03/25/24 15:05	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:05	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		03/25/24 15:05	2199-69-1	
4-Bromofluorobenzene (S)	87	%	70-130		1		03/25/24 15:05	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/23/24 12:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/23/24 12:54	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/23/24 12:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/23/24 12:54	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/23/24 12:54	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/23/24 12:54	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/23/24 12:54	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/23/24 12:54	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/23/24 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/23/24 12:54	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/24 12:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Sample: 01589 DUP-1 Lab ID: 92720664004 Collected: 03/20/24 17:22 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		03/25/24 16:23	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		03/25/24 16:23	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		03/25/24 16:23	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		03/25/24 16:23	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		03/25/24 16:23	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		03/25/24 16:23	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		03/25/24 16:23	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		03/25/24 16:23	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	93	%	70-130		1		03/25/24 16:23	2199-69-1	
4-Bromofluorobenzene (S)	86	%	70-130		1		03/25/24 16:23	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/23/24 18:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/23/24 18:02	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/23/24 18:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/23/24 18:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/23/24 18:02	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/23/24 18:02	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/23/24 18:02	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/23/24 18:02	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/23/24 18:02	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		03/23/24 18:02	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/24 18:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Sample: 01589 TRIP BLANK **Lab ID: 92720664005** Collected: 03/20/24 00:00 Received: 03/22/24 10:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV SC List									
Analytical Method: EPA 524.2									
Pace Analytical Services - Charlotte									
Benzene	ND	mg/L	0.00050	0.00021	1		03/25/24 15:31	71-43-2	
1,2-Dichloroethane	ND	mg/L	0.00050	0.00016	1		03/25/24 15:31	107-06-2	
Ethylbenzene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:31	100-41-4	
Methyl-tert-butyl ether	ND	mg/L	0.00050	0.00014	1		03/25/24 15:31	1634-04-4	
Naphthalene	ND	mg/L	0.00050	0.00035	1		03/25/24 15:31	91-20-3	
Toluene	ND	mg/L	0.00050	0.00020	1		03/25/24 15:31	108-88-3	
m&p-Xylene	ND	mg/L	0.0010	0.00039	1		03/25/24 15:31	179601-23-1	
o-Xylene	ND	mg/L	0.00050	0.00022	1		03/25/24 15:31	95-47-6	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	90	%	70-130		1		03/25/24 15:31	2199-69-1	
4-Bromofluorobenzene (S)	84	%	70-130		1		03/25/24 15:31	460-00-4	
8260 MSV Low Level SC									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	36.4	1		03/23/24 13:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	2.7	1		03/23/24 13:12	994-05-8	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	51.9	1		03/23/24 13:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	26.8	1		03/23/24 13:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	29.4	1		03/23/24 13:12	762-75-4	
Diisopropyl ether	ND	ug/L	1.0	0.31	1		03/23/24 13:12	108-20-3	
Ethanol	ND	ug/L	200	72.2	1		03/23/24 13:12	64-17-5	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.2	1		03/23/24 13:12	637-92-3	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/23/24 13:12	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/23/24 13:12	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/23/24 13:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

QC Batch:	841540	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92720664001, 92720664002, 92720664003, 92720664004, 92720664005

METHOD BLANK: 4346452 Matrix: Water
 Associated Lab Samples: 92720664001, 92720664002, 92720664003, 92720664004, 92720664005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	mg/L	ND	0.00050	0.00016	03/25/24 12:54	
Benzene	mg/L	ND	0.00050	0.00021	03/25/24 12:54	
Ethylbenzene	mg/L	ND	0.00050	0.00022	03/25/24 12:54	
m&p-Xylene	mg/L	ND	0.0010	0.00039	03/25/24 12:54	
Methyl-tert-butyl ether	mg/L	ND	0.00050	0.00014	03/25/24 12:54	
Naphthalene	mg/L	ND	0.00050	0.00035	03/25/24 12:54	
o-Xylene	mg/L	ND	0.00050	0.00022	03/25/24 12:54	
Toluene	mg/L	ND	0.00050	0.00020	03/25/24 12:54	
1,2-Dichlorobenzene-d4 (S)	%	90	70-130		03/25/24 12:54	
4-Bromofluorobenzene (S)	%	87	70-130		03/25/24 12:54	

LABORATORY CONTROL SAMPLE: 4346453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	mg/L	0.02	0.021	105	70-130	
Benzene	mg/L	0.02	0.020	102	70-130	
Ethylbenzene	mg/L	0.02	0.020	100	70-130	
m&p-Xylene	mg/L	0.04	0.041	102	70-130	
Methyl-tert-butyl ether	mg/L	0.02	0.019	94	70-130	
Naphthalene	mg/L	0.02	0.019	96	70-130	
o-Xylene	mg/L	0.02	0.020	99	70-130	
Toluene	mg/L	0.02	0.019	97	70-130	
1,2-Dichlorobenzene-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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.

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

QC Batch: 841330 Analysis Method: EPA 8260D
 QC Batch Method: EPA 8260D Analysis Description: 8260 MSV Low Level SC
 Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92720664001, 92720664002, 92720664003, 92720664004, 92720664005

METHOD BLANK: 4345811 Matrix: Water

Associated Lab Samples: 92720664001, 92720664002, 92720664003, 92720664004, 92720664005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	100	51.9	03/23/24 12:36	
Diisopropyl ether	ug/L	ND	1.0	0.31	03/23/24 12:36	
Ethanol	ug/L	ND	200	72.2	03/23/24 12:36	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.2	03/23/24 12:36	
tert-Amyl Alcohol	ug/L	ND	100	36.4	03/23/24 12:36	
tert-Amylmethyl ether	ug/L	ND	10.0	2.7	03/23/24 12:36	
tert-Butyl Alcohol	ug/L	ND	100	26.8	03/23/24 12:36	
tert-Butyl Formate	ug/L	ND	50.0	29.4	03/23/24 12:36	
1,2-Dichloroethane-d4 (S)	%	102	70-130		03/23/24 12:36	
4-Bromofluorobenzene (S)	%	100	70-130		03/23/24 12:36	
Toluene-d8 (S)	%	100	70-130		03/23/24 12:36	

LABORATORY CONTROL SAMPLE: 4345812

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	400	431	108	70-130	
Diisopropyl ether	ug/L	20	21.6	108	70-130	
Ethanol	ug/L	800	878	110	70-130	
Ethyl-tert-butyl ether	ug/L	40	42.3	106	70-130	
tert-Amyl Alcohol	ug/L	400	432	108	70-130	
tert-Amylmethyl ether	ug/L	40	39.6	99	70-130	
tert-Butyl Alcohol	ug/L	200	226	113	70-130	
tert-Butyl Formate	ug/L	160	164	103	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE SAMPLE: 4345814

Parameter	Units	92720258004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
3,3-Dimethyl-1-Butanol	ug/L	ND	400	430	107	39-157	
Diisopropyl ether	ug/L	ND	20	21.7	109	63-144	
Ethanol	ug/L	ND	800	834	104	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	39.4	99	66-137	
tert-Amyl Alcohol	ug/L	ND	400	429	107	54-153	
tert-Amylmethyl ether	ug/L	ND	40	41.7	104	69-139	
tert-Butyl Alcohol	ug/L	ND	200	255	128	43-188	

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QUALITY CONTROL DATA

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

MATRIX SPIKE SAMPLE: 4345814		92720258004	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
tert-Butyl Formate	ug/L	ND	160	32.1J	20	10-170	
1,2-Dichloroethane-d4 (S)	%				90	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				91	70-130	

SAMPLE DUPLICATE: 4345813

Parameter	Units	92720258003	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)	%	99	93			
4-Bromofluorobenzene (S)	%	94	92			
Toluene-d8 (S)	%	100	100			

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QUALIFIERS

Project: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

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: 257CK88613 Circle K 2720886 WS

Pace Project No.: 92720664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92720664001	01589 WSW-12	EPA 524.2	841540		
92720664002	01589 WSW-13	EPA 524.2	841540		
92720664003	01589 WSW-FB	EPA 524.2	841540		
92720664004	01589 DUP-1	EPA 524.2	841540		
92720664005	01589 TRIP BLANK	EPA 524.2	841540		
92720664001	01589 WSW-12	EPA 8260D	841330		
92720664002	01589 WSW-13	EPA 8260D	841330		
92720664003	01589 WSW-FB	EPA 8260D	841330		
92720664004	01589 DUP-1	EPA 8260D	841330		
92720664005	01589 TRIP BLANK	EPA 8260D	841330		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 11/29/2023 4:16:30 PM

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: ATC

Project #: **WO# : 92720664**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No N/A

Date/Initials Person Examining Contents: AV 3/22/24

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T070 Type of Ice: Wet Blue None

Cooler Temp: 5.7 Correction Factor: 0 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 5.7

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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
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: _____

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#: 92720664

PM: TMC

Due Date: 03/29/24

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-)	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)	DG94-40 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-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																6												
2																6												
3																6												
4																6												
5																6												
6																2												
7																												
8																												
9																												
10																												
11																												
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.

