May 10, 2021

Robert Dunn
State of South Carolina
Department of Health and Environmental Control
Bureau of Land & Waste Management
Underground Storage Tank Management Division
2600 Bull Street
Columbia, South Carolina 29201

ATC - An Atlas Company

6904 North Main Street
Suite 107
Columbia, SC 29203

Phone +1 803 735 0003

www.oneatlas.com

RE: Injection Report (Phase I)
Circle K Store # 2720886
(Release # 4 reported 8/2/2018)
4315 Savannah Highway
Ravenel, Charleston County, South Carolina
Site ID # 01589, CA # 61117
ATC Project No. 257CK88612

Dear Mr. Dunn:

In accordance with the Corrective Action contract (cost agreement no. 61117) and the Corrective Action Plan dated June 5, 2020, ATC herein submits reports prepared by our primary subcontractor (AST Environmental) for the Remediation Design Characterization and for first phase of injections performed at the site.

Since issuance of the Notice To Proceed and receipt of the Underground Injection Control Permit, ATC and its subcontractors have performed the following activities:

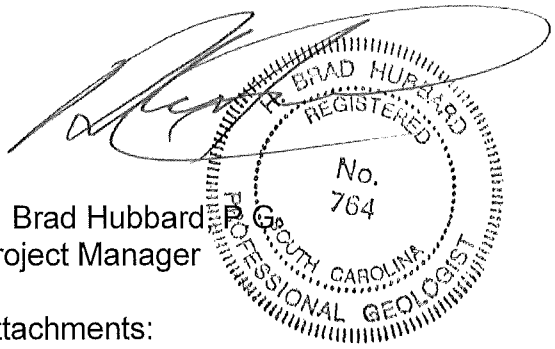
- In October 2020, a Remediation Design Characterization (RDC) was performed to gather additional soil and water chemical data to better refine the conceptual site model and to be able to maximize the injection design for the injectate, BOS 200®, to address the target areas. The RDC involved the installation of 47 continuous soil borings ranging from 12 to 16 feet below ground surface, and conversion of about half of these borings (23) into nested groundwater wells for water sampling and evaluation. In addition, existing monitoring wells were sampled for key parameters. Based on the findings, an injection program was developed, consisting of an initial Phase I and a subsequent Phase II.
- Phase I was designed to include injections installed in a triangular grid pattern within several areas of concern. These areas, labelled A through G, broke the overall on-site and off-site plume extent into manageable zones. Areas A, B, and D were located within the property of the Circle K station, Areas C and E consisted of the US 17 median, and Areas F and G consisted of a portion of the north shoulder of US 17. Phase I focused on entrapment of known accumulations of LNAPL in the shallow subsurface as well as known accumulation of dissolved petroleum constituents above 15 mg/Kg benzene and/or 4,000 mg/Kg total volatile petroleum hydrocarbons.

- Prior to performance of Phase I injections, boring locations were marked out, and an intensive program of subsurface utility location was undertaken due to the prolific coaxial cables, fiber-optic lines and water lines in the work area. This included working with call811 contractors, a private contractor with ground-penetrating radar, and performing soft penetrations to expose and mark utilities.
- Phase I injections commenced on February 18, 2020, and were completed on April 8, 2020. A total of 560 injection points were installed in areas A through G, resulting in a total mass of 35,500 pounds of BOS 200®, 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.
- Following completion of Phase I injections, supplemental aggressive fluid/vapor recovery (AFVR) treatments were performed between April 27 and 29, 2020 to remove residual LNAPL found in several recovery and monitoring wells. The extraction volume totaled 2,300 gallons of product and contact water.

Following analysis of groundwater data from the first Corrective Action System Evaluation (CASE) sampling event, the design for Phase II will be developed and scheduled, likely in June and July, 2020.

Sincerely,

ATC – An Atlas Company



H. Brad Hubbard, P.G.
Project Manager

Fred Lyke, P.G.
Branch Manager

Attachments:

1. AST Summary of RDC Results and Revised BOS 200® Injection Design and Approach (1/15/2021)
2. RDC Boring Logs and Well Record Forms
3. AST Phase I BOS 200® Injection Report (4/26/2021)
4. Well Record Forms Phase I Injections

cc: Mr. Alan Cubberley, Circle K Stores, Inc.
SCDHEC Stakeholder Distribution List

Summary of RDC Results and Revised BOS 200® Injection Design and Approach (1/15/2021)

January 15, 2021

Mr. Brad Hubbard
ATC Group, LLC
7499 Parkland Rd, Suite 122
Columbia, South Carolina 29223

RE: Summary of RDC Results and Revised BOS 200® Injection Design and Approach
Circle K 2720886
4315 Savannah Highway
Ravenel, South Carolina
UST Permit ID #01589; CA #59718

Dear Mr. Hubbard,

AST Environmental, Inc. (AST) appreciates the opportunity to provide this proposal to install BOS 200® for the above referenced site. This letter proposal presents our revised remedial approach and price to inject BOS 200® to address petroleum hydrocarbon contamination in the saturated soil and groundwater at this site. AST has prepared the injection design based on the Remedial Design Characterization (RDC) performed in October 2020, and the historical groundwater/Light non-aqueous phase Liquid (LNAPL) elevation tables, boring logs, and site drawings provided by ATC.

AST understands that site cleanup goals are: 1) the removal of LNAPL from all monitoring and recovery wells at the site, 2) removal of any remaining product from surface water features and stormwater systems and 3) remediation of dissolved contaminant to below the South Carolina Department of Health & Environmental Control (SCDHEC) Site-Specific Target Levels (SSTLs) in certain monitoring and recovery wells as specified in the Corrective Action Plan dated June 5, 2020.

Regarding the second site cleanup goal, AST assumes that ATC will use a local contractor to address surface and stormwater system impacts. Given the magnitude of saturated petroleum impacts, the approach developed herein has been focused on LNAPL treatment in the short term with longer term treatment of petroleum contaminants exceeding the SSTLs.

SATURATED ZONE IMPACTS

The data used to determine the saturated zone impacts were from the soil and groundwater samples collected during the October 2020 RDC effort, historical soil borings and well construction records, and groundwater analytical data. Given presence of LNAPL (aka Free Product (FP)),concentrations of total volatile petroleum hydrocarbons (TVPH) exceeding 4,000 mg/Kg (at least an order of magnitude above ITRC and ASTM Saturation Concentrations (C_{sat})) and benzene exceeding 15 mg/Kg in the saturated soil, AST is proposing a phased remedial approach to address the saturated contaminant impacts at the site:

1) Phase 1 – BOS 200® Installation in areas with saturated soil TVPH concentrations exceeding 4,000 mg/kg and/or soil benzene concentrations exceeding 15 mg/Kg.

2) Phase 2 – BOS 200® Installation in areas with saturated soil TPH concentrations exceeding 500 mg/Kg.

3) Phase 3- Performance Monitoring of the existing monitoring and recovery wells – Analyses performed VOCs via 8260B, Dissolved Gases via RSK 175, Carbon Dioxide and Anions via Method 300.1. The later of the three analyses are performed to verify biological process are developed and robust.

The scope of work associated with each phase of the remediation and its estimated cost of Phase 1 and 2 are detailed below.

REMEDIAL DESIGN CHARACTERIZATION (RDC) EFFORT

To support this detailed injection approach/design for the remedial effort, ATC/AST performed a RDC incorporating both soil and groundwater sampling in October 2020. The goal of this RDC was to supplement the historical saturated soil data and gather information to better define the vertical and horizontal distribution of contaminant mass in the subsurface. The RDC data was used to:

- Determine the mass of contamination residing in the saturated soil and groundwater as a function of horizontal and vertical location within the proposed treatment areas.
- Refine the conceptual site model.

The scope of the RDC effort was as follows:

- Soil Investigation Activities: 47 continuous soil borings (RDC-01 through RDC-47) were installed to ~12 to 16 feet below ground surface (bgs). The soil samples were analyzed every two feet, starting at ~2-4 feet bgs, and from discrete intervals such as clay layers. The borings logs are provided in Appendix A and the locations of the borings are provided on the attached Figure 1.

- Groundwater Investigation Activities: Small diameter, nested groundwater wells ($^3/_4$" & 1") were installed and sampled at roughly half of the soil boring locations to further characterize saturated zone impacts. The temporary nested wells were screened from 3-7 feet bgs and 8-12 feet bgs except for RDC-39 and 41 which were screened from 7-11 feet bgs and 12-16 feet bgs. Additionally, the existing monitoring and recovery wells were sampled. The well locations are provided on the attached Figure 1.

- The soil and groundwater samples were analyzed at the RPI Project Support Laboratory in Golden, Colorado for volatile petroleum hydrocarbons using Method 8260B. Additionally, groundwater samples were analyzed for anions using EPA Method 300.1 and dissolved gases via Method RSK 175. Tables 1 and 2, provides the analytical results for soil and groundwater, respectively.

REMEDIAL DESIGN CHARACTERIZATION (RDC) RESULTS/FINDINGS

Soil Results

As stated above, the RDC soil investigation consisted of the installation of 47 soil borings to a depth of between 12' to 16' bgs across the site. Soil samples were collected for analyses at the RPI Project Support Laboratory (RPI Lab) in Golden, Colorado. The samples were analyzed for

speciated VOCs using EPA Method 8260B. The analysis is for remedial design purposes not regulatory compliance.

Table 1 provides the soil analytical results from the soil borings. As seen in Table 1, ~186 soil samples were collected and analyzed between 2' and 16' bgs.

From Table 1 and Figures 2 and 3, it is seen that 6 of the soil borings have concentrations of TVPH exceeding 4,000 mg/Kg. TVPH results consists of an approximate sum of the C4 to C13 purgeable organic compounds detected during the 8260B analysis. The purgeable organics include both saturated and unsaturated aliphatics and aromatic compounds that contribute to the overall petroleum impacts at the site.

As seen on Figures 2 and 3, four (4) of the borings with elevated TVPH are in and around the source area (RDC-1, RDC-8, RDC-13 & RDC-18), and two of the borings, RDC-24, and RDC-32, are in the median of US-17 and on the northern shoulder of the southbound side of US-17, respectively. Based on the vertical distribution of the contaminant mass, it is believed that the NAPL found in the median and shoulder are more attributable to the precipitation event that caused NAPL to flow above ground, across the highway than to subsurface migration. In RDC-24 and RDC-32, the highest soil concentrations are seen in the 4-6' bgs samples. At this depth interval, the TVPH concentration is one to two orders of magnitude greater than any other vertical interval for both borings.

The TVPH concentration in RDC-32 exceed 10,000 mg/Kg at 4' to 6' bgs interval. While the onsite RDC borings 1, 8, 13 and 18, had their highest TVPH concentrations (>4000 mg/Kg) at the 6' to 8' bgs vertical interval. As seen on Figures 2 & 3, all but 11 of the RDC borings had concentrations of TVPH greater than 500 mg/Kg (Petroleum C_{SAT} from ITRC & ASTM), which is an indication of widespread LNAPL both off- and onsite. It is estimated that greater than 75,000 lbs of hydrocarbon mass is within the saturated formation.

Figures 4 and 5 provide the predicted saturated soil plume based the Benzene concentrations for the October 2020 RDC effort. From these figures as well as Table 1, it is seen that the highest Benzene concentrations within the site soil were in borings: RDC-8, RDC-10, RDC-11, RDC-13, RDC-18, RDC-22, RDC-24, RDC-32, and RDC-35 all exceeding 20 mg/Kg. As with the TVPH results, the offsite borings (22, 24, 32, 35) had higher concentrations between 4'and 6', with higher levels of Benzene noted slightly deeper in the onsite borings (8, 10, 11, 13 & 18).

As seen on Figures 4 and 5, there are number of other borings with Benzene concentrations exceeding 15 mg/Kg as well as an even a greater number of borings exceeding 5 mg/Kg.

Most of the contaminant mass is found in the 4' to 6' and 6' to 8' vertical intervals and this will be primary focus of the proposed BOS 200® injection program. As seen in Table 1, there are several areas where contaminant mass is deeper including at RDC-18, RDC-3, RDC-45, and RDC-5, In these areas either TVPH mass exceeds $C_{SAT,}$ or Benzene is at levels that contributes to concentrations above SSTLs. In these areas the injection intervals proposed will be deeper.

Groundwater Results

The RDC effort included the installation of nested temporary monitoring wells in 21 of the soil boring locations. The screen intervals and total depths of eth temp. wells are provided on the borings logs and in the below summary table. Water levels were gauged using an interface probe and LNAPL recorded if present. As noted on the below summary table, RDC-47S and 47D were dry and RDC-35D, 39S, 39D, 42S, 42D, 44S, 44D, 45S and 45D, located on the northern side of

the south bound lanes of Savannah Highway, were not gauged. The LNAPL on the northern side of Savannah Highway was thick and viscous and was present in RDC-35S. It took some effort to decontaminate the interface probe as a result of the gauging of RDC-35S, so it was determined to note the presence of the LNAPL visually on the pump tubing used to sample each well. There was no LNAPL noted on the tubing in any of the sample aliquots collected from the other northern wells.

The matrix below provides the list of RDC soil borings that were converted into temporary nested wells with the respective screened intervals and if they demonstrated the presence of LNAPL:

Soil Boring ID	Temporary Piezometer Screened Interval (ft)	LNAPL Present (Yes or No)
RDC-2S & D	2.5 to 6.5 & 6.9 to 10.9	N & N
RDC-5S & D	3.5 to 7.5 & 7.7 to 11.7	N & N
RDC-7S & D	3.0 to 7.0 & 7.9 to 11.9	N & Y
RDC-8S & D	3.8 to 7.8 & 7.9 to 11.9	N & N
RDC-9S & D	2.9 to 6.9 & 7.8 to 11.8	N & N
RDC-12S & D	3.0 to 7.0 & 8.0 to 12.0	Y & N
RDC-13S & D	2.8 to 6.8 & 8.0 to 12.0	N & N
RDC-18S & D	2.9 to 6.9 & 7.9 to 11.9	N & N
RDC-20S & D	3.0 to 7.0 & 5.4 to 9.4	N & N
RDC-23S & D	2.9 to 6.9 & 7.9 to 11.9	N & N
RDC-25S & D	3.0 to 7.0 & 7.5 to 11.5	Y & Y
RDC-27S & D	2.3 to 6.3 & 7.8 to 11.8	N & N
RDC-29S & D	2.6 to 6.6 & 5.8 to 9.8	N & N
RDC-30S & D	2.7 to 6.7 & 5.9 to 9.9	N & N
RDC-32S & D	3.1 to 7.1 & 7.7 to 11.7	Y & Y
RDC-35S & D	3.0 to 7.0 & 8.0 to 12.0	Y & NG
RDC-39S & D	7.0 to 11.0 & 12.0 to 16.0	NG & NG
RDC-42S & D	7.0 to 11.0 & 12.0 to 16.0	NG & NG
RDC-44S & D	3.0 to 7.0 & 8.0 to 12.0	NG & NG
RDC-45S & D	3.0 to 7.0 & 8.0 to 12.0	NG & NG
RDC-47S & D	3.0 to 7.0 & 8.0 to 12.0	Dry & Dry

NG = Not Gauged

Additionally, ATC/AST gauged and sampled the following monitoring wells MWs – 2, 3, 6, 7, 12, 13, 15, 32, and 33, and the following recovery wells RWs-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12. As seen on Figure 6, LNAPL was present in MW-2, MW-6, MW-33, RW-2, RW-3, RW-5, RW-6, RW-7, RW-8, RW-9, RW-11 and RW-12. This figure also notes the RDC temporary wells that had LNAPL present. Of note is the return of LNAPL in MW-33. From the CAP, baseline sampling in July/August 2019 indicated LNAPL, but March 2020 sampling provided no LNAPL.

Table 2 provides the results from the groundwater sampling of the nested temporary wells as well as the existing monitoring/recovery well network. Also, Figure 7 provides the MWs and RWs that exceed the site SSTLs. The Additional Assessment Report Dated April 13, 2020 is referenced for the well construction details of these monitoring and recovery wells. From this report and the gauging effort from October 2020, the depth of these wells varied from 12’ to 15’ bgs (MW-29, being 15’). The screen intervals varied from 2-12’, 3’-13’ and 5’-15’ bgs.

From Table 2, the highest TVPH concentrations was recorded in RW-11 (1470 mg/L) located on

the north side of the Savannah Highway. All other MWs and RWs, had TVPH concentrations one order magnitude lower. Benzene concentrations in the MWs were highest at MW-6 and MW-33, 17.1 mg/L and 8.7 mg/L, respectively. MW-6 is in the medium between just north of the eastern bound lane of Savannah Highway, while MW-33 is to the south of the pump island canopy onsite. Onsite RWs 1, 2, and 3 had Benzene concentrations varying from 13.6 to 23.9 mg/L, while offsite RWs 5, 6, 7, 9, 10 & 11 Benzene concentrations varied from 14.5 mg/L at RW-9 to as high as 23.5 mg/L at RW-11. As seen on Figure 7, RWs 5, 6, 7, 9, 10, & 11 area located in the center medium of Savannah Highway and RW-11 and RW-12 are located north of Savannah Highway.

The RDC groundwater and soil analytical results, was used to update the conceptual site model (CSM) developed by ATC and support the BOS 200® injection design detailed herein.

REMEDIAL DESIGN APPROACH

AST has prepared this approach based on soil and groundwater data collected during the October 2020 RDC effort and historical data from the CAP, the Tier II Report, and the Additional Assessment Reports. The remedial approach focuses on applying BOS 200® in vertical intervals and areas of the site to address residual LNAPL and significant saturated soil mass and allow enhanced natural attenuation supported by long term biological treatment to achieve the SSTLs. Based on this approach, the driver behind a successful approach will be to address the contaminant mass contained in the saturated soil. AST has considered both Benzene, the most recalcitrant contaminant, and the total petroleum hydrocarbons (TPH), but for this site more accurately total volatile petroleum hydrocarbons (TVPH). Given the presence LNAPL and the high concentrations TVPH, as discussed above, the design basis is slanted toward soil TVPH concentrations as it most accurately depicts overall contaminant mass.

BOS 200® provides a unique opportunity to utilize two proven technologies to effectively remediate petroleum hydrocarbon sites. The two technologies are 1) the trapping of the contaminants via carbon adsorption and 2) the subsequent treatment via biological degradation within the BOS 200® matrix as the product incorporates both aerobic and anaerobic microbial processes.

These two proven and very powerful remediation mechanisms make what is called the “Trap and Treat” process. The “Trap” provides the mass reduction and plume control, while the “Treat” provides the continued long-term remedial degradation.

The product comes as a fine-grained dry material which consists of carbon, calcium sulfate, nitrate, phosphate, and ammonia in a proprietary blend. BOS 200® is 77% by weight carbon and up to 19% gypsum. Gypsum is 79% by weight sulfate which translates to approximately 15% by weight sulfate in BOS 200®. The BOS 200® is mixed with water and a facultative blend of microbes (inoculation with aerobic and anaerobic microbes) to create a solids suspension. This is now an ideal environment for biological degradation, where hydrocarbons are adsorbed on to BOS 200® particles made up of:

- Electron Acceptors: oxygen, nitrate, ammonia, and sulfate (primary)
- Nutrients - phosphorus and nitrogen
- Aerobic and anaerobic blend of microbes (over 27 species)

One of the beauties of the product is that the design approach can vary from a treatment objective where a complete immediate contaminant mass removal from the groundwater is achieved, to a partial contaminant mass reduction working in conjunction with biological degradation driving the

groundwater cleanup effort, or any combination somewhere in between. The end effect is that the plume can be controlled in a short period of time and treatment can be extended over a longer period. The second design approach will be used for the Ravenel site due the large quantity of LNAPL in formation. A certain quantity of BOS 200® will be injected into the formation to build a large biological platform resulting in a partial contaminant mass reduction while allowing the biological treatment to drive the cleanup time.

The success in achieving cleanup goals is not just in the product installed, but the distribution of the product in subsurface. Distribution is controlled by the injection techniques used: i.e., vertical, and horizontal spacing are a function of soil type, high pressure injection vs. low pressure injection, and top down vs. bottom up. For this site, given the soil type and contaminant mass, AST proposes to optimize the injectate distribution by 1) using top-down techniques, 2) using relatively high-flow rates to create high exit velocities(exit velocities to promote localized fluidization of sandy soil), and 3) adjusting the horizontal and vertical injection spacing.

Given the soil types at this site, it is expected that the injection pressures will vary from 300 to 600 psig (measured at the discharge of the injection pump - the injection system pressure losses are approximately 250 to 300 psig – for hoses, valves, and injection tips). Coarse-grained sediments (sands and fine gravels) as seen at the Ravenel site typically display a steady progression of pressure as the lithology in the vicinity of the injection tip is fluidized and turbulent flow is created. The discussion of the vertical and horizontal injection spacing is provided below for the injection area.

The BOS 200® injection design has been prepared using the following approach/basis:

1. RDC and historical data from soil and groundwater sampling (i.e., analytical results, LNAPL and groundwater measurements, the screened interval of the wells, the soil sampling depth intervals) were used to determine the vertical and horizontal extent of impacts in each area.

2. Using the available data, a contaminant mass loading on a unit basis (lb. TVPH per ft^3 of impacted media) was determined for this cost estimate and design.

3. The contaminant mass loadings were then used to determine the BOS 200® loadings (lbs. installed per ft^3 of impacted media) necessary to remediate a specific depth interval within the injection area. This is a balance between the need to have an immediate mass reduction or allow biological degradation to be the controlling process. This is specifically discussed for each area below.

4. Due to the current remedial goals, the LNAPL present in the wells, significant saturate soil mass and groundwater concentrations it is expected to require approximately 2 to 3 years to achieve the remedial goals using a Kinetic design approach. This approach uses the traditional BOS 200® design process, with the addition supplemental nutrients and substrates (starch and yeast extract) to create conditions conducive to accelerate microbial activity. This creates a robust biological system that exceeds the performance of standard BOS 200®. Any additional events are expected to be for supplementary terminal electron acceptors (i.e., nitrates or sulfates) to sustain the biological activity. With this kinetic design approach, biological treatment drives the cleanup time.

The attached Figures 8 and 9 depict the Phase 1 and Phase 2 injection events. Also, these events are detailed in the attached Table 3 and Table 4. The goal of each phase is as follows:

- Phase 1 – Figure 8
  - Install BOS 200® in areas with soil TVPH concentrations exceeding 4,000 mg/Kg.
  - Install BOS 200® in areas with soil Benzene concentrations exceeding 15 mg/Kg.
  - Ensure adequate subsurface distribution of BOS 200®.
  - Determine optimal injection volume and grid spacing.
  - Perform Excavation and LNAPL recovery in RDC-32 area as indicated on Figure 8. This would be performed by ATC's local subcontractor. AST will provide a spray application in the bottom of the excavation limits at or near the surface of groundwater.

- Phase 2 – Figure 9
  - Reinject in Phase 1 areas to increase BOS 200® platform (lbs BOS 200® /ft^3 soil media).
  - Install BOS 200® in areas with soil TVPH concentrations exceeding 500 mg/Kg.

Due to the size and complexity of the injection design, AST proposes performing Phase 1 in two stages, the initial stage will be the injection in approximately 15 points in the eastern portion of Area B, to verify injection point spacing, and ensure injection shot volumes are adequate to achieve the product distribution desired. At the end of this initial stage, the balance of Phase 1 activities will begin with adjustments to the injection point spacing and fluid volumes as needed. This will be a seamless transition with no field delays.

Please note that AST has not included provisions for hand clearing all the injection points. AST does not recommend hand clearing injection points when injections are to be performed shallower than 10' to 15' bgs. It is recommended that known utilities are "potholed" with soft digging techniques at either end of an injection area prior to injection points being laid out so that the depth and location of the utilities can be reasonably inferred. AST assumes that this will be provided by an ATC clearing subcontractor.

PHASE 1 BOS 200® INJECTION APPROACH – See Figure 8

Injection Area A (Defined by RW-1 & RDC-18)

- Total Treatment Area: 1,900 ft^2
- Number of Injection Points & Horizontal Spacing: 76 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing:342 injections, 4'-12' vertical treatment zone (alternate 4', 6', 8', 10', 12' bgs and 5', 7', 9', 11' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 8550 lbs. of BOS 200®
- Bacteria Concentrate: 17 gallons
- Supplemental Sulfate: 25 lbs per interval = 8,550 lbs
- Magnesium Sulfate = 4,100
- Food Grade Starch: 7.5 lbs per interval = 2,655 lbs
- Yeast Extract: 0.4 lbs per interval = 136 lbs

Injection Area B (Defined by RDC-1,5, 8, 13, 16)

- Total Treatment Area: 4,250 ft^2
- Number of Injection Points & Horizontal Spacing: 170 points on 5' triangular grid pattern

- Total Number of Injections and Vertical Spacing: 425 injections, 4'-8' vertical treatment zone (alternate 4', 6', 8' bgs and 5' & 7'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 10,625 lbs. of BOS 200®
- Bacteria Concentrate: 21 gallons
- Supplemental Sulfate: 25 lbs per interval = 10,625 lbs
- Magnesium Sulfate: 12 lbs per interval = 5,100 lbs
- Food Grade Starch: 7.5 lbs per interval = 3,190 lbs
- Yeast Extract: 0.4 lbs per interval = 170 lbs

Injection Area C (Defined by RDC-22,23, 24)

- Total Treatment Area: 3200 ft^2
- Number of Injection Points & Horizontal Spacing: 128 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 192 injections, 4'-6' vertical treatment zone (alternate 4', 6'' bgs and 5'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 4,800 lbs. of BOS 200®
- Bacteria Concentrate: 10 gallons
- Supplemental Sulfate: 25 lbs per interval = 4,800 lbs
- Magnesium Sulfate: 12 lbs per interval = 2,300 lbs
- Food Grade Starch: 7.5 lbs per interval = 1440 lbs
- Yeast Extract: 0.4 lbs per interval = 76 lbs

Injection Area D (Defined by RDC-10 & 11)

- Total Treatment Area: 3,150 ft^2
- Number of Injection Points & Horizontal Spacing: 126 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 315 injections, 4'-8' vertical treatment zone (alternate 4', 6', 8' bgs and 5', 7' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 7,875 lbs. of BOS 200®
- Bacteria Concentrate: 16 gallons
- Supplemental Sulfate: 25 lbs per interval = 7,875 lbs
- Magnesium Sulfate: 12 lbs per interval = 3,780 lbs
- Food Grade Starch: 7.5 lbs per interval = 2,360 lbs
- Yeast Extract: 0.4 lbs per interval = 125 lbs

Injection Area E (Defined by MW-7)

- Total Treatment Area: 400 ft^2
- Number of Injection Points & Horizontal Spacing: 16 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 72 injections, 4'-12' vertical treatment zone (alternate 4', 6', 8', 10', 12' bgs and 5', 7', 9', 11' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 1,800 lbs. of BOS 200®
- Bacteria Concentrate: 4 gallons
- Supplemental Sulfate: 25 lbs per interval = 1,800 lbs
- Food Grade Starch: 7.5 lbs per interval = 540 lbs
- Yeast Extract: 0.4 lbs per interval = 29 lbs

Injection Area F (Defined by RDC-34, 35)

- Total Treatment Area: 950 ft^2
- Number of Injection Points & Horizontal Spacing: 38 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 57 injections, 4'-6' vertical treatment zone (alternate 4', 6'' bgs and 5'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 1,425 lbs. of BOS 200®
- Bacteria Concentrate: 3 gallons
- Supplemental Sulfate: 25 lbs per interval = 1,425 lbs
- Magnesium Sulfate: 12 lbs per interval = 684 lbs
- Food Grade Starch: 7.5 lbs per interval = 428 lbs
- Yeast Extract: 0.4 lbs per interval = 23 lbs

Injection Area G (Defined by RW-12)

- Total Treatment Area: 150 ft^2
- Number of Injection Points & Horizontal Spacing: 6 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 21 injections, 4'-10' vertical treatment zone (alternate 4', 6', 8', 10' bgs and 5', 7', 9' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~20 lbs. per injection interval (15 gallon shot volume) = 420 lbs. of BOS 200®
- Bacteria Concentrate: 1 gallons
- Supplemental Sulfate: 20 lbs per interval = 420 lbs
- Food Grade Starch: 7.5 lbs per interval = 159 lbs
- Yeast Extract: 0.4 lbs per interval = 8 lbs

Total Phase 1 – BOS 200® - 35,500 lbs with 35,500 lbs of Supplemental Gypsum, 17,100 lbs of Magnesium Sulfate, 10,700 lbs Starch and 605 lbs of Yeast Extract in 560 injection points

PHASE 2 BOS 200® INJECTION APPROACH – See Figure 9

Injection Area A (Defined by RW-1 & RDC-18)

- Total Treatment Area: 1,900 ft^2
- Number of Injection Points & Horizontal Spacing: 76 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing:266 injections, 4'-10' vertical treatment zone (alternate 4', 6', 8', 10' bgs and 5', 7', 9' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 6,650 lbs. of BOS 200®
- Bacteria Concentrate: 13 gallons
- Supplemental Sulfate: 25 lbs per interval = 6,550 lbs
- Magnesium Sulfate = 12 lbs per interval = 3,190 lbs
- Food Grade Starch: 5 lbs per interval = 1,330 lbs
- Yeast Extract: 0.4 lbs per interval = 70 lbs

Injection Area B (Defined by RDC-1,5, 6, 7, 8, 13, 16) – increase from phase 1 for RDC 6 & 7)

- Total Treatment Area: 6,400 ft^2
- Number of Injection Points & Horizontal Spacing: 256 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 640 injections, 4'-8' vertical treatment zone (alternate 4', 6', 8' bgs and 5' & 7'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 16,000 lbs. of BOS 200®
- Bacteria Concentrate: 32 gallons
- Supplemental Sulfate: 25 lbs per interval = 16,000 lbs
- Magnesium Sulfate: 12 lbs per interval = 7,680 lbs
- Food Grade Starch: 5 lbs per interval = 3,200 lbs
- Yeast Extract: 0.4 lbs per interval = 170 lbs

Injection Area C (Defined by RDC-22,23, 24)

- Total Treatment Area: 3700 ft^2
- Number of Injection Points & Horizontal Spacing: 148 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 222 injections, 4'-6' vertical treatment zone (alternate 4', 6'' bgs and 5'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 5,550 lbs. of BOS 200®
- Bacteria Concentrate: 11 gallons
- Supplemental Sulfate: 25 lbs per interval = 5,550 lbs
- Magnesium Sulfate: 12 lbs per interval = 2,664 lbs
- Food Grade Starch: 5 lbs per interval = 1,110 lbs
- Yeast Extract: 0.4 lbs per interval = 59 lbs

Injection Area D (Defined by RDC-10 & 11)

- Total Treatment Area: 3,150 ft^2
- Number of Injection Points & Horizontal Spacing: 126 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 315 injections, 4'-8' vertical treatment zone (alternate 4', 6', 8' bgs and 5', 7' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~20 lbs. per injection interval (15 gallon shot volume) = 6,300 lbs. of BOS 200®
- Bacteria Concentrate: 13 gallons
- Supplemental Sulfate: 25 lbs per interval = 7,875 lbs
- Magnesium Sulfate: 12 lbs per interval = 3,780 lbs
- Food Grade Starch: 5 lbs per interval = 1,530 lbs
- Yeast Extract: 0.27 lbs per interval = 83 lbs

Injection Area E (Defined by RDC 26 thru 29)

- Total Treatment Area: 5,100 ft^2
- Number of Injection Points & Horizontal Spacing: 204 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 306 injections, 4'-6' vertical treatment zone (alternate 4' bgs and 5'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 7,650 lbs. of BOS 200®

- Bacteria Concentrate: 15 gallons
- Supplemental Sulfate: 25 lbs per interval = 7,650 lbs
- Magnesium Sulfate: 12 lbs per interval = 3,672 lbs
- Food Grade Starch: 5 lbs per interval = 1,530 lbs
- Yeast Extract: 0.27 lbs per interval = 81 lbs

Injection Area F (Defined by RDC-33, 34, 35)

- Total Treatment Area: 1,500 ft^2
- Number of Injection Points & Horizontal Spacing: 60 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 90 injections, 4'-6' vertical treatment zone (alternate 4', 6'' bgs and 5'' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 2,250 lbs. of BOS 200®
- Bacteria Concentrate: 5 gallons
- Supplemental Sulfate: 25 lbs per interval = 2,250 lbs
- Magnesium Sulfate: 12 lbs per interval = 1,080 lbs
- Food Grade Starch: 5 lbs per interval = 450 lbs
- Yeast Extract: 0.,27 lbs per interval = 24 lbs

Injection Area G (Defined by RDC 2, 12 & 17)

- Total Treatment Area: 2,600 ft^2
- Number of Injection Points & Horizontal Spacing: 106 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 260 injections, 4'-8' vertical treatment zone (alternate 4', 6', 8' bgs and 5', 7' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 6,500 lbs. of BOS 200®
- Bacteria Concentrate: 13 gallons
- Supplemental Sulfate: 25 lbs per interval = 6,500 lbs
- Magnesium Sulfate: 12 lbs per interval = 3,120 lbs
- Food Grade Starch: 5 lbs per interval = 1,300 lbs
- Yeast Extract: 0.27 lbs per interval = 69 lbs

Injection Area H (Defined by RDC 3)

- Total Treatment Area: 1,500 ft^2
- Number of Injection Points & Horizontal Spacing: 60 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 210 injections, 4'-10' vertical treatment zone (alternate 4', 6', 8', 10' bgs and 5', 7', 9' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~15 lbs. per injection interval (15 gallon shot volume) = 3,150 lbs. of BOS 200®
- Bacteria Concentrate: 6 gallons
- Supplemental Sulfate: 25 lbs per interval = 5,250 lbs
- Magnesium Sulfate: 12 lbs per interval = 2,520 lbs
- Food Grade Starch: 5 lbs per interval = 1,050 lbs
- Yeast Extract: 0.27 lbs per interval = 56 lbs

Injection Area I (Defined by RDC 45 & 46 & MW-15)

- Total Treatment Area: 350 ft^2
- Number of Injection Points & Horizontal Spacing: 40 points on 4' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 140 injections, 4'-10' vertical treatment zone (alternate 4', 6', 8', 10' bgs and 5', 7', 9' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~7 lbs. per injection interval (15 gallon shot volume) = 980 lbs. of BOS 200®
- Bacteria Concentrate: 2 gallons
- Supplemental Sulfate: 15 lbs per interval = 2,100 lbs
- Magnesium Sulfate: 8 lbs per interval = 1,120 lbs
- Food Grade Starch: 5 lbs per interval = 700 lbs
- Yeast Extract: 0.27 lbs per interval = 37 lbs

Injection Area J (Defined by RDC 4 14)

- Total Treatment Area: 2,00 ft^2
- Number of Injection Points & Horizontal Spacing: 80 points on 5' triangular grid pattern
- Total Number of Injections and Vertical Spacing: 120 injections, 4'- 6' vertical treatment zone (alternate 4', 6' bgs and 5' bgs)
- BOS 200® Loadings & Amount Total Amount per Area: ~25 lbs. per injection interval (15 gallon shot volume) = 3,000 lbs. of BOS 200®
- Bacteria Concentrate: 6 gallons
- Supplemental Sulfate: 25 lbs per interval = 3,000 lbs
- Magnesium Sulfate: 12 lbs per interval = 1,440 lbs
- Food Grade Starch: 5 lbs per interval = 600 lbs
- Yeast Extract: 0.27 lbs per interval = 32 lbs

Total Phase 2 – BOS 200® - 63,800 lbs with 68,600 lbs of Supplemental Gypsum, 33,050 lbs of Magnesium Sulfate, 14,000 lbs Starch and 750 lbs of Yeast Extract in 1,246 injection points.

AST expects that is will take approximately 20 to 23 workdays to complete the Phase 1 injection work and between 42 and 47 workdays to complete Phase 2.

POST INJECTION SAMPLING (Phase 3)

AST recommends performing progress groundwater sampling events at intervals of one-month post-injection and quarterly until the cleanup standards are achieved or no further action is required. The performance monitoring groundwater analysis should include VOCs, anions (sulfate, nitrate, and nitrite), and dissolved gases. AST understands that the sampling effort will be performed by others and the VOCs analysis will be completed a commercial laboratory for compliance purposes. Split samples can be sent to Remediation Products, Inc. Laboratory in Golden, Colorado for anions and dissolved gas analysis at no cost to the client. The cost of shipment will be the responsibility of ATC. The analyses will be consistent with that described previously (VOCs and anions). The anions will track the biological processes.

The attached Tables 3 and 4 provided the pricing with assumptions for the Phase 1 and Phase 2 injection efforts.

If you have any questions or wish to discuss the information provided herein, please contact me at (859) 846-4900 or via email at

Sincerely,
AST Environmental, Inc.