CHAIN-OF-CUSTODY Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here

Company Name: ATC Group Services, LLC - Columbia
 Street Address: 6904 North Main Street, Columbia, SC 29203

Contact/Report To: Brad Hubbard
 Phone #:
 E-Mail: brad.hubbard@atcgs.com
 Cc E-Mail:



Scan QR Code for instructions

Customer Project #: 257CK88613 Circle K 2720886 WSW

Invoice To: Angela White
 Invoice E-Mail: angela.white@oneatlas.com
 Purchase Order # (if applicable):
 Quote #:

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [] CT [] ET
 Data Deliverables: [] Level II [] Level III [] Level IV
 [] EQUUS

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No
 County / State origin of sample(s): South Carolina

Rush (Pre-approval required):
 [] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other
 Date Results: Requested: Field Filtered (if applicable): [] Yes [] No

DW PW/SID # or WW Permit # as applicable:
 Analysis: [] Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caustic (CA), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID: 01589 WSW-12

Matrix *
 Comp / Grab
 Date
 Composite Start Time
 Collected or Composite End Date
 Time
 # Cont. Results
 Res. Chlorine Units

WSW-13
 WSW-FB
 WSW-Dup-1
 Trip Blank

G
 3/20/24 17:20
 3/20/24 17:39
 3/20/24 17:49
 3/20/24 17:22

524.2 BTEXNM+1,2-DCA
 8260 OxyS
 Trip Blank-524
 Trip Blank-8260

92720664-001
 002
 003
 004
 005

Additional Instructions from Pace®:

Collected By: Yolanda Wisniewski
 Signature: *Yolanda Wisniewski*

Customer Remarks / Special Conditions / Possible Hazards:

Relinquished by/Company: (Signature)
 Relinquished by/Company: (Signature)
 Relinquished by/Company: (Signature)

Date/Time: 3/22/24 10:00
 Date/Time: 3/22/24 1245

Received by/Company: (Signature)
 Received by/Company: (Signature)
 Received by/Company: (Signature)

Date/Time: 3/22/24 10:05
 Date/Time: 3/22/24 1245

Tracking Number:
 Delivered by: [] In-Person [] Courier
 [] FedEx [] UPS [] Other

Relinquished by/Company: (Signature)
 Date/Time: 3/22/24 10:00

Received by/Company: (Signature)
 Received by/Company: (Signature)

Received by/Company: (Signature)
 Received by/Company: (Signature)

Date/Time: 3/22/24 10:05
 Date/Time: 3/22/24 1245

Page: 1 of 1

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		

APPENDIX E
AFVR REPORTS

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 015895
DATE: 12/11/2023

Date	Time (hh:mm)	Extraction Well						MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		Head Vacuum (in. Hg)						Temp (°F)	Pretreatment Conc. (PPM)	Depth to Water (ft)	Product Thickness (ft)			
		MW-6	RW-5	RW-6	RW-8	RW-9								
12/11/2023	10:30	10.0	12.0	15.0	8.0	8.0	11	180	236.0	2600	0.03	101.92		
	11:00	10.0	12.0	15.0	8.0	11.0	12.0	183	257.6	2600	0.03	101.44		
	11:30	10.0	12.0	15.0	11.0	12.0	12.0	185	253.5	2600	0.04	100.09		
	12:00	10.0	13.0	15.0	9.0	12.0	12.0	187	324.3	2600	0.04	99.78		
	12:30	10.0	13.0	15.0	9.0	12.0	12.0	190	339.9	2600	0.04	99.32		
	13:00	10.0	13.0	15.0	9.0	12.0	12.0	194	344.7	2600	0.04	98.71		
	13:30	11.0	13.0	15.0	9.0	12.0	12.0	195	305.8	2600	0.04	98.56		
	14:00	11.0	13.0	15.0	10.0	12.0	12.0	200	318.6	2600	0.04	97.81		
	14:30	11.0	13.0	15.0	10.0	12.0	12.0	205	332.4	2600	0.04	97.08		
	15:00	11.0	13.0	15.0	10.0	12.0	12.0	209	337.6	2600	0.04	96.50		
	15:30	11.0	13.0	15.0	10.0	12.0	12.0	212	341.5	2600	0.05	95.06		
	16:00	11.0	13.0	15.0	10.0	12.0	12.0	215	274.6	2600	0.05	94.64		
	16:30	11.0	13.0	15.0	10.0	12.0	12.0	215	258.2	2600	0.05	94.64		
	17:00	11.0	13.0	15.0	10.0	12.0	12.0	215	231.1	2600	0.05	94.64		
	17:30	11.0	13.0	15.0	10.0	12.0	12.0	215	262.8	2600	0.05	94.64		
	18:00	12.0	13.0	15.0	10.0	12.0	12.0	215	254.7	2600	0.05	94.64		
	18:30	12.0	15.0	15.0	10.0	12.0	12.0	215		2600	0.05	94.64		

Well No.	Diameter (in)	Total Depth (ft)	Well Gauging Data:		Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Water (ft)	Product Thickness (ft)
			Target	Slinger Depth (ft)					
MW-6	4.00	6.00	6.00	6.00	5.28	0.00	0.00	6.94	0.00
RW-5	4.00	6.00	6.00	6.00	5.39	0.00	0.00	6.71	0.00
RW-6	2.00	5.50	5.50	5.50	4.64	0.00	0.00	5.99	0.00
RW-8	4.00	5.50	5.50	5.50	5.13	0.00	0.00	6.59	0.00
RW-9	2.00	6.00	6.00	6.00	5.48	0.00	0.00	6.83	0.00

AFVR Information		Notes:	
Client	Alias	Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)	
Equipment Operator:	JG/CJ	Velocity - The rate at which air flows is measured at the blower discharge piping	
Blower Discharge I.D.	3 inches	Temperature - The temperature of the air stream exiting the blower discharge piping	
		Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping	
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs. relative humidity)	
		Flow rate = (1 - water vapor)(velocity)(pipe diameter/24)(3.14)(628°F)(temp + 460)	

After AFVR Event	
Depth to Product (ft)	0.00
Depth to Water (ft)	6.94
Product Thickness (ft)	0.00
Water (ft)	6.71
Product Thickness (ft)	0.00
Water (ft)	5.99
Product Thickness (ft)	0.00
Water (ft)	6.59
Product Thickness (ft)	0.00
Water (ft)	6.83
Product Thickness (ft)	0.00
Total Gallons Extracted	
1,500	

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 12/11/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
9/11/2023 - 10:30	0.0								
11:00	0.5	101.92	236.0	4	944	5022.08	0.000313528	1.917262108	0.958631054
11:30	1.0	101.44	257.6	4	1030.4	5481.728	0.000342224	2.082976383	1.041488191
12:00	1.5	100.09	253.5	4	1014	5394.48	0.000336777	2.022400705	1.011200352
12:30	2.0	99.78	324.3	4	1297.2	6901.104	0.000430836	2.579239237	1.289619618
13:00	2.5	99.32	339.9	4	1359.6	7233.072	0.000451561	2.690833134	1.345416567
13:30	3.0	98.71	344.7	4	1378.8	7335.216	0.000457938	2.712142436	1.356071218
14:00	3.5	98.56	305.8	4	1223.2	6507.424	0.000406258	2.402399009	1.201199504
14:30	4.0	97.81	318.6	4	1274.4	6779.808	0.000423263	2.483995443	1.241997722
15:00	4.5	97.08	332.4	4	1329.6	7073.472	0.000441597	2.572102839	1.286051419
15:30	5.0	96.50	337.6	4	1350.4	7184.128	0.000448505	2.596720934	1.298360467
16:00	5.5	95.06	341.5	4	1366	7267.12	0.000453686	2.587752675	1.293876337
16:30	6.0	94.64	274.6	4	1098.4	5843.488	0.000364809	2.071562741	1.035781371
17:00	6.5	94.64	258.2	4	1032.8	5494.496	0.000343021	1.947842315	0.973921158
17:30	7.0	94.64	231.1	4	924.4	4917.808	0.000307019	1.743401855	0.871700928
18:00	7.5	94.64	262.8	4	1051.2	5592.384	0.000349133	1.982544386	0.991272193
18:30	8.0	94.64	254.7	4	1018.8	5420.016	0.000338372	1.921438566	0.960719283
Total Emissions in pounds									18.15730738
Equivalent Gallons (vapor)									2.947614835

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 12/11/2023

		Well Designation:				
		MW-6	RW-5	RW-6	RW-8	RW-9
Time	Elapsed Time					
12/11/2023 - 10:30	0.0	5.5	5.5	5.0	5.0	5.5
11:00	0.5	6.0	6.0	5.5	5.5	6.0
11:30	1.0	6.0	6.0	5.5	5.5	6.0
12:00	1.5	6.0	6.0	5.5	5.5	6.0
12:30	2.0	6.0	6.0	5.5	5.5	6.0
13:00	2.5	6.0	6.0	5.5	5.5	6.0
13:30	3.0	6.0	6.0	5.5	5.5	6.0
14:00	3.5	6.0	6.0	5.5	5.5	6.0
14:30	4.0	6.0	6.0	5.5	5.5	6.0
15:00	4.5	6.0	6.0	5.5	5.5	6.0
15:30	5.0	6.0	6.0	5.5	5.5	6.0
16:00	5.5	6.0	6.0	5.5	5.5	6.0
16:30	6.0	6.0	6.0	5.5	5.5	6.0
17:00	6.5	6.0	6.0	5.5	5.5	6.0
17:30	7.0	6.0	6.0	5.5	5.5	6.0
18:00	7.5	6.0	6.0	5.5	5.5	6.0
18:30	8.0	6.0	6.0	5.5	5.5	6.0

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number		
5. Generator's Name and Mailing Address <i>VERCO 2047 Industrial Blvd Lanington, IL 29072</i>		Generator's Site Address (if different than mailing address) <i>CIRCLE K 4315 Savannah Hwy Ravenna, GA</i>				
Generator's Phone:						
6. Transporter 1 Company Name <i>VERCO</i>		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address <i>US Water Recovery 511 Old Mount Holly Rd 6000 Creek, SC 29445</i>		U.S. EPA ID Number				
Facility's Phone:						
GENERATOR	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. <i>Non-Haz, Non-DOT PCW</i>		<i>1</i>	<i>TT</i>	<i>1500</i>	<i>G</i>
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name <i>Bill Atkins</i>			Signature <i>WS Atkins</i>		Month	Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:			
16. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>			Signature <i>C Scott</i>		Month Day Year <i>12/12/23</i>
	Transporter 2 Printed/Typed Name			Signature		Month Day Year
DESIGNATED FACILITY	17. Discrepancy					
	17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	17b. Alternate Facility (or Generator) U.S. EPA ID Number					
	Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)					Month	Day Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name <i>Dan Stewart</i>			Signature <i>D Stewart</i>		Month	Day Year <i>12/12/23</i>

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 01589

DATE: 12/12/2023

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-1	RW-2	RW-3	RW-7	Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)				
12/12/2023	10:00	16.0	15.0			11.7	150	471.5	2600	0.02	108.03	
	10:30	16.0	15.0			10.0	170	391.1	2600	0.03	103.54	
	11:00	17.0	15.0			9.7	175	385.3	2600	0.03	102.72	
	11:30	17.0	15.0			9.2	180	359.2	2600	0.03	101.92	
	12:00	17.0	15.0			9.2	185	407.4	2600	0.04	100.09	
	12:30	17.0	15.0			9.0	190	422.3	2600	0.04	99.32	
	13:00	17.0	15.0			9.1	190	436.8	2600	0.04	99.32	
	13:30	17.0	15.0			8.7	195	398.1	2600	0.04	98.56	
	14:00	17.0	15.0									
	14:30											
	15:00	17.0		16.0		9.5	175	310.3	2600	0.03	102.72	
	15:30	17.0		16.0		9.3	180	348.2	2600	0.03	101.92	
	16:00	17.0		16.0		9.2	180	319.8	2600	0.03	101.92	
	16:30	17.0		16.0		8.9	190	290.2	2600	0.04	99.32	
	17:00	17.0		16.0		8.6	195	304.1	2600	0.04	98.56	
	17:30	17.0		16.0		8.4	195	311.1	2600	0.04	98.56	
	18:00	17.0		16.0		8.3	195	296.3	2600	0.04	98.56	
	18:30	17.0		16.0		7.9	200	259.8	2600	0.04	97.81	
Well Gauging Data:												
Well No.	Diameter (in)	Total Depth (ft)	Target Stringer Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Before AFVR Event	After AFVR Event	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
RW-1	4.00		8.00	0.00	7.32	0.00			0.00	8.99	0.00	
RW-2	4.00		7.00	0.00	6.38	0.00			0.00	8.05	0.00	
RW-3	4.00		8.00	0.00	7.01	0.00			0.00	7.39	0.00	
RW-7	4.00		8.00	0.00	7.43	0.00			0.00	9.03	0.00	
Total Gallons Extracted											900	

AFVR Information		Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)	
Client	Alias	Velocity - The rate at which air flows is measured at the blower discharge piping	
Equipment Operator	CJ	Temperature - The temperature of the air stream exiting the blower discharge piping	
Blower Discharge I.D.	3 inches	Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping	
		Water Vapor in % - Pounds of water per pound of dry air (derived from a psychrometric chart of temp. vs. relative humidity)	
		Flow rate = (1 - water vapor) (velocity) (pipe diameter) (24) (3.14) (628°F) (Temp + 460)	

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 12/12/2023

Date/Time	Elapsed Time (hr)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm ³)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
12/12/2023 - 10:00	0.0								
10:30	0.5	108.03	471.5	4	1886	10033.52	0.000626393	4.060277006	2.030138503
11:00	1.0	103.54	391.1	4	1564.4	8322.608	0.00051958	3.227726491	1.613863245
11:30	1.5	102.72	385.3	4	1541.2	8199.184	0.000511875	3.154821151	1.577410576
12:00	2.0	101.92	359.2	4	1436.8	7643.776	0.000477201	2.91813792	1.45906896
12:30	2.5	100.09	407.4	4	1629.6	8669.472	0.000541235	3.250201369	1.625100685
13:00	3.0	99.32	422.3	4	1689.2	8986.544	0.00056103	3.343156318	1.671578159
13:30	3.5	99.32	436.8	4	1747.2	9295.104	0.000580293	3.457946199	1.7289731
14:00	4.0	98.56	398.1	4	1592.4	8471.568	0.00052888	3.127518134	1.563759067
15:00	0.5	102.72	310.3	4	1241.2	6603.184	0.000412237	2.540724119	1.27036206
15:30	1.0	101.92	348.2	4	1392.8	7409.696	0.000462587	2.828774008	1.414387004
16:00	1.5	101.92	319.8	4	1279.2	6805.344	0.000424858	2.598052636	1.299026318
16:30	2.0	99.32	290.2	4	1160.8	6175.456	0.000385534	2.297380923	1.148690461
17:00	2.5	98.56	304.1	4	1216.4	6471.248	0.000404	2.389043619	1.194521809
17:30	3.0	98.56	311.1	4	1244.4	6620.208	0.0004133	2.444036402	1.222018201
18:00	3.5	98.56	296.3	4	1185.2	6305.264	0.000393638	2.327765946	1.163882973
18:30	4.0	97.81	259.8	4	1039.2	5528.544	0.000345147	2.025555606	1.012777803
Total Emissions in pounds									22.99555892
Equivalent Gallons (vapor)									3.73304528

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 12/12/2023

		Well Designation:			
		RW-1	RW-3	RW-3	RW-7
Time	Elapsed Time				
12/12/2023 - 10:00	0.0		6.5	7.0	
10:30	0.5		6.5	7.0	
11:00	1.0		7.0	7.5	
11:30	1.5		7.0	8.0	
12:00	2.0		7.0	8.0	
12:30	2.5		7.0	8.0	
13:00	3.0		7.0	8.0	
13:30	3.5		7.0	8.0	
14:00	4.0		7.0	8.0	
15:00	0.5	7.5			7.5
15:30	1.0	7.5			7.5
16:00	1.5	8.0			8.0
16:30	2.0	8.0			8.0
17:00	2.5	8.0			8.0
17:30	3.0	8.0			8.0
18:00	3.5	8.0			8.0
18:30	4.0	8.0			8.0