Gary E. Simpson
Vice President

Tables

Sample ID. No.		RDC-01													
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		02-4		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	10	ND	50	ND	100	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	10	ND	50	ND	100	33.9	0.5	21.1	0.5	33.2	0.5	25.7	0.5
1,2-Dichloroethane	ug/Kg	ND	10	ND	50	ND	100	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	1470	10	2890	50	15300	100	151	0.5	7.40	0.5	98.0	0.5	29.2	0.5
Toluene	ug/Kg	5200	10	18800	50	197000	250	321	0.5	24.6	0.5	89.4	0.5	15.5	0.5
Ethylbenzene	ug/Kg	3740	10	7100	50	65700	100	46.6	0.5	6.54	0.5	23.7	0.5	9.25	0.5
m/p-Xylene	ug/Kg	11300	10	23000	50	235000	250	152	0.5	27.8	0.5	57.0	0.5	23.7	0.5
o-Xylene	ug/Kg	2320	10	9480	50	80500	100	87.3	0.5	11.3	0.5	28.5	0.5	6.84	0.5
1,2,4-Trimethylbenzene	ug/Kg	10400	10	13700	50	85900	100	59.4	0.5	15.1	0.5	22.4	0.5	11.8	0.5
Naphthalene	ug/Kg	750	10	1450	50	9370	100	12.1	0.5	6.29	0.5	7.93	0.5	3.58	0.5
TVPH	mg/Kg	192	10	489	50	4510	100	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery															
1,2-Dichloroethane-d4		110		110		100		96		113		122		94	
d8-Toluene		99		94		105		94		94		90		93	
p-Bromofluorobenzene		94		94		104		97		100		94		95	

Sample ID. No.		RDC-02													
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		02-4		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	10	ND	10	ND	0.5	ND	25	ND	0.5	ND	10	ND	0.5
MTBE	ug/Kg	ND	10	ND	10	ND	0.5	ND	25	5.56	0.5	ND	10	2.02	0.5
1,2-Dichloroethane	ug/Kg	ND	10	ND	10	ND	0.5	ND	25	ND	0.5	ND	10	ND	0.5
Benzene	ug/Kg	472	10	87.8	10	2.65	0.5	ND	25	129	0.5	65.9	10	4.64	0.5
Toluene	ug/Kg	776	10	736	10	8.43	0.5	216	25	17.4	0.5	440	10	12.6	0.5
Ethylbenzene	ug/Kg	537	10	943	10	2.82	0.5	315	25	25.5	0.5	556	10	5.31	0.5
m/p-Xylene	ug/Kg	1740	10	2970	10	9.44	0.5	1350	25	175	0.5	1840	10	16.2	0.5
o-Xylene	ug/Kg	436	10	1040	10	4.57	0.5	589	25	8.67	0.5	615	10	6.81	0.5
1,2,4-Trimethylbenzene	ug/Kg	880	10	2280	10	11.3	0.5	7100	25	60.5	0.5	1750	10	10.3	0.5
Naphthalene	ug/Kg	82.5	10	175	10	13.2	0.5	960	25	12.4	0.5	205	10	7.22	0.5
TVPH	mg/Kg	23.3	10	76.8	10	ND	0.5	85.0	25	ND	0.5	20.1	10	ND	0.5
% Surrogate Recovery															
1,2-Dichloroethane-d4		103		107		122		107		95		118		101	
d8-Toluene		93		96		92		91		96		93		93	
p-Bromofluorobenzene		93		98		100		93		97		101		97	

Sample ID. No.		RDC-03											
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	25	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	ND	25	ND	10	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	25	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	270	50	636	25	674	10	2.62	0.5	6.03	0.5	8.13	0.5
Toluene	ug/Kg	525	50	195	25	2790	10	16.0	0.5	21.2	0.5	35.4	0.5
Ethylbenzene	ug/Kg	8600	50	8260	25	26800	50	4.61	0.5	4.41	0.5	4.58	0.5
m/p-Xylene	ug/Kg	1250	50	460	25	67000	50	14.8	0.5	13.8	0.5	15.8	0.5
o-Xylene	ug/Kg	414	50	154	25	9020	10	7.11	0.5	5.88	0.5	7.69	0.5
1,2,4-Trimethylbenzene	ug/Kg	9960	50	1180	25	45200	50	7.44	0.5	8.14	0.5	5.51	0.5
Naphthalene	ug/Kg	3760	50	2270	25	4420	10	3.52	0.5	1.76	0.5	2.30	0.5
TVPH	mg/Kg	1050	50	344	25	1390	50	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		102		100		105		131		109		130	
d8-Toluene		92		93		99		87		93		91	
p-Bromofluorobenzene		103		96		119		96		96		94	

Sample ID. No.		RDC-04													
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		02-4		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	100	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	3.58	0.5	ND	100	0.78	0.5	ND	0.5	ND	0.5	0.93	0.5	1.16	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	100	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	14.1	0.5	455	100	5.56	0.5	8.70	0.5	24.6	0.5	10.6	0.5	2.71	0.5
Toluene	ug/Kg	210	0.5	29300	100	31.5	0.5	28.8	0.5	76.6	0.5	49.9	0.5	17.5	0.5
Ethylbenzene	ug/Kg	310	0.5	18200	100	60.0	0.5	5.19	0.5	9.32	0.5	8.55	0.5	6.26	0.5
m/p-Xylene	ug/Kg	1290	10	55600	100	235	0.5	15.7	0.5	27.9	0.5	27.7	0.5	22.9	0.5
o-Xylene	ug/Kg	565	0.5	25100	100	83.5	0.5	6.80	0.5	14.5	0.5	15.2	0.5	11.2	0.5
1,2,4-Trimethylbenzene	ug/Kg	1560	10	31100	100	460	10	10.5	0.5	10.8	0.5	12.1	0.5	18.1	0.5
Naphthalene	ug/Kg	121	0.5	5910	100	75.4	0.5	2.95	0.5	1.80	0.5	1.80	0.5	2.72	0.5
TVPH	mg/Kg	ND	10	1010	100	19.2	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery															
1,2-Dichloroethane-d4		100		100		96		109		117		124		118	
d8-Toluene		162		94		114		94		96		95		86	
p-Bromofluorobenzene		134		98		124		97		95		105		103	

Sample ID. No.		RDC-05											
Date Sampled		**10/20/2020**		**10/20/2020**		**10/20/2020**		**10/20/2020**		**10/20/2020**		**10/20/2020**	
Sample Depth (ft)		**04-6**		**06-8**		**08-10**		**10-12**		**12-14**		**14-16**	
	Units		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**
Dimethyl Sulfide	ug/Kg	ND	100	ND	100	ND	0.5	ND	0.5	ND	10	ND	0.5
MTBE	ug/Kg	ND	100	ND	100	2.91	0.5	1.22	0.5	ND	10	1.74	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	100	ND	0.5	ND	0.5	ND	10	ND	0.5
Benzene	ug/Kg	15400	100	17800	100	30.7	0.5	145	0.5	1850	10	77.8	0.5
Toluene	ug/Kg	89600	100	247000	250	187	0.5	192	0.5	40500	50	396	0.5
Ethylbenzene	ug/Kg	38200	100	74200	100	121	0.5	56.5	0.5	10400	10	166	0.5
m/p-Xylene	ug/Kg	104000	100	288000	250	530	0.5	183	0.5	56800	50	544	0.5
o-Xylene	ug/Kg	49700	100	90800	100	331	0.5	86.4	0.5	11800	10	265	0.5
1,2,4-Trimethylbenzene	ug/Kg	57000	100	95200	100	260	0.5	98.9	0.5	26100	50	292	0.5
Naphthalene	ug/Kg	12000	100	14700	100	39.8	0.5	15.0	0.5	2220	10	36.6	0.5
TVPH	mg/Kg	2610	100	3830	250	4.40	0.5	1.34	0.5	844	50	3.91	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		100		94		115		116		102		124	
d8-Toluene		96		104		93		94		116		96	
p-Bromofluorobenzene		99		106		127		112		102		104	

Sample ID. No.		RDC-06									
Date Sampled		**10/20/2020**		**10/20/2020**		**10/20/2020**		**10/20/2020**		**10/20/2020**	
Sample Depth (ft)		**02-4**		**04-6**		**06-8**		**08-10**		**10-12**	
	Units		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**		**Reporting Limit**
Dimethyl Sulfide	ug/Kg	ND	25	ND	25	ND	25	ND	10	ND	10
MTBE	ug/Kg	ND	25	ND	25	ND	25	188	10	257	10
1,2-Dichloroethane	ug/Kg	ND	25	ND	25	ND	25	ND	10	ND	10
Benzene	ug/Kg	966	25	1290	25	146	25	618	10	909	10
Toluene	ug/Kg	11700	25	17300	25	18300	25	1480	10	933	10
Ethylbenzene	ug/Kg	7370	25	7680	25	19200	25	147	10	130	10
m/p-Xylene	ug/Kg	27700	25	27600	25	71200	100	448	10	280	10
o-Xylene	ug/Kg	12300	25	11500	25	22800	25	264	10	166	10
1,2,4-Trimethylbenzene	ug/Kg	21700	25	18100	25	41000	100	150	10	113	10
Naphthalene	ug/Kg	2940	25	2240	25	6040	25	53.7	10	33.0	10
TVPH	mg/Kg	297	25	376	25	748	25	ND	10	ND	10
% Surrogate Recovery											
1,2-Dichloroethane-d4		144		131		100		129		117	
d8-Toluene		104		99		101		94		98	
p-Bromofluorobenzene		121		120		95		111		105	

Sample ID. No.		RDC-07									
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		02-4		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	100	ND	50	ND	25	ND	10
MTBE	ug/Kg	ND	50	ND	100	ND	50	48.0	25	312	10
1,2-Dichloroethane	ug/Kg	ND	50	ND	100	ND	50	ND	25	ND	10
Benzene	ug/Kg	9320	50	1980	100	9140	50	380	25	649	10
Toluene	ug/Kg	41900	50	65200	100	203000	250	8850	25	1760	10
Ethylbenzene	ug/Kg	19600	50	43500	100	57000	50	6330	25	147	10
m/p-Xylene	ug/Kg	54800	50	118000	100	246000	250	20700	25	394	10
o-Xylene	ug/Kg	23400	50	58300	100	101000	250	9420	25	223	10
1,2,4-Trimethylbenzene	ug/Kg	33400	50	75000	100	64500	50	16800	25	138	10
Naphthalene	ug/Kg	4600	50	10700	100	14900	50	2540	25	52.2	10
TVPH	mg/Kg	1150	50	2270	100	2280	250	341	25	ND	10
% Surrogate Recovery											
1,2-Dichloroethane-d4		101		101		102		129		117	
d8-Toluene		94		94		106		100		92	
p-Bromofluorobenzene		97		106		120		130		113	

Sample ID. No.		RDC-08									
Date Sampled		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020	
Sample Depth (ft)		02-4		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	50	ND	50	ND	25	ND	0.5
MTBE	ug/Kg	ND	250	ND	50	ND	50	ND	25	227	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	50	ND	50	ND	25	ND	0.5
Benzene	ug/Kg	12100	250	961	50	31200	50	44.4	25	370	0.5
Toluene	ug/Kg	133000	250	12600	50	434000	500	513	25	536	0.5
Ethylbenzene	ug/Kg	70800	250	5960	50	138000	500	396	25	66.0	0.5
m/p-Xylene	ug/Kg	211000	250	20100	50	488000	500	1670	25	190	0.5
o-Xylene	ug/Kg	96300	250	8690	50	201000	500	932	25	113	0.5
1,2,4-Trimethylbenzene	ug/Kg	115000	250	13400	50	242000	500	2800	25	61.8	0.5
Naphthalene	ug/Kg	13900	250	1630	50	14900	50	816	25	18.8	0.5
TVPH	mg/Kg	3740	250	319	50	6740	500	20.9	25	1.70	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		95		101		96		107		118	
d8-Toluene		91		89		129		87		91	
p-Bromofluorobenzene		101		91		124		90		108	

Sample ID. No.		RDC-09							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	100	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	ND	100	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	100	ND	0.5	ND	0.5
Benzene	ug/Kg	97.6	50	ND	100	2.60	0.5	10.6	0.5
Toluene	ug/Kg	9790	50	4590	100	8.67	0.5	69.4	0.5
Ethylbenzene	ug/Kg	8240	50	4340	100	2.57	0.5	24.0	0.5
m/p-Xylene	ug/Kg	29200	50	15500	100	9.46	0.5	76.9	0.5
o-Xylene	ug/Kg	12100	50	6940	100	5.19	0.5	34.1	0.5
1,2,4-Trimethylbenzene	ug/Kg	21700	50	14500	100	8.11	0.5	42.4	0.5
Naphthalene	ug/Kg	2760	50	2360	100	6.37	0.5	4.44	0.5
TVPH	mg/Kg	337	50	244	100	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		110		98		118		114	
d8-Toluene		98		115		94		92	
p-Bromofluorobenzene		110		95		103		102	

Sample ID. No.		RDC-10											
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	50	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	ND	50	89.8	10	13.2	0.5	1.15	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	50	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	9380	250	23700	50	344	10	50.5	0.5	3.28	0.5	3.13	0.5
Toluene	ug/Kg	91100	250	229000	250	941	10	127	0.5	10.2	0.5	9.19	0.5
Ethylbenzene	ug/Kg	36200	250	76000	250	299	10	17.8	0.5	1.47	0.5	3.03	0.5
m/p-Xylene	ug/Kg	113000	250	245000	250	1070	10	44.5	0.5	10.7	0.5	10.9	0.5
o-Xylene	ug/Kg	48500	250	94500	250	668	10	30.1	0.5	5.47	0.5	5.70	0.5
1,2,4-Trimethylbenzene	ug/Kg	59800	250	113000	250	1150	10	15.4	0.5	7.88	0.5	11.3	0.5
Naphthalene	ug/Kg	7800	250	11900	250	188	10	3.51	0.5	6.02	0.5	6.74	0.5
TVPH	mg/Kg	1850	250	3090	250	14.4	10	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		96		93		112		114		120		129	
d8-Toluene		89		108		90		97		95		93	
p-Bromofluorobenzene		97		108		97		93		103		104	

Sample ID. No.		RDC-11							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	50	ND	25	ND	0.5
MTBE	ug/Kg	ND	50	ND	50	ND	25	2.82	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	50	ND	25	ND	0.5
Benzene	ug/Kg	9980	50	24500	50	820	25	4.63	0.5
Toluene	ug/Kg	115000	100	273000	250	5630	25	8.91	0.5
Ethylbenzene	ug/Kg	30900	50	104000	250	2560	25	2.72	0.5
m/p-Xylene	ug/Kg	111000	100	353000	250	8340	25	9.52	0.5
o-Xylene	ug/Kg	38900	50	146000	250	3740	25	5.49	0.5
1,2,4-Trimethylbenzene	ug/Kg	44600	50	151000	250	6890	25	9.49	0.5
Naphthalene	ug/Kg	5180	50	14500	50	1240	25	4.02	0.5
TVPH	mg/Kg	1440	50	3140	250	141	25	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		94		98		95		128	
d8-Toluene		95		116		91		87	
p-Bromofluorobenzene		99		107		93		104	

Sample ID. No.		RDC-12							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	25	ND	0.5	ND	10
MTBE	ug/Kg	ND	50	ND	25	77.9	0.5	103	10
1,2-Dichloroethane	ug/Kg	ND	50	ND	25	ND	0.5	ND	10
Benzene	ug/Kg	3210	50	889	25	439	0.5	954	10
Toluene	ug/Kg	23500	50	6300	25	113	0.5	902	10
Ethylbenzene	ug/Kg	9300	50	2560	25	97.8	0.5	178	10
m/p-Xylene	ug/Kg	31000	50	8330	25	289	0.5	491	10
o-Xylene	ug/Kg	11400	50	3430	25	46.2	0.5	208	10
1,2,4-Trimethylbenzene	ug/Kg	12700	50	4900	25	77.0	0.5	153	10
Naphthalene	ug/Kg	1300	50	507	25	17.8	0.5	35.4	10
TVPH	mg/Kg	234	50	119	25	0.94	0.5	ND	10
% Surrogate Recovery									
1,2-Dichloroethane-d4		128		97		132		112	
d8-Toluene		93		90		91		99	
p-Bromofluorobenzene		111		88		101		98	

Sample ID. No.		RDC-13							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	500	ND	10	ND	0.5
MTBE	ug/Kg	52.6	50	ND	500	53.1	10	80.4	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	500	ND	10	ND	0.5
Benzene	ug/Kg	6310	50	31900	500	865	10	816	10
Toluene	ug/Kg	58800	50	370000	500	2510	10	1380	10
Ethylbenzene	ug/Kg	28100	50	140000	500	549	10	178	0.5
m/p-Xylene	ug/Kg	76400	50	412000	500	1850	10	489	0.5
o-Xylene	ug/Kg	37800	50	195000	500	853	10	282	0.5
1,2,4-Trimethylbenzene	ug/Kg	41400	50	197000	500	794	10	96.8	0.5
Naphthalene	ug/Kg	5630	50	25900	500	109	10	38.0	0.5
TVPH	mg/Kg	1600	50	5740	500	20.6	10	2.61	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		119		97		120		115	
d8-Toluene		93		100		98		91	
p-Bromofluorobenzene		103		102		96		102	

Sample ID. No.		RDC-14							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	10	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	100	ND	10	0.91	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	10	ND	0.5	ND	0.5
Benzene	ug/Kg	2900	100	12.5	10	6.03	0.5	15.8	0.5
Toluene	ug/Kg	47200	100	66.7	10	17.4	0.5	40.7	0.5
Ethylbenzene	ug/Kg	21500	100	85.8	10	4.11	0.5	9.99	0.5
m/p-Xylene	ug/Kg	66600	100	363	10	14.2	0.5	36.6	0.5
o-Xylene	ug/Kg	27500	100	162	10	7.72	0.5	14.2	0.5
1,2,4-Trimethylbenzene	ug/Kg	35000	100	1650	10	11.0	0.5	17.1	0.5
Naphthalene	ug/Kg	4140	100	105	10	9.04	0.5	7.62	0.5
TVPH	mg/Kg	1490	100	30.2	10	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		108		110		106		106	
d8-Toluene		96		97		94		92	
p-Bromofluorobenzene		103		99		104		103	

Sample ID. No.		RDC-15											
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	0.98	0.5	ND	0.5	ND	0.5	ND	0.5	0.90	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	210	0.5	5.51	0.5	8.53	0.5	8.56	0.5	5.19	0.5	2.34	0.5
Toluene	ug/Kg	356	0.5	39.9	0.5	39.8	0.5	18.3	0.5	17.4	0.5	18.3	0.5
Ethylbenzene	ug/Kg	143	0.5	12.7	0.5	11.8	0.5	2.63	0.5	2.78	0.5	5.16	0.5
m/p-Xylene	ug/Kg	435	0.5	47.6	0.5	39.3	0.5	8.99	0.5	9.53	0.5	21.0	0.5
o-Xylene	ug/Kg	178	0.5	20.7	0.5	17.3	0.5	4.23	0.5	4.80	0.5	10.7	0.5
1,2,4-Trimethylbenzene	ug/Kg	131	0.5	24.9	0.5	27.1	0.5	3.93	0.5	6.01	0.5	24.2	0.5
Naphthalene	ug/Kg	7.66	0.5	2.44	0.5	6.00	0.5	2.28	0.5	4.70	0.5	28.4	0.5
TVPH	mg/Kg	3.22	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		107		100		94		103		100		91	
d8-Toluene		91		97		93		99		97		99	
p-Bromofluorobenzene		114		99		100		98		99		96	

Sample ID. No.		RDC-16											
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	0.5	ND	0.5	ND	10	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	100	25.5	0.5	101	0.5	226	10	239	0.5	44.7	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	0.5	ND	0.5	ND	10	ND	0.5	ND	0.5
Benzene	ug/Kg	2210	100	5.65	0.5	5.83	0.5	762	10	2460	10	12.6	0.5
Toluene	ug/Kg	71900	100	35.2	0.5	20.8	0.5	1660	10	3670	10	42.6	0.5
Ethylbenzene	ug/Kg	42000	100	7.79	0.5	3.75	0.5	134	10	396	0.5	9.14	0.5
m/p-Xylene	ug/Kg	120000	100	30.5	0.5	12.5	0.5	367	10	694	10	27.2	0.5
o-Xylene	ug/Kg	57400	100	18.4	0.5	8.00	0.5	210	10	487	0.5	14.5	0.5
1,2,4-Trimethylbenzene	ug/Kg	71700	100	31.5	0.5	5.23	0.5	107	10	144	0.5	9.74	0.5
Naphthalene	ug/Kg	11400	100	59.8	0.5	11.2	0.5	39.3	10	31.3	0.5	4.22	0.5
TVPH	mg/Kg	1820	100	1.17	0.5	0.76	0.5	ND	10	12.0	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		116		113		115		108		88		99	
d8-Toluene		99		96		96		99		97		97	
p-Bromofluorobenzene		103		97		91		95		110		103	

Sample ID. No.		RDC-17											
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		8-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	50	ND	0.5	ND	0.5	ND	10	ND	0.5
MTBE	ug/Kg	ND	100	ND	50	6.72	0.5	10.2	0.5	17.9	10	3.23	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	50	ND	0.5	ND	0.5	ND	10	ND	0.5
Benzene	ug/Kg	2790	100	ND	50	29.5	0.5	53.4	0.5	559	10	2.16	0.5
Toluene	ug/Kg	37300	100	3030	50	90.1	0.5	113	0.5	3240	10	14.1	0.5
Ethylbenzene	ug/Kg	13000	100	5850	50	11.2	0.5	13.8	0.5	1210	10	3.16	0.5
m/p-Xylene	ug/Kg	41300	100	21300	50	37.1	0.5	44.3	0.5	3700	10	12.8	0.5
o-Xylene	ug/Kg	17100	100	10200	50	19.0	0.5	22.4	0.5	1560	10	7.79	0.5
1,2,4-Trimethylbenzene	ug/Kg	19000	100	21800	50	9.54	0.5	8.61	0.5	2090	10	9.32	0.5
Naphthalene	ug/Kg	2130	100	3370	50	9.88	0.5	7.87	0.5	283	10	6.83	0.5
TVPH	mg/Kg	718	100	330	50	0.70	0.5	0.84	0.5	81.4	10	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		114		115		116		130		108		91	
d8-Toluene		98		81		97		96		97		98	
p-Bromofluorobenzene		101		94		92		95		98		97	

Sample ID. No.		RDC-18							
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/21/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	250	ND	100	ND	50
MTBE	ug/Kg	ND	50	ND	250	557	100	ND	50
1,2-Dichloroethane	ug/Kg	ND	50	ND	250	ND	100	ND	50
Benzene	ug/Kg	10200	50	83100	250	44200	100	3470	50
Toluene	ug/Kg	47800	50	588000	500	313000	500	27900	50
Ethylbenzene	ug/Kg	18700	50	165000	250	82600	100	7560	50
m/p-Xylene	ug/Kg	51800	50	470000	500	263000	500	21300	50
o-Xylene	ug/Kg	24100	50	202000	250	99100	100	8850	50
1,2,4-Trimethylbenzene	ug/Kg	28900	50	200000	250	92000	100	11200	50
Naphthalene	ug/Kg	3640	50	22000	250	10300	100	980	50
TVPH	mg/Kg	944	50	8440	500	4200	500	338	50
% Surrogate Recovery									
1,2-Dichloroethane-d4		117		125		131		110	
d8-Toluene		98		95		96		98	
p-Bromofluorobenzene		100		103		105		97	

Sample ID. No.		RDC-19											
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	3.26	0.5	2.47	0.5	2.62	0.5	2.25	0.5	2.39	0.5	1.89	0.5
Toluene	ug/Kg	6.84	0.5	6.48	0.5	12.1	0.5	11.0	0.5	12.6	0.5	8.29	0.5
Ethylbenzene	ug/Kg	5.01	0.5	3.95	0.5	14.3	0.5	5.17	0.5	7.31	0.5	2.47	0.5
m/p-Xylene	ug/Kg	11.1	0.5	7.61	0.5	44.5	0.5	18.0	0.5	22.8	0.5	9.10	0.5
o-Xylene	ug/Kg	4.11	0.5	3.60	0.5	23.4	0.5	8.28	0.5	8.77	0.5	4.11	0.5
1,2,4-Trimethylbenzene	ug/Kg	121	0.5	12.8	0.5	36.9	0.5	12.8	0.5	19.6	0.5	5.48	0.5
Naphthalene	ug/Kg	20.4	0.5	17.5	0.5	25.4	0.5	9.71	0.5	6.69	0.5	2.69	0.5
TVPH	mg/Kg	6.75	0.5	0.78	0.5	ND	0.5	ND	0.5	0.73	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		73		97		95		96		95		101	
d8-Toluene		98		97		95		94		100		94	
p-Bromofluorobenzene		109		102		100		107		95		101	

Sample ID. No.		RDC-20							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	25	ND	100	ND	0.5	ND	10
MTBE	ug/Kg	ND	25	ND	100	ND	0.5	ND	10
1,2-Dichloroethane	ug/Kg	ND	25	ND	100	ND	0.5	ND	10
Benzene	ug/Kg	ND	25	11900	100	17.9	0.5	297	10
Toluene	ug/Kg	2430	25	129000	250	20.1	0.5	1010	10
Ethylbenzene	ug/Kg	3490	25	55000	100	9.61	0.5	242	10
m/p-Xylene	ug/Kg	14100	25	148000	250	50.7	0.5	819	10
o-Xylene	ug/Kg	7120	25	72100	100	11.2	0.5	351	10
1,2,4-Trimethylbenzene	ug/Kg	15100	25	82000	100	17.3	0.5	323	10
Naphthalene	ug/Kg	2820	25	11600	100	11.6	0.5	37.7	10
TVPH	mg/Kg	163	25	1770	100	ND	0.5	15.0	10
% Surrogate Recovery									
1,2-Dichloroethane-d4		123		120		99		113	
d8-Toluene		96		105		97		96	
p-Bromofluorobenzene		119		117		100		90	

Sample ID. No.		RDC-21											
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	0.5	ND	100	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	100	1.62	0.5	ND	100	150	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	0.5	ND	100	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	367	100	3.36	0.5	3520	100	552	10	90.9	0.5	4.17	0.5
Toluene	ug/Kg	9650	100	18.5	0.5	27800	100	425	0.5	658	0.5	19.1	0.5
Ethylbenzene	ug/Kg	6130	100	16.4	0.5	9080	100	188	0.5	225	0.5	6.35	0.5
m/p-Xylene	ug/Kg	22300	100	79.0	0.5	31400	100	370	0.5	645	0.5	24.3	0.5
o-Xylene	ug/Kg	8960	100	41.9	0.5	13000	100	155	0.5	297	0.5	10.8	0.5
1,2,4-Trimethylbenzene	ug/Kg	14900	100	156	0.5	17600	100	170	0.5	256	0.5	14.2	0.5
Naphthalene	ug/Kg	2860	100	107	0.5	2390	100	26.3	0.5	38.1	0.5	7.60	0.5
TVPH	mg/Kg	129	100	2.52	0.5	322	100	6.89	0.5	6.60	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		126		84		126		88		88		98	
d8-Toluene		94		102		91		101		101		90	
p-Bromofluorobenzene		106		108		107		102		100		95	

Sample ID. No.		RDC-22									
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-9.5		09.5-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	25	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	264	100	ND	25	60.8	0.5	550	0.5	283	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	25	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	24500	100	ND	25	4.06	0.5	2390	10	633	0.5
Toluene	ug/Kg	149000	250	423	25	9.56	0.5	189	0.5	53.8	0.5
Ethylbenzene	ug/Kg	58200	100	1940	25	8.67	0.5	382	0.5	98.3	0.5
m/p-Xylene	ug/Kg	160000	250	7350	25	37.1	0.5	409	0.5	93.3	0.5
o-Xylene	ug/Kg	79500	100	3350	25	23.5	0.5	298	0.5	52.2	0.5
1,2,4-Trimethylbenzene	ug/Kg	96500	100	13500	25	67.5	0.5	191	0.5	59.4	0.5
Naphthalene	ug/Kg	13300	100	1800	25	57.2	0.5	58.2	0.5	33.1	0.5
TVPH	mg/Kg	2310	100	304	25	1.34	0.5	8.87	0.5	1.23	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		122		106		114		89		114	
d8-Toluene		108		103		99		99		98	
p-Bromofluorobenzene		121		93		97		97		91	

Sample ID. No.		RDC-23							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	31.6	0.5	480	0.5	214	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	2900	50	2.82	0.5	239	0.5	77.4	0.5
Toluene	ug/Kg	45000	50	10.7	0.5	309	0.5	31.5	0.5
Ethylbenzene	ug/Kg	19200	50	2.51	0.5	23.8	0.5	8.82	0.5
m/p-Xylene	ug/Kg	63800	50	10.4	0.5	53.5	0.5	18.9	0.5
o-Xylene	ug/Kg	28200	50	5.22	0.5	37.6	0.5	7.25	0.5
1,2,4-Trimethylbenzene	ug/Kg	38700	50	7.94	0.5	11.4	0.5	5.72	0.5
Naphthalene	ug/Kg	5150	50	29.4	0.5	3.87	0.5	1.54	0.5
TVPH	mg/Kg	655	50	1.26	0.5	1.55	0.5	1.41	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		118		89		128		112	
d8-Toluene		105		99		101		98	
p-Bromofluorobenzene		114		100		95		92	

Sample ID. No.		RDC-24											
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5	ND	10	ND	0.5
MTBE	ug/Kg	ND	250	13.7	0.5	125	0.5	47.3	0.5	ND	10	5.03	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5	ND	10	ND	0.5
Benzene	ug/Kg	29500	250	2.78	0.5	5.40	0.5	32.4	0.5	75.7	10	11.1	0.5
Toluene	ug/Kg	239000	250	17.4	0.5	26.5	0.5	32.5	0.5	729	10	38.3	0.5
Ethylbenzene	ug/Kg	103000	250	5.58	0.5	5.02	0.5	5.59	0.5	580	10	5.96	0.5
m/p-Xylene	ug/Kg	273000	250	23.1	0.5	18.2	0.5	16.9	0.5	1990	10	22.3	0.5
o-Xylene	ug/Kg	129000	250	12.9	0.5	9.83	0.5	7.30	0.5	845	10	11.9	0.5
1,2,4-Trimethylbenzene	ug/Kg	138000	250	20.9	0.5	8.86	0.5	5.39	0.5	1880	10	14.0	0.5
Naphthalene	ug/Kg	13900	250	22.3	0.5	3.63	0.5	3.45	0.5	230	10	18.3	0.5
TVPH	mg/Kg	5220	250	3.92	0.5	ND	0.5	0.63	0.5	27.7	10	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		103		90		94		122		107		138	
d8-Toluene		102		96		100		95		85		96	
p-Bromofluorobenzene		104		104		97		90		104		95	

Sample ID. No.		RDC-25							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	25	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	100	50.5	25	113	0.5	82.3	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	25	ND	0.5	ND	0.5
Benzene	ug/Kg	4310	100	2170	25	31.8	0.5	648	0.5
Toluene	ug/Kg	75500	100	20400	25	35.4	0.5	50.9	0.5
Ethylbenzene	ug/Kg	32400	100	9370	25	10.4	0.5	117	0.5
m/p-Xylene	ug/Kg	108000	100	28100	25	28.7	0.5	53.4	0.5
o-Xylene	ug/Kg	42900	100	12800	25	18.4	0.5	21.8	0.5
1,2,4-Trimethylbenzene	ug/Kg	57400	100	17300	25	18.8	0.5	19.2	0.5
Naphthalene	ug/Kg	8310	100	2350	25	14.3	0.5	8.51	0.5
TVPH	mg/Kg	925	100	606	25	ND	0.5	1.08	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		112		133		94		121	
d8-Toluene		102		97		96		98	
p-Bromofluorobenzene		107		103		97		90	

Sample ID. No.		RDC-26							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	100	ND	0.5	ND	10	ND	0.5
MTBE	ug/Kg	ND	100	5.15	0.5	ND	10	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	100	ND	0.5	ND	10	ND	0.5
Benzene	ug/Kg	2950	100	4.60	0.5	602	10	2.11	0.5
Toluene	ug/Kg	111000	100	24.3	0.5	5410	10	46.1	0.5
Ethylbenzene	ug/Kg	76100	100	9.96	0.5	2340	10	10.2	0.5
m/p-Xylene	ug/Kg	325000	500	39.3	0.5	7480	10	41.3	0.5
o-Xylene	ug/Kg	105000	100	25.8	0.5	3270	10	22.1	0.5
1,2,4-Trimethylbenzene	ug/Kg	194000	500	651	0.5	5220	10	19.2	0.5
Naphthalene	ug/Kg	20900	100	533	0.5	580	10	15.2	0.5
TVPH	mg/Kg	3800	100	20.0	0.5	138	10	0.95	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		115		92		102		99	
d8-Toluene		93		107		103		100	
p-Bromofluorobenzene		105		140		111		90	

Sample ID. No.		RDC-27									
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-11		11-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	0.5	ND	10	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	6.16	0.5	ND	10	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	0.5	ND	10	ND	0.5	ND	0.5
Benzene	ug/Kg	14200	250	4.59	0.5	122	10	17.6	0.5	4.26	0.5
Toluene	ug/Kg	147000	250	27.3	0.5	820	10	81.0	0.5	20.4	0.5
Ethylbenzene	ug/Kg	54400	250	8.19	0.5	607	10	27.6	0.5	3.44	0.5
m/p-Xylene	ug/Kg	166000	250	27.8	0.5	2040	10	94.9	0.5	14.7	0.5
o-Xylene	ug/Kg	71300	250	14.1	0.5	872	10	44.4	0.5	6.90	0.5
1,2,4-Trimethylbenzene	ug/Kg	82800	250	54.6	0.5	2180	10	65.6	0.5	7.45	0.5
Naphthalene	ug/Kg	9950	250	130	0.5	262	10	11.2	0.5	2.55	0.5
TVPH	mg/Kg	3460	250	8.04	0.5	47.6	10	1.18	0.5	ND	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		107		127		105		138		132	
d8-Toluene		96		119		102		98		94	
p-Bromofluorobenzene		98		108		109		96		92	

Sample ID. No.		RDC-28							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	156	0.5	1.64	0.5	0.73	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	14100	250	8.23	0.5	35.4	0.5	2.85	0.5
Toluene	ug/Kg	146000	250	28.1	0.5	53.6	0.5	21.2	0.5
Ethylbenzene	ug/Kg	52200	250	5.99	0.5	14.3	0.5	5.63	0.5
m/p-Xylene	ug/Kg	154000	250	19.6	0.5	41.0	0.5	19.9	0.5
o-Xylene	ug/Kg	68200	250	10.4	0.5	20.1	0.5	9.86	0.5
1,2,4-Trimethylbenzene	ug/Kg	75000	250	9.63	0.5	27.3	0.5	11.0	0.5
Naphthalene	ug/Kg	12100	250	3.40	0.5	11.5	0.5	11.1	0.5
TVPH	mg/Kg	2240	250	ND	0.5	1.31	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		108		96		130		100	
d8-Toluene		103		97		101		97	
p-Bromofluorobenzene		99		103		95		100	

Sample ID. No.		RDC-29							
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	ND	0.5	0.84	0.5	0.63	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	12600	250	17.3	0.5	20.2	0.5	11.6	0.5
Toluene	ug/Kg	161000	250	128	0.5	247	0.5	132	0.5
Ethylbenzene	ug/Kg	59700	250	12.9	0.5	71.4	0.5	15.4	0.5
m/p-Xylene	ug/Kg	169000	250	41.3	0.5	274	0.5	47.4	0.5
o-Xylene	ug/Kg	75800	250	21.3	0.5	156	0.5	23.7	0.5
1,2,4-Trimethylbenzene	ug/Kg	84000	250	8.23	0.5	242	0.5	9.63	0.5
Naphthalene	ug/Kg	13000	250	9.19	0.5	63.2	0.5	2.56	0.5
TVPH	mg/Kg	3210	250	0.51	0.5	7.45	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		113		131		93		95	
d8-Toluene		101		98		109		98	
p-Bromofluorobenzene		99		93		108		95	

Sample ID. No.		RDC-30											
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-9		09-10		10-11		11-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	1.53	0.5	ND	0.5	2.46	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	434	50	18.4	0.5	410	0.5	64.0	0.5	9.84	0.5	2.31	0.5
Toluene	ug/Kg	18900	50	84.8	0.5	1210	10	314	0.5	43.2	0.5	12.7	0.5
Ethylbenzene	ug/Kg	10700	50	9.59	0.5	183	0.5	35.2	0.5	23.9	0.5	2.47	0.5
m/p-Xylene	ug/Kg	35700	50	33.4	0.5	496	0.5	128	0.5	54.9	0.5	9.99	0.5
o-Xylene	ug/Kg	15100	50	23.8	0.5	281	0.5	76.9	0.5	38.4	0.5	4.23	0.5
1,2,4-Trimethylbenzene	ug/Kg	21800	50	16.4	0.5	155	0.5	37.9	0.5	24.3	0.5	6.16	0.5
Naphthalene	ug/Kg	3180	50	18.5	0.5	37.3	0.5	24.8	0.5	10.8	0.5	3.34	0.5
TVPH	mg/Kg	635	50	ND	0.5	5.07	0.5	0.99	0.5	0.72	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		106		98		107		110		109		125	
d8-Toluene		104		98		99		96		95		94	
p-Bromofluorobenzene		112		100		96		91		91		87	

Sample ID. No.		RDC-31							
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	10	2.61	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	ND	10	44.1	0.5	9.88	0.5	5.13	0.5
Toluene	ug/Kg	36.0	10	150	0.5	31.4	0.5	23.1	0.5
Ethylbenzene	ug/Kg	115	10	16.2	0.5	8.62	0.5	4.13	0.5
m/p-Xylene	ug/Kg	586	10	60.4	0.5	17.6	0.5	10.2	0.5
o-Xylene	ug/Kg	427	10	35.3	0.5	9.40	0.5	7.16	0.5
1,2,4-Trimethylbenzene	ug/Kg	1170	10	27.7	0.5	18.3	0.5	4.29	0.5
Naphthalene	ug/Kg	324	10	16.6	0.5	6.92	0.5	2.38	0.5
TVPH	mg/Kg	ND	10	ND	0.5	0.54	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		103		89		116		130	
d8-Toluene		97		100		97		92	
p-Bromofluorobenzene		106		95		88		91	

Sample ID. No.		RDC-32									
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-11		11-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	500	ND	250	ND	250	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	500	ND	250	ND	250	4.59	0.5	2.00	0.5
1,2-Dichloroethane	ug/Kg	ND	500	ND	250	ND	250	ND	0.5	ND	0.5
Benzene	ug/Kg	141000	500	7250	250	671	250	38.1	0.5	41.0	0.5
Toluene	ug/Kg	724000	1000	64600	250	23200	250	238	0.5	123	0.5
Ethylbenzene	ug/Kg	291000	500	23500	250	11700	250	157	0.5	20.2	0.5
m/p-Xylene	ug/Kg	967000	1000	77200	250	40500	250	395	10	79.7	0.5
o-Xylene	ug/Kg	379000	500	32700	250	17500	250	355	0.5	38.5	0.5
1,2,4-Trimethylbenzene	ug/Kg	388000	500	38800	250	24800	250	727	10	127	0.5
Naphthalene	ug/Kg	46500	500	4080	250	2750	250	124	0.5	14.9	0.5
TVPH	mg/Kg	18500	500	1110	250	344	250	9.89	0.5	2.74	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		105		103		104		85		93	
d8-Toluene		108		99		100		107		104	
p-Bromofluorobenzene		112		107		104		108		100	

Sample ID. No.		RDC-33							
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	1.21	0.5	12.4	0.5	33.4	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	671	50	4.70	0.5	11.3	0.5	3.57	0.5
Toluene	ug/Kg	11900	50	50.9	0.5	31.9	0.5	12.4	0.5
Ethylbenzene	ug/Kg	4970	50	27.8	0.5	13.2	0.5	4.62	0.5
m/p-Xylene	ug/Kg	16600	50	132	0.5	45.6	0.5	13.3	0.5
o-Xylene	ug/Kg	7120	50	82.5	0.5	19.2	0.5	5.31	0.5
1,2,4-Trimethylbenzene	ug/Kg	9660	50	222	0.5	28.9	0.5	14.8	0.5
Naphthalene	ug/Kg	1160	50	28.8	0.5	4.15	0.5	6.63	0.5
TVPH	mg/Kg	231	50	1.04	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		105		94		104		109	
d8-Toluene		100		101		98		98	
p-Bromofluorobenzene		107		102		102		95	

Sample ID. No.		RDC-34							
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	4.14	0.5	28.1	0.5	2.84	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	12000	250	4.90	0.5	25.3	0.5	1.17	0.5
Toluene	ug/Kg	129000	250	26.6	0.5	59.6	0.5	4.76	0.5
Ethylbenzene	ug/Kg	41500	250	13.7	0.5	20.2	0.5	1.69	0.5
m/p-Xylene	ug/Kg	129000	250	61.2	0.5	66.5	0.5	5.73	0.5
o-Xylene	ug/Kg	53900	250	39.6	0.5	27.2	0.5	2.12	0.5
1,2,4-Trimethylbenzene	ug/Kg	56100	250	117	0.5	31.6	0.5	8.71	0.5
Naphthalene	ug/Kg	5270	250	24.2	0.5	3.11	0.5	2.40	0.5
TVPH	mg/Kg	2370	250	2.47	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		103		89		99		99	
d8-Toluene		100		102		99		98	
p-Bromofluorobenzene		108		106		98		100	

Sample ID. No.		RDC-35									
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-11		11-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	250	ND	10	ND	50	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	250	15.4	10	ND	50	3.68	0.5	1.90	0.5
1,2-Dichloroethane	ug/Kg	ND	250	ND	10	ND	50	ND	0.5	ND	0.5
Benzene	ug/Kg	22300	250	221	10	1920	50	2.16	0.5	22.2	0.5
Toluene	ug/Kg	194000	250	1310	10	15100	50	16.0	0.5	186	0.5
Ethylbenzene	ug/Kg	64300	250	553	10	5200	50	6.55	0.5	32.1	0.5
m/p-Xylene	ug/Kg	200000	250	1900	10	17000	50	24.8	0.5	113	0.5
o-Xylene	ug/Kg	84900	250	810	10	7000	50	9.95	0.5	44.9	0.5
1,2,4-Trimethylbenzene	ug/Kg	90800	250	1340	10	8450	50	22.7	0.5	44.8	0.5
Naphthalene	ug/Kg	9650	250	128	10	849	50	2.61	0.5	4.24	0.5
TVPH	mg/Kg	3270	250	17.1	10	247	50	0.92	0.5	ND	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		102		99		101		103		95	
d8-Toluene		102		100		101		98		100	
p-Bromofluorobenzene		109		106		108		92		96	

Sample ID. No.		RDC-36							
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		4-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	8.06	0.5	9.42	0.5	0.85	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	2.62	0.5	48.5	0.5	47.7	0.5	5.97	0.5
Toluene	ug/Kg	15.7	0.5	7.47	0.5	10.5	0.5	42.5	0.5
Ethylbenzene	ug/Kg	3.83	0.5	2.12	0.5	3.07	0.5	7.26	0.5
m/p-Xylene	ug/Kg	14.4	0.5	7.69	0.5	10.9	0.5	25.3	0.5
o-Xylene	ug/Kg	6.35	0.5	3.28	0.5	4.89	0.5	11.5	0.5
1,2,4-Trimethylbenzene	ug/Kg	8.12	0.5	4.88	0.5	7.38	0.5	15.4	0.5
Naphthalene	ug/Kg	ND	0.5	2.41	0.5	2.64	0.5	2.72	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	0.57	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		109		111		102		96	
d8-Toluene		92		95		94		99	
p-Bromofluorobenzene		87		89		88		95	

Sample ID. No.		RDC-37							
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	4.98	0.5	0.65	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	2.35	0.5	1.18	0.5	2.53	0.5	0.70	0.5
Toluene	ug/Kg	35.6	0.5	9.34	0.5	14.0	0.5	7.31	0.5
Ethylbenzene	ug/Kg	21.9	0.5	2.51	0.5	3.49	0.5	2.04	0.5
m/p-Xylene	ug/Kg	89.7	0.5	11.4	0.5	12.4	0.5	11.2	0.5
o-Xylene	ug/Kg	51.1	0.5	4.46	0.5	5.40	0.5	4.84	0.5
1,2,4-Trimethylbenzene	ug/Kg	110	0.5	8.70	0.5	8.40	0.5	13.2	0.5
Naphthalene	ug/Kg	31.8	0.5	2.42	0.5	2.38	0.5	4.94	0.5
TVPH	mg/Kg	1.93	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		87		95		132		98	
d8-Toluene		102		98		96		97	
p-Bromofluorobenzene		89		96		90		98	

Sample ID. No.		RDC-38											
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	3.40	0.5	8.17	0.5	2.61	0.5	1.62	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	0.59	0.5	1.37	0.5	3.27	0.5	15.0	0.5	1.52	0.5	1.85	0.5
Toluene	ug/Kg	5.23	0.5	9.71	0.5	16.9	0.5	4.00	0.5	9.89	0.5	12.1	0.5
Ethylbenzene	ug/Kg	3.66	0.5	2.67	0.5	6.37	0.5	1.33	0.5	3.20	0.5	3.44	0.5
m/p-Xylene	ug/Kg	18.9	0.5	9.99	0.5	22.8	0.5	4.80	0.5	11.5	0.5	12.6	0.5
o-Xylene	ug/Kg	9.94	0.5	4.46	0.5	10.6	0.5	2.08	0.5	5.87	0.5	5.15	0.5
1,2,4-Trimethylbenzene	ug/Kg	36.7	0.5	7.30	0.5	17.3	0.5	4.12	0.5	11.3	0.5	8.52	0.5
Naphthalene	ug/Kg	5.39	0.5	ND	0.5	3.19	0.5	ND	0.5	4.17	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	0.65	0.5	ND	0.5	1.01	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		89		116		112		113		111		114	
d8-Toluene		98		94		98		93		100		95	
p-Bromofluorobenzene		94		88		94		85		96		88	

Sample ID. No.		RDC-39											
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	ND	0.5	9.64	0.5	11.2	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	ND	0.5	2.21	0.5	1.99	0.5	2.50	0.5	1.55	0.5	1.76	0.5
Toluene	ug/Kg	3.94	0.5	15.7	0.5	9.71	0.5	4.83	0.5	4.47	0.5	11.4	0.5
Ethylbenzene	ug/Kg	2.24	0.5	9.27	0.5	2.57	0.5	1.13	0.5	1.12	0.5	2.55	0.5
m/p-Xylene	ug/Kg	9.52	0.5	37.1	0.5	10.1	0.5	3.92	0.5	3.81	0.5	9.21	0.5
o-Xylene	ug/Kg	4.35	0.5	11.0	0.5	4.27	0.5	1.53	0.5	1.39	0.5	4.03	0.5
1,2,4-Trimethylbenzene	ug/Kg	10.7	0.5	29.7	0.5	7.16	0.5	3.22	0.5	3.21	0.5	5.41	0.5
Naphthalene	ug/Kg	ND	0.5	3.40	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		113		103		118		114		118		115	
d8-Toluene		95		96		93		93		94		93	
p-Bromofluorobenzene		88		90		89		84		87		87	

Sample ID. No.		RDC-40											
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	2.06	0.5	8.16	0.5	8.23	0.5	1.53	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	1.24	0.5	1.75	0.5	1.71	0.5	2.79	0.5	1.46	0.5	4.30	0.5
Toluene	ug/Kg	5.76	0.5	8.81	0.5	7.19	0.5	6.60	0.5	5.51	0.5	19.8	0.5
Ethylbenzene	ug/Kg	2.44	0.5	1.76	0.5	1.35	0.5	1.50	0.5	0.97	0.5	5.32	0.5
m/p-Xylene	ug/Kg	9.66	0.5	6.31	0.5	4.77	0.5	5.61	0.5	3.29	0.5	20.9	0.5
o-Xylene	ug/Kg	4.45	0.5	3.09	0.5	2.39	0.5	2.40	0.5	1.59	0.5	8.60	0.5
1,2,4-Trimethylbenzene	ug/Kg	8.12	0.5	3.67	0.5	2.57	0.5	2.96	0.5	2.02	0.5	9.44	0.5
Naphthalene	ug/Kg	5.66	0.5	ND	0.5	ND	0.5	2.79	0.5	ND	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	0.50	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		100		112		128		92		106		127	
d8-Toluene		97		92		90		98		93		93	
p-Bromofluorobenzene		101		88		89		94		82		93	

Sample ID. No.		RDC-41											
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12		12-14		14-16	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	3.32	0.5	6.32	0.5	39.5	0.5	19.5	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	ND	0.5	1.83	0.5	14.2	0.5	1.55	0.5	150	0.5	11.6	0.5
Toluene	ug/Kg	ND	0.5	8.86	0.5	4.60	0.5	3.06	0.5	9.36	0.5	1.87	0.5
Ethylbenzene	ug/Kg	ND	0.5	1.62	0.5	0.90	0.5	1.40	0.5	8.04	0.5	2.51	0.5
m/p-Xylene	ug/Kg	ND	0.5	5.74	0.5	3.43	0.5	1.65	0.5	7.17	0.5	3.30	0.5
o-Xylene	ug/Kg	ND	0.5	2.64	0.5	1.92	0.5	ND	0.5	2.34	0.5	0.82	0.5
1,2,4-Trimethylbenzene	ug/Kg	ND	0.5	2.35	0.5	1.38	0.5	ND	0.5	2.03	0.5	2.38	0.5
Naphthalene	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5	0.77	0.5	0.52	0.5
% Surrogate Recovery													
1,2-Dichloroethane-d4		128		123		120		123		112		119	
d8-Toluene		91		92		90		91		91		94	
p-Bromofluorobenzene		79		86		82		80		81		85	

Sample ID. No.		RDC-42							
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	0.5	ND	0.5	ND	0.5	1.79	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	ND	0.5	1.38	0.5	2.33	0.5	ND	0.5
Toluene	ug/Kg	0.77	0.5	6.05	0.5	10.5	0.5	0.86	0.5
Ethylbenzene	ug/Kg	0.73	0.5	1.35	0.5	4.14	0.5	ND	0.5
m/p-Xylene	ug/Kg	6.42	0.5	5.60	0.5	18.0	0.5	2.25	0.5
o-Xylene	ug/Kg	1.61	0.5	2.11	0.5	4.58	0.5	ND	0.5
1,2,4-Trimethylbenzene	ug/Kg	5.00	0.5	5.28	0.5	9.05	0.5	2.03	0.5
Naphthalene	ug/Kg	ND	0.5	ND	0.5	1.80	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		120		140		113		126	
d8-Toluene		97		94		95		94	
p-Bromofluorobenzene		93		85		90		88	

Sample ID. No.		RDC-43							
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	0.77	0.5	ND	0.5	2.43	0.5	24.0	0.5
1,2-Dichloroethane	ug/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	1.53	0.5	2.27	0.5	3.54	0.5	11.9	0.5
Toluene	ug/Kg	12.1	0.5	9.49	0.5	38.4	0.5	6.70	0.5
Ethylbenzene	ug/Kg	4.09	0.5	2.29	0.5	8.16	0.5	6.00	0.5
m/p-Xylene	ug/Kg	14.6	0.5	8.39	0.5	32.4	0.5	24.1	0.5
o-Xylene	ug/Kg	6.93	0.5	3.62	0.5	15.1	0.5	4.26	0.5
1,2,4-Trimethylbenzene	ug/Kg	9.04	0.5	5.03	0.5	11.3	0.5	13.3	0.5
Naphthalene	ug/Kg	2.28	0.5	ND	0.5	ND	0.5	ND	0.5
TVPH	mg/Kg	ND	0.5	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		94		120		118		111	
d8-Toluene		99		92		95		94	
p-Bromofluorobenzene		93		89		89		88	

Sample ID. No.		RDC-44							
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	26.7	10	7.61	0.5	5.39	0.5	3.38	0.5
1,2-Dichloroethane	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	54.1	10	161	0.5	144	0.5	3.06	0.5
Toluene	ug/Kg	1480	10	23.0	0.5	734	10	28.4	0.5
Ethylbenzene	ug/Kg	777	10	6.51	0.5	381	0.5	6.73	0.5
m/p-Xylene	ug/Kg	3040	10	25.6	0.5	1040	10	21.8	0.5
o-Xylene	ug/Kg	1380	10	12.7	0.5	496	0.5	7.43	0.5
1,2,4-Trimethylbenzene	ug/Kg	2380	10	11.1	0.5	478	0.5	12.0	0.5
Naphthalene	ug/Kg	228	10	2.28	0.5	24.8	0.5	1.22	0.5
TVPH	mg/Kg	14.8	10	0.55	0.5	12.0	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		90		117		100		93	
d8-Toluene		102		92		107		100	
p-Bromofluorobenzene		104		91		100		92	

Sample ID. No.		RDC-45							
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	25	ND	100	ND	10	ND	0.5
MTBE	ug/Kg	ND	25	ND	100	ND	10	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	25	ND	100	ND	10	ND	0.5
Benzene	ug/Kg	632	25	3410	100	617	10	1.91	0.5
Toluene	ug/Kg	16700	25	35300	100	26400	50	11.1	0.5
Ethylbenzene	ug/Kg	9230	25	12300	100	8940	10	2.90	0.5
m/p-Xylene	ug/Kg	32000	25	37300	100	38600	50	10.9	0.5
o-Xylene	ug/Kg	12500	25	15600	100	10500	10	5.50	0.5
1,2,4-Trimethylbenzene	ug/Kg	18200	25	19200	100	22400	50	9.31	0.5
Naphthalene	ug/Kg	1720	25	1150	100	1300	10	3.53	0.5
TVPH	mg/Kg	416	25	576	100	475	50	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		103		107		121		125	
d8-Toluene		110		99		118		92	
p-Bromofluorobenzene		110		96		113		89	

Sample ID. No.		RDC-46									
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-9		09-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	50	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	50	ND	10	1.24	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	50	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	851	50	ND	10	7.62	0.5	3.94	0.5	1.75	0.5
Toluene	ug/Kg	18700	50	196	10	59.3	0.5	34.7	0.5	9.95	0.5
Ethylbenzene	ug/Kg	9520	50	678	10	12.0	0.5	5.51	0.5	2.39	0.5
m/p-Xylene	ug/Kg	34200	50	2660	10	45.7	0.5	18.9	0.5	8.91	0.5
o-Xylene	ug/Kg	14500	50	1510	10	26.8	0.5	9.04	0.5	4.02	0.5
1,2,4-Trimethylbenzene	ug/Kg	21800	50	4150	10	55.6	0.5	7.47	0.5	6.32	0.5
Naphthalene	ug/Kg	1910	50	479	10	20.2	0.5	2.73	0.5	ND	0.5
TVPH	mg/Kg	519	50	85.2	10	ND	0.5	ND	0.5	ND	0.5
% Surrogate Recovery											
1,2-Dichloroethane-d4		95		118		87		88		119	
d8-Toluene		108		99		99		100		94	
p-Bromofluorobenzene		104		102		98		95		88	

Sample ID. No.		RDC-47							
Date Sampled		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
Sample Depth (ft)		04-6		06-8		08-10		10-12	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
1,2-Dichloroethane	ug/Kg	ND	10	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/Kg	105	10	1.96	0.5	ND	0.5	ND	0.5
Toluene	ug/Kg	1820	10	7.48	0.5	5.57	0.5	ND	0.5
Ethylbenzene	ug/Kg	1650	10	2.51	0.5	1.66	0.5	0.48	0.5
m/p-Xylene	ug/Kg	5030	10	9.13	0.5	5.86	0.5	1.56	0.5
o-Xylene	ug/Kg	2060	10	4.51	0.5	2.77	0.5	ND	0.5
1,2,4-Trimethylbenzene	ug/Kg	4160	10	15.0	0.5	4.25	0.5	2.28	0.5
Naphthalene	ug/Kg	265	10	13.6	0.5	2.77	0.5	ND	0.5
TVPH	mg/Kg	135	10	0.56	0.5	ND	0.5	ND	0.5
% Surrogate Recovery									
1,2-Dichloroethane-d4		114		125		122		125	
d8-Toluene		101		98		95		93	
p-Bromofluorobenzene		103		93		87		86	

Sample ID.		MW-02		MW-03		MW-06		MW-7		MW-12		MW-13		MW-15	
Date Sampled		10/21/2020		10/20/2020		10/22/2020		10/23/2020		10/20/2020		10/24/2020		10/21/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	25	ND	0.5	ND	10	ND	50	ND	5	ND	5	ND	5
MTBE	ug/L	453	25	ND	0.5	2210	10	ND	50	12.8	5	ND	5	9.60	5
1,2-Dichloroethane	ug/L	ND	25	ND	0.5	ND	10	ND	50	ND	5	ND	5	ND	5
Benzene	ug/L	9430	25	5.98	0.5	17100	50	7430	50	1060	5	78.9	5	1750	5
Toluene	ug/L	19200	25	1.47	0.5	25800	50	30600	50	21.4	5	37.4	5	2900	5
Ethylbenzene	ug/L	1410	25	ND	0.5	2170	10	2470	50	96.1	5	1600	5	420	5
m/p-Xylene	ug/L	4030	25	2.58	0.5	5580	10	8230	50	37.4	5	3120	5	1150	5
o-Xylene	ug/L	2130	25	1.26	0.5	3100	10	4000	50	ND	5	1110	5	623	5
1,2,4-Trimethylbenzene	ug/L	602	25	1.91	0.5	1210	10	1260	50	ND	5	1410	5	268	5
Naphthalene	ug/L	134	25	0.78	0.5	247	10	250	50	7.44	5	614	5	47.5	5
TVPH	mg/L	119	25	0.90	0.5	181	10	65.1	50	16.9	5	17.9	5	27.6	5
% Surrogate Recovery															
1,2-Dichloroethane-d4		144		100		116		120		104		127		111	
d8-Toluene		98		99		100		101		97		95		99	
p-Bromofluorobenzene		106		98		96		103		100		108		97	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	0.52	0.2	ND	0.2	ND	0.2
Acetate	mg/L	3.48	0.2	ND	0.2	4.16	0.2	ND	0.2	0.34	0.2	ND	0.2	1.17	0.2
Propionate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Formate/Isobutyrate	mg/L	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Chloride	mg/L	23.8	0.2	252	2	29.6	0.2	28.6	0.2	44.4	0.2	43.2	0.2	15.0	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfate	mg/L	1.49	0.2	184	2	1.87	0.2	13.8	0.2	4.72	0.2	2.65	0.2	9.44	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	0.41	0.2	ND	0.2	0.29	0.2	ND	0.2	ND	0.2	0.58	0.2	1.52	0.2
Methane	ug/L	756	20	95.9	20	1480	20	201	20	10800	20	4640	20	275	20
Ethane	ug/L	6.50	2	ND	2	18.1	2	ND	2	7.24	2	ND	2	ND	2
Ethylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Propane	ug/L	79.6	2	ND	2	201	2	17.9	2	ND	2	ND	2	5.90	2
Propylene	ug/L	25.2	2	ND	2	48.7	2	ND	2	ND	2	ND	2	ND	2
Isobutane	ug/L	655	2	35.3	2	735	20	277	2	9.01	2	7.45	2	122	2
n-Butane	ug/L	1680	20	22.3	2	2750	20	1540	10	50.9	2	13.4	2	343	2
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	449	2	ND	2	1010	20	185	2	ND	2	ND	2	93.5	2
1-Butene	ug/L	150	2	ND	2	330	2	53.1	2	2.75	2	ND	2	36.1	2
Isobutylene	ug/L	69.2	2	24.8	2	87.6	2	3.03	2	9.74	2	ND	2	85.2	2
cis-2-Butene	ug/L	459	2	ND	2	775	20	173	2	ND	2	ND	2	112	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	152	2	268	2	348	2	268	2	335	2	294	2	132	2

Sample ID.		MW-29		MW-32		MW-33		RW-01		RW-02		RW-03		RW-04	
Date Sampled		10/23/2020		10/20/2020		10/20/2020		10/21/2020		10/21/2020		10/20/2020		10/21/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	0.5	ND	0.5	ND	10	ND	50	ND	100	ND	5	ND	0.5
MTBE	ug/L	98.1	0.5	8.34	0.5	278	10	1320	50	1880	100	206	5	ND	0.5
1,2-Dichloroethane	ug/L	ND	0.5	ND	0.5	ND	10	ND	50	ND	100	ND	5	ND	0.5
Benzene	ug/L	149	0.5	338	0.5	8660	10	17600	50	23900	100	13600	50	2.45	0.5
Toluene	ug/L	ND	0.5	2.39	0.5	19600	50	42400	50	68000	100	39800	50	0.78	0.5
Ethylbenzene	ug/L	ND	0.5	5.19	0.5	1660	10	2150	50	5420	100	2840	5	0.65	0.5
m/p-Xylene	ug/L	ND	0.5	10.4	0.5	3990	10	6620	50	19200	100	10100	50	1.16	0.5
o-Xylene	ug/L	ND	0.5	4.82	0.5	2700	10	3360	50	9200	100	4830	5	ND	0.5
1,2,4-Trimethylbenzene	ug/L	ND	0.5	0.85	0.5	915	10	988	50	3720	100	1690	5	ND	0.5
Naphthalene	ug/L	ND	0.5	0.51	0.5	192	10	188	50	709	100	391	5	ND	0.5
TVPH	mg/L	0.56	0.5	3.13	0.5	94.7	10	216	50	934	100	150	5	0.88	0.5
% Surrogate Recovery															
1,2-Dichloroethane-d4		120		98		111		129		124		103		127	
d8-Toluene		104		97		100		100		101		100		99	
p-Bromofluorobenzene		102		98		104		103		108		100		106	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	ND	0.2	ND	0.2	0.84	0.2	252	4	960	20	5.66	0.2	0.25	0.2
Propionate	mg/L	ND	0.2	ND	0.2	ND	0.2	3.51	0.2	ND	0.2	ND	0.2	ND	0.2
Formate/Isobutyrate	mg/L	ND	0.4	ND	0.4	ND	0.4	10.6	0.4	30.7	0.4	ND	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	197	4	262	20	0.20	0.2	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Chloride	mg/L	27.3	0.2	84.0	0.4	73.2	0.4	17.1	0.2	111	20	73.1	0.4	7.27	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	0.52	0.2	8.18	0.2	0.25	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	ND	0.2	2.24	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	0.33	0.2
Sulfate	mg/L	35.5	0.2	7.83	0.2	14.8	0.2	ND	0.2	1.56	0.2	9.24	0.2	9.27	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	0.62	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	182	20	1230	20	508	20	11000	20	17500	40	1490	20	345	20
Ethane	ug/L	ND	2	ND	2	3.40	2	19.4	2	ND	2	4.56	2	ND	2
Ethylene	ug/L	ND	2	ND	2	ND	2	25.7	2	ND	2	2.46	2	ND	2
Propane	ug/L	2.81	2	2.90	2	42.7	2	176	2	180	2	64.5	2	ND	2
Propylene	ug/L	ND	2	ND	2	13.6	2	58.4	2	12.3	2	16.2	2	ND	2
Isobutane	ug/L	18.2	2	28.9	2	451	2	730	2	42.4	2	581	2	83.5	2
n-Butane	ug/L	31.1	2	159	2	1350	10	1540	10	384	2	1900	20	27.0	2
Acetylene	ug/L	ND	2	3.09	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	ND	2	ND	2	425	2	1100	10	227	2	388	20	ND	2
1-Butene	ug/L	ND	2	ND	2	131	2	463	2	63.7	2	208	2	ND	2
Isobutylene	ug/L	ND	2	ND	2	175	2	250	2	59.9	2	144	2	58.2	2
cis-2-Butene	ug/L	ND	2	44.0	2	396	2	942	10	237	2	378	20	54.0	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	220	2	212	2	225	2	169	2	ND	2	251	2	121	2

Sample ID.		RW-05		RW-06		RW-07		RW-08		RW-09		RW-10		RW-11	
Date Sampled		10/22/2020		10/22/2020		10/20/2020		10/22/2020		10/22/2020		10/23/2020		10/23/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	50	ND	10	ND	5	ND	10	12.8	10	ND	50	ND	250
MTBE	ug/L	1960	50	994	10	429	5	136	10	2440	10	436	50	ND	250
1,2-Dichloroethane	ug/L	ND	50	ND	10	ND	5	ND	10	ND	10	ND	50	ND	250
Benzene	ug/L	18100	50	17700	50	18700	50	3400	10	14500	50	18200	50	23500	250
Toluene	ug/L	29100	50	32900	50	44200	50	6880	10	36300	50	38500	50	204000	250
Ethylbenzene	ug/L	2310	50	2350	10	2640	5	894	10	2480	10	2520	50	33600	250
m/p-Xylene	ug/L	6500	50	7920	10	10900	50	2950	10	8320	10	7140	50	119000	250
o-Xylene	ug/L	3530	50	3920	10	5160	5	1400	10	4160	10	3840	50	50600	250
1,2,4-Trimethylbenzene	ug/L	1180	50	1360	10	1740	5	685	10	1710	10	1120	50	55600	250
Naphthalene	ug/L	250	50	331	10	404	5	140	10	400	10	170	50	6710	250
TVPH	mg/L	179	50	179	10	179	5	48.1	10	157	10	119	50	1470	250
% Surrogate Recovery															
1,2-Dichloroethane-d4		107		102		98		108		105		87		103	
d8-Toluene		98		100		100		97		101		98		143	
p-Bromofluorobenzene		101		103		101		104		102		93		100	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	NA	0.2
Acetate	mg/L	ND	0.2	41.5	0.2	2.01	0.2	0.46	0.2	1730	40	2.47	0.2	NA	0.2
Propionate	mg/L	ND	0.2	1.11	0.2	0.21	0.2	ND	0.2	ND	40	ND	0.2	NA	0.2
Formate/Isobutyrate	mg/L	ND	0.4	0.63	0.4	ND	0.4	ND	0.4	106	80	ND	0.4	NA	0.4
Butyrate	mg/L	ND	0.2	0.69	0.2	ND	0.2	ND	0.2	162	40	ND	0.2	NA	0.2
Pyruvate	mg/L	ND	0.2	1.20	0.2	ND	0.2	ND	0.2	ND	40	ND	0.2	NA	0.2
Chloride	mg/L	46.2	0.2	28.9	0.2	23.3	0.2	31.7	0.2	24.5	0.2	28.9	0.2	NA	0.2
Nitrite	mg/L	ND	0.2	0.33	0.2	ND	0.2	ND	0.2	10.3	0.2	ND	0.2	NA	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	NA	1
Nitrate	mg/L	1.84	0.2	ND	0.2	ND	0.2	2.11	0.2	ND	0.2	ND	0.2	NA	0.2
Sulfate	mg/L	4.42	0.2	38.4	0.2	8.04	0.2	8.65	0.2	1.71	0.2	25.8	0.2	NA	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	NA	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	ND	0.2	0.32	0.2	ND	0.2	ND	0.2	NA	0.2
Methane	ug/L	2900	20	2860	20	3210	20	5570	20	34600	100	649	20	NA	20
Ethane	ug/L	19.1	2	5.34	2	11.7	2	4.35	2	ND	2	2.28	2	NA	2
Ethylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	NA	2
Propane	ug/L	231	2	89.3	2	153	2	18.8	2	371	2	61.5	2	NA	2
Propylene	ug/L	65.6	2	43.7	2	76.7	2	2.55	2	4.67	2	15.8	2	NA	2
Isobutane	ug/L	1070	20	555	20	501	20	124	2	45.6	2	578	20	NA	2
n-Butane	ug/L	4660	20	4110	20	2920	20	742	10	284	2	3340	20	NA	2
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	NA	2
t-2-Butene	ug/L	1210	20	758	20	523	20	87.4	2	145	2	763	20	NA	2
1-Butene	ug/L	512	2	297	2	285	2	13.8	2	143	2	147	2	NA	2
Isobutylene	ug/L	269	2	99.3	2	359	2	37.6	2	60.0	2	43.7	2	NA	2
cis-2-Butene	ug/L	978	20	702	20	521	2	98.1	2	232	2	551	20	NA	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	NA	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	NA	2
Carbon Dioxide	mg/L	411	2	248	2	247	2	438	2	74.8	2	287	2	NA	2

Sample ID.		RW-12		RDC-02S		RDC-02D		RDC-05S		RDC-07S		RDC-07D		RDC-08S	
Date Sampled		10/23/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/20/2020		10/21/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	10	ND	0.5	ND	5	ND	5	ND	25	ND	100	ND	25
MTBE	ug/L	152	10	13.8	0.5	55.0	5	38.1	5	773	25	2500	100	1340	25
1,2-Dichloroethane	ug/L	ND	10	ND	0.5	ND	5	ND	5	ND	25	ND	100	ND	25
Benzene	ug/L	5100	10	1050	5	3170	5	8560	50	24500	25	19000	100	17100	25
Toluene	ug/L	7820	10	2020	5	922	5	30900	50	56200	100	52100	100	57200	50
Ethylbenzene	ug/L	918	10	326	0.5	907	5	2890	5	3720	25	3000	100	3800	25
m/p-Xylene	ug/L	4010	10	988	5	4430	5	9840	50	11100	25	8160	100	13600	25
o-Xylene	ug/L	2690	10	356	0.5	225	5	4670	5	5440	25	4090	100	6290	25
1,2,4-Trimethylbenzene	ug/L	565	10	293	0.5	800	5	2040	5	1710	25	1220	100	2300	25
Naphthalene	ug/L	57.7	10	42.8	0.5	141	5	415	5	507	25	326	100	357	25
TVPH	mg/L	38.5	10	12.4	0.5	25.9	5	134	5	387	25	521	100	224	25
% Surrogate Recovery															
1,2-Dichloroethane-d4		110		99		112		107		107		104		126	
d8-Toluene		91		98		99		101		100		99		102	
p-Bromofluorobenzene		98		102		104		99		100		103		108	
Lactate	mg/L	ND	0.2	0.57	0.2	0.52	0.2	0.30	0.2	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	ND	0.2	3.70	0.2	ND	0.2	0.74	0.2	525	20	525	20	3.54	0.2
Propionate	mg/L	ND	0.2	ND	0.2	0.34	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Formate/Isobutyrate	mg/L	ND	0.4	4.63	0.4	ND	0.4	0.66	0.4	15.6	0.4	49.1	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	124	0.2	331	20	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	12.5	0.2	0.62	0.2	ND	0.2
Chloride	mg/L	15.5	0.2	19.2	0.2	15.3	0.2	48.8	0.2	54.2	0.2	29.1	0.2	41.7	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	5.98	0.2	19.3	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	ND	0.2	0.70	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfate	mg/L	111	0.4	20.6	0.2	2.89	0.2	10.7	0.2	15.2	0.2	5.76	0.2	24.2	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	0.44	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	48.9	20	46.4	20	9800	20	894	20	8480	20	13000	20	594	20
Ethane	ug/L	ND	2	2.15	2	10.8	2	2.12	2	7.22	2	6.80	2	5.91	2
Ethylene	ug/L	ND	2	2.77	2	ND	2	ND	2	8.47	2	10.8	2	4.75	2
Propane	ug/L	4.55	2	ND	2	27.9	2	25.3	2	82.5	2	53.1	2	55.2	2
Propylene	ug/L	ND	2	ND	2	2.43	2	5.55	2	45.6	2	42.0	2	32.1	2
Isobutane	ug/L	40.2	2	49.7	2	22.8	2	368	2	492	20	331	2	485	20
n-Butane	ug/L	288	2	17.4	2	109	2	1320	10	2990	20	488	4	3070	20
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	28.9	2	ND	2	51.5	2	289	2	523	20	489	4	571	2
1-Butene	ug/L	5.87	2	ND	2	4.42	2	77.2	2	249	2	218	2	190	2
Isobutylene	ug/L	2.12	2	30.2	2	33.1	2	68.3	2	283	2	179	2	188	2
cis-2-Butene	ug/L	20.1	2	ND	2	37.8	2	286	2	549	20	488	4	590	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	95.6	2	54.3	2	328	2	229	2	18.8	2	46.4	2	280	2

Sample ID.		RDC-08D		RDC-09S		RDC-09D		RDC-12S		RDC-13S		RDC-13D		RDC-18S	
Date Sampled		10/21/2020		10/21/2020		10/21/2020		10/22/2020		10/21/2020		10/21/2020		10/22/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	25	ND	5	ND	25	ND	5	ND	50	ND	10	ND	50
MTBE	ug/L	1430	25	5.46	5	ND	25	306	5	547	50	607	10	881	50
1,2-Dichloroethane	ug/L	ND	25	ND	5	ND	25	ND	5	ND	50	ND	10	ND	50
Benzene	ug/L	17000	25	2420	5	1320	25	6440	25	20800	50	15300	25	14700	50
Toluene	ug/L	30400	25	11000	25	8940	25	8370	25	43400	50	18200	25	46200	50
Ethylbenzene	ug/L	2550	25	1960	5	1710	25	1190	5	3110	50	2150	10	3820	50
m/p-Xylene	ug/L	8430	25	5000	5	4340	25	3730	5	11100	50	7130	10	12000	50
o-Xylene	ug/L	3660	25	2970	5	2420	25	1350	5	5400	50	3080	10	5150	50
1,2,4-Trimethylbenzene	ug/L	1440	25	1550	5	1260	25	778	5	2020	50	1260	10	3250	50
Naphthalene	ug/L	246	25	300	5	246	25	126	5	386	50	357	10	443	50
TVPH	mg/L	154	25	64.3	5	81.5	25	55.4	5	239	50	115	10	434	50
% Surrogate Recovery															
1,2-Dichloroethane-d4		119		122		117		102		118		115		100	
d8-Toluene		103		100		99		99		101		98		98	
p-Bromofluorobenzene		107		107		104		103		101		102		94	
Lactate	mg/L	ND	0.2	ND	0.2	0.30	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	0.55	0.2	ND	0.2	ND	0.2	1.63	0.2	49.8	0.2	14.8	0.2	61.0	0.4
Propionate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	1.08	0.2	ND	0.2	1.18	0.2
Formate/Isobutyrate	mg/L	0.58	0.4	ND	0.4	ND	0.4	1.96	0.4	0.92	0.4	ND	0.4	1.23	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	1.48	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	1.15	0.2
Chloride	mg/L	37.4	0.2	404	4	361	4	30.1	0.2	21.3	0.2	25.8	0.2	39.2	0.2
Nitrite	mg/L	ND	0.2	1.14	0.2	1.14	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	0.60	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	1.62	0.2
Sulfate	mg/L	6.35	0.2	105	4	98.4	4	17.0	0.2	17.8	0.2	9.03	0.2	6.84	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	0.35	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	3560	20	276	20	180	20	1500	20	6020	20	10800	20	153	20
Ethane	ug/L	9.85	2	ND	2	ND	2	2.90	2	ND	2	5.72	2	ND	2
Ethylene	ug/L	3.73	2	ND	2	ND	2	3.90	2	ND	2	8.38	2	3.19	2
Propane	ug/L	84.1	2	2.31	2	2.44	2	15.9	2	66.2	2	84.3	2	51.8	2
Propylene	ug/L	38.5	2	ND	2	ND	2	6.31	2	16.6	2	24.1	2	12.0	2
Isobutane	ug/L	299	20	101	2	67.5	2	158	2	638	20	428	2	238	20
n-Butane	ug/L	1440	20	354	2	587	2	750	10	4410	20	1470	10	1130	20
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	532	2	75.6	2	71.0	2	119	2	685	2	301	2	403	20
1-Butene	ug/L	299	2	11.4	2	14.2	2	35.5	2	221	2	102	2	229	2
Isobutylene	ug/L	369	2	39.3	2	7.69	2	64.4	2	406	2	329	2	285	2
cis-2-Butene	ug/L	399	20	50.5	2	26.2	2	140	2	605	20	392	2	725	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	279	2	175	2	378	2	122	2	90.5	2	264	2	92.0	2