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number		
5. Generator's Name and Mailing Address <i>VERCO 2047 Industrial Blvd Lexington, SC 29072</i>		Generator's Site Address (if different than mailing address) <i>Circle K 4315 Savannah Hwy Ravenel, SC</i>				
Generator's Phone:						
6. Transporter 1 Company Name <i>VERCO</i>		U.S. EPA ID Number				
7. Transporter 2 Company Name		U.S. EPA ID Number				
8. Designated Facility Name and Site Address <i>US Water Recovery 571 Old Mount Holly Rd Gowee Creek, SC 29445</i>		U.S. EPA ID Number				
Facility's Phone:						
GENERATOR	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. <i>Non-Haz, Non-DGT PCW</i>		<i>1</i>	<i>TT</i>	<i>900</i>	<i>6</i>
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name <i>Bill Aikins</i>		Signature <i>Bill Aikins</i>		Month	Day	Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____				
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>		Signature <i>C Scott</i>		Month	Day	Year
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
17b. Alternate Facility (or Generator)		U.S. EPA ID Number				
Facility's Phone: _____						
17c. Signature of Alternate Facility (or Generator)		Signature		Month	Day	Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name <i>Dan Kinoshita</i>		Signature <i>D Kinoshita</i>		Month	Day	Year
				<i>12</i>	<i>13</i>	<i>23</i>

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 01589

DATE: 12/13/2023

Date	Time (hh:mm)	Extraction Well		MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)	
		MW-2	MW-33	Head Vacuum (in. Hg)	Temp (°F)	Pretreatment Conc. (PPM)	Relative Humidity				
12/13/2023	10:30		12.0				150	689.2		99.72	
	11:00		12.0				160	531.8		98.11	
	11:30		15.0				180	457.9		93.11	
	12:00		16.0				190	401.8		91.68	
	12:30		16.0				195	445.9		90.03	
	13:00		15.0				205	394.1		88.68	
	13:30		15.0				210	368.7		88.01	
	14:00		15.0				215	331.0		86.44	
	14:30		16.0				205	186.2		88.68	
	15:00		16.0				210	162.7		88.01	
	15:30		15.0				215	123.5		86.44	
	16:00		15.0				215	113.8		86.44	
	16:30		15.0				220	122.3		85.81	
	17:00		15.0				220	134.1		85.81	
	17:30		15.0				220	125.7		85.81	
	18:00		15.0				220	111.4		85.81	
	18:30		15.0							85.81	
Well Gauging Data:											
Well No.	Diameter (in)	Total Depth (ft)	Target Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Before AFVR Event	After AFVR Event	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW-2	2.00		9.00	0.00	7.24	0.00			0.00	8.45	0.00
MW-33	2.00		9.00	7.45	8.53	1.08			0.00	9.21	0.00
AFVR Information											
Client:	Alias	Notes: Pipe ID - The inside diameter of the blower discharge piping. (from MMPE Unit)									
Equipment Operator:	CJ	Velocity - The rate at which air flows is measured at the blower discharge piping									
Blower Discharge I.D.	3 inches	Temperature - The temperature of the air stream exiting the blower discharge piping									
		Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping									
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)									
		Flow rate = (1 - water vapor)(velocity)(pipe diameter/24)(3.14)(628°F/Temp + 460)									
										Total Gallons Extracted	
										800	

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 12/13/2023

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
12/13/2023 - 10:30	0.0								
11:00	0.5	99.72	689.2	4	2756.8	14666.176	0.000915609	5.478442768	2.739221384
11:30	1.0	98.11	531.8	4	2127.2	11316.704	0.000706502	4.159090196	2.079545098
12:00	1.5	93.11	457.9	4	1831.6	9744.112	0.000608325	3.398423688	1.699211844
12:30	2.0	91.68	401.8	4	1607.2	8550.304	0.000533795	2.936185086	1.468092543
13:00	2.5	90.03	445.9	4	1783.6	9488.752	0.000592383	3.199892565	1.599946282
13:30	3.0	88.68	394.1	4	1576.4	8386.448	0.000523566	2.785633743	1.392816871
14:00	3.5	88.01	368.7	4	1474.8	7845.936	0.000489822	2.586649354	1.293324677
14:30	4.0	86.44	331.0	4	1324	7043.68	0.000439737	2.28069754	1.14034877
15:00	4.5	88.68	186.2	4	744.8	3962.336	0.000247369	1.316125356	0.658062678
15:30	5.0	88.01	162.7	4	650.8	3462.256	0.000216149	1.141437076	0.570718538
16:00	5.5	86.44	123.5	4	494	2628.08	0.000164071	0.850955125	0.425477562
16:30	6.0	86.44	113.8	4	455.2	2421.664	0.000151184	0.784118973	0.392059487
17:00	6.5	85.81	122.3	4	489.2	2602.544	0.000162477	0.836490509	0.418245254
17:30	7.0	85.81	134.1	4	536.4	2853.648	0.000178153	0.917198505	0.458599253
18:00	7.5	85.81	125.7	4	502.8	2674.896	0.000166994	0.859745355	0.429872678
18:30	8.0	85.81	111.4	4	445.6	2370.592	0.000147996	0.761938207	0.380969103
							Total Emissions in pounds		17.14651202
							Equivalent Gallons (vapor)		2.783524679

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 12/14/2023

		Well Designation:			
		RW-11A	RW-11B	RW-12	
Time	Elapsed Time				
12/14/2023 - 10:30	0.0	3.5	3.5	4.0	
11:00	0.5	3.5	3.5	4.0	
11:30	1.0	4.0	4.0	4.5	
12:00	1.5	4.5	4.5	5.0	
12:30	2.0	5.0	5.0	5.5	
13:00	2.5	5.5	5.5	6.0	
13:30	3.0	6.0	6.0	6.5	
14:00	3.5	6.5	6.5	7.0	
14:30	4.0	7.0	7.0	7.0	
15:00	4.5	7.0	7.0	7.0	
15:30	5.0	7.0	7.0	7.0	
16:00	5.5	7.0	7.0	7.0	
16:30	6.0	7.0	7.0	7.0	
17:00	6.5	7.0	7.0	7.0	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number		
5. Generator's Name and Mailing Address <i>VERCO 2047 Industrial Blvd Lexington, SC 29072</i>		Generator's Site Address (if different than mailing address) <i>Circle K 4315 Savannah Hwy Ravenel, SC</i>				
Generator's Phone:						
6. Transporter 1 Company Name <i>VERCO</i>			U.S. EPA ID Number			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address <i>US Water Recovery 511 Old Mount Holly Rd Goose Creek, SC 29445</i>			U.S. EPA ID Number			
Facility's Phone:						
GENERATOR	9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	1. <i>Non-Haz, Non-DOT PCW</i>		<i>1</i>	<i>TT</i>	<i>800</i>	<i>G</i>
	2.					
	3.					
4.						
13. Special Handling Instructions and Additional Information						
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.						
Generator's/Officer's Printed/Typed Name <i>KIM ATKINS</i>			Signature <i>[Signature]</i>		Month	Day Year
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>			Signature <i>[Signature]</i>		Month	Day Year
Transporter 2 Printed/Typed Name			Signature		Month	Day Year
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator) Month Day Year						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name <i>Daniel W...</i>			Signature <i>[Signature]</i>		Month	Day Year

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 01589

DATE: 12/14/2023

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)			MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-11A	RW-11B	RW-12	Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)				
12/14/2023	10:30	10.0	10.0	5.0							
	11:00	10.0	10.0	5.0	9.8	180	889.4	2300	0.02	91.09	
	11:30	10.0	10.0	5.0	9.1	190	871.1	2300	0.04	87.86	
	12:00	11.0	11.0	5.0	8.5	200	839.9	2300	0.05	85.62	
	12:30	11.0	11.0	6.0	7.9	205	852.3	2300	0.05	84.98	
	13:00	11.0	11.0	6.0	7.4	210	861.7	2300	0.05	84.35	
	13:30	11.0	11.0	6.0	7.2	215	834.5	2300	0.05	83.72	
	14:00	11.0	11.0	6.0	7.1	215	810.8	2300	0.05	83.72	
	14:30	11.0	11.0	6.0	6.8	220	794.2	2300	0.05	83.11	
	15:00	11.0	11.0	6.0	6.7	220	852.6	2300	0.05	83.11	
	15:30	11.0	11.0	6.0	6.7	225	796.0	2300	0.05	82.50	
	16:00	11.0	11.0	6.0	6.3	225	764.1	2300	0.06	81.63	
	16:30	11.0	11.0	6.0	6.2	225	783.7	2300	0.06	81.63	
	17:00	11.0	11.0	6.0	6.3	225	819.4	2300	0.06	81.63	
Well Gauging Data:											
Well No.	Diameter (in)	Total Depth (ft)	Target Slinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Before AFVR Event	After AFVR Event	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
RW-11A	4.00		7.00	3.60	0.00	3.60			4.32	0.00	4.32
RW-11B	4.00		7.00	3.54	0.00	3.54			4.95	0.00	4.95
RW-12	4.00		7.00	3.83	3.89	0.06			0.00	4.74	0.00
Total Gallons Extracted											
											1,500
<p>AFVR Information</p> <p>Client: Atlas</p> <p>Equipment Operator: CJ</p> <p>Blower Discharge I.D.: 3 inches</p> <p>Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)</p> <p>Flow rate = $(1 - \text{water vapor}) \times \text{velocity} \times \text{pipe diameter} \times 2.22 \times 10^{-4}$ (528°RTemp + 460)</p>											