Sample ID.		RDC-18D		RDC-20S		RDC-20D		RDC-23S		RDC-23D		RDC-25S		RDC-25D	
Date Sampled		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020		10/22/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	61.6	50	ND	10	ND	0.5	ND	5	ND	10	ND	50	ND	10
MTBE	ug/L	1150	50	44.4	10	2.81	0.5	1050	5	1900	10	1040	50	356	10
1,2-Dichloroethane	ug/L	ND	50	ND	10	ND	0.5	ND	5	ND	10	ND	50	ND	10
Benzene	ug/L	18400	50	3040	10	282	0.5	5660	5	2230	10	16100	50	2290	10
Toluene	ug/L	45800	50	14600	10	558	0.5	23800	50	5710	10	42900	50	5500	10
Ethylbenzene	ug/L	2410	50	1810	10	160	0.5	2420	5	541	10	5000	50	727	10
m/p-Xylene	ug/L	7010	50	6830	10	657	0.5	11200	50	1870	10	17100	50	2470	10
o-Xylene	ug/L	3320	50	3320	10	161	0.5	4020	5	963	10	7660	50	1110	10
1,2,4-Trimethylbenzene	ug/L	1350	50	1720	10	169	0.5	2210	5	591	10	5800	50	691	10
Naphthalene	ug/L	207	50	285	10	52.7	0.5	402	5	107	10	967	50	117	10
TVPH	mg/L	324	50	78.3	10	11.7	0.5	156	5	44.3	10	580	50	64.7	10
% Surrogate Recovery															
1,2-Dichloroethane-d4		100		104		91		88		105		93		91	
d8-Toluene		99		100		99		100		101		97		100	
p-Bromofluorobenzene		94		103		94		94		103		96		96	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	68.5	0.4	1.26	0.2	ND	0.2	215	10	215	10	53.5	0.2	6.09	0.2
Propionate	mg/L	1.15	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	1.21	0.2	ND	0.2
Formate/Isobutyrate	mg/L	0.68	0.4	0.69	0.4	0.20	0.4	14.2	0.4	19.1	0.4	1.47	0.4	ND	0.4
Butyrate	mg/L	2.31	0.2	ND	0.2	ND	0.2	44.9	0.2	55.2	10	0.74	0.2	ND	0.2
Pyruvate	mg/L	1.26	0.2	ND	0.2	ND	0.2	0.32	0.2	0.88	0.2	0.79	0.2	ND	0.2
Chloride	mg/L	35.9	0.2	21.3	0.2	16.0	0.2	25.8	0.2	24.1	0.2	27.2	0.2	40.8	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	2.43	0.2	2.60	0.2	0.21	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	1.46	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfate	mg/L	4.00	0.2	18.2	0.2	8.02	0.2	12.6	0.2	10.3	0.2	27.7	0.2	24.8	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	1170	20	945	20	5620	20	3730	20	6970	20	1100	20	3760	20
Ethane	ug/L	21.1	2	ND	2	ND	2	3.45	2	3.92	2	20.5	2	ND	2
Ethylene	ug/L	ND	2	ND	2	ND	2	6.19	2	ND	2	ND	2	ND	2
Propane	ug/L	292	2	8.38	2	4.76	2	25.9	2	43.5	2	29.3	2	20.7	2
Propylene	ug/L	170	2	ND	2	33.6	2	3.37	2	28.7	2	17.4	2	3.62	2
Isobutane	ug/L	1060	20	348	2	51.7	2	161	2	304	2	485	2	286	2
n-Butane	ug/L	2910	20	524	10	337	2	939	10	546	2	3830	20	818	10
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	2320	2	89.8	2	12.6	2	166	2	99.3	2	674	2	204	2
1-Butene	ug/L	748	2	51.1	2	3.46	2	55.5	2	39.4	2	163	2	96.8	2
Isobutylene	ug/L	643	2	85.4	2	90.3	2	57.8	2	184	2	62.8	2	106	2
cis-2-Butene	ug/L	1450	20	135	2	68.7	2	143	2	158	2	595	2	192	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	266	2	106	2	158	2	225	2	490	2	301	2	440	2

Sample ID.		RDC-27S		RDC-27D		RDC-29S		RDC-29D		RDC-30S		RDC-30D		RDC-32S	
Date Sampled		10/22/2020		10/22/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020		10/23/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	50	ND	0.5	ND	10	ND	0.5	ND	10	ND	0.5	ND	25
MTBE	ug/L	268	50	1.02	0.5	14.6	10	1.47	0.5	ND	10	ND	0.5	302	25
1,2-Dichloroethane	ug/L	ND	50	ND	0.5	ND	10	ND	0.5	ND	10	ND	0.5	ND	25
Benzene	ug/L	15600	50	96.9	0.5	5630	10	572	0.5	1110	10	199	0.5	14500	25
Toluene	ug/L	46800	50	322	0.5	16400	25	3410	10	7240	10	663	0.5	30700	25
Ethylbenzene	ug/L	4790	50	77.2	0.5	2380	10	538	0.5	1430	10	184	0.5	10600	25
m/p-Xylene	ug/L	16000	50	227	0.5	8330	10	2540	10	4570	10	440	0.5	27300	25
o-Xylene	ug/L	7280	50	96.5	0.5	4360	10	1230	10	2270	10	248	0.5	13900	25
1,2,4-Trimethylbenzene	ug/L	4820	50	78.2	0.5	2070	10	766	10	1120	10	113	0.5	12500	25
Naphthalene	ug/L	897	50	12.0	0.5	389	10	136	0.5	228	10	30.3	0.5	1350	25
TVPH	mg/L	494	50	1.78	0.5	50.0	10	20.0	10	36.3	10	4.16	0.5	634	25
% Surrogate Recovery															
1,2-Dichloroethane-d4		92		120		107		95		118		109		109	
d8-Toluene		99		103		100		104		93		94		99	
p-Bromofluorobenzene		98		105		103		95		103		102		102	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	0.40	0.2	0.47	0.2	ND	0.2	0.59	0.2
Acetate	mg/L	2.27	0.2	ND	0.2	0.63	0.2	ND	0.2	0.32	0.2	0.31	0.2	0.59	0.2
Propionate	mg/L	0.29	0.2	ND	0.2	ND	0.2	ND	0.2	0.41	0.2	ND	0.2	0.64	0.2
Formate/Isobutyrate	mg/L	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Chloride	mg/L	21.5	0.2	11.5	0.2	19.9	0.2	10.1	0.2	20.3	0.2	17.4	0.2	16.8	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1.0
Nitrate	mg/L	0.22	0.2	0.44	0.2	ND	0.2	0.90	0.2	0.71	0.2	3.73	0.2	0.20	0.2
Sulfate	mg/L	39.1	0.2	36.4	0.2	19.3	0.2	30.1	0.2	64.0	0.2	41.6	0.2	109	1.0
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	13.8	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	339	20	62.8	20	122	20	43.6	20	ND	20	ND	20	422	20
Ethane	ug/L	2.99	2	ND	2	ND	2	2.02	2	ND	2	ND	2	2.86	2
Ethylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	2.21	2
Propane	ug/L	62.9	2	ND	2	9.85	2	2.08	2	ND	2	ND	2	20.2	2
Propylene	ug/L	19.5	2	ND	2	2.14	2	ND	2	ND	2	ND	2	6.25	2
Isobutane	ug/L	508	20	9.42	2	113	2	23.6	2	4.18	2	9.41	2	455	20
n-Butane	ug/L	3520	20	63.6	2	801	4	144	2	30.7	2	49.1	2	3890	20
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	673	2	2.62	2	110	2	14.5	2	5.81	2	5.82	2	363	2
1-Butene	ug/L	222	2	ND	2	30.9	2	4.44	2	ND	2	ND	2	103	2
Isobutylene	ug/L	98.5	2	ND	2	2.93	2	ND	2	ND	2	ND	2	78.3	2
cis-2-Butene	ug/L	713	2	2.33	2	109	2	13.9	2	5.96	2	5.86	2	357	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	180	2	149	2	246	2	148	2	60.4	2	185	2	129	2

Sample ID.		RDC-32D		RDC-35S		RDC-35D		RDC-39S		RDC-39D		RDC-42S		RDC-42D	
Date Sampled		10/23/2020		10/23/2020		10/23/2020		10/24/2020		10/24/2020		10/24/2020		10/24/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	25	ND	50	ND	5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
MTBE	ug/L	ND	25	202	50	134	5	102	0.5	123	0.5	ND	0.5	32.5	0.5
1,2-Dichloroethane	ug/L	ND	25	ND	50	ND	5	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Benzene	ug/L	1870	25	9840	50	754	5	37.7	0.5	97.0	0.5	ND	0.5	1.50	0.5
Toluene	ug/L	8350	25	23000	50	3690	5	24.4	0.5	25.8	0.5	0.56	0.5	0.80	0.5
Ethylbenzene	ug/L	1430	25	3340	50	1000	5	7.40	0.5	7.90	0.5	ND	0.5	ND	0.5
m/p-Xylene	ug/L	4830	25	9700	50	2870	5	28.0	0.5	27.7	0.5	ND	0.5	0.52	0.5
o-Xylene	ug/L	2150	25	4640	50	1350	5	12.3	0.5	11.9	0.5	ND	0.5	ND	0.5
1,2,4-Trimethylbenzene	ug/L	1130	25	3680	50	1010	5	12.2	0.5	12.6	0.5	ND	0.5	ND	0.5
Naphthalene	ug/L	239	25	180	50	168	5	2.01	0.5	1.48	0.5	ND	0.5	ND	0.5
TVPH	mg/L	45.2	25	213	50	39.8	5	ND	0.5	0.66	0.5	ND	0.5	ND	0.5
% Surrogate Recovery															
1,2-Dichloroethane-d4		111		114		102		115		106		128		123	
d8-Toluene		90		95		94		90		91		85		87	
p-Bromofluorobenzene		97		98		97		95		95		87		86	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	ND	0.2	1.06	0.2	ND	0.2	1.84	0.2	ND	0.2	ND	0.2	ND	0.2
Propionate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Formate/Isobutyrate	mg/L	ND	0.4	1.13	0.4	0.40	0.4	ND	0.4	ND	0.4	ND	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Chloride	mg/L	19.0	0.2	21.3	0.2	17.5	0.2	25.9	0.2	18.4	0.2	13.3	0.2	23.3	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Nitrate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfate	mg/L	7.76	0.2	94.8	0.4	28.7	0.2	113	0.4	35.9	0.2	40.7	0.2	44.4	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	3070	20	63.2	20	305	20	79.0	20	384	20	ND	20	82.3	20
Ethane	ug/L	2.87	2	3.66	2	ND	2	4.12	2	2.37	2	ND	2	2.55	2
Ethylene	ug/L	ND	2	3.28	2	ND	2	2.63	2	ND	2	ND	2	ND	2
Propane	ug/L	4.04	2	9.20	2	2.20	2	2.26	2	4.51	2	ND	2	ND	2
Propylene	ug/L	ND	2	4.33	2	ND	2	3.10	2	ND	2	ND	2	ND	2
Isobutane	ug/L	170	2	244	2	54.5	2	3.15	2	20.8	2	ND	2	ND	2
n-Butane	ug/L	1780	20	2420	20	428	2	10.9	2	60.1	2	ND	2	ND	2
Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
t-2-Butene	ug/L	73.9	2	209	2	20.2	2	4.57	2	11.9	2	ND	2	ND	2
1-Butene	ug/L	19.6	2	55.7	2	6.54	2	ND	2	3.33	2	ND	2	ND	2
Isobutylene	ug/L	14.3	2	30.9	2	5.23	2	ND	2	ND	2	ND	2	ND	2
cis-2-Butene	ug/L	68.4	2	208	2	18.4	2	2.86	2	5.63	2	ND	2	ND	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	292	2	149	2	269	2	104	2	198	2	72.4	2	183	2

Sample ID.		RDC-44S		RDC-44D		RDC-45D	
Date Sampled		10/24/2020		10/24/2020		10/24/2020	
	Units		Reporting Limit		Reporting Limit		Reporting Limit
Dimethyl Sulfide	ug/L	ND	25	ND	10	ND	10
MTBE	ug/L	214	25	162	10	ND	10
1,2-Dichloroethane	ug/L	ND	25	ND	10	ND	10
Benzene	ug/L	3870	25	2030	10	1920	10
Toluene	ug/L	14900	25	11600	10	10100	10
Ethylbenzene	ug/L	2550	25	1940	10	1180	10
m/p-Xylene	ug/L	9020	25	6630	10	3320	10
o-Xylene	ug/L	4480	25	2980	10	1570	10
1,2,4-Trimethylbenzene	ug/L	2060	25	1680	10	732	10
Naphthalene	ug/L	485	25	221	10	122	10
TVPH	mg/L	99.2	25	54.4	10	31.1	10
% Surrogate Recovery							
1,2-Dichloroethane-d4		123		83		83	
d8-Toluene		91		100		98	
p-Bromofluorobenzene		99		88		93	
Lactate	mg/L	ND	0.2	ND	0.2	ND	0.2
Acetate	mg/L	0.55	0.2	0.32	0.2	ND	0.2
Propionate	mg/L	ND	0.2	ND	0.2	ND	0.2
Formate/Isobutyrate	mg/L	0.85	0.4	0.62	0.4	ND	0.4
Butyrate	mg/L	ND	0.2	ND	0.2	ND	0.2
Pyruvate	mg/L	ND	0.2	ND	0.2	ND	0.2
Chloride	mg/L	19.0	0.2	17.5	0.2	15.7	0.2
Nitrite	mg/L	ND	0.2	ND	0.2	ND	0.2
Succinate	mg/L	ND	1	ND	1	ND	1
Nitrate	mg/L	ND	0.2	ND	0.2	ND	0.2
Sulfate	mg/L	49.0	0.2	36.1	0.2	16.0	0.2
Phosphate	mg/L	ND	0.2	ND	0.2	ND	0.2
Sulfide	mg/L	ND	0.2	ND	0.2	ND	0.2
Methane	ug/L	52.1	20	58.7	20	112	20
Ethane	ug/L	5.19	2	4.50	2	ND	2
Ethylene	ug/L	3.49	2	2.93	2	ND	2
Propane	ug/L	5.12	2	3.72	2	5.13	2
Propylene	ug/L	3.45	2	3.00	2	ND	2
Isobutane	ug/L	80.5	2	51.8	2	101	2
n-Butane	ug/L	814	4	528	4	565	4
Acetylene	ug/L	ND	2	ND	2	ND	2
t-2-Butene	ug/L	59.9	2	32.6	2	72.1	2
1-Butene	ug/L	16.2	2	9.34	2	19.5	2
Isobutylene	ug/L	4.45	2	2.51	2	8.15	2
cis-2-Butene	ug/L	56.2	2	32.8	2	59.1	2
1,3-Butadiene	ug/L	ND	2	ND	2	ND	2
Methyl Acetylene	ug/L	ND	2	ND	2	ND	2
Carbon Dioxide	mg/L	210	2	230	2	139	2

Figures

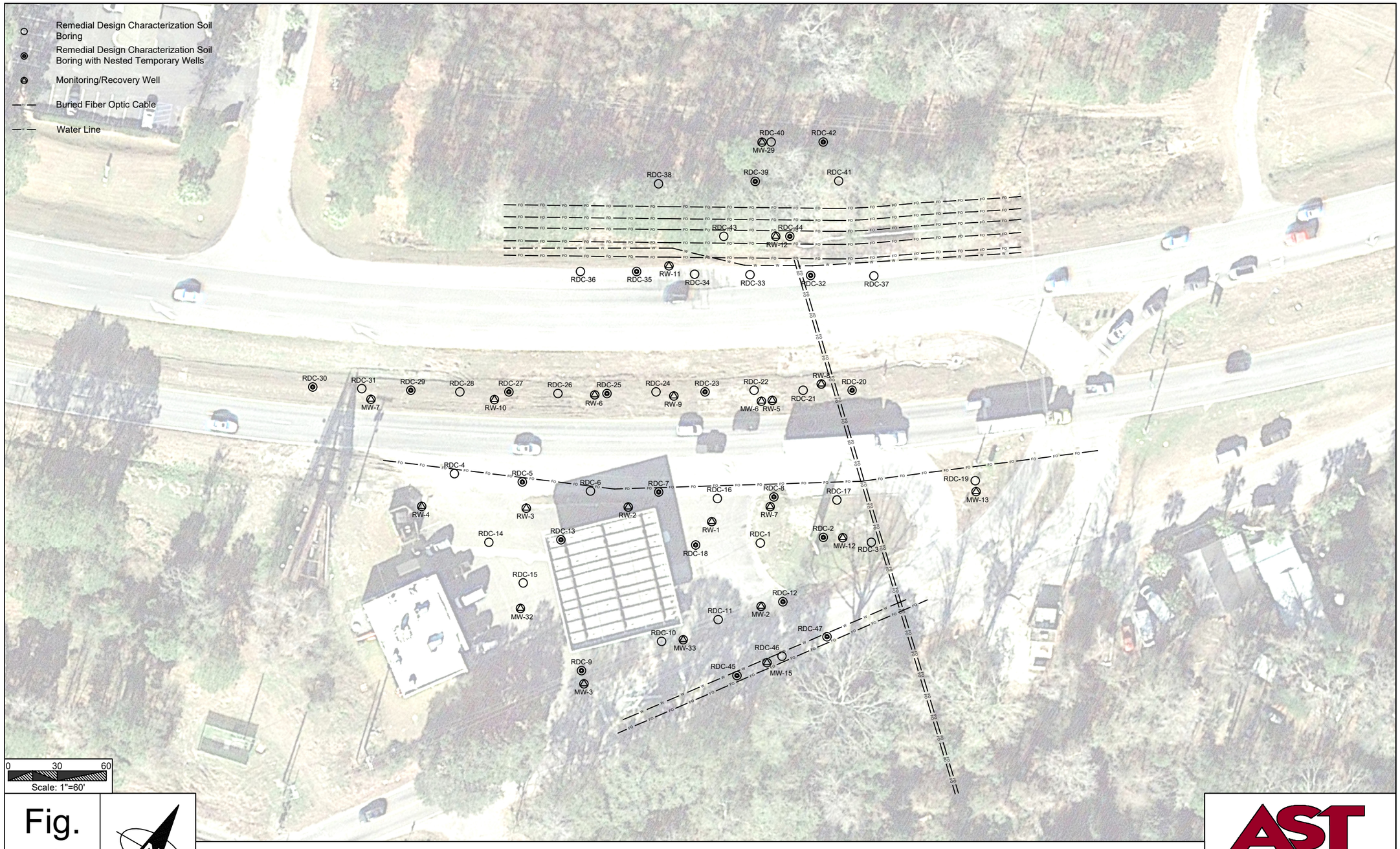


Fig. 1

Site Plan - Circle K #2720886

AST ENVIRONMENTAL, INC.

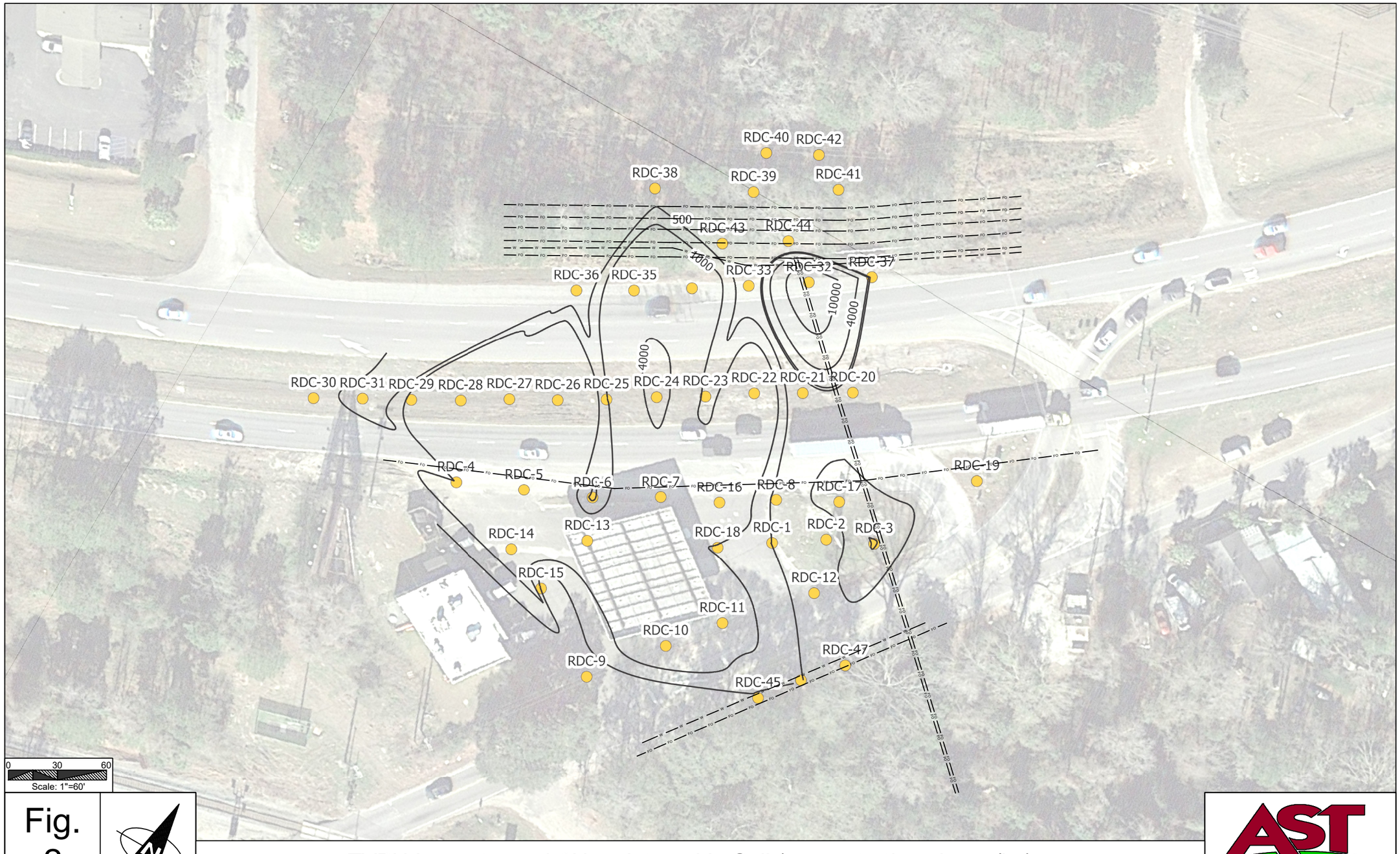


Fig. 2

TVPH Isocontours 4-6' bgs Interval In Soil (concentrations in mg/kg)

AST ENVIRONMENTAL, INC.

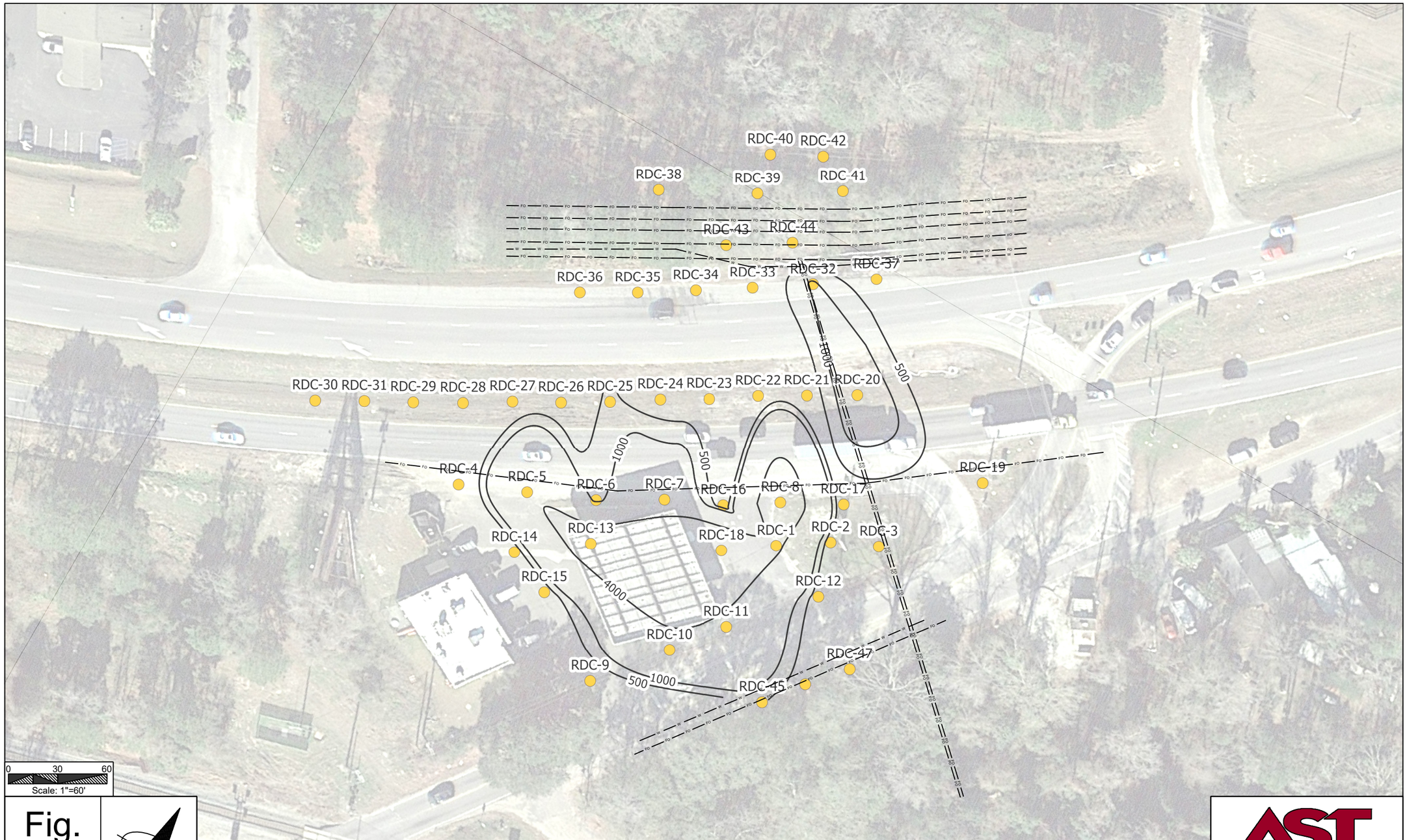


Fig. 3

TVPH Isocontours 6-8' bgs Interval in Soil (concentrations in mg/kg)

AST ENVIRONMENTAL, INC.

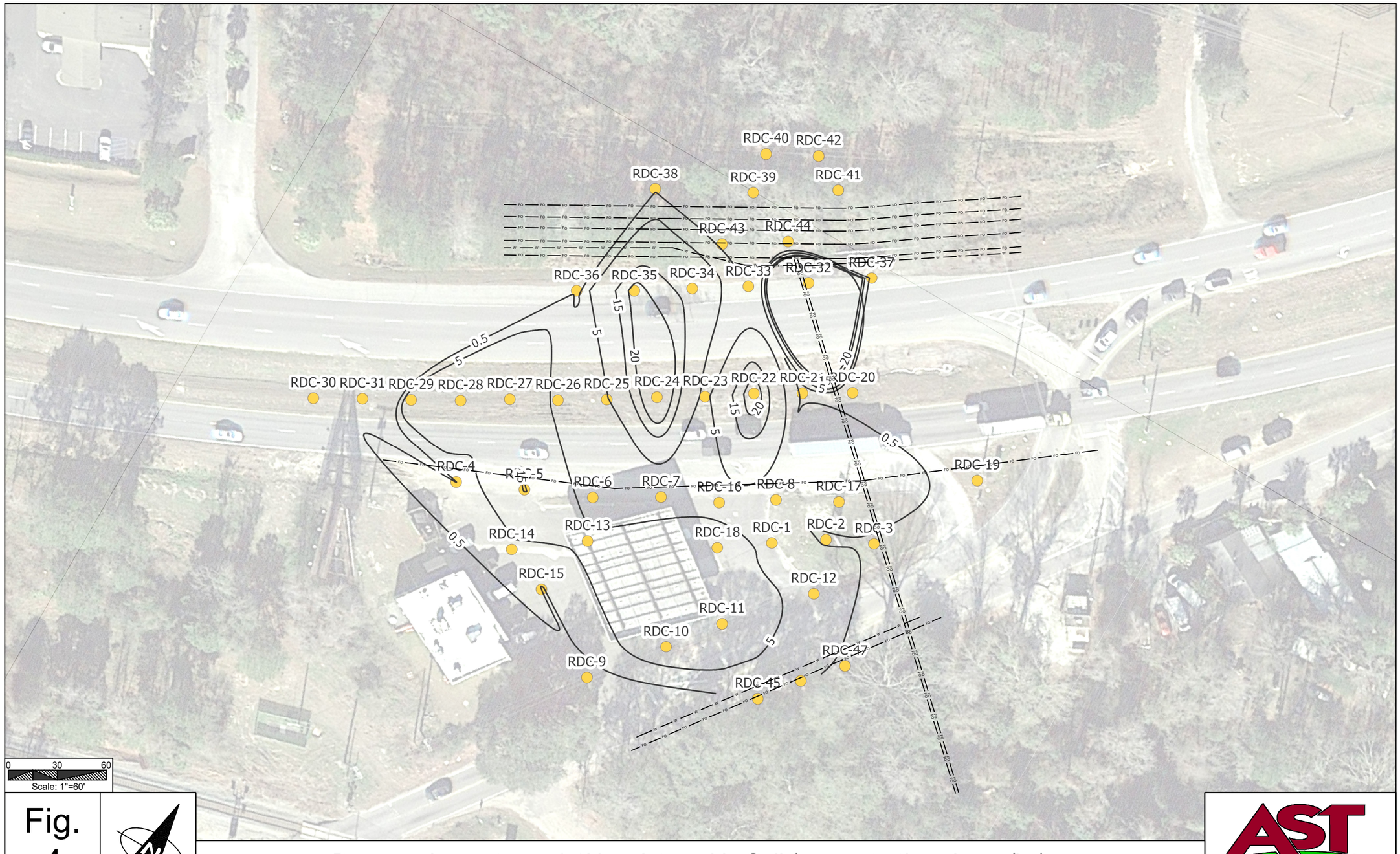


Fig. 4

Benzene Isocontours 4-6' bgs Interval in Soil (concentrations in mg/kg)

AST ENVIRONMENTAL, INC.

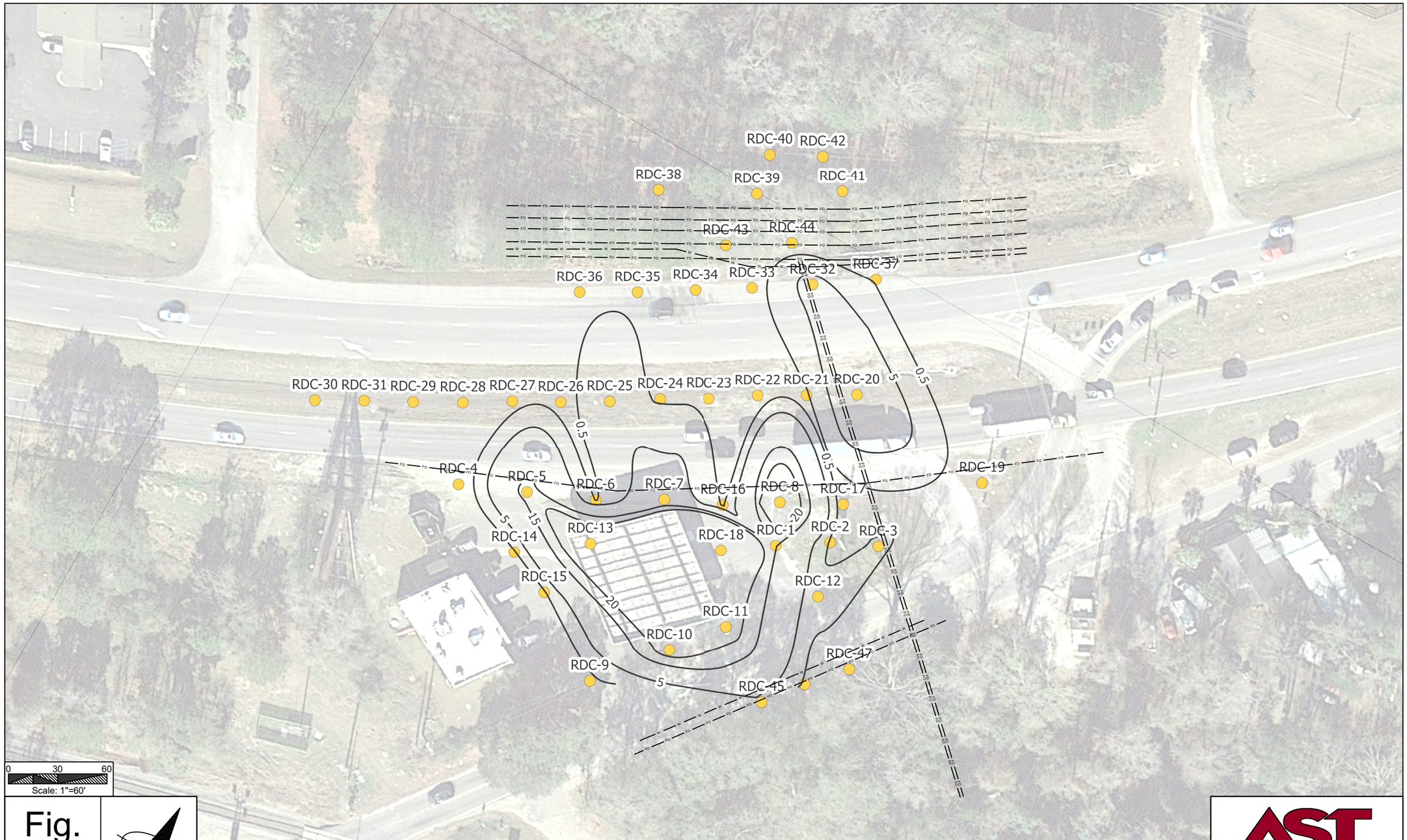


Fig. 5

Benzene Isocontours 6-8' bgs Interval in Soil (concentrations in mg/kg)

AST ENVIRONMENTAL, INC.

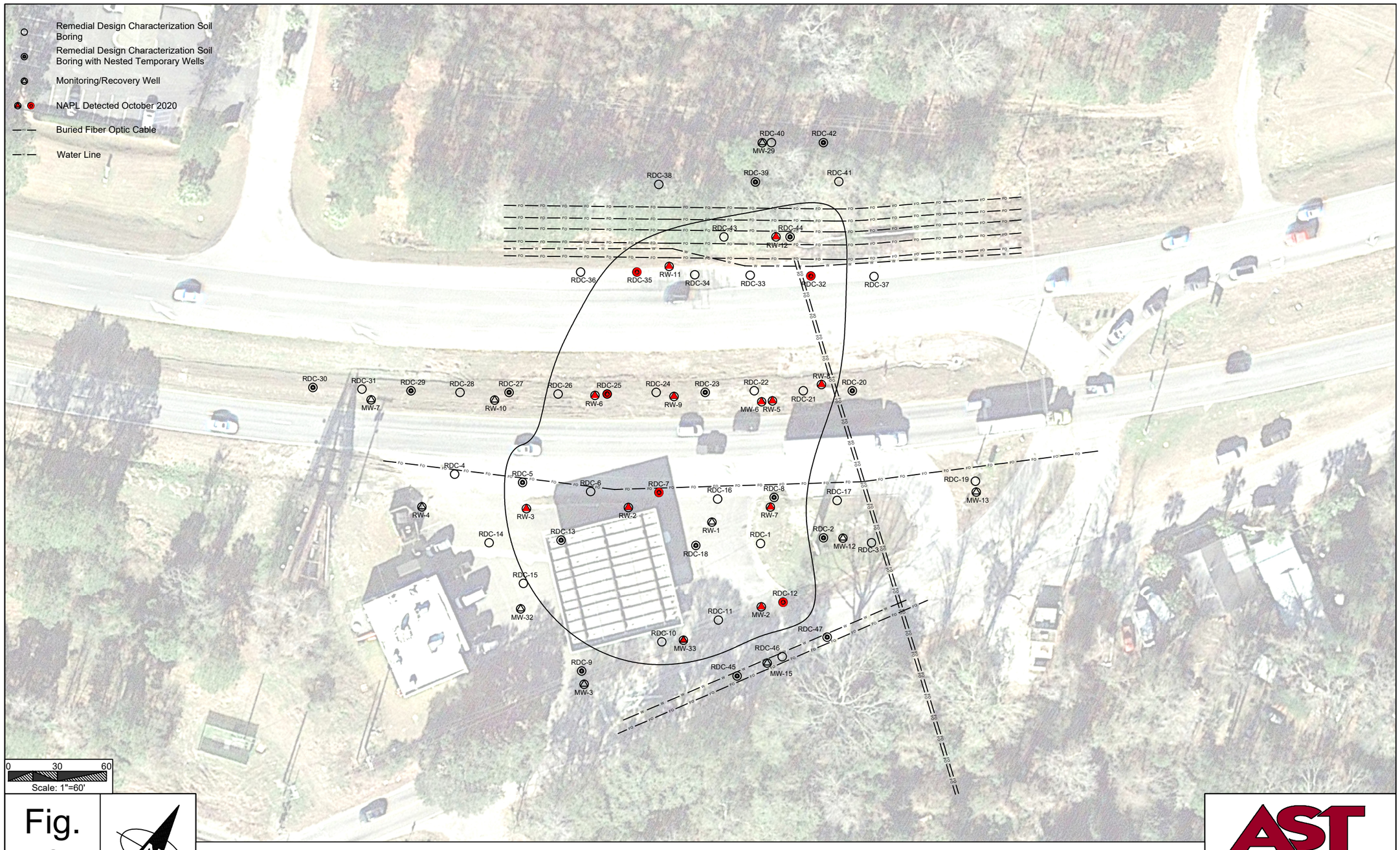


Fig. 6

LNAPL Gauging Data With Projected LNAPL Plume Boundary

AST ENVIRONMENTAL, INC.

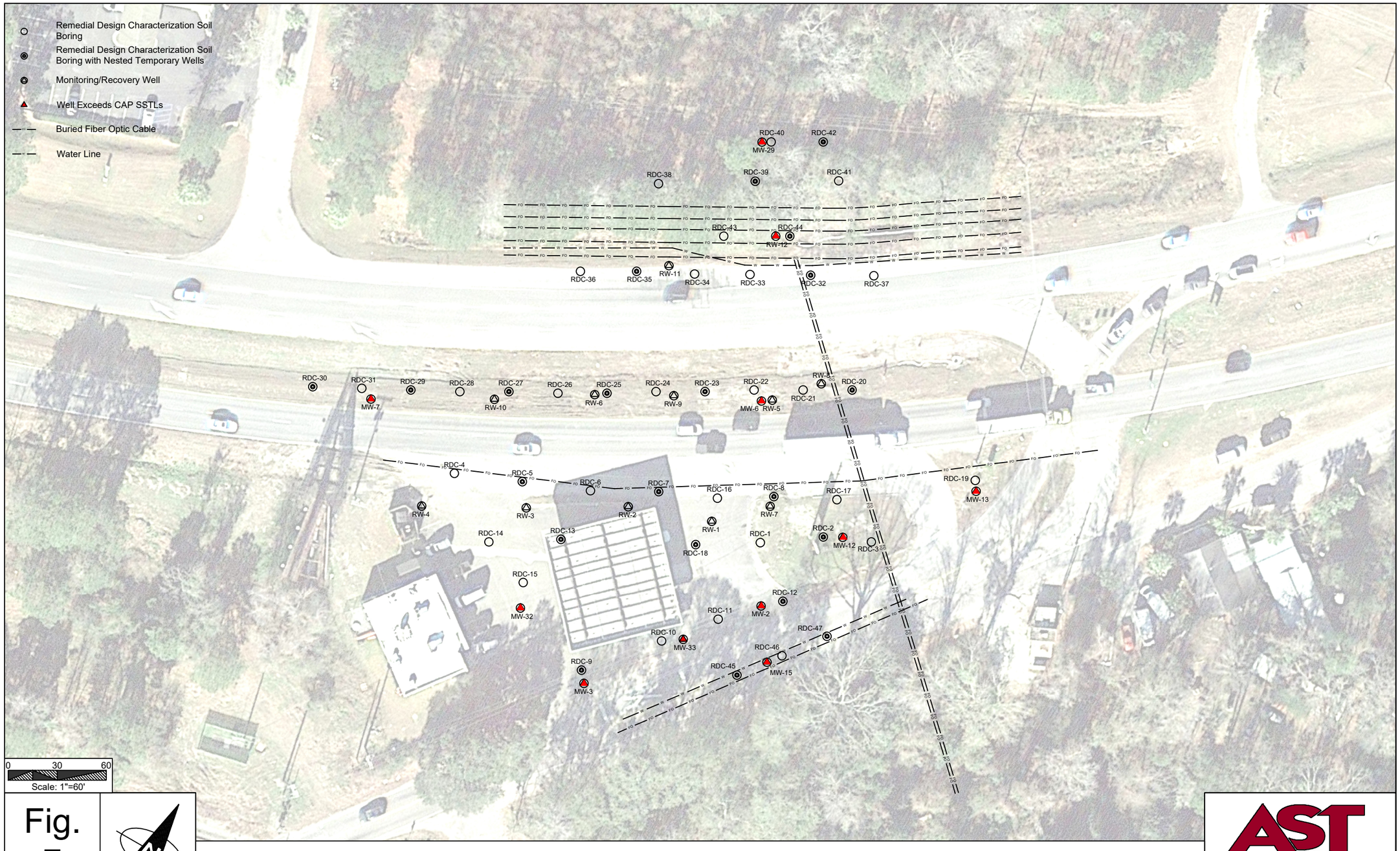


Fig. 7

Monitoring and Recovery Wells Exceeding CAP SSTLs

AST ENVIRONMENTAL, INC.

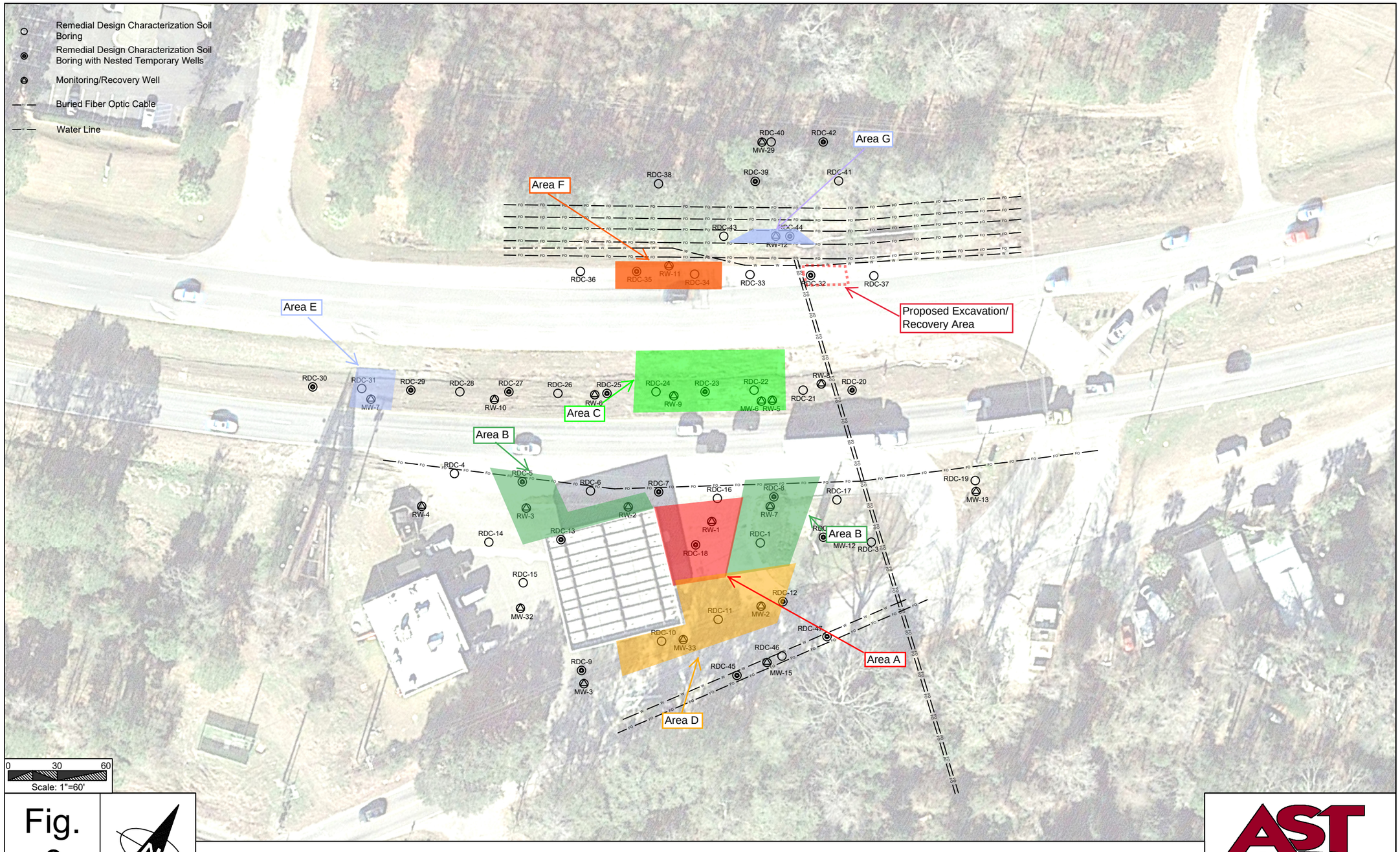


Fig. 8

Phase 1 - Proposed BOS 200(R) Injection Areas

AST ENVIRONMENTAL, INC.

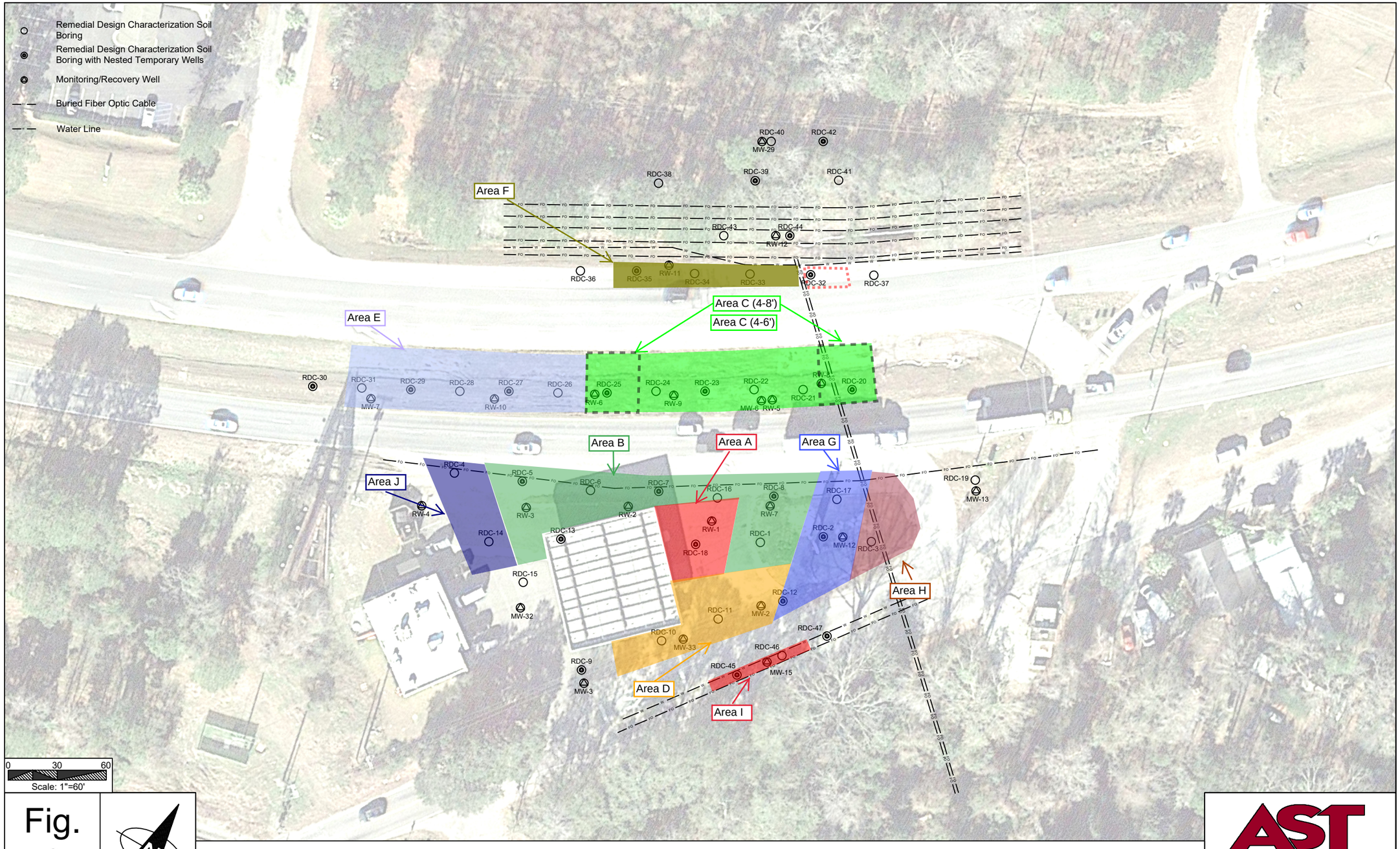
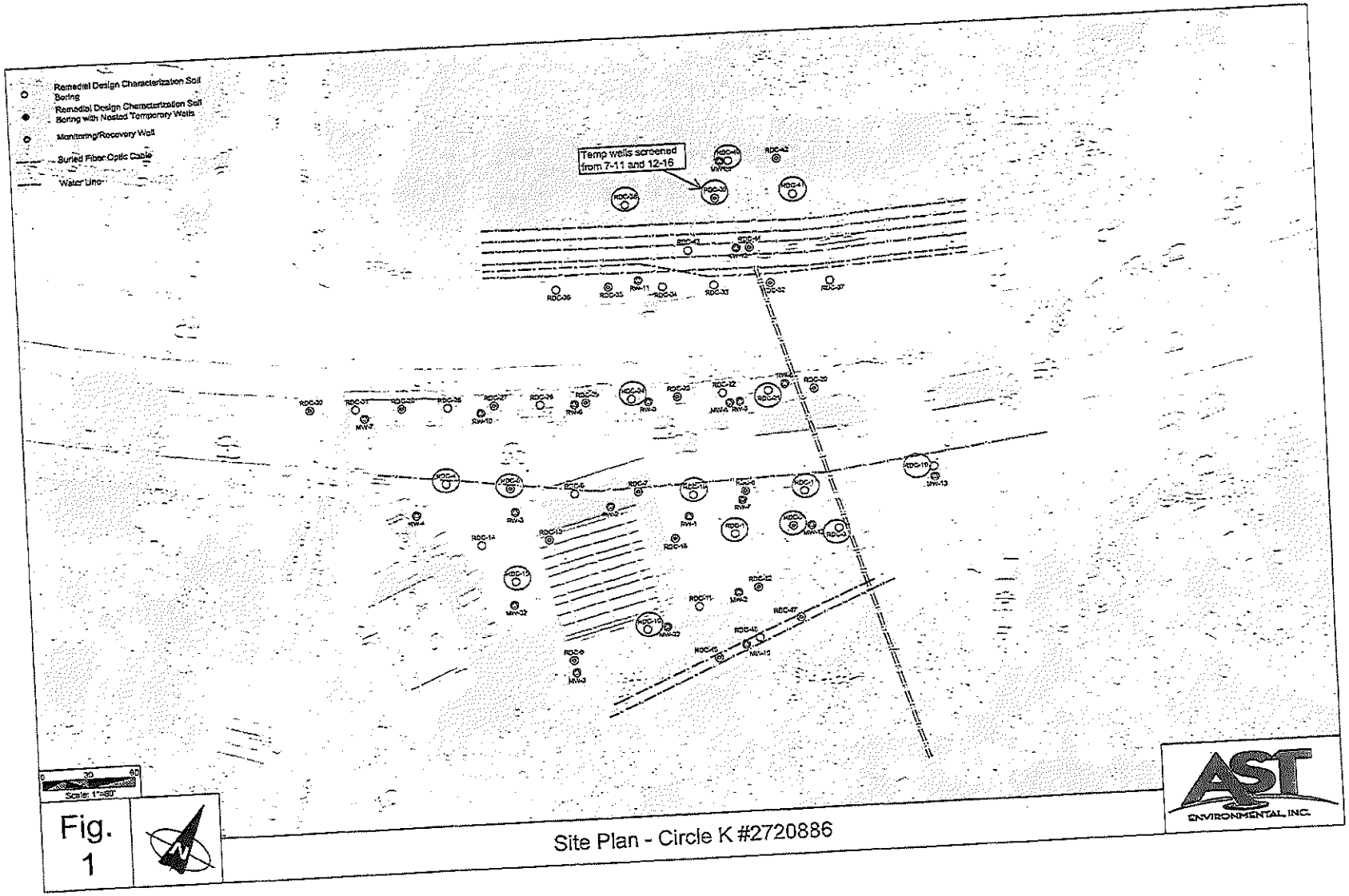


Fig. 9

Phase 2 - Proposed BOS 200(R) Injection Areas

AST ENVIRONMENTAL, INC.

RDC Boring Logs and Well Record Forms


Remedial Design Characterization Soil Boring
Remedial Design Characterization Soil Boring with Nested Temporary Wells
Monitoring/Recovery Well
Buried Fiber Optic Cable
Water Line
Temp wells screened from 7-11 and 12-16
Scale: 1"=80'
Fig. 1
Site Plan - Circle K #2720886
AST ENVIRONMENTAL, INC.

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4135 SAVANNAH HWY,
City: RAVENEL, SC Zip: ~~SC~~ 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-1

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-20-20
N/A ft. Date Completed: 10-20-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: _____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: Fax No.:

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

Signed: _____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/20/2020

DATE FINISHED: 10/20/2020

BORING IDENTIFICATION: RDC-1

TOTAL DEPTH: 16'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO. NA

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	70	RDC-1 (2-4)	60 179	SM: Gray Silty sand, fine grained, soft, moist	
4	100	RDC-1 (4-6) RDC-1 (6-8)	743 908	CH: Gray Clay, brown mottling, soft, high plasticity, moist SM: Gray silty sand, loose, petroleum odor, damp	
8	80	RDC-1 (8-10) RDC-1 (10-12)	161 190	SM: Light gray sand, very fine grained, loose, wet, slight odor	
12	100	RDC-1 (12-14) RDC-1 (14-16)	115 33.1		
16				Terminated 16'	

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: S.C. Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K # 2720886
Street Address: 4315 SAVANNAH HWY.
City: RAVENEL, S.C. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 ROC-2

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from ____ ft. to ____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WAS PULLED AND		
GROUTED AFTER		
SAMPLE WAS TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-20-2020 Date Completed: 10-20-2020

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ____ ft. Weight ____ lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft. NOTE: MULTIPLE SCREENS
8.0 ft. and 12.0 ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☒ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KERN II CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/20/2020

DATE FINISHED: 10/20/2020

AST ENVIRONMENTAL INC.

BORING IDENTIFICATION: RDC-2

TOTAL DEPTH: 16'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Sch. 40 PVC Deep: 3/4" Sch. 40 PVC

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

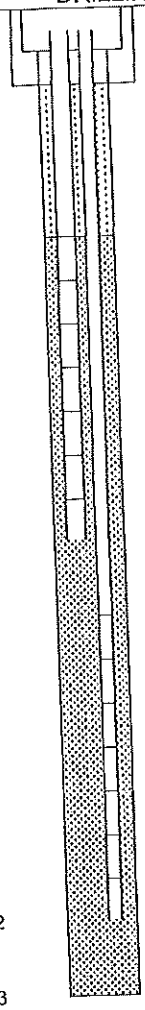
PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	60	RDC-2 (2-4)	46.7	CH: Gray clay, trace sand, brown mottling, high plasticity, moist
3				
4		RDC-2 (4-6)	291	
5				
6	70	RDC-2 (6-8)	165	SM: Gray sand, firm, fine grained, slight odor, moist
7				
8		RDC-2 (8-10)	107	
9				
10	100	RDC-2 (10-12)	27.8	SM: Light gray sand, loose, very fine grained, slight odor, wet
11				
12		RDC-2 (12-14)	27.9	
13				
14	100	RDC-2 (14-16)	13.8	SM: Gray sand, very fine grained, firm, wet
15				
16				Boring terminated 16'
17				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Bentonite chip seal

Schedule 40 PVC casing

#2/16 filter pack sand

0.010" slot, Schedule 40 PVC screen

PVC Cap

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC, (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K # 2720886
Street Address: 4315 SAVANNAH HWY.
City: RAVENEL S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-3

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST #01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-20-20 Date Completed: 10-20-20

10. CASING: ☐ Threaded ☐ Welded
Diam.:
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
in. to ft. depth
in. to ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K		DATE STARTED: 10/20/2020	AST ENVIRONMENTAL, INC.
BORING IDENTIFICATION: RDC-3		DATE FINISHED: 10/20/2020	SCREEN INTERVAL: NA
DRILLING CONTRACTOR: AST Enterprises Inc.		TOTAL DEPTH: 16'	CASING: NA
DRILLING METHOD: Dual Tube		DEPTH TO WATER: NA	LOGGED BY: Chase Noakes
DRILLING EQUIPMENT: 7822DT		PROJECT MANAGER: Nathan Mau	REG. NO.
SAMPLING METHOD: 4-foot Dual Tube 2.25			

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	20			SC: Dark gray sandy clay, loose, soft, moist	
4–8	35	RDC-3 (4-6)	116	MH: Dark gray clayey silt, soft, high plasticity, moist	
		RDC-3 (6-8)	109		
8–12	70	RDC-3 (8-10)	248	SP: Light gray sand, loose, fine grained, well sorted, strong odor, wet	
		RDC-3 (10-12)	9.4		
12–16	90	RDC-3 (12-14)	5.6	SP: Red-Brown sand, coarse, well sorted, wet	
		RDC-3 (14-16)	2.1		
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-4

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-20-20
N/A ft. Date Completed: 10-20-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 4075. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-4
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/20/2020
DATE FINISHED:	10/20/2020
TOTAL DEPTH:	16
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
SCREEN INTERVAL:	NA
CASING:	NA
REG. NO.	

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	55	RDC-4 (2-4)	120	CH: Gray silty clay, brown mottling, high plasticity, moist	
4–6		RDC-4 (4-6)	816		
6–8	75	RDC-4 (6-8)	105	SP: Gray sand, fine grianed, well sorted, strong odor, damp	
8–10		RDC-4 (8-10)	10.6		
10–12	95	RDC-4 (10-12)	12.5	CH: Red-brown clay, soft, high plasticity, damp	
12–14		RDC-4 (12-14)	11.6	SP: Red-brown sand, coarse, well sorted, wet	
14–16	100	RDC-4 (14-16)	10.4	SP: Dark gray sand, loose, well sorted, wet	
16–17				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1600 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K # 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-5

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WAS PULLED AND		
GROUTED AFTER		
SAMPLE WAS TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0' ft. Date Started: 10-20-2020 Date Completed: 10-20-2020

10. CASING: ☒ Threaded ☐ Welded Diam.: 1" AND 3/4" Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface _____ ft. Weight _____ lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN: Type: PVC Diam.: 1" AND 3/4" Slot/Gauge: 0.010 Length: 4.0'
Set Between: 3.0 ft. and 7.0 ft. 8.0 ft. and 12.0 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☒ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: THEODORE KERN III CERT. NO.: 1905
Level: A (B) C D (circle one)
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: _____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/20/2020

DATE FINISHED: 10/20/2020

BORING IDENTIFICATION: RDC-5

TOTAL DEPTH: 16

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" PVC Deep: 3/4"

DRILLING METHOD: Dual Tube/ Hollor-Stem Auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

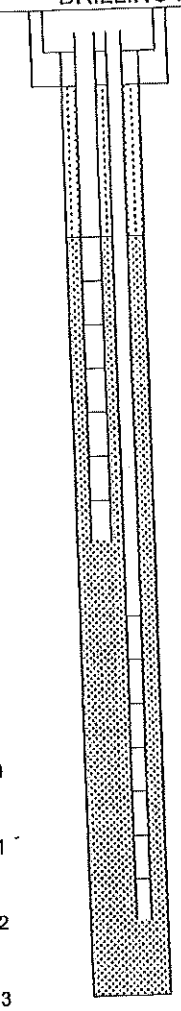
PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				Fill
2	60			
3				CH: Light gray clay, red-brown mottling, soft, high plasticity, moist
4				
5		RDC-5 (4-6)	427	SM: Light gray silty sand, firm, fine grained, slight odor, damp
6	90			
7		RDC-5 (6-8)	509	
8				
9		RDC-5 (8-10)	90.7	SP: Light gray sand, loose, fine grained, well sorted, slight odor, wet
10	100			
11		RDC-5 (10-12)	18.2	MH: Red-brown clayey silt, soft, high plasticity, wet
12				
13		RDC-5 (12-14)	149	SP: Red-brown sand, coarse, well sorted, wet
14	100			
15		RDC-5 (14-16)	35.8	
16				Boring Terminated 16'
17				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-6

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-20-20
N/A ft. Date Completed: 10-20-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A B C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

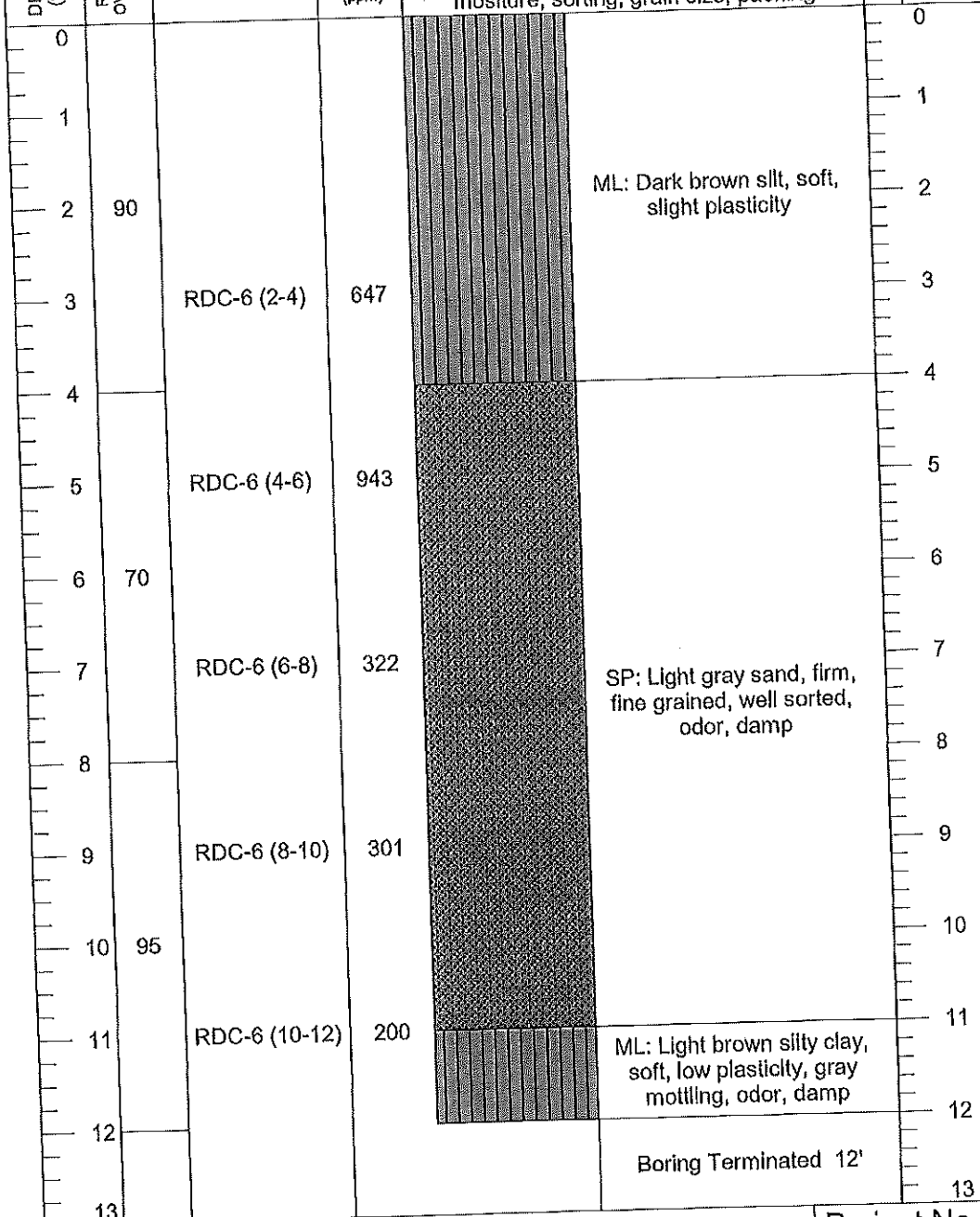
ATC - Circle K

BORING IDENTIFICATION:	RDC-6
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/20/20
DATE FINISHED:	10/20/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
SCREEN INTERVAL:	NA
CASING:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	90			ML: Dark brown silt, soft, slight plasticity	
3		RDC-6 (2-4)	647		
4					
5		RDC-6 (4-6)	943		
6	70				
7		RDC-6 (6-8)	322	SP: Light gray sand, firm, fine grained, well sorted, odor, damp	
8					
9		RDC-6 (8-10)	301		
10	95				
11		RDC-6 (10-12)	200	ML: Light brown silty clay, soft, low plasticity, gray mottling, odor, damp	
12				Boring Terminated 12'	
13					



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-7

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
PULLED AFTER		
SAMPLES WERE		
TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST #01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-20-20 Date Completed: 10-20-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8 ft. and 13 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KEBLISH CERT. NO.: 1905
Address: (Print) 4075 3RD ST TRP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/20/20

DATE FINISHED: 10/20/20

BORING IDENTIFICATION: RDC-7

TOTAL DEPTH: 12'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/ Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					Bentonite chip seal
2	60			CH: Dark Gray clay, soft, high plasticity, strong odor	
3		RDC-7 (2-4)	387		Schedule 40 PVC casing
4					#2/16 filter pack sand
5		RDC-7 (4-6)	737		
6	50				0.010" slot, Schedule 40 PVC screen
7		RDC-7 (6-8)	396	SP: Light gray sand, firm, fine grained, well sorted, odor, wet	
8					
9		RDC-7 (8-10)	968		
10	100				
11		RDC-7 (10-12)	296		
12				Boring Terminated 12'	PVC Cap
13					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-S

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 13.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST #.01589

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

9. WELL DEPTH (completed) Date Started: 10-20-20
13.0 ft. Date Completed: 10-20-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4".
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KENNETT CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY OH 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-8
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/ Hollor-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/20/20
DATE FINISHED:	10/20/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

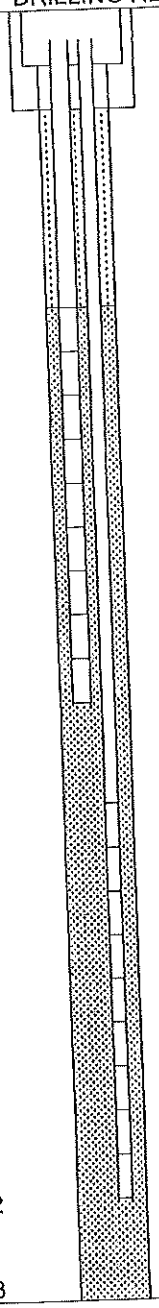
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	50			MH: Brown silty clay, soft, high plasticity, moist
3		RDC-8 (2-4)	853	
4				
5		RDC-8 (4-6)	936	CL: Gray clay, low plasticity, moist
6	100			
7		RDC-8 (6-8)	352	SP: Light brown sand, soft, fine grained, well sorted, damp
8				
9		RDC-8 (8-10)	760	SP: Light gray, fine grained, loose, strong odor, wet
10	100			
11		RDC-8 (10-12)	83	
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RPC-9

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE ROBINSON III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-9
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube / Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

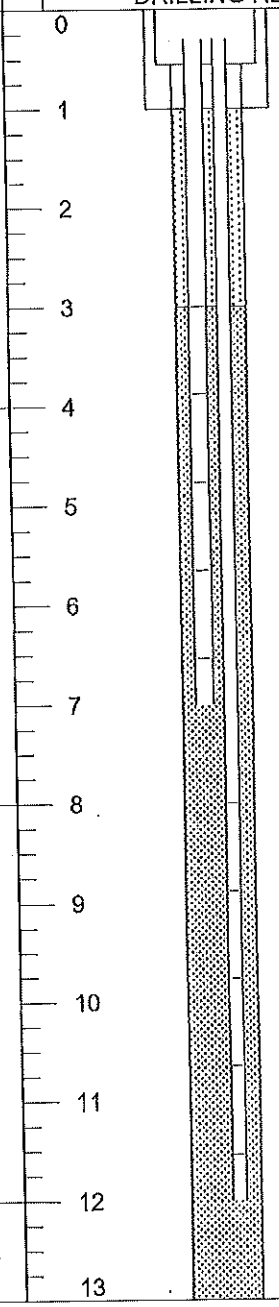
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: NA

CASING: NA

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0–4	0			Hand Clear
4–8	90	RDC-9 (4-6)	1102	SM: Brown sandy silt, soft, loose, slight odor, moist
		RDC-9 (6-8)	1147	
8–12	100	RDC-9 (8-10)	91.1	SP: Light Gray sand, fine grained, loose, well sorted, wet
		RDC-9 (10-12)	11	
12–13				Boring Terminated 12'

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Bentonite chip seal

Schedule 40 PVC casing

#2/16 filter pack sand

0.010" slot, Schedule 40 PVC screen

PVC Cap

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHANDLER
Name: CIRCLE K # 2720886
Street Address: 5315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-10

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-10
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	16'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
SCREEN INTERVAL:	NA
CASING:	NA
REG. NO.	

AST ENVIRONMENTAL, INC.

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–8	60	RDC-10 (4-6)	899	SP: Brown sand, fine grained, strong odor, wet	
		RDC-10 (6-8)	308		
8–12	100	RDC-10 (8-10)	235	SP: Light gray sand, loose, fine grained, well sorted, strong odor	
		RDC-10 (10-12)	162		
12–16	60	RDC-10 (12-14)	186		
		RDC-10 (14-16)	92.4		
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2770886
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

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

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
SOIL BORING

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

7. PERMIT NUMBER:
UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-21-20
N/A ft. Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-11
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: NA

CASING: NA

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–6	80	RDC-11 (4-6)	684	CH: Dark gray clay, soft, high plasticity, strong odor, moist	
6–8		RDC-11 (6-8)	1338	SP: Gray sand, fine grained, firm, strong odor, damp	
8–12	100	RDC-11 (8-10)	625	SP: Light gray sand, fine grained, well sorted, slight odor, wet	
		RDC-11 (10-12)	86.7		
12				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS COURT (last) SUITE (first) 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDE-12

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE RAWLS CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-12
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/ Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/21/20
DATE FINISHED:	10/10/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	Bentonite chip seal; Schedule 40 PVC casing
4–5					#2/16 filter pack sand
5–6	95	RDC-12 (4-6)	867	CH: Gray clay, high plasticity, strong odor, moist	
6–8		RDC-12 (6-8)	717	SP: Gray sand, fine grained, firm, strong odor, damp	0.010" slot, Schedule 40 PVC screen
8–10	100	RDC-12 (8-10)	162	SP: Gray-brown sand, fine grained, well sorted, no odor @12', wet	
10–12		RDC-12 (10-12)	134		PVC Cap
12–13				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RALEIGH, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-13

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 3.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
6.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KREUM CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-13
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

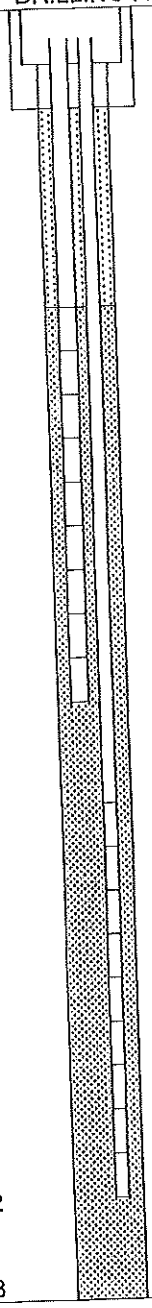
DATE STARTED: 10/21/20
DATE FINISHED: 10/21/20
TOTAL DEPTH: 12'
DEPTH TO WATER: NA
LOGGED BY: Chase Noakes
PROJECT MANAGER: Nathan Mau
REG. NO.