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 12/13/2023

		Well Designation:			
		MW-2	MW-33		
Time	Elapsed Time				
12/13/2023 - 10:30	0.0		7.5		
11:00	0.5		7.5		
11:30	1.0		8.0		
12:00	1.5		8.5		
12:30	2.0		9.0		
13:00	2.5		9.0		
13:30	3.0		9.0		
14:00	3.5		9.0		
14:30	4.0		9.0		
15:00	4.5	7.5			
15:30	5.0	7.5			
16:00	5.5	8.0			
16:30	6.0	8.5			
17:00	6.5	9.0			
17:30	7.0	8.5			
18:00	7.5	8.0			
18:30	8.0	8.0			

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone		4. Waste Tracking Number		
		5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072			Generator's Site Address (if different than mailing address) Circle K 4315 Savannah Hwy Ravenel, SC			
Generator's Phone:		6. Transporter 1 Company Name VERCO			U.S. EPA ID Number			
		7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Water Recovery 511 Old Mount Holly Rd. Goose Creek, SC 29445		Facility's Phone:			U.S. EPA ID Number			
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
		No.	Type					
1. Non-Haz, Non DOT PCW		1	TT	1500	G			
2.								
3.								
4.								
13. Special Handling Instructions and Additional Information								
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.								
Generator's/Officer's Printed/Typed Name Christopher Scott Jr.				Signature <i>C. Scott</i>		Month 12	Day 15	Year 23
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
16. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Christopher Scott Jr.				Signature <i>C. Scott</i>		Month 12	Day 15	Year 23
Transporter 2 Printed/Typed Name				Signature		Month	Day	Year
17. Discrepancy								
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection								
Manifest Reference Number: _____								
17b. Alternate Facility (or Generator)					U.S. EPA ID Number			
Facility's Phone: _____								
17c. Signature of Alternate Facility (or Generator)						Month	Day	Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a								
Printed/Typed Name Dan K...				Signature <i>Dan K...</i>		Month 12	Day 15	Year 23

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

AFVR MONITORING DATA
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 015895
DATE: 2/12/2024

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)			Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-1	RW-7	MW-33						
2/12/2024	10:30	13.0	14.0							
	11:00	13.0	14.0		11.0	155	2800	0.02	107.16	
	11:30	13.0	14.0		10.7	160	2800	0.02	106.29	
	12:00	13.0	14.0		10.6	160	2800	0.02	106.29	
	12:30	13.0	14.0		10.1	170	2800	0.03	103.54	
	13:00	13.0	14.0		9.7	180	2800	0.03	101.92	
	13:30	13.0	14.0		9.5	185	2800	0.04	100.09	
	14:00	13.0	14.0		8.9	190	2800	0.04	99.32	
	14:30	13.0	14.0		8.1	195	2800	0.04	98.56	
	15:00			15.0	8.0	195	2800	0.04	98.56	
	15:30			15.0	7.5	200	2800	0.04	97.81	
	16:00			15.0	6.2	215	2800	0.04	95.64	
	16:30			15.0	6.1	215	2800	0.04	95.64	
	17:00			15.0	6.0	220	2800	0.05	93.95	
	17:30			15.0	6.3	220	2800	0.05	93.95	
	18:00			15.0	5.9	225	2800	0.05	93.26	
	18:30			15.0	5.9	225	2800	0.05	93.26	

Well No.	Diameter (in)	Total Depth (ft)	Target Slinger Depth (ft)	Depth to		Product Thickness (ft)	Depth to		Product Thickness (ft)
				Product (ft)	Water (ft)		Product (ft)	Water (ft)	
RW-1	4.00			4.35	4.35	Sheen	0.00	7.31	0.00
RW-7	4.00			4.52	4.52	Sheen	7.49	7.50	0.01
MW-33	2.00			4.22	4.50	0.28	7.61	7.61	Sheen
After AFVR Event									
									Total Gallons Extracted
									1,000

AFVR Information
 Client: Alias
 Equipment Operator: CJ
 Blower Discharge I.D.: 3 inches
 Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs. relative humidity)
 Flow rate = (1 - water vapor)(velocity)(pipe diameter²)(3.14)(60/Temp + 460)

Notes:
 - Pipe ID - The inside diameter of the blower discharge piping. (from MMPE Unit)
 - Velocity - The rate at which air flows is measured at the blower discharge piping
 - Temperature - The temperature of the air stream exiting the blower discharge piping
 - Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 2/12/2024

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#/C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
2/12/2024 - 10:30	0.0								
11:00	0.5	107.16	395.1	4	1580.4	8407.728	0.000524894	3.374704227	1.687352113
11:30	1.0	106.29	416.4	4	1665.6	8860.992	0.000553192	3.527953342	1.763976671
12:00	1.5	106.29	431.7	4	1726.8	9186.576	0.000573518	3.657582752	1.828791376
12:30	2.0	103.54	389.2	4	1556.8	8282.176	0.000517056	3.212045897	1.606022948
13:00	2.5	101.92	342.7	4	1370.8	7292.656	0.000455281	2.784092053	1.392046026
13:30	3.0	100.09	458.9	4	1835.6	9765.392	0.000609653	3.66106384	1.83053192
14:00	3.5	99.32	423.8	4	1695.2	9018.464	0.000563023	3.355031134	1.677515567
14:30	4.0	98.56	402.6	4	1610.4	8567.328	0.000534858	3.162870637	1.581435319
15:00	4.5	98.56	594.6	4	2378.4	12653.088	0.000789932	4.671244116	2.335622058
15:30	5.0	97.81	561.5	4	2246	11948.72	0.000745959	4.37778858	2.18889429
16:00	5.5	95.64	533.4	4	2133.6	11350.752	0.000708627	4.066288586	2.033144293
16:30	6.0	95.64	552.7	4	2210.8	11761.456	0.000734268	4.213419013	2.106709506
17:00	6.5	93.95	519.3	4	2077.2	11050.704	0.000689895	3.88875642	1.94437821
17:30	7.0	93.95	498.2	4	1992.8	10601.696	0.000661864	3.730749948	1.865374974
18:00	7.5	93.26	465.1	4	1860.4	9897.328	0.00061789	3.457459481	1.72872974
18:30	8.0	93.26	404.0	4	1616	8597.12	0.000536718	3.003254419	1.50162721
Total Emissions in pounds									29.07215222
Equivalent Gallons (vapor)									4.719505231

STINGER DEPTHS
 Site Name: Circle K
 Site Location: 4315 Savannah Highway, Ravenel, SC
 SCDHEC UST Permit # 01589
 Date: 2/12/2024