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'
CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-13 (4-6)	635	CH: Gray clay, high plasticity, slight odor, moist
6	70			
7		RDC-13 (6-8)	366	SP: Light gray sand, firm, fine grained, well sorted, strong odor, damp
8				
9		RDC-13 (8-10)	318	SP: Light gray, loose, fine grained, well sorted, odor
10	100			
11		RDC-13 (10-12)	217	CL: Red-brown clay, very soft, medium plasticity, no odor
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORE INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:** 01589 RDC-14

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST #01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1903
Address: (Print) 407 S. 3RD ST TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0562 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-14
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	Dual Tube 2.25

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
SCREEN INTERVAL:	NA
CASING:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-14 (4-6)	642		
6	70				
7		RDC-14 (6-8)	768	SP: Light gray sand, firm, fine grained, well sorted, strong odor, moist	
8					
9		RDC-14 (8-10)	10.4		
10	100				
11		RDC-14 (10-12)	3.3		
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
#01589 RDC-15

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-21-20
N/A ft. Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/21/20

DATE FINISHED: 10/21/20

BORING IDENTIFICATION: RDC-15

TOTAL DEPTH: 16'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1				Hand Clear	
2	0				
3					
4					
5		RDC-15 (4-6)	97.8	SP: Gray sand, trace silt, fine grained, welll sorted, strong odor, moist	
6	50				
7		RDC-15 (6-8)	64.4		
8					
9		RDC-15 (8-10)	20		
10	65				
11		RDC-15 (10-12)	9	SP: Light gray sand, fine grained, firm, well sorted, wet	
12					
13		RDC-15 (12-14)	28.6		
14	50				
15		RDC-15 (14-16)	95.1	SM: Silty sand, loose, fine grained, wet	
16				Boring Terminated 16'	
17					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-16

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-21-20
N/A ft. Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. BRD ST. Level: A (B) C D (circle one)
TIPP CITY, OH 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-16
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	16'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	
SCREEN INTERVAL:	NA
CASING:	NA

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	0			Hand Clear	
4	60	RDC-16 (4-6)	267	SP: Light gray sand, fine grained, firm, well sorted, strong odor, moist	
8	100	RDC-16 (6-8)	721		
		RDC-16 (8-10)	562	SP: Gray sand, fine grained, loose, strong odor, wet	
		RDC-16 (10-12)	131		
12	65	RDC-16 (12-14)	83		
14				ML: Red Brown clay, soft, low plasticity, wet	
15		RDC-16 (14-16)	18.2	SP: Light gray sand, coarse, loose, well sorted, wet	
16				Boring Terminated 16'	
17					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC17

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-21-20
N/A ft. Date Completed: 10-21-20

10. CASING: ☐ Threaded ☐ Welded
Diam.:
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: _____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-17
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	16'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: NA

CASING: NA

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	0			Hand Clear	
4	65	RDC-17 (4-6)	917	CH: Brown clay, gray mottling, high plasticity, soft, moist	
6		RDC-17 (6-8)	542	SP: Gray sand, fine grained, well sorted, moist	
8	100	RDC-17 (8-10)	218	SP: Light gray sand, fine grained, well sorted, loose, strong odor, wet	
10		RDC-17 (10-12)	114		
12	90	RDC-17 (12-14)	346		
14		RDC-17 (14-16)	59.6		
15				SM: Silty sand, loose, fine grained, wet	
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 47606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
0158 RDC-18

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-21-20 Date Completed: 10-21-20

10. CASING: ☒ Threaded ☐ Welded Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN: Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE RIBAULT CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OH 45371 Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-18
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/ Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/21/20
DATE FINISHED:	10/21/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

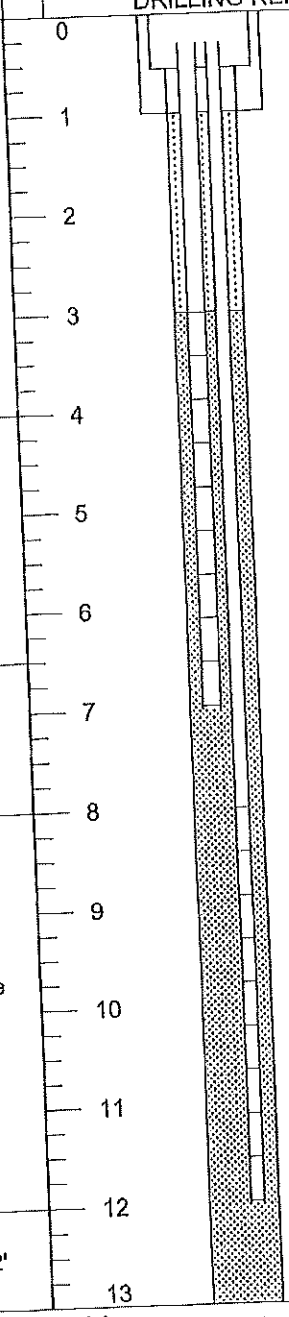
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0–4	0			Hand Clear
4–6	80	RDC-18 (4-6)	706	ML: Brown clay, low plasticity, moist
6–8		RDC-18 (6-8)	374	SM: Gray silty sand, tight, fine grained, strong odor, moist
8–10	100	RDC-18 (8-10)	642	SP: Light gray sand, fine grained, loose, strong odor, wet
10–12		RDC-18 (10-12)	1189	Boring Terminated 12'

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: N.C Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC 19

4. ABANDONMENT: ☐ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
SOIL BORING

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

7. PERMIT NUMBER:
UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-22-20
N/A ft. Date Completed: 10-22-0

10. CASING: ☐ Threaded ☐ Welded
Diam.: _____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 407 S. SRT ST. Level: A (B) C D (circle one)
TIPP CITY, OH. 0 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: _____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/22/20

DATE FINISHED: 10/22/20

BORING IDENTIFICATION: RDC-19

TOTAL DEPTH: 16'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	0			Hand Clear	
4	85	RDC-19 (4-6)	76.5	CH: Gray clay, high plasticity, soft, moist	
6		RDC-19 (6-8)	223	SP: Gray sand, fine grained, well sorted, strong odor, damp	
8	40	RDC-19 (8-10)	57.7	SP: Light gray sand, loose, fine grained, well sorted, strong odor, wet	
10		RDC-19 (10-12)	40.7		
12	70	RDC-19 (12-14)	3.6	SP: Red brown sand, loose, fine grained, strong odor, wet	
14		RDC-19 (14-16)	0		
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RPC-20

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST #01589

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

9. WELL DEPTH (completed): 12.0 ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KAZEN III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-20
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

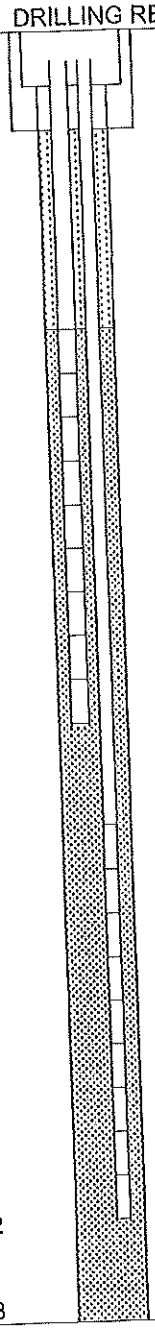
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, moisture, sorting, grain size, packing
0				
1				Hand Clear
2	0			
3				
4				
5		RDC-20 (4-6)	564	SM: Brown silty sand, strong odor, no plasticity, moist
6	100			
7		RDC-20 (6-8)	853	SP: light gray, fine grained, firm, well sorted, strong odor
8				
9		RDC-20(8-10)	52.3	
10	100			SP: Light gray, loose, fine grained, strong odor, wet
11		RDC-20 (10-12)	218	
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: N.C Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC 21

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-22-20
N/A ft. Date Completed: 10-22-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OH. 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-21
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	16'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	
SCREEN INTERVAL:	NA
CASING:	NA

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–6	95	RDC-21 (4-6)	731	SM: Gray brown silty sand, soft, fine grained, strong odor, moist	
6–8		RDC-21 (6-8)	945	SP: light gray sand, fine grained, loose, strong odor, damp	
8–10	75	RDC-21 (8-10)	778		
10–12		RDC-21 (10-12)	279	ML: light brown sandy silt, soft, low plasticity, wet	
12–14	100	RDC-21 (12-14)	190	SP: light red brown sand, (heave present), loose, fine grained, well sorted, wet	
14–16		RDC-21 (14-16)	22.1		
16–17				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC, (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-32

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KERN III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST TIPP CITY, OHIO Level: A B C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-22
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
SCREEN INTERVAL:	NA
CASING:	NA
REG. NO.	

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	0			Hand clear	
4	85	RDC-22 (4-6)	802	SP: Light gray sand, fine grained, well sorted, strong odor, damp, (Free Product on top of sample in sleeve)	
8	85	RDC-22 (6-8)	613		
		RDC-22 (8-10)	91		
				CH: Light brown clay, very soft, high plasticity, wet	
		RDC-22 (10-12)	71.3	SP: Light brown sand, fine grained, loose, wet	
12				Boring Terminated 12'	
13					

AST Environmental Inc.

Project No. 5152286

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 ROC-23

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		

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

5. REMARKS:

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

7. PERMIT NUMBER: VST# 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THADDEUS KRAWIEC CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-780-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-23
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollor-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

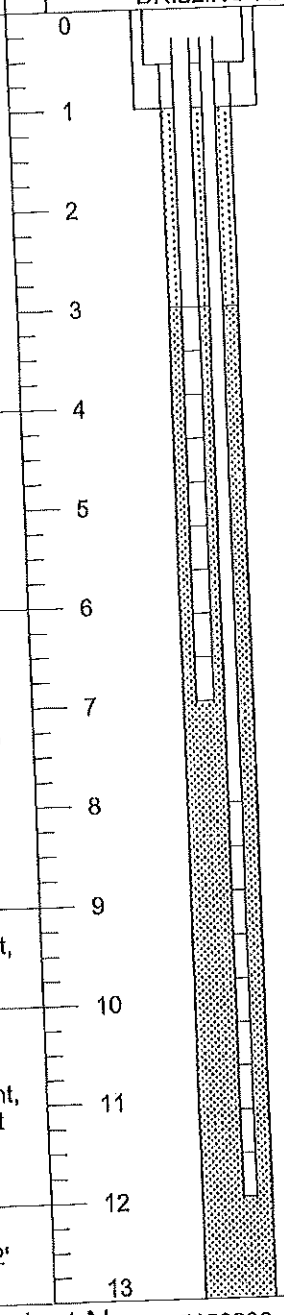
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: /4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-23 (4-6)	424	SM: Light brown silty sand, fine grained, strong odor, moist
6	90			
7		RDC-23 (6-8)	495	SP: Light gray sand, firm, well sorted, strong odor, damp
8				
9		RDC-23 (8-10)	39.8	CL: Light brown clay, soft, medium plasticity, wet
10	100			
11		RDC-2 (10-12)	138	SM: Dark gray sand, tight, fine grained, odor, wet
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAWNBL, S.C. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-24

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
Boring Log		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] III Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K		DATE STARTED: 10/22/20	AST ENVIRONMENTAL, INC.
BORING IDENTIFICATION: RDC-24		DATE FINISHED: 10/22/20	
DRILLING CONTRACTOR: AST Enterprises Inc.		TOTAL DEPTH: 16'	SCREEN INTERVAL: NA
DRILLING METHOD: Dual Tube		DEPTH TO WATER: NA	CASING: NA
DRILLING EQUIPMENT: 7822DT		LOGGED BY: Chase Noakes	
SAMPLING METHOD: 4-foot Dual Tube 2.25		PROJECT MANAGER: Nathan Mau	REG. NO.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–8	70	RDC-24 (4-6)	561	SP: Light gray sand, well sorted, Free Product, fine grained, damp	
		RDC-24 (6-8)	32.5		
8–10	60	RDC-24 (8-10)	60.9	CL: Light brown clay, very soft, medium plasticity, wet	
10–12		RDC-24 (10-12)	15.2	SP: Dark gray sand, fine grained, well sorted, wet	
12–16	60	RDC-24 (12-14)	267	SP: Sand, well sorted, medium fine grained, wet	
		RDC-24 (14-16)	45.6		
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITH COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENAL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-25

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones		
(Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4" Height: Above/Below Surface ft.
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth

11. SCREEN: Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft. NOTE: MULTIPLE SCREENS
8.0 ft. and 12.0 ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KARWISCH CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OH 45371 Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-25
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

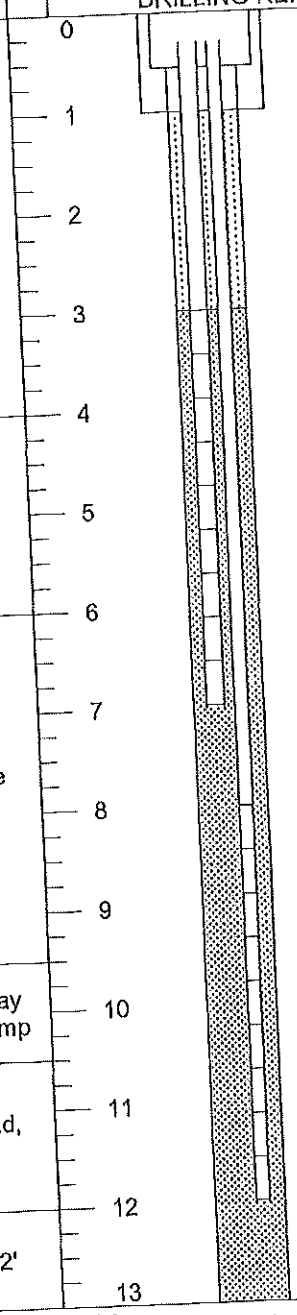
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-25 (4-6)	360	ML: Gray silt, soft, odor, moist
6	90			
7		RDC-25 (6-8)	929	SP: Gray sand, firm, fine grained, odor, damp
8				
9		RDC-25 (8-10)	187	
10	100			CL: Light brown clay, gray mottling, soft, sticky, damp
11		RDC-25 (10-12)	56.4	SM: Dark gray silty sand, soft, wet
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-26

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
SOIL BORING

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

7. PERMIT NUMBER:
UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-22-20
N/A ft. Date Completed: 10-22-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KUNTZ CERT. NO.: 1905
Address: (Print) 407 S. BROAD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-26
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL:	NA
CASING:	NA

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-26 (4-6)	616		
6	90			SM: Light gray sand, common silts, Free Product, fine grained, well sorted, wet	
7		RDC-26 (6-8)	1073		
8					
9		RDC-26 (8-10)	1178		
10	55			SP: Light gray sand, loose, fine grained, odor, wet	
11		RDC-26 (10-12)	371		
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-27

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 5.0 ft. depth
Height: Above/Below
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
5.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KRENTEL CERT. NO.: 1905
Address: (Print) 407 S 3RD ST TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-27
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

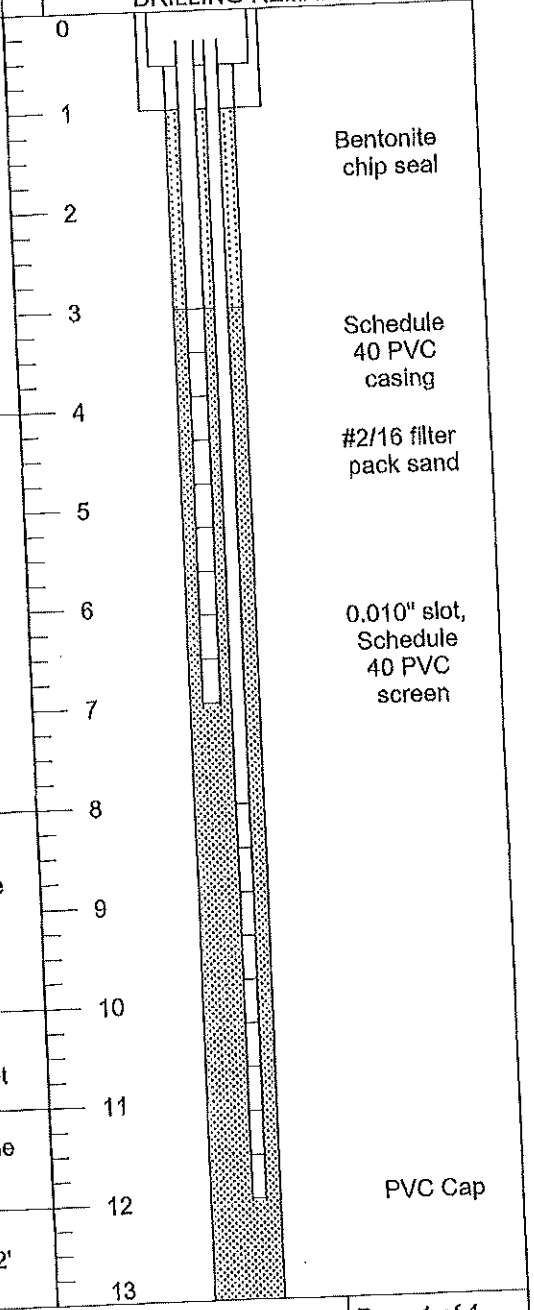
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-27 (4-6)	520	SM: Light gray sand and common silt, very fine grained, well sorted, strong odor, wet
6	90			
7		RDC-27 (6-8)	893	
8				
9		RDC-27 (8-10)	306	SP: Light gray sand, fine grained, loose, strong odor, wet
10	75			
11		RDC-27 (10-11)	313	CH: Light brown clay, soft, high plasticity, wet
12		RDC-27 (11-12)	33.2	SP: Light gray sand, fine grained, tight, damp
13				Boring Terminated 12'

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS (last) COURT (first) SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 272 0886 hwy
Street Address: 4315 SAVANNAH
City: RAVENEL Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 · RDC-28

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-22-20
N/A ft. Date Completed: 10-22-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KRAWIEC CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-28
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	
SCREEN INTERVAL:	NA
CASING:	NA

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-28 (4-6)	302	SP: Light brown-gray sand, very fine grained, well sorted, strong odor, damp	
6	60				
7		RDC-28 (6-8)	358		
8					
9		RDC-28 (8-10)	93.2	SP: Light brown-gray sand, very fine grained, well sorted, wet	
10	75				
11		RDC-28 (10-12)	3.7		
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720586
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-29

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP. WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-22-20 Date Completed: 10-22-20

10. CASING: ☒ Threaded ☐ Welded Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN: Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: Theodore KBenn III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

BORING IDENTIFICATION:	RDC-29
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/22/20
DATE FINISHED:	10/22/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

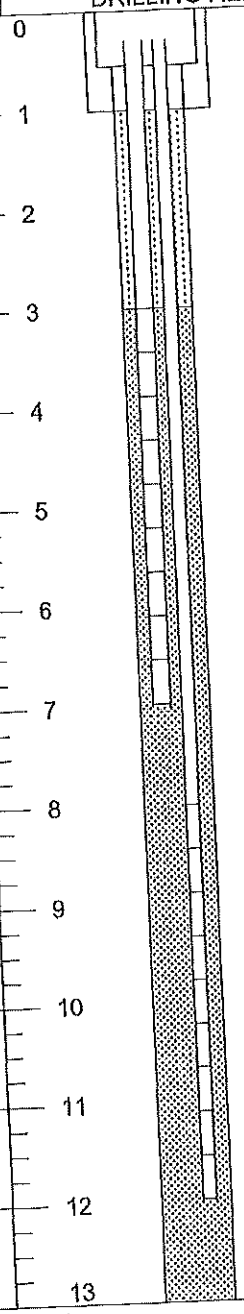
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-29 (4-6)	450	SP: Light brown-gray sand, fine grained, well sorted, tight, strong odor, moist
6	90			
7		RDC-29 (6-8)	467	
8				
9		RDC-29 (8-10)	143	ML: Light gray clayey silt, soft, low plasticity, common sand, damp
10	55			CH: Light red-brown clay, soft, high plasticity, wet
11		RDC-29 (10-12)	72.3	SP: Light gray sand, fine grained, well sorted, wet
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS COURT (last) SUITE 100 (first)
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-30

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		

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

5. REMARKS:

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

7. PERMIT NUMBER: UST# 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-23-20 Date Completed: 10-23-20

10. CASING: ☒ Threaded ☐ Welded Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN: Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KRAWIEC CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-30

TOTAL DEPTH: 12'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: Dual Tube 3.75

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					Bentonite chip seal
2	0			Hand Clear	
3					Schedule 40 PVC casing
4					#2/16 filter pack sand
5		RDC-30 (4-6)	923	SM: Brown silty sand, fine grained, tight, strong odor, wet	
6	95				0.010" slot, Schedule 40 PVC screen
7		RDC-30 (6-8)	212	SP: Light gray, fine grained, well sorted, wet	
8		RDC-30 (8-9)	74.5		
9		RDC-30 (9-10)	39.1	CH: Light brown clay, very soft, sticky, high plasticity, wet	
10	70	RDC-30 (10-11)	17.6	SP: Light gray sand, fine grained, well sorted, slight odor, damp	
11		RDC-30 (11-12)	3.7	SM: Light brown silty sand, some clay, fine grained, damp	PVC Cap
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC.
Address: 1100 SITUS COURT (last) SUITE 100 (first)
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-31

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 13.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: JST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-23-20 Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KERN III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-31

TOTAL DEPTH: 12'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-31 (4-6)	866		
6	75			SP; Brown to light gray sand, well sorted, wet	
7		RDC-31 (6-8)	305		
8					
9		RDC-31 (8-10)	51.5		
10	70			SP: Light brown to light gray sand, well sorted, fine grained, wet	
11		RDC-31 (10-12)	21.4		
12					
13				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-32

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST# 01589

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

9. WELL DEPTH (completed) Date Started: 10-23-20
N/A ft. Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.:
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
in. to ft. depth
in. to ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KREWER CERT. NO.: 1905
Address: (Print) 407 S. 3RD. ST. TRP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

BORING IDENTIFICATION: RDC-32

DRILLING CONTRACTOR: AST Enterprises Inc.

DRILLING METHOD: Dual Tube/Hollow-stem auger

DRILLING EQUIPMENT: 7822DT

SAMPLING METHOD: 4-foot Dual Tube 3.75

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

TOTAL DEPTH: 12'

DEPTH TO WATER: NA

LOGGED BY: Chase Noakes

PROJECT MANAGER: Nathan Mau

REG. NO.

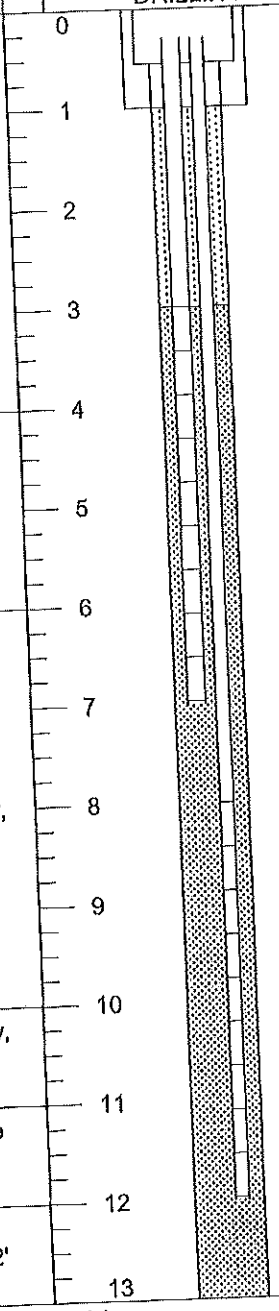
AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-32 (4-6)	779	SP: Dark gray sand, loose, Black Free Prodcut, wet
6	100			
7		RDC-32 (6-8)	768	SP: Light gray sand, fine grained, well sorted, odor, damp
8				
9		RDC-32 (8-10)	977	
10	100			
11		RDC-32 (10-11)	486	CL: Light red-brown clay, very soft, medium plasticity, damp
12		RDC-32 (11-12)	121	SP: Brown sand, some silt, fine grained, well sorted, wet
13				Boring Terminated 12'

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-33

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0'0 ft. to 12'0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED BORING LOG		

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

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-23-20 Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: Theodore Rapp III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Theodore Rapp III Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-33

TOTAL DEPTH: 12'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-33 (4-6)	1020		
6	50				
7		RDC-33 (6-8)	320	SP: Light brown sand, well sorted, fine grained, odor, damp	
8					
9		RDC-33 (8-10)	16.6		
10	50				
11		RDC-33 (10-12)	16	ML: Dark gray silt, trace sand, soft, wet	
12					
13				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC, (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-34

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST #01589

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

9. WELL DEPTH (completed) Date Started: 10-23-20
N/A ft. Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE ROBERT III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-34
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 2.25

DATE STARTED:	10/23/20
DATE FINISHED:	10/23/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: NA

CASING: NA

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-34 (4-6)	914	SP: Light gray to light brown sand, fine grained, well sorted, damp	
6	85				
7		RDC-34 (6-8)	151	SP: Light gray to light brown sand, fine grained, well sorted, slight odor, damp	
8					
9		RDC-34 (8-10)	513	ML: Dark gray sandy silt, no plasticity, soft, damp	
10	80				
11		RDC-34 (10-12)	18.8	SP: Dark gray sand, fine grained, well sorted, wet	
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-35

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-23-20 Date Completed: 10-23-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 3.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KEAN III CERT. NO.: 1903
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (09/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-35

TOTAL DEPTH: 12'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					Bentonite chip seal
2	0			Hand Clear	
3					Schedule 40 PVC casing
4					#2/16 filter pack sand
5		RDC-35 (4-6)	1033	SP: Light gray sand, fine grained, firm, strong odor, wet, possible Free Product above 4'	
6	75				0.010" slot, Schedule 40 PVC screen
7		RDC-35 (6-8)	206		
8				ML: Light brown silty clay, sticky, medium plasticity, wet	
9		RDC-35 (8-10)	995		
10	90				
11		RDC-35 (10-11)	57.9	SP: Dark gray sand, fine grained, damp	
		RDC-35 (11-12)	38.3		PVC Cap
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC, (last) (first)
Address: 11 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 272.0886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-36

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-23-20 Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KIRN CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-36

TOTAL DEPTH: 12'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-36 (4-6)	3		
6	60			SP: Light gray sand, firm, fine grained, well sorted, wet	
7		RDC-36 (6-8)	16.8		
8					
9		RDC-36 (8-10)	23.3		
10	100			SP: Light brown to dark gray sand, fine grained, well sorted, wet	
11		RDC-36 (10-12)	0		
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC
Address: 1100 SITUS COURT (last) SUITE 100 (first)
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-37

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 1210 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-23-20
N/A ft. Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft. NOTE: MULTIPLE SCREENS
____ ft. and ____ ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KAENIN CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K		DATE STARTED: 10/23/20	AST ENVIRONMENTAL, INC.
BORING IDENTIFICATION: RDC-37		DATE FINISHED: 10/23/20	
DRILLING CONTRACTOR: AST Enterprises Inc.		TOTAL DEPTH: 12'	SCREEN INTERVAL: NA
DRILLING METHOD: Dual Tube		DEPTH TO WATER: NA	CASING: NA
DRILLING EQUIPMENT: 7822DT		LOGGED BY: Chase Noakes	
SAMPLING METHOD: 4-foot Dual Tube 2.25		PROJECT MANAGER: Nathan Mau	REG. NO.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
5		RDC-37 (4-6)	265	SP: Light gray to light brown sand, fine grained, well sorted, firm, slight odor, damp	
6	75				
7		RDC-37 (6-8)	10.6		
8					
9		RDC-37 (8-10)	11.8		
10	60				
11		RDC-37 (10-12)	1.6		
12				Boring Terminated 12'	
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, S.C. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
01589 RDC-38

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
Boring Log		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
SOIL BORING

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-23-20
N/A ft. Date Completed: 10-23-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: _____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: [redacted] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: [redacted] Well Driller Date: 2-8-21
If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017) COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-38

TOTAL DEPTH: 16'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0	0			Hand Clear	
4	100	RDC-38 (4-6)	82	ML: Gray to brown-red sandy silt, some clays, soft, no plasticity, moist	
6		RDC-38 (6-8)	2.3	SP: Light brown sand, fine grained, well sorted, moist	
8	100	RDC-38 (8-10)	6.1		
10		RDC-38 (10-12)	1.2	ML: Red-brown sandy silt, medium plasticity, wet	
12	85	RDC-38 (12-14)	1.9	SC: Brown sand, some clay, loose, wet	
14		RDC-38 (14-16)	1.7	SP: Brown to gray sand, fine grained, well sorted, damp	
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-3

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WAS PULLED AND		
GROUTED AFTER		
SAMPLE WAS TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-23-20
12.0' ft. Date Completed: 10-23-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 2.0 ft. depth
0.0 in. to 12.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0'
Set Between: 7.0 ft. and 11.0 ft.
12.0 ft. and 16.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☐ Neat Cement ☒ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From ft. to ft.

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

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

19. WELL DRILLER: THEODORE KREN III CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 2-8-21

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/23/20

DATE FINISHED: 10/23/20

BORING IDENTIFICATION: RDC-39

TOTAL DEPTH: 16'

SCREEN INTERVAL: Shallow: 7-11' Deep: 12-16

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	Bentonite chip seal; Schedule 40 PVC casing
4–6	100	RDC-39 (4-6)	0.7	ML: Gray to red-brown sandy silt, no plasticity, moist	#2/16 filter pack sand
6–8		RDC-39 (6-8)	2	SP: Brown to gray sand, fine grained, well sorted, damp	0.010" slot, Schedule 40 PVC screen
8–12	100	RDC-39 (8-10)	0.3		
		RDC-39 (10-12)	5.8	CH: Light red-brown silty clay, sticky, medium plasticity, soft, wet	
12–14	100	RDC-39 (12-14)	7.1	SP: Dark gray sand, loose, fine grained, wet	
14–16		RDC-39 (14-16)	8.7	SP: Dark gray sand, firm, fine grained, well sorted, wet	PVC Cap
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORE INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720866
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 ROC-40

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: [signature] CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: [signature] Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

BORING IDENTIFICATION: RDC-40

DRILLING CONTRACTOR: AST Enterprises Inc.

DRILLING METHOD: Dual Tube

DRILLING EQUIPMENT: 7822DT

SAMPLING METHOD: 4-foot Dual Tube 2.25

DATE STARTED: 10/24/20

DATE FINISHED: 10/24/20

TOTAL DEPTH: 16'

DEPTH TO WATER: NA

LOGGED BY: Chase Noakes

PROJECT MANAGER: Nathan Mau

REG. NO.

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: NA

CASING: NA

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-40 (4-6)	0	ML: Gray to brown clayey silt, moist	
6	80				
7		RDC-40 (6-8)	0	SP: Gray to brown sand, fine grained, well sorted, firm, moist	
8					
9		RDC-40 (8-10)	0.3		
10	75			CH: Red brown clay, sticky, soft, medium plasticity, damp	
11		RDC-40 (10-12)	0		
12					
13		RDC-40 (12-14)	0	SP: Light brown sand, fine grained, loose, wet	
14	100				
15		RDC-40 (14-16)	0	SM: Dark gray silty sand, fine grained, loose, wet	
16				Boring Terminated 16'	
17					

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, S.C Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 0158 RDC-41

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.5 ft. to 16.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/24/20

DATE FINISHED: 10/24/20

BORING IDENTIFICATION: RDC-41

TOTAL DEPTH: 16'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

AST ENVIRONMENTAL, INC.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–6	100	RDC-41 (4-6)	0	ML: Gray to brown clayey silt, moist	
6–8		RDC-41 (6-8)	16.8	SP: Light gray sand, fine grained, well sorted, firm, moist	
8–10	85	RDC-41 (8-10)	8.8		
10–12		RDC-41 (10-12)	0	ML: Dark grya to bornw silt, sticky, low plasticity, wet	
12–14	70	RDC-41 (12-14)	15.8	SP: Dark gray sand, some silt, fine grained, well sorted, tight, slight odor, damp	
14–16		RDC-41 (14-16)	12.1		
16				Boring Terminated 16'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27602
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-412

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE RENFRO CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST
TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ Date: 2-8-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT:

ATC - Circle K

BORING IDENTIFICATION:	RDC-42
DRILLING CONTRACTOR:	AST Enterprises Inc.
DRILLING METHOD:	Dual Tube/Hollow-stem auger
DRILLING EQUIPMENT:	7822DT
SAMPLING METHOD:	4-foot Dual Tube 3.75

DATE STARTED:	10/24/20
DATE FINISHED:	10/24/20
TOTAL DEPTH:	12'
DEPTH TO WATER:	NA
LOGGED BY:	Chase Noakes
PROJECT MANAGER:	Nathan Mau
REG. NO.	

AST ENVIRONMENTAL, INC.

SCREEN INTERVAL: Shallow: 7-11' Deep: 12-16'

CASING: Shallow: 1" Deep: 3/4"

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–8	75	RDC-42 (4-6)	0	SM: Gray to brown silty sand, fine grained, well sorted, moist	
		RDC-42 (6-8)	0	SP: Light gray sand, fine grained, well sorted, moist	
8–12	100	RDC-42 (8-10)	0	SP: Light gray sand, fine grained, well sorted, wet	
		RDC-42 (10-12)	0	CL: Light red-brown clay, sticky, soft, medium plasticity, wet	
12–13				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K #2720886
Street Address: 4315 SAVANNAH hwy
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-93

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 010 ft. to 1210 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) Date Started: 10-24-20
N/A ft. Date Completed: 10-24-20

10. CASING: ☐ Threaded ☐ Welded
Diam.:
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
in. to ft. depth
in. to ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KLEIN II CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/24/20

DATE FINISHED: 10/24/20

BORING IDENTIFICATION: RDC-43

TOTAL DEPTH: 12'

SCREEN INTERVAL: NA

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: NA

DRILLING METHOD: Dual Tube

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 2.25

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					
2	0			Hand Clear	
3					
4					
5		RDC-43 (4-6)	22.5		
6	70				
7		RDC-43 (6-8)	1.4	SP: Light gray sand, fine grained, well sorted, strong odor, damp	
8					
9		RDC-43 (8-10)	13		
10	50				
11		RDC-43 (10-12)	5.6	ML: Dark gray sandy silt, soft, loose, wet	
12					
13				Boring Terminated 12'	

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-44

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 1210 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		

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

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 1210 ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 3.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft. NOTE: MULTIPLE SCREENS
5.10 ft. and 1210 ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE KRAUTH CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

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

Signed: (Well Driller) Date: 3-8-21

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

DHEC 1903 (06/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/24/20

DATE FINISHED: 10/24/20

BORING IDENTIFICATION: RDC-44

TOTAL DEPTH: 12'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0					
1					Bentonite chip seal
2	0			Hand Clear	
3					Schedule 40 PVC casing
4					
5		RDC-44 (4-6)	837	SP: Light gray sand, fine grained, well sorted, loose, strong odor, wet	#2/16 filter pack sand
6	100				
7		RDC-44 (6-8)	2.5	CH: Light brown silty clay, soft, sticky, high plasticity, damp	0.010" slot, Schedule 40 PVC screen
8					
9		RDC-44 (8-10)	190	MH: Light brown sandy silt, soft, high plasticity, wet	
10	95				
11		RDC-44 (10-12)	8.7	SM: Dark gray silty sand, some silt, fine grained, firm, wet	
12				Boring Terminated 12'	PVC Cap
13					

Water Well Record
Bureau of Water
dhec
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 0158 RDC-45

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS:		

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" and 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" and 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: THEODORE RAMEY CERT. NO.: 1965
Address: (Print) 407 SIERRA ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: Well Driller Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K

DATE STARTED: 10/24/20

DATE FINISHED: 10/24/20

AST ENVIRONMENTAL, INC.

BORING IDENTIFICATION: RDC-45

TOTAL DEPTH: 12'

SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'

DRILLING CONTRACTOR: AST Enterprises Inc.

DEPTH TO WATER: NA

CASING: Shallow: 1" Deep: 3/4"

DRILLING METHOD: Dual Tube/Hollow-stem auger

LOGGED BY: Chase Noakes

DRILLING EQUIPMENT: 7822DT

PROJECT MANAGER: Nathan Mau

REG. NO.

SAMPLING METHOD: 4-foot Dual Tube 3.75

DEPTH (feet)	RECOVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-45 (4-6)	1485	SM: Brown to gray silty sand, fine grained, well sorted, strong odor, damp
6	55			
7		RDC-45 (6-8)	1229	
8				
9		RDC-45 (8-10)	1449	SP: Light gray sand, fine grained, soft, wet
10	85			
11		RDC-45 (10-12)	48.1	
12				Boring Terminated 12'
13				

WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

- Bentonite chip seal
- Schedule 40 PVC casing
- #2/16 filter pack sand
- 0.010" slot, Schedule 40 PVC screen
- PVC Cap

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27602
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720686
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC. Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RIC-46

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.10 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS: SOIL BORING

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

7. PERMIT NUMBER: VST # 01589

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

9. WELL DEPTH (completed) N/A ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☐ Threaded ☐ Welded
Diam.: ____
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
____ in. to ____ ft. depth
____ in. to ____ ft. depth
Height: Above/Below Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ____ ft. to ____ ft.
Effective size ____ Uniformity Coefficient ____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From ____ ft. to ____ ft.