		Well Designation:			
		RW-1	RW-7	MW-33	
Time	Elapsed Time				
2/12/2024 - 10:30	0.0	4.5	4.5		
11:00	0.5	4.5	4.5		
11:30	1.0	5.0	5.0		
12:00	1.5	5.5	5.5		
12:30	2.0	6.0	6.0		
13:00	2.5	6.0	6.0		
13:30	3.0	6.5	6.5		
14:00	3.5	6.5	6.5		
14:30	4.0	6.5	6.5		
15:00	4.5			4.5	
15:30	5.0			4.5	
16:00	5.5			5.0	
16:30	6.0			5.5	
17:00	6.5			6.0	
17:30	7.0			6.0	
18:00	7.5			6.5	
18:30	8.0			6.5	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
5. Generator's Name and Mailing Address VERCO 2047 Industrial Blvd Lexington, SC 29072			Generator's Site Address (if different than mailing address) Circle K 4315 Savannah Hwy Ravenel, SC		
Generator's Phone:			U.S. EPA ID Number		
6. Transporter 1 Company Name VERCO			U.S. EPA ID Number		
7. Transporter 2 Company Name			U.S. EPA ID Number		
8. Designated Facility Name and Site Address US Water Recovery 511 Clad Mount Hwy Rd Goose Creek, SC 29445			U.S. EPA ID Number		
Facility's Phone:			U.S. EPA ID Number		
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1. Non-Hazardous, Non-DOT PELW		1	TT	1000	g
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Offero's Printed/Typed Name Bill Atkins			Signature <i>Bill Atkins</i>		Month Day Year 2 12 24
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name Christopher Scott Jr.			Signature <i>Chris Scott</i>		Month Day Year 2 13 24
Transporter 2 Printed/Typed Name			Signature		Month Day Year
17. Discrepancy					
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____					
Facility's Phone: _____					
17c. Signature of Alternate Facility (or Generator)					Month Day Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name David...			Signature <i>David...</i>		Month Day Year 2 13 24

GENERATOR

TRANSPORTER INTL

DESIGNATED FACILITY

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 015895

DATE: 2/13/2024

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)			Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)		
		RW-11A	RW-11B	RW-12								
2/13/2024	10:00	11.0	10.0	7.0								
	10:30	11.0	10.0	7.0	10.8	150	669.0	2600	0.02	108.03		
	11:00	11.0	11.0	7.0	10.4	160	681.3	2600	0.02	106.29		
	11:30	11.0	11.0	7.0	10.0	170	652.7	2600	0.03	103.54		
	12:00	11.0	11.0	7.0	9.9	175	620.2	2600	0.03	102.72		
	12:30	12.0	11.0	7.0	8.3	185	589.8	2600	0.03	101.13		
	13:00	12.0	11.0	7.0	8.6	195	547.4	2600	0.04	98.56		
	13:30	12.0	11.0	7.0	8.5	200	562.1	2600	0.05	96.79		
	14:00	12.0	11.0	7.0	7.6	210	571.9	2600	0.05	95.35		
	14:30	12.0	10.0	8.0	7.1	215	589.3	2600	0.05	94.64		
	15:00	11.0	10.0	8.0	6.9	220	536.5	2600	0.05	93.95		
	15:30	11.0	10.0	8.0	6.5	225	499.4	2600	0.05	93.26		
	16:00	11.0	10.0	8.0	6.7	225	465.2	2600	0.05	93.26		
	16:30	11.0	10.0	8.0	6.8	225	478.1	2600	0.05	93.26		
	17:00	11.0	10.0	8.0	7.1	220	459.7	2600	0.05	93.95		
	17:30	11.0	10.0	8.0	7.0	220	463.4	2600	0.05	93.95		
	18:00	11.0	10.0	8.0	7.3	220	442.0	2600	0.05	93.95		
MMPE Unit Exhaust												
Well No.	Diameter (in)	Total Depth (ft)			Depth to Product (ft)		Depth to Water (ft)		Product Thickness (ft)		After AFVR Event	
RW-11A	4.00				1.05		N/A		3.61		N/A	
RW-11B	4.00				0.60		N/A		3.05		N/A	
RW-2	4.00				0.00		0.03		0.00		3.26	
AFVR Information											Total Gallons Extracted	
Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)											1,600	
Client	Velocity - The rate at which air flows is measured at the blower discharge piping											
Equipment Operator	Temperature - The temperature of the air stream exiting the blower discharge piping											
Blower Discharge I.D.	Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping											
	Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)											
	Flow rate = (1 - water vapor) (velocity) (pipe diameter) (24) (3.14) (528) (Temp + 460)											

Well No.	Diameter (in)	Total Depth (ft)	Target Slinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	After AFVR Event
RW-11A	4.00			1.05	N/A	3.61	N/A
RW-11B	4.00			0.60	N/A	3.05	N/A
RW-2	4.00			0.00	0.03	0.00	3.26
Total Gallons Extracted							1,600

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 2/13/2024

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
2/13/2024 - 10:00	0.0								
10:30	0.5	108.03	669.0	4	2676	14236.32	0.000888773	5.761029304	2.880514652
11:00	1.0	106.29	681.3	4	2725.2	14498.064	0.000905114	5.772321355	2.886160677
11:30	1.5	103.54	652.7	4	2610.8	13889.456	0.000867119	5.386696703	2.693348352
12:00	2.0	102.72	620.2	4	2480.8	13197.856	0.000823942	5.078173055	2.539086527
12:30	2.5	101.13	589.8	4	2359.2	12550.944	0.000783555	4.754386824	2.377193412
13:00	3.0	98.56	547.4	4	2189.6	11648.672	0.000727227	4.300435636	2.150217818
13:30	3.5	96.79	562.1	4	2248.4	11961.488	0.000746756	4.336815844	2.168407922
14:00	4.0	95.35	571.9	4	2287.6	12170.032	0.000759775	4.346569468	2.173284734
14:30	4.5	94.64	589.3	4	2357.2	12540.304	0.000782891	4.445637011	2.222818506
15:00	5.0	93.95	536.5	4	2146	11416.72	0.000712746	4.017557903	2.008778952
15:30	5.5	93.26	499.4	4	1997.6	10627.232	0.000663458	3.712438755	1.856219377
16:00	6.0	93.26	465.2	4	1860.8	9899.456	0.000618023	3.458202861	1.72910143
16:30	6.5	93.26	478.1	4	1912.4	10173.968	0.000635161	3.554098856	1.777049428
17:00	7.0	93.95	459.7	4	1838.8	9782.416	0.000610716	3.442444302	1.721222151
17:30	7.5	93.95	463.4	4	1853.6	9861.152	0.000615632	3.470151598	1.735075799
18:00	8.0	93.95	442.0	4	1768	9405.76	0.000587202	3.309898589	1.654949295
							Total Emissions in pounds		34.57342903
							Equivalent Gallons (vapor)		5.612569648

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 2/13/2024

		Well Designation:			
		RW-11A	RW-11B	RW-12	
Time	Elapsed Time				
2/13/2024 - 10:00	0.0	1.0	1.0	1.0	
10:30	0.5	1.0	1.0	1.0	
11:00	1.0	1.5	1.5	1.5	
11:30	1.5	2.0	2.0	2.0	
12:00	2.0	2.5	2.5	2.5	
12:30	2.5	3.0	3.0	3.0	
13:00	3.0	3.5	3.5	3.5	
13:30	3.5	4.0	4.0	4.0	
14:00	4.0	4.5	4.5	4.5	
14:30	4.5	5.0	5.0	5.0	
15:00	5.0	5.5	5.5	5.5	
15:30	5.5	5.5	5.5	5.5	
16:00	6.0	5.5	5.5	5.5	
16:30	6.5	5.5	5.5	5.5	
17:00	7.0	5.5	5.5	5.5	
17:30	7.5	5.5	5.5	5.5	
18:00	8.0	5.5	5.5	5.5	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Waste Tracking Number.			
		5. Generator's Name and Mailing Address <i>VEECO 2047 Industrial Park Columbia, SC 29204</i>				Generator's Site Address (if different than mailing address) <i>4315 Savannah Hwy Mount Pleasant, SC</i>					
Generator's Phone:		6. Transporter 1 Company Name <i>VEECO</i>								U.S. EPA ID Number	
7. Transporter 2 Company Name										U.S. EPA ID Number	
8. Designated Facility Name and Site Address <i>W. H. Miller Company 501 Old Mount Holly Rd Columbia, SC 29204</i>										U.S. EPA ID Number	
Facility's Phone:											
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity		12. Unit Wt./Vol.					
		No.	Type								
1.		<i>Non-Hazardous, shw DOT</i>	<i>1</i>	<i>TT</i>	<i>1600</i>		<i>6</i>				
2.		<i>1</i>									
3.											
4.											
13. Special Handling Instructions and Additional Information											
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.											
Generator's/Officer's Printed/Typed Name <i>Bill Akins</i>					Signature <i>Bill Akins</i>			Month <i>12</i>		Day <i>14</i>	Year <i>2004</i>
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____											
16. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name <i>VEECO</i>					Signature <i>Bill Akins</i>			Month <i>12</i>		Day <i>14</i>	Year <i>2004</i>
Transporter 2 Printed/Typed Name					Signature			Month		Day	Year
17. Discrepancy											
17a. Discrepancy Indication Space		<input type="checkbox"/> Quantity		<input type="checkbox"/> Type		<input type="checkbox"/> Residue		<input type="checkbox"/> Partial Rejection		<input type="checkbox"/> Full Rejection	
Manifest Reference Number: _____											
17b. Alternate Facility (or Generator)					U.S. EPA ID Number						
Facility's Phone: _____											
17c. Signature of Alternate Facility (or Generator)								Month		Day	Year
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a											
Printed/Typed Name <i>Dan Ward</i>					Signature <i>Dan Ward</i>			Month <i>12</i>		Day <i>14</i>	Year <i>2004</i>

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 015895

DATE: 2/14/2024

Date	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		RW-11A	RW-11B	RW-12	Target Stinger Depth (ft)	Relative Humidity	Temp (°F)	Pretreatment Conc. (PPM)	Depth to Product (ft)			
2/14/2024	9:30	12.0	10.0	6.0		10.9	155	691.5	2600	0.02	107.16	
	10:00	12.0	10.0	7.0		10.6	160	709.8	2600	0.02	106.29	
	10:30	12.0	11.0	7.0		10.5	165	723.4	2600	0.03	104.36	
	11:00	12.0	11.0	7.0		10.0	175	689.3	2600	0.03	102.72	
	11:30	11.0	11.0	6.0		9.7	180	657.1	2600	0.03	101.92	
	12:00	11.0	11.0	6.0		9.1	190	638.9	2600	0.04	99.32	
	12:30	11.0	11.0	6.0		8.6	195	606.2	2600	0.04	98.56	
	13:00	11.0	11.0	6.0		7.9	205	629.4	2600	0.05	96.08	
	13:30	11.0	11.0	6.0		7.2	215	594.0	2600	0.05	94.84	
	14:00	12.0	11.0	6.0		7.1	220	583.2	2600	0.06	92.96	
	14:30	12.0	11.0	6.0		6.8	225	539.1	2600	0.06	92.28	
	15:00	12.0	10.0	6.0		6.9	225	552.8	2600	0.06	92.28	
	15:30	12.0	10.0	6.0		6.9	225	537.3	2600	0.06	92.28	
	16:00	12.0	10.0	6.0		6.7	225	519.9	2600	0.06	92.28	
	16:30	12.0	10.0	6.0		7.0	220	506.7	2600	0.06	92.96	
	17:00	12.0	10.0	6.0		7.0	220	524.5	2600	0.06	92.96	
	17:30	12.0	10.0	6.0								
Well Gauging Data:												
Well No.	Diameter (in)	Total Depth (ft)	Target Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	After AFVR Event	Depth to Product (ft)	Product Thickness (ft)
RW-11A	4.00			1.45	N/A		4.01	N/A			4.01	N/A
RW-11B	4.00			0.50	N/A		3.67	N/A			3.67	N/A
RW-2	4.00			0.00	0.50		0.00	2.99			0.00	2.99
AFVR Information											Total Gallons Extracted	1,600
Client	Alias	Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)										
Equipment Operator	CJ	Velocity - The rate at which air flows is measured at the blower discharge piping										
Blower Discharge I.D.	3 inches	Temperature - The temperature of the air stream exiting the blower discharge piping										
		Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping										
		Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)										
		Flow rate = (1 - water vapor) / velocity (pipe diameter / (3.14 * (diameter / 2)^2 * Temp + 460))										

EMISSION CALCULATION
 SITE NAME: Circle K
 SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
 SCDHEC SITE ID # 01589
 DATE: 2/14/2024

Date/Time	Elapsed	Flow Rate	Concentration	K	PPMg	Cg:m	Cg	PMRg	PMR
	Time (hr)	(DSCFM)	(ppm)	(#C - gas)	(ppm)	(mg/dsm ³)	(lbs/dscf)	(lb/hr)	(lb)
2/14/2024 - 9:30	0.0								
10:00	0.5	107.16	691.5	4	2766	14715.12	0.000918665	5.906373002	2.953186501
10:30	1.0	106.29	709.8	4	2839.2	15104.544	0.000942977	6.013787902	3.006893951
11:00	1.5	104.36	723.4	4	2893.6	15393.952	0.000961044	6.0179413	3.00897065
11:30	2.0	102.72	689.3	4	2757.2	14668.304	0.000915742	5.64396112	2.82198056
12:00	2.5	101.92	657.1	4	2628.4	13983.088	0.000872964	5.338275132	2.669137566
12:30	3.0	99.32	638.9	4	2555.6	13595.792	0.000848785	5.05787964	2.52893982
13:00	3.5	98.56	606.2	4	2424.8	12899.936	0.000805343	4.762375013	2.381187507
13:30	4.0	96.06	629.4	4	2517.6	13393.632	0.000836164	4.81954927	2.409774635
14:00	4.5	94.64	594.0	4	2376	12640.32	0.000789135	4.481093475	2.240546737
14:30	5.0	92.96	583.2	4	2332.8	12410.496	0.000774787	4.321297656	2.160648828
15:00	5.5	92.28	539.1	4	2156.4	11472.048	0.0007162	3.96537569	1.982687845
15:30	6.0	92.28	552.8	4	2211.2	11763.584	0.000734401	4.066146692	2.033073346
16:00	6.5	92.28	537.3	4	2149.2	11433.744	0.000713809	3.952135705	1.976067852
16:30	7.0	92.28	519.9	4	2079.6	11063.472	0.000690693	3.824149177	1.912074588
17:00	7.5	92.96	506.7	4	2026.8	10782.576	0.000673156	3.754460772	1.877230386
17:30	8.0	92.96	524.5	4	2098	11161.36	0.000696804	3.88635223	1.943176115
							Total Emissions in pounds		37.90557689
							Equivalent Gallons (vapor)		6.153502742

STINGER DEPTHS
Site Name: Circle K
Site Location: 4315 Savannah Highway, Ravenel, SC
SCDHEC UST Permit # 01589
Date: 2/14/2024

		Well Designation:				
		RW-11A	RW-11B	RW-12		
Time	Elapsed Time					
2/14/2024 - 9:30	0.0	1.0	1.0	1.0		
10:00	0.5	1.0	1.0	1.0		
10:30	1.0	2.0	2.0	2.0		
11:00	1.5	3.0	3.0	3.0		
11:30	2.0	3.5	3.5	3.5		
12:00	2.5	4.0	4.0	4.0		
12:30	3.0	4.5	4.5	4.5		
13:00	3.5	5.0	5.0	5.0		
13:30	4.0	5.5	5.5	5.5		
14:00	4.5	5.5	5.5	5.5		
14:30	5.0	5.5	5.5	5.5		
15:00	5.5	5.5	5.5	5.5		
15:30	6.0	5.5	5.5	5.5		
16:00	6.5	5.5	5.5	5.5		
16:30	7.0	5.5	5.5	5.5		
17:00	7.5	5.5	5.5	5.5		
17:30	8.0	5.5	5.5	5.5		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone		4. Waste Tracking Number	
		5. Generator's Name and Mailing Address <i>VERCO 2047 Industrial Blvd Lexington, SC 29024</i>		Generator's Site Address (if different than mailing address) <i>Crack K 4705 Industrial Hwy Riverside, SC</i>			
Generator's Phone:		6. Transporter 1 Company Name <i>VERCO</i>		U.S. EPA ID Number			
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address <i>US Water Recovery 511 Old Mount Holly Road Grove Creek, SC 29445</i>		U.S. EPA ID Number					
Facility's Phone:							
9. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit Wt/Vol.		
		No.	Type				
1. <i>Non-Hazardous, Non-DOT PCW</i>		1	TT	1000	G		
2.							
3.							
4.							
13. Special Handling Instructions and Additional Information							
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.							
Generator's/Officer's Printed/Typed Name <i>Bill Ayscough</i>				Signature <i>[Signature]</i>		Month Day Year <i>2 15 24</i>	
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
16. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name <i>Christopher Scott Jr</i>				Signature <i>[Signature]</i>		Month Day Year <i>2 15 24</i>	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
17. Discrepancy							
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
17b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
17c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a							
Printed/Typed Name <i>Don Kinsler</i>				Signature <i>[Signature]</i>		Month Day Year <i>2 15 24</i>	