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

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

19. WELL DRILLER: THEODORE KREWITT CERT. NO.: 1905
Address: (Print) 407 S. 3RD ST. TIPP CITY, OHIO 45371
Level: A (B) C D (circle one)
Telephone No.: 937-790-0567 Fax No.:

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

Signed: ____ (Well Driller) Date: 2-8-21

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K		DATE STARTED: 10/24/20	AST ENVIRONMENTAL, INC.
BORING IDENTIFICATION: RDC-46		DATE FINISHED: 10/24/20	
DRILLING CONTRACTOR: AST Enterprises Inc.		TOTAL DEPTH: 12'	SCREEN INTERVAL: NA
DRILLING METHOD: Dual Tube		DEPTH TO WATER: NA	CASING: NA
DRILLING EQUIPMENT: 7822DT		LOGGED BY: Chase Noakes	
SAMPLING METHOD: 4-foot Dual Tube 2.25		PROJECT MANAGER: Nathan Mau	REG. NO.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
0–4	0			Hand Clear	
4–7	75	RDC-46 (4-6)	1226	MH: Gray to brown clayey silt, soft, high plasticity, strong odor, moist	
7–8		RDC-46 (6-8)	1202	SP: Brown to gray sand, fine grained, well sorted, strong odor, damp	
8–12	75	RDC-46 (8-9)	837	SP: Light gray sand, fine grained, well sorted, strong odor, damp	
		RDC-46 (9-10)	37.9		
		RDC-46 (10-12)	10.9		
12–13				Boring Terminated 12'	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: CIRCLE K STORES INC. (last) (first)
Address: 1100 SITUS COURT SUITE 100
City: RALEIGH State: NC Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: CHARLESTON
Name: CIRCLE K 2720886
Street Address: 4315 SAVANNAH HWY
City: RAVENEL, SC Zip: 49470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 01589 RDC-47

4. ABANDONMENT: ☒ Yes ☐ No
Give Details Below
Grouted Depth: from 0.0 ft. to 12.0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
SEE ATTACHED		
BORING LOG		
TEMP WELLS		
WERE PULLED		
AFTER SAMPLES		
WERE TAKEN		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:

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

7. PERMIT NUMBER: UST # 01589

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

9. WELL DEPTH (completed) 12.0 ft. Date Started: 10-24-20 Date Completed: 10-24-20

10. CASING: ☒ Threaded ☐ Welded
Diam.: 1" AND 3/4"
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
0.0 in. to 3.0 ft. depth
0.0 in. to 8.0 ft. depth
Height: Above/Below Surface ft. Weight lb./ft. Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 1" AND 3/4"
Slot/Gauge: 0.010 Length: 4.0
Set Between: 3.0 ft. and 7.0 ft.
8.0 ft. and 12.0 ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from ft. to ft.
Effective size Uniformity Coefficient

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

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

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

19. WELL DRILLER: Theodore Kerr CERT. NO.: 1905
Address: (Print) 4075 3RD ST. Level: A (B) C D (circle one)
TIPP CITY, OHIO 45371
Telephone No.: 937-790-0567 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Well Driller Date: 3-8-21

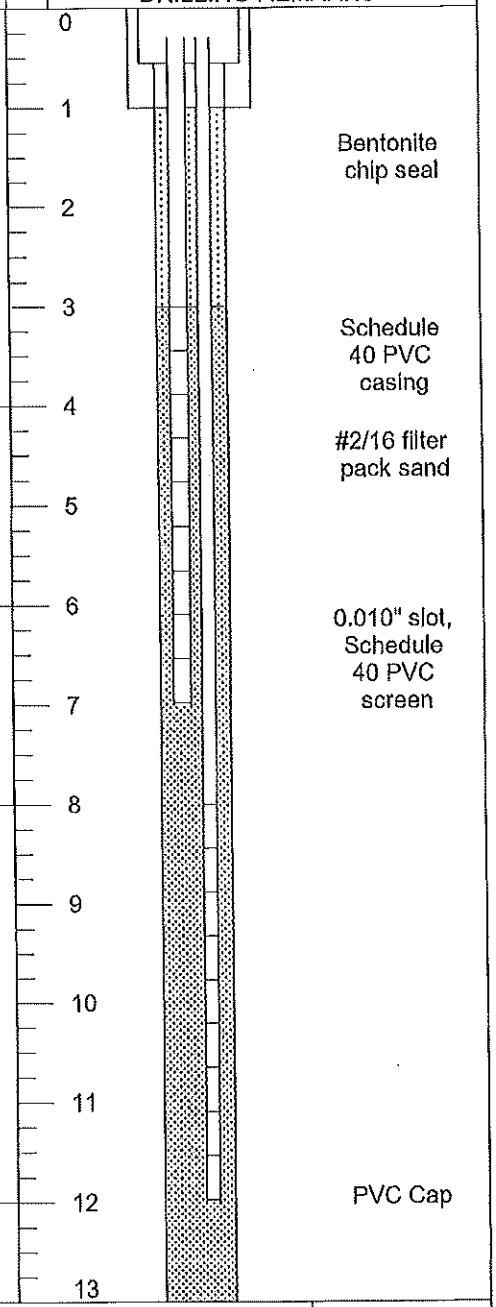
If D Level Driller, provide supervising driller's name:

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

PROJECT: ATC - Circle K	DATE STARTED: 10/24/20	AST ENVIRONMENTAL, INC.
BORING IDENTIFICATION: RDC-47	DATE FINISHED: 10/24/20	
DRILLING CONTRACTOR: AST Enterprises Inc.	TOTAL DEPTH: 12'	SCREEN INTERVAL: Shallow: 3-7' Deep: 8-12'
DRILLING METHOD: Dual Tube/Hollow-stem auger	DEPTH TO WATER: NA	CASING: Shallow: 1" Deep: 3/4"
DRILLING EQUIPMENT: 7822DT	LOGGED BY: Chase Noakes	
SAMPLING METHOD: 4-foot Dual Tube 3.75	PROJECT MANAGER: Nathan Mau	REG. NO.

DEPTH (feet)	REC-OVERY (%)	LAB I.D.	PID READING (ppm)	DESCRIPTION NAME (USCS): color, sorting, plasticity, mositure, sorting, grain size, packing
0				
1				
2	0			Hand Clear
3				
4				
5		RDC-47 (4-6)	81	MH: Gray to brown clayey silt, soft, high plasticity, strong odor, moist
6	75			
7		RDC-47 (6-8)	46.6	SP: Brown to gray sand, fine grained, well sorted, strong odor, damp
8				
9		RDC-47 (8-10)	165	
10	80			SP: Light gray sand, fine grained, well sorted, strong odor, damp
11		RDC-47 (10-12)	0.6	
12				
13				Boring Terminated 12'



WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS

- Bentonite chip seal
- Schedule 40 PVC casing
- #2/16 filter pack sand
- 0.010" slot, Schedule 40 PVC screen
- PVC Cap

Phase I BOS 200® Injection Report (4/26/2021)

665 McKinney Avenue
Midway, Kentucky 40347
Phone: 859-846-4900
Web Site: astenv.com

April 26, 2021

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

RE: Phase 1 - BOS 200® Injection Summary Report
Circle K 2720886
4315 Savannah Highway
Ravenel, South Carolina
UST Permit ID #01589; CA#59718

Dear Mr. Hubbard,

AST Environmental, Inc. (AST) appreciates the opportunity to have provided the injection services at the above referenced site. This letter report provides a summary of the Phase 1 - BOS 200® (BOS) injection event conducted from February 18th through April 8th, 2021. The attached Figure 1 and the summary below provides the original Phase 1 - BOS 200® injection scope:

Treatment Area	Surface Area (ft^2)	# of Injection Points	Triangular Grid Spacing	Vertical Interval (ft bgs)	BOS Total (lbs.)	Supplemental Gypsum Total (lbs.)	Magnesium Sulfate Total (lbs.)	Food Grade Starch Total (lbs.)	Yeast Extract Total (lbs.)
Area A	~1,900	76	5'	4'-12'	8,550	8,550	4,104	2,565	136
Area B	~4,250	170	5'	4'-8'	10,625	10,625	5,100	3,188	169
Area C	~3,200	128	5'	4'-6'	4,800	4,800	2,304	1,440	76
Area D	~3,150	126	5'	4'-8'	7,875	7,875	3,780	2,363	125
Area E	~400	16	5'	4'-12'	1,800	1,800	864	540	29
Area F	~950	38	5'	4'-6'	1,425	1,425	684	428	23
Area G	~150	6	5'	4'-10'	420	315	252	158	8
Totals	~14,000	560			35,500	35,400	17,100	10,700	605

The work was performed in accordance with the ATC Contract, AST's Scope of Work (SOW) and proposal dated January 15, 2021 as well as the email dated 1/29/2021 adding soft dig intrusive utility clearance and providing a water truck to AST's responsibilities.

Also, it should be noted that due to the relatively high-level of contaminant mass present within the shallow saturated zone, the Phase 1 BOS 200® injections were not designed as a stand-alone effort to achieve the site remedial goals of LNAPL removal and achievement of the SSTLs. As provided in the 15 January 2021, BOS 200® Injection Design Approach, a multi-phased approach is necessary given the significant contaminant mass present at the site.

SUMMARY OF FIELD ACTIVITIES

On February 17th, 2021, AST personnel mobilized to the site to coordinate the public and private surface utility clearance as well perform intrusive underground utility clearance activities. Presence of marked utilities was confirmed by vacuum excavating a pothole until each buried utility was visible (aka soft dig). The exact location of each line was marked on pavement with surveying pins and in unpaved areas with pin flags, and buried steel spikes that can be quickly located using a metal detector when completing the Phase 2 injection effort.

Each investigative hole was then backfilled with hydrated bentonite or a bentonite/Portland grout and finished to match the existing surface. Potholes were installed every 10'-15' on each marked line, spacing was dictated by the type of utility and how it was installed (e.g. 16" cast iron water mains were potholed with less frequency than 1" diameter HDD installed communication lines). AST noted the approximate depth to utility and whether NAPL was encountered in each pothole. Figure 1 provides the approximate location of the buried utilities in relation to the Phase 1 injection areas. Locations of buried utilities shown in Figures 1-4 are relative and do not exactly depict field conditions.

AST took delivery of 24,000 pounds (lbs.) of BOS 200, 40,000 lbs. of gypsum (calcium sulfate dihydrate), 11,100 lbs. of magnesium sulfate, 10,700 lbs. of corn starch and 605 lbs. of yeast extract between February 18th and February 22nd, 2021. AST personnel brought an additional 1,200 lbs of BOS 200 from in-house stores on February 23nd due to weather related shipping uncertainty. The remaining 6,000 lbs. of magnesium sulfate was delivered on March 3rd, 2021 and an additional 40,000 lbs. of BOS 200 was delivered on March 23rd, 2021. As shown above, Phase 1 injections required 35,500 lbs. of BOS 200 and 35,400 lbs. of supplemental gypsum. The additional amounts of these materials as well as the other products were brought to the site to accommodate the Phase 2 work, which was to follow-on within one to two months after the completion of Phase 1. See Attachment A for photographic documentation of injection material delivery and injection setup.

On February 23rd, 2021, additional AST personnel mobilized to the site, set up injection equipment and performed pre-injection groundwater sampling. Pre-injection groundwater samples collected on 2/23/2021 and were sent to RPI Laboratories in Golden, CO and analyzed for VOCs using EPA Method 8260B, Anions using EPA Method 300.1, and Headspace Gasses using EPA Method RSK-175.

As shown in the Attachment A – Photo Log, the BOS slurries were prepared using AST's trailer mounted mixing and injection system. AST utilized a 7822 Geoprobe™ to advance the 1.5" or 2.25" direct push rods, equipped with a 6-hole injection tip, in top-down fashion to ensure effective distribution within the subsurface during the injection efforts. Greater detail is provided below.

Table 1 provides injection data recorded at each of the 506 injection points installed. This table includes:

1. The injection point location identification (e.g. B-1),
2. The time each injection occurred,
3. Total recorded injection pressure,

4. Formation pressure,
5. The quantity of BOS 200® and additional injection chemicals installed at each vertical interval and daily totals, as well as the project totals,
6. The vertical interval of each injection in feet below ground surface (bgs), and
7. Any comments or observations by staff while performing each injection

It is important to note that the "Injection Pressure" column recorded in Table 1 represents the sum of the internal system pressure plus formation pressure. The internal system pressure includes all losses due to fittings, hoses, valves, and drill tooling. A close approximation of the actual pressure at the injection tip outlet can be estimated by subtracting the system losses from the recorded value observed at the discharge end of the pump. The system losses are measured and recorded in the field for each site-specific configuration being used. For the components used and flowrates operated during this injection event, the system pressure ranged from 280 to 680 psig. Subtracting the system pressure losses from the total recorded pressure provides the "Formation Pressure", which is shown in this table as well.

Initial BOS 200® Pilot Testing to Verify Injection Point Spacing and Injection Fluid Volume Needed

Injections initiated on February 24th, 2021, using AST's double pump mixing and injection system, capable of 70 gallons per minute (gpm) at up to 1,200 psig. The injection tip used was constructed with a 5/8" inner diameter and six (6) $^{5}/_{32}$" diameter exit ports oriented 60° apart in the same horizontal plane. Injections were initiated at 70 gpm in an attempt to fluidize the sand within the treatment zone and achieve optimal mixing and propagation of the slurry. As seen in Table 1 and Figure 2, injections were started at Injection Point D-67 in Area D near MW-2. D-67 was approximately 5 feet from MW-2 and while injecting here and other points within ~10' of a well, when feasible, the water level in the well was monitored and noted after each injection. As seen in Table 1, water level rise was noted while injecting near MW-2 on 2/24/2021 and field personnel adjusted the injection fluid volume from 15 to 20 gallons and varied the injection flow rate between 55 and 70 gpm. This in turn adjusted the fluid exit velocity. Given the lithology, the original goal was to achieve an exit velocity between 9,000 and 12,000 feet per minute. After completing a consolidated group of 9+ injection points in this area, two soil borings were completed to visually examine the soil throughout the vertical injection zone. The presence of BOS was noted in the clay residing from ~1-6'bgs and in seams within the sand below. AST continued adjusting the flow rate to find the setting that provided minimal daylighting and maximum subsurface distribution. It was found that injecting at a rate of 45-50gpm in the 4' and 5' bgs intervals where clay was encountered and increasing the flow rate to 60gpm when tooling was advanced into the sand maximized distribution without excessive daylighting.

Continuation of On-site Phase 1 Injections

Injections continued onsite in areas A, B and D, shown in detail in the included Figure 2, from February 24th through March 22nd. Due to the presence of numerous utilities and a large section of utility corridor where individual lines were impossible to locate in the shoulder of US-17, AST was unable to lay out the proposed 170 injection points in Area B. Of the 170 injection points proposed, 115 were laid out and completed. Some of the extra injection materials were installed in deeper intervals in areas B, C, D and F to begin treating deeper impacts that were to be addressed in the Phase 2 injection effort and in one addition injection point in Area D to complete the injection grid. The remaining extra material was held over at the completion of Phase 1 to be used in Phase 2.

Groundwater samples and a visual soil boring were collected on March 10th as the team was preparing the site for a weekend off. The soil boring showed a seam of BOS present in the sandy soil below 6'. This prompted AST to adjust the injection tooling used from a 6-hole tip to a 9-hole tip

to promote more fluidization within the sandy formation.

Onsite injections resumed on March 15th and concluded on March 22nd. During the week of March 15th, all of the onsite wells were monitored daily for presence of LNAPL in order to determine the necessity of an enhanced fluid recovery (EFR) event to capture excess LNAPL liberated by the energy from the injections.

As seen in Table 2, the data collected showed a general downward trend in LNAPL presence in RW-1, RW-2 and RW-3 during the week of the 15th and it was decided to postpone the planned EFR event to a later date, at the completion of the Phase 1 injection effort. AST completed the onsite injections on March 22nd, 2021, and performed post injection monitoring well redevelopment, as well as collected another confirmatory soil boring in Area B, near RW-3.

Visual presence of BOS was noted, at 5', 9', 10', 11' and 12' below grade surface, which were consistent with the injection intervals of the nearby injection points. During the on-site injection effort, a total of 318 injection points were completed with injection amendment installation totals as follows:

BOS 200® (lbs.)	Supplemental Gypsum (lbs.)	Yeast Extract (lbs.)	Corn Starch (lbs.)	Magnesium Sulfate (lbs.)	Slurry Volume (gallons)
23,564	23,822	377	7,069	12,413	14,138

Although not detailed in Table 1, a facultative blend of bacteria was inoculated onto the BOS 200 prior to injection as rate of 1 gallon of bacteria concentrate to 500 pounds of BOS 200. Therefore, ~50 gallons of this bacteria concentrate were used onsite during the Phase 1 injections. This bacteria blend consists of both aerobic and anaerobic petroleum degraders as well as bacteria that breakdown the starch to support the biomass.

Off-Site Phase 1 Injections

On March 23rd, 2021, AST personnel moved injection equipment and materials into the median of US-17 to perform injections in areas C and E, shown in detail in in the included Figure 3. Photos of this injection equipment setup are provided in Attachment A.

Likely due to the shallower depth to water and the more highly disturbed soils in the highway corridor, excessive daylighting was encountered in Area C that necessitated changes to the injection plan. AST first attempted to mitigate the daylighting by varying the injection flow rate and injection tip geometry but ultimately it was decided to shift the injection interval down to slightly deeper intervals as the product was migrating upward during the injections. The injections were performed from 5' to 8' bgs. AST continued to observe water level rise in nearby monitoring wells as injections were performed in the median. On March 27th, AST personnel purged RW-5, RW-9, MW-6 and MW-7 to remove LNAPL and noted the presence of BOS in RW-5 and RW-9. Injections in Areas C and E, within the median, were completed on March 31st.

On April 6th, 2021, AST staff moved injection equipment and materials to the southbound shoulder of US-17 and began injecting in Areas F and G, shown in detail in the included Figure 4. While injecting in Area F, AST personnel monitored the locations where LNAPL/road subbase were previously observed seeping out of the pavement. Throughout the injection effort in areas F and G, a moderate amount of daylighting along the edge of pavement was encountered which at times brought tar-like NAPL to the surface with it. The presence of NAPL in the surfaced material was most notable in the area directly around RW-11. Due to the high NAPL content in the daylighted material, AST was unable to reinject this material, so it was contained and allowed to dry before being drummed for disposal.

AST did not observe continued seepage of NAPL/road sub-base within the injection area during or immediately following the injection effort in Area F. During the off-site injection effort, a total of 188 injection points were completed with material installation totals as follows:

BOS 200® (lbs.)	Supplemental Gypsum (lbs.)	Yeast Extract (lbs.)	Corn Starch (lbs.)	Magnesium Sulfate (lbs.)	Slurry Volume (gallons)
8,886	8,728	118	2,681	4,687	5,332

The remaining ~20 gallons originally delivered for the Phase 1 injection effort was used for the offsite injections.

As stated above, Figure 1 provides an overview of proposed injection areas and Figures 2 through 4 provide the detailed as-builts for the Phase 1 injection effort. Also, as stated above, the photographic documentation of the field effort is included as Attachment A.

All injections were completed on Thursday April 8th, 2021. As discussed above, Table 1 provides the details for each of the injections that combined for the installation of 32,450 lbs of BOS 200®, 32,550 lbs of supplemental gypsum, 495 lbs of yeast extract, 9,750 lbs of food grade starch and 17,100 lbs of magnesium sulfate in 506 injection points. Prior to injection of amendment slurries, 70 gallons of the facultative bacteria blend was inoculated onto the BOS 200®.

Once each injection point was completed, the direct push rods were removed, then the borehole was sealed with hydrated bentonite to within approximately 4 to 6 inches of ground surface. The balance of each borehole was then capped with concrete, asphalt or soil to match the native surface.

CONCLUSIONS AND RECOMMENDATIONS

AST made slight modifications to the original BOS injection design to:

1. Install as much BOS 200® as possible in the areas known to contain LNAPL or high concentrations of BTEX compounds.
2. Minimize waste due to daylighting/surfacing of BOS 200 during injections.
3. Account for utility corridors and differences between actual field conditions and the original site plans.

Injection flow rates were variable during the injection event due to field observations such as surfacing. Initially the flow rate was set at 70 gpm, but this greatly increased the instances and amount of daylighting. Thus, the decision was made to back down to ~50-60 gpm to decrease the amount of daylighting while maintaining proper distribution in the subsurface. AST found that while injecting in the clay zone that was typically encountered from ~1-5'bgs a flow rate of 40-45 gpm was ideal and as the soil transitioned to sand the flow rate was increased to 50-55gpm.

Adequate distribution was observed throughout the injection event, instances of distribution include (but are not limited to) a hydraulic response and/or visual identification of BOS 200® intersection within monitoring wells or minor surfacing/daylighting at an approximately equivalent distance to the injection point grid spacing from the point of injection. These instances are noted in Table 1 with notable instances as follows:

- On February 27th, during injections at point D-68, groundwater in MW-2 rose from 2' below top of casing (btc) to overtopping the casing while injecting at 10' bgs.
- On March 4th, during injections at point B-33, groundwater in RW-7 rose 2' while injecting at 7' bgs.
- On March 16th, during injections at point B-86, groundwater in RW-2 rose from 2.43' btc to

the ground surface while injections were performed at 10' bgs.

- On March 26th, during injections at point E-7, groundwater in MW-7 rose from 2.45' btc to the ground surface while injections were performed from 5' to 9' bgs.

Throughout the injection effort, AST gauged depth to NAPL and depth to water in site wells within injection areas where NAPL was previously encountered. This gauging data is included in the attached Table 2. The data collected shows an overall reduction in LNAPL in all wells gauged with the exception of RW-2 and RW-7, where LNAPL levels increased slightly from 0.04' to 0.05' and 0.05' to 0.15', respectively. It is difficult to draw conclusions based on this limited data set as fluctuations in LNAPL thickness are normal without the additional factors introduced during injections including carbon adsorption and localized liberation of LNAPL due to energy imparted on the subsurface formation during injections.

AST re-developed and purged the monitoring and recovery wells within the injection areas throughout the Phase 1 injection event. Groundwater samples were collected on multiple occasions as work progressed and at the completion of Phase 1 injections. The purpose of monitoring LNAPL levels, and collection of groundwater samples is to provide supporting evidence of the hydraulic effects from the injections and for the BOS 200 distribution within the formation, as well as verify the initiation of biological processes to support the long-term treatment.

The visual presence of BOS 200 in borings and wells provides another line of evidence of effective subsurface distribution. The presence of increased concentrations of terminal electron acceptors (TEAs), such as sulfate and nitrate further demonstrate distribution of the amendment slurries. Table 3 provides the short-term performance data from groundwater samples analyzed at the RPI Group Project Support Laboratory in Golden, CO. The methods and analytes were VOCs and TVPH using EPA Method 8260B, Anions using EPA Method 300.1 and Headspace Gasses using EPA Method RSK-175.

To gain insight on the effects of Phase 1 injections it is recommended to continue monitoring the following site conditions:

- Trends in TEAs, acetate, methane, and carbon dioxide concentrations in groundwater that indicate continued biodegradation processes;
    - Given the pre-injection contaminant mass residing within the Phase 1 injection area, it is expected that excess sulfate (primary TEA, supporting the sulfate reducing bacteria) will be consumed relatively quickly at which point, the rate of reduction will slow as the system becomes dependent on natural sources for TEAs.
- Presence/Thickness of LNAPL in monitoring/recovery well network:
    - Dissolved phase concentrations will continue to rebound until LNAPL is removed.
    - As originally planned, LNAPL should be removed from wells during sampling events as wells can act as "sinks" for LNAPL to collect.

The objective of Phase 1 injections was to target areas identified during the RDC as having soil concentrations greater than 4,000 mg/Kg of TVPH and 15 mg/Kg Benzene. As seen in Table 3, immediate reductions have been realized in TVPH and petroleum compounds (including BTEX) during injections as the carbon adsorbed contaminants. This is seen in results from MW-1; RW's 1, 2, 3 and 7 onsite and MW's 6 and 7; RW's 5, 9, 11 and 12 offsite. However, BTEX and TVPH parameters are expected to rebound as the subsurface system equilibrates from back diffusion as contaminant mass desorbs from saturated soil. For this reason, some of the most critical parameters to monitor at this time are sulfate, nitrate, carbon dioxide and methane. These parameters will give insight into both distribution and the biological processes taking place. As seen in Table 3, increases of these parameters, most notably sulfate, are seen throughout the monitoring and recovery well network when comparing pre- and post- injection concentrations.

While the improvements observed since the initiation of the Phase 1 injection event are promising, based on the original total petroleum hydrocarbon (TPH) mass determined from the RDC, AST maintains that these are likely short-term changes and to meet the remediation goals of the project, the AST recommends moving forward with Phase 2 of the injection effort.

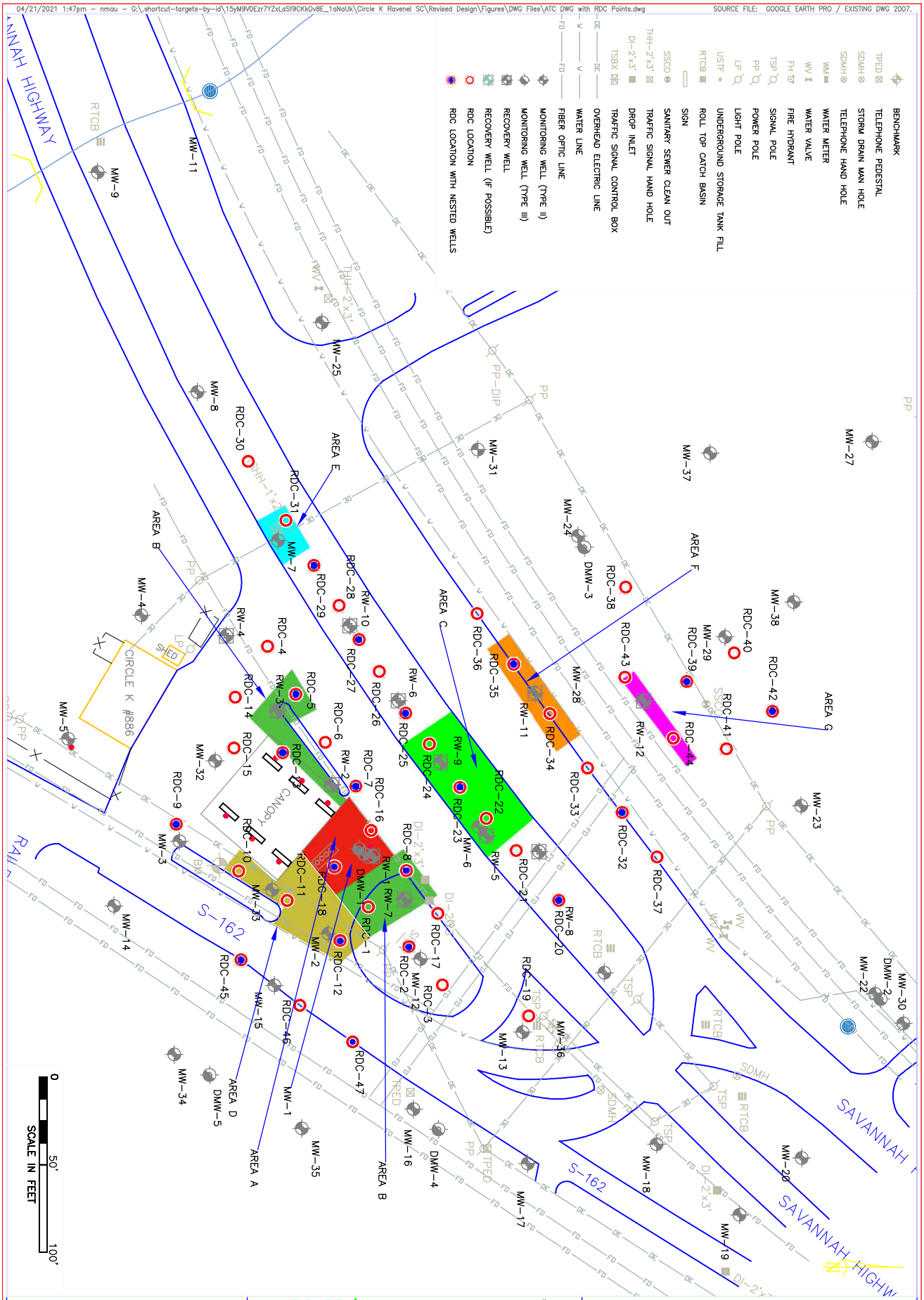
If you have any questions or wish to discuss the information provided herein, please feel free to contact Nathan Mau at (540) 293-5142 or via email at nmau@astenv.com or Gary Simpson at (859) 846-4900 or gsimpson@astenv.com.

Sincerely,
AST Environmental, Inc.

Nathan Mau
Project Manager

Gary E. Simpson
Vice President

FIGURES



NOTES:

TITLE FIGURE 1

UST PERMIT #01589

SITE MAP WITH PHASE 1 INJECTION AREAS
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

ATC
ENVIRONMENTAL GEOTECHNICAL
BUILDING SCIENCES MATERIALS TESTING

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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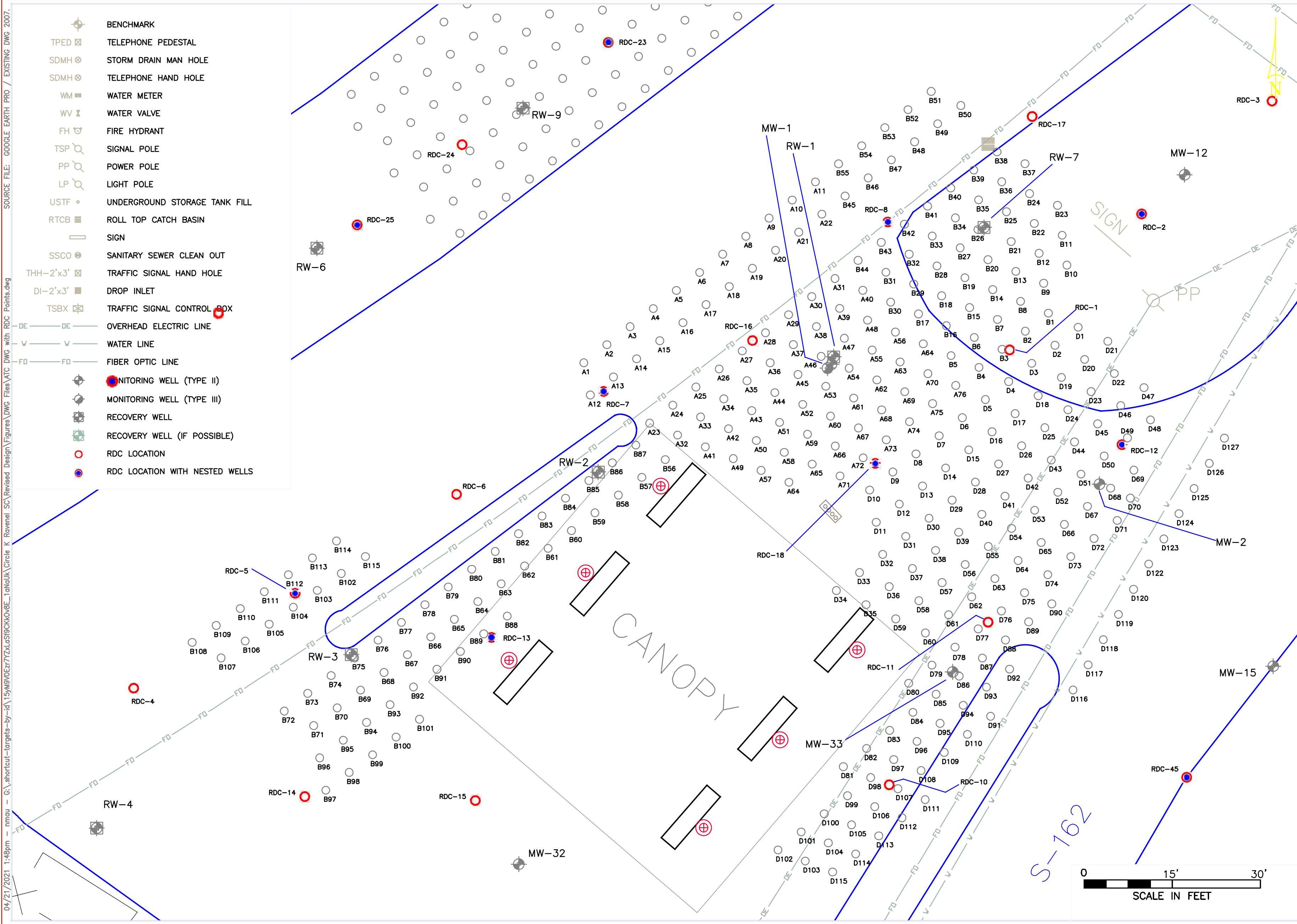

NOTES:

TITLE FIGURE 2
PHASE 1 INJECTION AREAS A, B, D DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

UST PERMIT #01589

ATC
ENVIRONMENTAL GEOTECHNICAL
BUILDING SCIENCES MATERIALS TESTING

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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SOURCE FILE: GOOGLE EARTH PRO / EXISTING DWG 2007.

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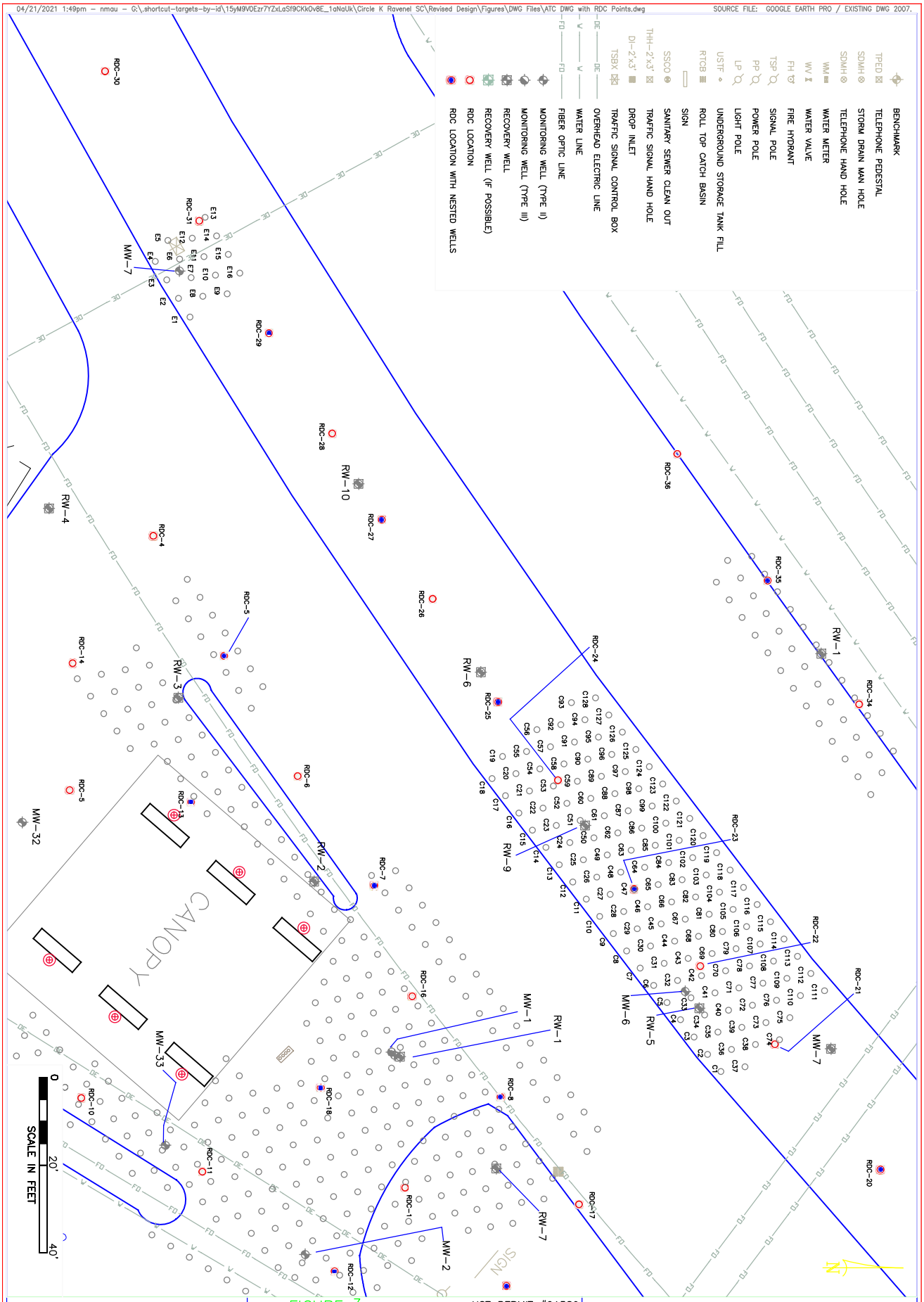

NOTES:

TITLE FIGURE 3

UST PERMIT #01589

PHASE 1 INJECTION AREAS C, E DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

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CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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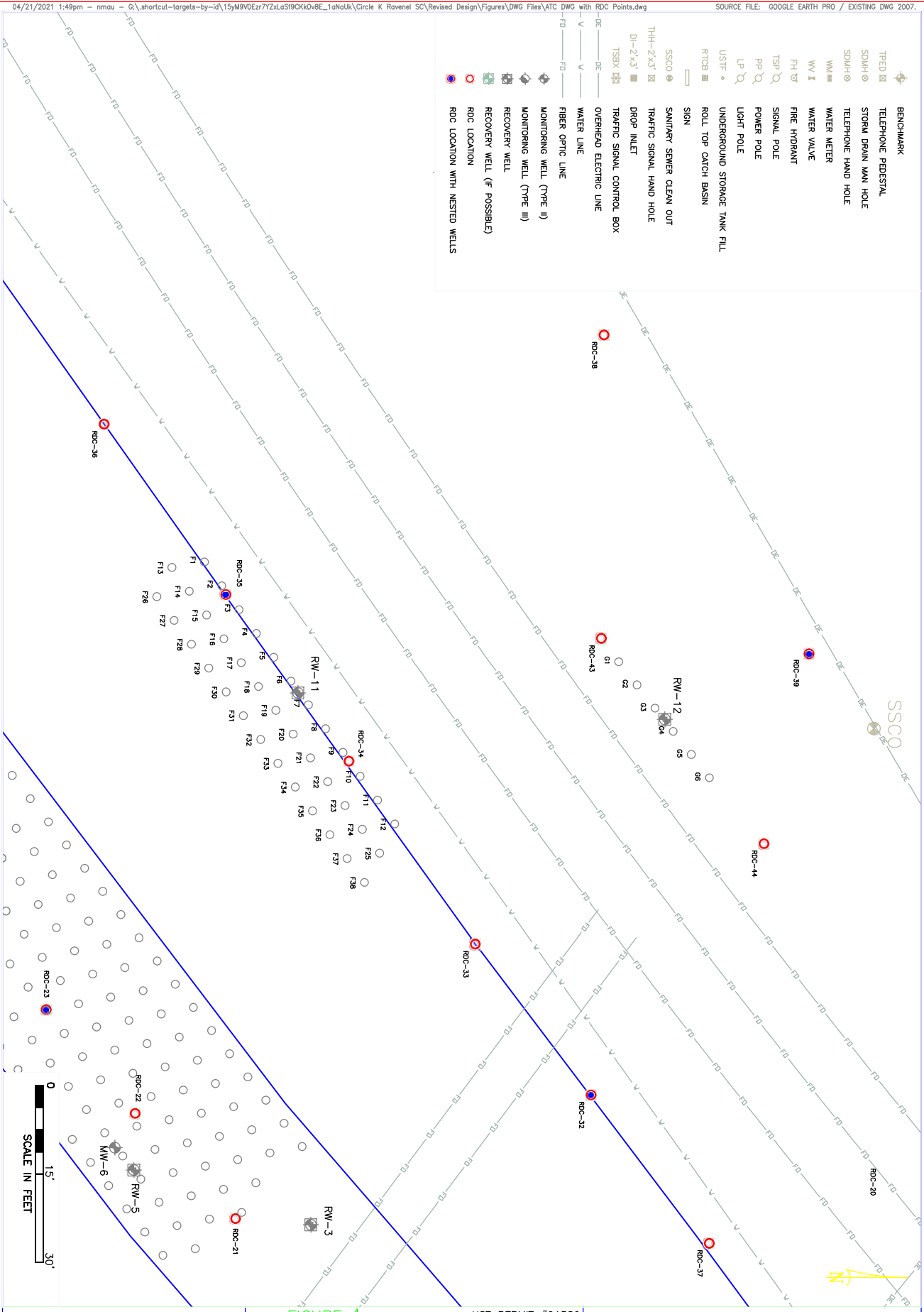