AFVR MONITORING DATA

SITE NAME: Circle K

SITE LOCATION: 4315 Savannah Highway, Ravenel, SC

SCDHEC UST Permit # 015895

DATE: 2/15/2024

Date	Time (hh:mm)	Extraction Well										MMPE Unit Exhaust				Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
		Head Vacuum (in. Hg)		Temp (°F)		Relative Humidity	Pretreatment Conc. (PPM)	Temp (°F)		Offgas Velocity	Water Vapor	Flow Rate						
		RW-8	RW-5	MW-6	RW-9			RW-6	RW-6				RW-9	Temp	Temp			
2/15/2024	10:30	7.0	10.0	12.0	12.0	12.0	8.0	8.0	11.0	150	515.8	2600	0.02	108.03				
	11:00	7.0	10.0	12.0	12.0	12.0	8.0	8.0	10.7	160	536.9	2600	0.02	106.29				
	11:30	8.0	10.0	12.0	12.0	12.0	8.0	8.0	10.1	170	547.6	2600	0.03	103.54				
	12:00	8.0	10.0	12.0	12.0	12.0	8.0	8.0	10.0	175	563.2	2600	0.03	102.72				
	12:30	8.0	10.0	12.0	12.0	12.0	8.0	8.0	9.8	180	541.3	2600	0.04	100.87				
	13:00	8.0	10.0	12.0	12.0	12.0	8.0	8.0	9.7	185	529.1	2600	0.04	100.09				
	13:30	8.0	10.0	12.0	12.0	12.0	8.0	8.0	8.8	195	508.4	2600	0.04	98.56				
	14:00	8.0	10.0	12.0	12.0	12.0	8.0	8.0	8.4	200	697.6	2600	0.05	96.79				
	14:30	8.0	10.0	12.0	12.0	12.0	8.0	8.0	8.3	205	590.5	2600	0.05	96.06				
	15:00	8.0	10.0	12.0	12.0	12.0	8.0	8.0	7.7	215	569.7	2600	0.05	94.64				
	15:30	8.0	11.0	11.0	11.0	7.0	7.0	7.1	7.1	220	540.1	2600	0.06	92.96				
	16:00	8.0	11.0	11.0	11.0	7.0	7.0	6.9	6.9	225	516.5	2600	0.06	92.28				
	16:30	8.0	11.0	11.0	11.0	7.0	7.0	6.8	6.8	225	473.2	2600	0.06	92.28				
	17:00	8.0	11.0	11.0	11.0	7.0	7.0	6.7	6.7	225	491.0	2600	0.06	92.28				
	17:30	8.0	11.0	11.0	11.0	7.0	7.0	6.9	6.9	220	463.1	2600	0.06	92.96				
	18:00	8.0	11.0	11.0	11.0	7.0	7.0	7.0	7.0	220	428.4	2600	0.06	92.96				
	18:30	8.0	11.0	11.0	11.0	7.0	7.0											

Well Gauging Data:

Well No.	Diameter (in)	Total Depth (ft)	Target Slinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Water Thickness (ft)	Product Thickness (ft)	Water (ft)	Product Thickness (ft)
RW-8	4.00			1.70	1.70	Sheen			4.16	0.00
RW-5	4.00			0.00	2.13	0.00			5.01	0.00
MW-5	2.00			2.95	2.54	0.19			4.79	Sheen
RW-9	4.00			2.63	2.66	0.03			4.89	0.00
RW-6	4.00			2.01	2.05	0.04			4.75	0.00

Notes: Pipe ID - The inside diameter of the blower discharge piping (from MMPE Unit)

Velocity - The rate at which air flows is measured at the blower discharge piping

Temperature - The temperature of the air stream exiting the blower discharge piping

Relative humidity - The % relative humidity of the air stream exiting the blower discharge piping

Water Vapor (in. %) - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)

Flow rate = (1 - water vapor) / (velocity / (pi * diameter^2 / (3.14) * (5280 / Temp + 460))

Total Gallons Extracted: 1,400

EMISSION CALCULATION
SITE NAME: Circle K
SITE LOCATION: 4315 Savannah Highway, Ravenel, SC
SCDHEC SITE ID # 01589
DATE: 2/15/2024

Date/Time	Elapsed Time (hr)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm ³)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
2/15/2024 - 10:30	0.0								
11:00	0.5	108.03	515.8	4	2063.2	10976.224	0.000685246	4.441762205	2.220881102
11:30	1.0	106.29	536.9	4	2147.6	11425.232	0.000713277	4.548890849	2.274445425
12:00	1.5	103.54	547.6	4	2190.4	11652.928	0.000727492	4.519312264	2.259656132
12:30	2.0	102.72	563.2	4	2252.8	11984.896	0.000748217	4.611459311	2.305729655
13:00	2.5	100.87	541.3	4	2165.2	11518.864	0.000719123	4.352181635	2.176090817
13:30	3.0	100.09	529.1	4	2116.4	11259.248	0.000702915	4.221113266	2.110556633
14:00	3.5	98.56	508.4	4	2033.6	10818.752	0.000675415	3.994047273	1.997023636
14:30	4.0	96.79	697.6	4	2790.4	14844.928	0.000926769	5.382250014	2.691125007
15:00	4.5	96.06	590.5	4	2362	12565.84	0.000784485	4.521677541	2.26083877
15:30	5.0	94.64	569.7	4	2278.8	12123.216	0.000756852	4.297776014	2.148888007
16:00	5.5	92.96	540.1	4	2160.4	11493.328	0.000717528	4.001942497	2.000971248
16:30	6.0	92.28	516.5	4	2066	10991.12	0.000686176	3.799140315	1.899570158
17:00	6.5	92.28	473.2	4	1892.8	10069.696	0.000628651	3.480645106	1.740322553
17:30	7.0	92.28	491.0	4	1964	10448.48	0.000652299	3.611573852	1.805786926
18:00	7.5	92.96	463.1	4	1852.4	9854.768	0.000615233	3.431400797	1.715700398
18:30	8.0	92.96	428.4	4	1713.6	9116.352	0.000569134	3.17428655	1.587143275
Total Emissions in pounds									33.19472974
Equivalent Gallons (vapor)									5.388754829

STINGER DEPTHS
 Site Name: Circle K
 Site Location: 4315 Savannah Highway, Ravenel, SC
 SCDHEC UST Permit # 01589
 Date: 2/15/2024

		Well Designation:				
		RW-1	RW-7	MW-33		
Time	Elapsed Time					
2/15/2024 - 10:30	0.0	5.0	5.0	5.0	5.0	5.0
11:00	0.5	5.0	5.0	5.0	5.0	5.0
11:30	1.0	5.0	5.0	5.0	5.0	5.0
12:00	1.5	5.0	5.0	5.0	5.0	5.0
12:30	2.0	5.0	5.0	5.0	5.0	5.0
13:00	2.5	5.0	5.0	5.0	5.0	5.0
13:30	3.0	5.0	5.0	5.0	5.0	5.0
14:00	3.5	5.0	5.0	5.0	5.0	5.0
14:30	4.0	5.0	5.0	5.0	5.0	5.0
15:00	4.5	5.0	5.0	5.0	5.0	5.0
15:30	5.0	5.0	5.0	5.0	5.0	5.0
16:00	5.5	5.0	5.0	5.0	5.0	5.0
16:30	6.0	5.0	5.0	5.0	5.0	5.0
17:00	6.5	5.0	5.0	5.0	5.0	5.0
17:30	7.0	5.0	5.0	5.0	5.0	5.0
18:00	7.5	5.0	5.0	5.0	5.0	5.0
18:30	8.0	5.0	5.0	5.0	5.0	5.0

US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums		Number:		
1. Generator's EPA ID# (if applicable):		Waste ID Number:		
2. Generator's Name and Mailing Address: VERCO 2047 Industrial Blvd Lexington, SC 29072		Phone (803) 429-5001 P O #:		
3. Agent of Generator and Mailing Address: Circle K 4315 Savannah Hwy Ravenel, SC		Phone () P O #:		
4. Transporter Company Name: VERCO		Phone (803) 429-5001		
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		
		Phone: (843) 797-3111 Fax: (843) 797-1884		
7. Facility U.S. EPA ID#:				
Start Level:	End Level:	Total Gallons:	Tank Number	
8. U.S. DOT Description	Container		Unit	Quantity
	No.	Type		
a. Non-Hazardous, non-regulated waste water	1	TT	G	1400
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.				
Printed/Typed Name: Christopher Scott Jr		Signature: [Signature]		Date: 2/15/24
10. Transporter Acknowledgement of Receipt of Materials				
Printed/Typed Name: Christopher Scott Jr		Signature: [Signature]		Date: 2/16/24
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials				
Printed/Typed Name: [Name]		Signature: [Signature]		Date: 2/19/24

White - Facility Yellow - Office Pink - Transporter Blue - Generator

32509