NOTES:

TITLE FIGURE 4

UST PERMIT #01589

PHASE 1 INJECTION AREAS F, G DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

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CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1252215.dwg		BH		1"=15'	04/12/2021	CIRK088610

TABLES

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*								**70 GPM**
	Internal System Pressure 2(psig)			*400*								**50 GPM**
	Internal System Pressure 3(psig)			*280*								**35 GPM**
2/24/2021	D-67	10:13	920	240	25.00	25.00	0.40	7.50	13,17	15	5	MW-2 DTW 2.15' PRE-INJ (70 GPM)
		10:15	880	200	25.00	25.00	0.40	7.50	13,17	15	7	
	D-50	10:26	980	300	33.33	33.33	0.53	10.00	17.56	20	4	DTW 2.1
		10:28	940/420	540/20	33.33	33.33	0.53	10.00	17.56	20	6	DTW 1.8
		10:30	620	220	33.33	33.33	0.53	10.00	17.56	20	8	DTW.1.9 MIN DL POST - INJ 7' NE
	D-44	10:55	800/500	400/100	33.33	33.33	0.53	10.00	17.56	20	4	MW-2 2.05'
		10:57	800/640	400/240	33.33	33.33	0.53	10.00	17.56	20	6	
		10:59	800/500	400/100	33.33	33.33	0.53	10.00	17.56	20	8	MW-2 1.9' POST INJ. MIN DL FROM CRACK 5' NE 15 MIN LATER
	D-43	11:30	500/900	100/500	33.33	33.33	0.53	10.00	17.56	20	5	
		11:31	780/580	380/180	33.33	33.33	0.53	10.00	17.56	20	7	
	D-15	14:09	400/600	0/200	33.33	33.33	0.53	10.00	17.56	20	3	SWITCH TO 55 GPM
		14:10	500/600	220/320	33.33	33.33	0.53	10.00	17.56	20	5	
		14:11	420/480	20/80	33.33	33.33	0.53	10.00	17.56	20	7	MOD DL CRACK 7' N
	D-27	14:37	380/320	100/40	16.67	16.67	0.27	5.00	8.78	10	3	
		14:38	340/420	60/140	25.00	25.00	0.40	7.50	13,17	15	5	
		14:39	700/500	300/100	33.33	33.33	0.53	10.00	17.56	20	7	70 GPM - MIN DL CRACK 8' S POST-INJ
	D-16	15:27	380/300	100/20	25.00	25.00	0.40	7.50	13,17	15	4	45 GPM
		15:29	400	120	25.00	25.00	0.40	7.50	13,17	15	6	55 GPM
		15:31	600	200	25.00	25.00	0.40	7.50	13,17	15	8	70 GPM - MOD DL IMED. POST INJ.
					566.67	**566.67**	**9.07**	**170.00**	**298.52**	**340.00**		**Daily Totals**
2/25/2021	D-69	07:31	420	20	33.33	33.33	0.53	10.00	17.56	20	3	2.25' PRE
		07:33	480	80	33.33	33.33	0.53	10.00	17.56	20	5	
		07:35	680	280	33.33	33.33	0.53	10.00	17.56	20	7	MIN DL BY CURB 12' NE 2.2' POST
	D-14	08:21	680	280	25.00	25.00	0.40	7.50	13.17	15	4	
		08:23	620	220	25.00	25.00	0.40	7.50	13.17	15	6	
		08:25	640/440	240/40	25.00	25.00	0.40	7.50	13,17	15	8	
	D-66	08:41	600	200	25.00	25.00	0.40	7.50	13,17	15	4	
		08:42	520	120	25.00	25.00	0.40	7.50	13,17	15	6	
		08:42	620/520	220/120	25.00	25.00	0.40	7.50	13,17	15	8	
	B-13	09:07	820/620	540/340	25.00	25.00	0.40	7.50	13,17	15	4	MOD DL WHERE CURB MEETS GRASS 5' E
		09:09	640/420	240/20	25.00	25.00	0.40	7.50	13,17	15	6	MIN DL SAA
		09:10	420/360	140/80	25.00	25.00	0.40	7.50	13,17	15	8	
	D-46	09:41	720	320	25.00	25.00	0.40	7.50	13,17	15	4	
		09:43	720/600	320/200	25.00	25.00	0.40	7.50	13,17	15	6	MIN DL 2' E
		09:44	620/520	220/120	25.00	25.00	0.40	7.50	13,17	15	8	
	D-6	10:18	720/620	320/220	25.00	25.00	0.40	7.50	13,17	15	4	
		10:20	720/580	320/180	25.00	25.00	0.40	7.50	13,17	15	6	
		10:21	620/320	340/40	25.00	25.00	0.40	7.50	13,17	15	8	
	D-70	10:39	520/340	240/60	25.00	25.00	0.40	7.50	13,17	15	4	DTW 2.15' PRE-INJ (70 GPM)
		10:42	520/240	240/-40	25.00	25.00	0.40	7.50	13,17	15	6	
		10:43	620/260	340/-20	25.00	25.00	0.40	7.50	13,17	15	8	DTW 2.05 MAJ DL D-50
	D-28	12:50	580/680	300/400	25.00	25.00	0.40	7.50	13,17	15	4	55 GPM
		12:53	580/480	300/200	25.00	25.00	0.40	7.50	13,17	15	6	65 GPM
		12:54	880	480	25.00	25.00	0.40	7.50	13,17	15	8	MOD DL CRACK 8' S
	D-30	13:08	680	280	25.00	25.00	0.40	7.50	13,17	15	4	
		13:09	500	100	25.00	25.00	0.40	7.50	13,17	15	6	
		13:10	580/520	180/120	25.00	25.00	0.40	7.50	13,17	15	8	MAJ DL FROM PRECLEARED SPOT 5' NE
	D-32	13:48	720	320	25.00	25.00	0.40	7.50	13,17	15	4	
		13:50	720/580	320/180	25.00	25.00	0.40	7.50	13,17	15	6	
		13:51	500	100	25.00	25.00	0.40	7.50	13,17	15	8	
	D-34	14:19	480/320	200/40	25.00	25.00	0.40	7.50	13,17	15	4	
		14:21	500/240	220/0	25.00	25.00	0.40	7.50	13,17	15	6	MIN DL CONCRETE ASPHAULT SEAM
		14:23	600/420	320/140	25.00	25.00	0.40	7.50	13,17	15	8	MOD DL SAA
	D-64	14:42	500/220	220/0	25.00	25.00	0.40	7.50	13,17	15	4	
		14:45	580/200	300/0	25.00	25.00	0.40	7.50	13,17	15	6	
		14:45	280/200	280/0	25.00	25.00	0.40	7.50	13,17	15	8	
	D-62	14:59	780	380	25.00	25.00	0.40	7.50	13,17	15	4	
		15:00	500	100	25.00	25.00	0.40	7.50	13,17	15	6	
		15:01	880/500	480/100	25.00	25.00	0.40	7.50	13,17	15	8	
	D-60	15:20	520/400	120/0	25.00	25.00	0.40	7.50	13,17	15	4	
		15:25	880	480	25.00	25.00	0.40	7.50	13,17	15	6	
		15:26	680	280	25.00	25.00	0.40	7.50	13,17	15	8	
	D-90	15:40	620/720	220/320	25.00	25.00	0.40	7.50	13,17	15	4	
		15:41	980	580	25.00	25.00	0.40	7.50	13,17	15	6	MOD DL CRACK 6' S
		15:47	800/580	400/180	25.00	25.00	0.40	7.50	13,17	15	8	
	D-88	16:05	620	220	25.00	25.00	0.40	7.50	13,17	15	4	
		16:06	960	560	25.00	25.00	0.40	7.50	13,17	15	6	
		16:07	860/480	460/80	25.00	25.00	0.40	7.50	13,17	15	8	MOD DL CRACK 14' SE
					1225.00	**1225.00**	**19.60**	**367.50**	**645.33**	**735.00**		**Daily Totals**
2/26/2021	D-86	07:54	240/200	60/20	25.00	25.00	0.40	7.50	13.17	15	4	35 GPM MW-33 2.8' PRE INJ -
		07:56	480	200	25.00	25.00	0.40	7.50	13,17	15	6	
		07:57	480	200	25.00	25.00	0.40	7.50	13,17	15	8	
	D-84	08:08	400	120	25.00	25.00	0.40	7.50	13,17	15	4	
		08:10	400	120	12.50	12.50	0.20	3.75	6.59	7.5	6	MAJ DL 5' NE ASPHAULT/CONCRETE SEAM
		08:14	400	120	8.33	8.33	0.13	2.50	4.39	5	8	SAA
	D-108	08:38	340/460	60/180	25.00	25.00	0.40	7.50	13.17	15	4	
		08:40	440	160	25.00	25.00	0.40	7.50	13,17	15	6	MOD DL SAA POST-INJ
		08:44	440	160	16.67	16.67	0.27	5.00	8.78	10	8	SAA WHILE SHOOTING
	D-106	09:03	580/440	180/40	25.00	25.00	0.40	7.50	13.17	15	4	55 GPM
		09:04	780/500	380/100	25.00	25.00	0.40	7.50	13.17	15	6	
		09:06	780/420	380/20	25.00	25.00	0.40	7.50	13,17	15	8	MIN DL CURB 8' ESE
	D-104	09:26	780/480	380/80	25.00	25.00	0.40	7.50	13,17	15	4	
		09:28	440	40	25.00	25.00	0.40	7.50	13.17	15	6	
		09:28	620/580	220/180	25.00	25.00	0.40	7.50	13,17	15	8	
	D-115	09:57	420	20	25.00	25.00	0.40	7.50	13,17	15	5	
		09:57	720/420	320/20	25.00	25.00	0.40	7.50	13,17	15	7	MOD DL CURB 4' ESE
	D-102	10:28	580/500	180/100	25.00	25.00	0.40	7.50	13,17	15	4	
		10:30	680/480	280/80	25.00	25.00	0.40	7.50	13,17	15	6	
		10:31	780/580	380/180	25.00	25.00	0.40	7.50	13,17	15	8	
	D-110	10:47	540/760	140/360	25.00	25.00	0.40	7.50	13,17	15	4	DTW 2.75' PRE INJ
		10:49	580/500	180/100	25.00	25.00	0.40	7.50	13,17	15	6	DTW 2.65 PRE INJ
		10:51	580	180	25.00	25.00	0.40	7.50	13,17	15	8	MOD DL IN GRAVEL 2.1 DURING INJ - 2.25 POST
	D-10	11:28	920	520	25.00	25.00	0.40	7.50	13.17	15	4	
		11:29	800/700	400/300	25.00	25.00	0.40	7.50	13,17	15	6	
		11:31	680	280	25.00	25.00	0.40	7.50	13,17	15	8	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*								**70 GPM**
	Internal System Pressure 2(psig)			*400*								**50 GPM**
	Internal System Pressure 3(psig)			*280*								**35 GPM**
	D-36	11:40	280/480	0/200	25.00	25.00	0.40	7.50	13.17	15	4	
		11:50	600/400	200/0	25.00	25.00	0.40	7.50	13.17	15	6	
		11:51	960/580	560/180	25.00	25.00	0.40	7.50	13.17	15	8	
	D-38	13:12	580	180	25.00	25.00	0.40	7.50	13.17	15	4	
		13:13	560	160	25.00	25.00	0.40	7.50	13.17	15	6	
		13:14	600	200	25.00	25.00	0.40	7.50	13.17	15	8	
	D-40	13:20	600	200	25.00	25.00	0.40	7.50	13.17	15	4	
		13:21	680/480	280/80	25.00	25.00	0.40	7.50	13.17	15	6	
		13:22	600	200	25.00	25.00	0.40	7.50	13.17	15	8	
	D-42	13:35	400/640	0/240	25.00	25.00	0.40	7.50	13.17	15	4	
		13:36	580/420	180/20	25.00	25.00	0.40	7.50	13.17	15	6	
		13:36	480/340	200/60	25.00	25.00	0.40	7.50	13.17	15	8	
	D-58	14:07	400	0	25.00	25.00	0.40	7.50	13.17	15	4	
		14:08	620/480	220/80	25.00	25.00	0.40	7.50	13.17	15	6	
		14:09	740/540	340/140	25.00	25.00	0.40	7.50	13.17	15	8	
	D-56	14:15	600/480	200/80	25.00	25.00	0.40	7.50	13.17	15	4	
		14:16	600/440	200/40	25.00	25.00	0.40	7.50	13.17	15	6	
		14:19	500/440	100/40	25.00	25.00	0.40	7.50	13.17	15	8	
	D-54	14:36	500/400	100/0	25.00	25.00	0.40	7.50	13.17	15	4	
		14:38	600/400	200/0	25.00	25.00	0.40	7.50	13.17	15	6	
		14:40	580/220	300/0	25.00	25.00	0.40	7.50	13.17	15	8	
	D-52	14:53	540/440	140/40	25.00	25.00	0.40	7.50	13.17	15	4	
		14:54	580/440	180/40	25.00	25.00	0.40	7.50	13.17	15	6	
		14:55	580/440	180/40	25.00	25.00	0.40	7.50	13.17	15	8	
	D-12	16:29	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	4	
		16:31	380/320	100/40	25.00	25.00	0.40	7.50	13.17	15	6	
		16:31	680/580	280/180	25.00	25.00	0.40	7.50	13.17	15	8	
	D-5	16:38	520	120	25.00	25.00	0.40	7.50	13.17	15	5	
		16:39	600	200	25.00	25.00	0.40	7.50	13.17	15	7	
					1337.50	**1337.50**	**21.40**	**401.25**	**704.60**	**802.50**		**Daily Totals**
2/27/2021	D-68	07:59	380/480	100/200	25.00	25.00	0.40	7.50	13.17	15	4	MULTIPLE BREAKS IN PRESSURE, MW-2 DTW 2.35 PRE INJ
		08:00	380/480	100/200	25.00	25.00	0.40	7.50	13.17	15	6	2.25 DTW
		08:02	380/480	100/200	25.00	25.00	0.40	7.50	13.17	15	8	2' POST INJ
		08:07	520	240	25.00	25.00	0.40	7.50	13.17	15	10	70 GPM FIRST 2.5 GALLONS WATER ROSE TO TOP OF MW-2 - CAP WELL
		08:09	680/440	400/160	25.00	25.00	0.40	7.50	13.17	15	12	
	D-72	08:20	500/380	220/100	25.00	25.00	0.40	7.50	13.17	15	4	
		08:21	780/500	500/220	25.00	25.00	0.40	7.50	13.17	15	6	
		08:22	780/500	500/220	25.00	25.00	0.40	7.50	13.17	15	8	
	D-74	09:17	480/440	200/160	25.00	25.00	0.40	7.50	13.17	15	4	
		09:18	600/520	320/240	25.00	25.00	0.40	7.50	13.17	15	6	
		09:19	600	320	25.00	25.00	0.40	7.50	13.17	15	8	
	D-76	09:31	580/440	300/160	25.00	25.00	0.40	7.50	13.17	15	4	
		09:32	580/420	300/140	25.00	25.00	0.40	7.50	13.17	15	6	
		09:33	520/440	240/160	25.00	25.00	0.40	7.50	13.17	15	8	
	D-78	10:02	480/220	200/-60	25.00	25.00	0.40	7.50	13.17	15	4	
		10:03	460/280	180/0	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL CURB 12' S
		10:06	480/240	200/0	25.00	25.00	0.40	7.50	13.17	15	8	SAA
	D-80	10:10	600	200	25.00	25.00	0.40	7.50	13.17	15	4	
		10:11	520	120	25.00	25.00	0.40	7.50	13.17	15	6	
		10:12	780/500	380/100	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL CURB 15' SE AND MW-33 WELL PAD
	D-98	10:42	740/660	340/260	25.00	25.00	0.40	7.50	13.17	15	4	
		10:43	740/680	340/280	16.67	16.67	0.27	5.00	8.78	10	6	MOD DL ASPHAULT/CONCRETE SEAM 7' N
		10:46	760/500	360/100	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL SAA
	D-100	10:54	720	320	25.00	25.00	0.40	7.50	13.17	15	4	
		10:57	720/580	320/180	25.00	25.00	0.40	7.50	13.17	15	6	
		10:57	720/580	320/180	25.00	25.00	0.40	7.50	13.17	15	8	
	D-114	11:40	600/520	200/120	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL ASPHAULT/CONCRETE CURB 5' SE
		11:41	720/520	320/120	25.00	25.00	0.40	7.50	13.17	15	6	MOD SAA
		11:43	820/620	420/220	16.67	16.67	0.27	5.00	8.78	10	8	MAJ SAA
	D-120	13:09	800/660	400/260	25.00	25.00	0.40	7.50	13.17	15	4	
		13:11	800/560	400/160	25.00	25.00	0.40	7.50	13.17	15	6	
		13:12	780/620	380/220	25.00	25.00	0.40	7.50	13.17	15	8	
	D-122	13:18	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	4	
		13:19	700/540	300/140	25.00	25.00	0.40	7.50	13.17	15	6	
		13:20	720/480	320/80	25.00	25.00	0.40	7.50	13.17	15	8	
	D-124	13:55	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	4	
		13:56	680/440	280/40	25.00	25.00	0.40	7.50	13.17	15	6	
		13:57	680/500	280/100	25.00	25.00	0.40	7.50	13.17	15	8	
	D-126	14:15	600	200	25.00	25.00	0.40	7.50	13.17	15	4	
		14:16	800/700	400/300	25.00	25.00	0.40	7.50	13.17	15	6	
		14:16	860/700	460/300	25.00	25.00	0.40	7.50	13.17	15	8	
	D-8	14:49	440	40	25.00	25.00	0.40	7.50	13.17	15	4	
		14:50	620/480	220/80	25.00	25.00	0.40	7.50	13.17	15	6	
		14:50	680/540	280/140	25.00	25.00	0.40	7.50	13.17	15	8	
	D-11	14:56	780/620	380/220	25.00	25.00	0.40	7.50	13.17	15	5	
		14:57	500/320	100/0	25.00	25.00	0.40	7.50	13.17	15	7	
	D-35	15:22	740	340	25.00	25.00	0.40	7.50	13.17	15	5	
		15:23	600/520	200/120	25.00	25.00	0.40	7.50	13.17	15	7	
	D-37	15:27	880	480	25.00	25.00	0.40	7.50	13.17	15	5	
		15:28	940	540	25.00	25.00	0.40	7.50	13.17	15	7	
					1216.67	**1216.67**	**19.47**	**365.00**	**640.94**	**730.00**		**Daily Totals**
3/1/2021	D-51	08:00	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	5	2.5 DTW MW-2 PRE-INJ - 70 GPM
		08:02	620/480	220/80	25.00	25.00	0.40	7.50	13.17	15	7	
		08:04	460/300	180/20	25.00	25.00	0.40	7.50	13.17	15	9	MW-2 ROSE
		08:07	280/220	0	25.00	25.00	0.40	7.50	13.17	15	11	PLUG WELL PRE-INJ
	D-127	08:22	800/680	400/280	16.67	16.67	0.27	5.00	8.78	10	4	MOD DL EDGE OF ROAD 6' SE
		08:28	780/620	380/220	25.00	25.00	0.40	7.50	13.17	15	6	SAA
		08:32	720	320	16.67	16.67	0.27	5.00	8.78	10	8	PLUG WELL PRE-INJ, MAJ DL SAA
		08:40	900/720	500/320	25.00	25.00	0.40	7.50	13.17	15	10	NO DL
		08:42	720/620	320/220	25.00	25.00	0.40	7.50	13.17	15	12	
	A-76	09:27	520/420	120/20	25.00	25.00	0.40	7.50	13.17	15	4	
		09:28	540/400	140/0	25.00	25.00	0.40	7.50	13.17	15	6	
		09:30	500/320	100/-80	25.00	25.00	0.40	7.50	13.17	15	8	
		09:32	400/320	0/-80	25.00	25.00	0.40	7.50	13.17	15	10	
		09:33	580/320	180/-80	25.00	25.00	0.40	7.50	13.17	15	12	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
	A-74	09:39	560/480	160/80	25.00	25.00	0.40	7.50	13.17	15	4	
		09:41	560/440	160/40	25.00	25.00	0.40	7.50	13.17	15	6	
		09:42	780/520	380/120	25.00	25.00	0.40	7.50	13.17	15	8	
		09:43	640/500	240/100	25.00	25.00	0.40	7.50	13.17	15	10	
		09:44	920/720	520/320	25.00	25.00	0.40	7.50	13.17	15	12	
	A-72	10:13	540	140	25.00	25.00	0.40	7.50	13.17	15	4	
		10:14	540	140	25.00	25.00	0.40	7.50	13.17	15	6	
		10:15	760/620	360/220	25.00	25.00	0.40	7.50	13.17	15	8	
		10:30	740/540	340/140	25.00	25.00	0.40	7.50	13.17	15	10	
		10:31	740/540	340/140	25.00	25.00	0.40	7.50	13.17	15	12	
	A-58	10:36	500	100	25.00	25.00	0.40	7.50	13.17	15	4	
		10:38	540/440	140/40	25.00	25.00	0.40	7.50	13.17	15	6	
		10:38	460	60	25.00	25.00	0.40	7.50	13.17	15	8	
		10:40	1000/460	600/60	25.00	25.00	0.40	7.50	13.17	15	10	
		10:41	600/420	200/20	25.00	25.00	0.40	7.50	13.17	15	12	
	A-60	11:15	420/300	20/-100	25.00	25.00	0.40	7.50	13.17	15	4	
		11:16	540/320	140/-80	25.00	25.00	0.40	7.50	13.17	15	6	
		11:17	540/380	140/-20	25.00	25.00	0.40	7.50	13.17	15	8	
		11:18	560/320	160/-80	25.00	25.00	0.40	7.50	13.17	15	10	
		11:19	660/420	260/20	25.00	25.00	0.40	7.50	13.17	15	12	
	A-62	11:25	500/240	100/-160	25.00	25.00	0.40	7.50	13.17	15	4	
		11:27	440/180	40/-220	25.00	25.00	0.40	7.50	13.17	15	6	
		11:30	760/560	360/160	25.00	25.00	0.40	7.50	13.17	15	8	
		11:31	620	220	25.00	25.00	0.40	7.50	13.17	15	10	
		11:31	720/460	320/60	25.00	25.00	0.40	7.50	13.17	15	12	
	A-64	13:02	880/780	480/380	25.00	25.00	0.40	7.50	13.17	15	4	
		13:02	780	380	25.00	25.00	0.40	7.50	13.17	15	6	
		13:04	720/620	320/220	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL AROUND RODS
		13:05	760/620	360/220	25.00	25.00	0.40	7.50	13.17	15	10	SAA
		13:07	920/680	520/280	25.00	25.00	0.40	7.50	13.17	15	12	NO DL
	A-54	13:12	720/620/480	320/80	25.00	25.00	0.40	7.50	13.17	15	4	
		13:14	680/480	280/80	25.00	25.00	0.40	7.50	13.17	15	6	
		13:15	580	180	20.00	20.00	0.32	6.00	10.54	12	8	MOD DL 3' SW
		13:19	460	60	25.00	25.00	0.40	7.50	13.17	15	10	SAA
		13:21	520/460	120/60	25.00	25.00	0.40	7.50	13.17	15	12	SAA
	A-52	14:01	700/540	300/140	25.00	25.00	0.40	7.50	13.17	15	4	
		14:03	760/540	360/140	25.00	25.00	0.40	7.50	13.17	15	6	
		14:03	900/700	500/300	25.00	25.00	0.40	7.50	13.17	15	8	
		14:04	680/540	280/140	25.00	25.00	0.40	7.50	13.17	15	10	
		14:05	600	200	25.00	25.00	0.40	7.50	13.17	15	12	
	A-50	14:11	780/700	380/300	25.00	25.00	0.40	7.50	13.17	15	4	
		14:12	540/500	140/100	25.00	25.00	0.40	7.50	13.17	15	6	
		14:13	560	160	25.00	25.00	0.40	7.50	13.17	15	8	
		14:14	780/720	380/320	25.00	25.00	0.40	7.50	13.17	15	10	
		14:15	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	12	
	A-32	14:50	720/500	320/100	25.00	25.00	0.40	7.50	13.17	15	4	
		14:51	780/500	380/100	25.00	25.00	0.40	7.50	13.17	15	6	
		14:52	740/500	340/100	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL 3' SW
		14:54	700/540	300/140	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL 4' S AND SAA
		15:02	740/680	340/280	25.00	25.00	0.40	7.50	13.17	15	12	NO DL
	A-34	15:09	620/500	220/100	25.00	25.00	0.40	7.50	13.17	15	4	
		15:11	700/520	300/120	25.00	25.00	0.40	7.50	13.17	15	6	
		15:12	560/460	160/60	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL PRECLEARED POINT 15' NE- STRONG ODOR 40 GAL ADDED BACK TO TANK
		15:34	420/260	20/-140	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL SAA POST INJ
		15:36	440	40	25.00	25.00	0.40	7.50	13.17	15	12	SAA
	A-38	16:11	820/620	420/220	25.00	25.00	0.40	7.50	13.17	15	4	2.05 MW-1 PRE-INJ ROSE TO 2'
		16:12	780/600	380/200	25.00	25.00	0.40	7.50	13.17	15	6	
		16:14	500	100	3.33	3.33	0.05	1.00	1.76	2	8	ROSE TO 1.9' BGS, MAJ DL PRECLEARING
				-400	0.00	0.00	0.00		0.00		10	SKIPPED INTERVAL
		16:29	720	320	25.00	25.00	0.40	7.50	13.17	15	12	1' BGS
	A-56	16:35	680/520	280/120	25.00	25.00	0.40	7.50	13.17	15	4	
		16:37	600	200	25.00	25.00	0.40	7.50	13.17	15	6	
		16:38	640/480	240/80	25.00	25.00	0.40	7.50	13.17	15	8	
		16:39	520	120	13.33	13.33	0.21	4.00	7.02	8	10	MAJ DL SAME PRECLEARED SPOT
		16:48	240	-160	8.33	8.33	0.13	2.50	4.39	5	12	SAA
					1861.67	**1861.67**	**29.79**	**558.50**	**980.73**	**1117.00**		**Daily Totals**
3/2/2021	D-92	07:55	920/820	520/420	25.00	25.00	0.40	7.50	13.17	15	4	MOD DL CURB 3' SE
		07:59	680	280	8.33	8.33	0.13	2.50	4.39	5	6	MAJ DL SAA
		08:03	920	520	8.33	8.33	0.13	2.50	4.39	5	8	SAA
	D-94	08:22	820/780	420/380	16.67	16.67	0.27	5.00	8.78	10	4	MOD DL TOP OF CURB 5' SE, MW-33 2.8' PRE INJ
		08:25	620/520	220/120	16.67	16.67	0.27	5.00	8.78	10	6	1.9' DTW POST INJ, MAJ DL IN GRAVEL 7' SE
		08:29	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	8	DTW 1' MIN DL
	D-96	08:55	520/420	120/20	25.00	25.00	0.40	7.50	13.17	15	4	
		08:57	500/380	100/-20	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL 10' E
		09:01	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	8	MOD DL 3 SPOTS BY CURB 10' E
	D-112	09:15	820/580	420/180	25.00	25.00	0.40	7.50	13.17	15	4	
		09:17	640	240	25.00	25.00	0.40	7.50	13.17	15	6	
		09:19	920/620	520/220	25.00	25.00	0.40	7.50	13.17	15	8	
	D-26	09:50	780/580	380/180	25.00	25.00	0.40	7.50	13.17	15	4	
		09:51	840/780	440/380	25.00	25.00	0.40	7.50	13.17	15	6	
		09:51	900	500	25.00	25.00	0.40	7.50	13.17	15	8	
	D-18	09:58	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL 4' E CURB
		10:00	940/740	540/340	25.00	25.00	0.40	7.50	13.17	15	6	
		10:02	640	240	16.67	16.67	0.27	5.00	8.78	10	8	MOD PERSISTENT DL FROM AROUND RODS (BP)
	D-3	11:20	600	200	25.00	25.00	0.40	7.50	13.17	15	5	
		11:21	620	220	25.00	25.00	0.40	7.50	13.17	15	7	
	D-7	11:28	800/600	400/200	25.00	25.00	0.40	7.50	13.17	15	5	
		11:29	500	100	25.00	25.00	0.40	7.50	13.17	15	7	
	D-31	11:57	800	400	16.67	16.67	0.27	5.00	8.78	10	5	MOD DL 6' NW BY TANK PORT SEAM
		12:00	620	220	16.67	16.67	0.27	5.00	8.78	10	7	MAJ DL SAA
	D-9	12:10	500	100	25.00	25.00	0.40	7.50	13.17	15	5	
		12:11	720	320	16.67	16.67	0.27	5.00	8.78	10	7	MAJ DL 10' W SAA
	D-125	13:50	600/480	200/80	25.00	25.00	0.40	7.50	13.17	15	5	
		13:52	760	360	25.00	25.00	0.40	7.50	13.17	15	7	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
	D-123	13:56	540/440	140/40	25.00	25.00	0.40	7.50	13.17	15	5	
		13:56	680/520	280/120	25.00	25.00	0.40	7.50	13.17	15	7	
	D-121	14:46	820	420	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL < 1' S
		14:49	800	400	16.67	16.67	0.27	5.00	8.78	10	7	MOD DL SAA
	D-119	14:59	800/680	400/280	25.00	25.00	0.40	7.50	13.17	15	5	
		15:00	720/480	320/80	25.00	25.00	0.40	7.50	13.17	15	7	
	D-117	15:29	940/780	540/380	25.00	25.00	0.40	7.50	13.17	15	5	
		15:30	820	420	25.00	25.00	0.40	7.50	13.17	15	7	
	D-107	15:36	720/620	320/220	16.67	16.67	0.27	5.00	8.78	10	5	MOD DL GRAVEL 8' E
		15:41	680/540	280/140	25.00	25.00	0.40	7.50	13.17	15	7	
	D-61	16:05	999	599	25.00	25.00	0.40	7.50	13.17	15	5	
		16:06	620	220	25.00	25.00	0.40	7.50	13.17	15	7	
	D-63	16:14	800	400	25.00	25.00	0.40	7.50	13.17	15	4.5	REFUSAL? OFFSET TO DAYLIGHTING SOURCE
		16:16	760	360	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL AND BP
					950.00	**950.00**	**15.20**	**285.00**	**500.46**	**570.00**		**Daily Totals**
3/3/2021	D-20	07:44	840	440	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL MULTIPLE SPOTS WHERE GRASS MEETS CURB
		07:50	640	240	8.33	8.33	0.13	2.50	4.39	5	6	SAA
		07:52	640	240	8.33	8.33	0.13	2.50	4.39	5	8	SAA
	D-48	08:04	780/500	380/100	25.00	25.00	0.40	7.50	13.17	15	4	
		08:05	600/500	200/100	33.33	33.33	0.53	10.00	17.56	20	6	EXTRA
		08:06	840/560	440/160	33.33	33.33	0.53	10.00	17.56	20	8	
	D-41	08:59	580/420	180/20	25.00	25.00	0.40	7.50	13.17	15	5	
		09:00	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	7	
	D-17	09:04	980/620	580/220	25.00	25.00	0.40	7.50	13.17	15	5	
		09:05	560/500	160/100	25.00	25.00	0.40	7.50	13.17	15	7	
	D-55	10:04	620/420	220/20	25.00	25.00	0.40	7.50	13.17	15	5	1.5" RODS
		10:06	460	60	25.00	25.00	0.40	7.50	13.17	15	7	
	D-57	10:10	820/680	420/280	25.00	25.00	0.40	7.50	13.17	15	5	
		10:13	780/600	380/200	25.00	25.00	0.40	7.50	13.17	15	7	
	D-59	10:17	980/800	580/400	25.00	25.00	0.40	7.50	13.17	15	5	
		10:21	600	200	25.00	25.00	0.40	7.50	13.17	15	7	
	A-48	11:08	600/480	200/80	25.00	25.00	0.40	7.50	13.17	15	4	DTW RW-1 AND MW-1 2.5'
		11:10	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	6	
		11:11	760/600	360/200	25.00	25.00	0.40	7.50	13.17	15	8	
		11:15	740/540	340/140	25.00	25.00	0.40	7.50	13.17	15	10	MW-1 STILL RISING POST-INJ
		11:17	800	400	16.67	16.67	0.27	5.00	8.78	10	12	1.3' AND RISING, RW-1 AT 1.75' POST INJ, MIN DL CRACK BY HIGHWAY
	A-37	11:30	600	200	16.67	16.67	0.27	5.00	8.78	10	5	CONSISTENT MINOR DL FROM CRACK
		11:37	440	40	16.67	16.67	0.27	5.00	8.78	10	7	SAA 5GAL SHOTS
		11:48	400	0	16.67	16.67	0.27	5.00	8.78	10	9	SAA
		11:53	780/600	380/200	16.67	16.67	0.27	5.00	8.78	10	11	
	A-70	13:15	400/320	0/-80	25.00	25.00	0.40	7.50	13.17	15	4	
		13:16	480/420	80/20	25.00	25.00	0.40	7.50	13.17	15	6	
		13:18	600	200	25.00	25.00	0.40	7.50	13.17	15	8	
		13:20	720/440	320/40	25.00	25.00	0.40	7.50	13.17	15	10	
		13:24	880/760	480/360	25.00	25.00	0.40	7.50	13.17	15	12	NO BP
	A-68	13:30	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	4	
		13:30	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	6	
		13:32	580/480/400	180/0	25.00	25.00	0.40	7.50	13.17	15	8	
		13:38	560/480	160/80	25.00	25.00	0.40	7.50	13.17	15	10	
		13:41	680/520	280/120	25.00	25.00	0.40	7.50	13.17	15	12	
	A-66	14:22	680/500	280/100	25.00	25.00	0.40	7.50	13.17	15	4	
		14:23	640	240	25.00	25.00	0.40	7.50	13.17	15	6	
		14:25	920/780	520/380	25.00	25.00	0.40	7.50	13.17	15	8	
		14:27	600	200	25.00	25.00	0.40	7.50	13.17	15	10	MIN BP
		14:31	800	400	25.00	25.00	0.40	7.50	13.17	15	12	
	A-64.2	14:36	740	340	25.00	25.00	0.40	7.50	13.17	15	4	
		14:38	440	40	25.00	25.00	0.40	7.50	13.17	15	6	
		14:41	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	8	
		14:42	700/600	300/200	25.00	25.00	0.40	7.50	13.17	15	10	
		14:45	600	200	25.00	25.00	0.40	7.50	13.17	15	12	
	A-52.2	15:08	580/400	180/0	25.00	25.00	0.40	7.50	13.17	15	4	
		15:09	580/400	180/0	25.00	25.00	0.40	7.50	13.17	15	6	
		15:11	720	320	25.00	25.00	0.40	7.50	13.17	15	8	
		15:13	740	340	25.00	25.00	0.40	7.50	13.17	15	10	
		15:15	840	440	25.00	25.00	0.40	7.50	13.17	15	12	DAYLIGHTING FROM CRACK BY HIGHWAY POST-INJ
	D-87	15:40	840	440	8.33	8.33	0.13	2.50	4.39	5	5	MAJ DL FROM HOLE IN GRAVEL BY CURB
		15:41	640	240	8.33	8.33	0.13	2.50	4.39	5	7	SAA
	D-95	15:51	420	20	16.67	16.67	0.27	5.00	8.78	10	5	SAA
		15:59	440	40	8.33	8.33	0.13	2.50	4.39	5	9	SAA
		16:14	760	360	33.33	33.33	0.53	10.00	17.56	20	11	NO DL
	D-65	16:47	420	20	25.00	25.00	0.40	7.50	13.17	15	5	
		16:48	820	420	25.00	25.00	0.40	7.50	13.17	15	7	
	D-75	16:52	780	380	25.00	25.00	0.40	7.50	13.17	15	5	
		16:54	780	380	25.00	25.00	0.40	7.50	13.17	15	7	
	D-71	17:05	820	420	25.00	25.00	0.40	7.50	13.17	15	5	
		17:07	840	440	25.00	25.00	0.40	7.50	13.17	15	7	
		17:14	720	320	25.00	25.00	0.40	7.50	13.17	15	9	
		17:17	820	420	25.00	25.00	0.40	7.50	13.17	15	11	
					1450.00	**1450.00**	**23.20**	**435.00**	**763.86**	**870.00**		**Daily Totals**
3/4/2021	D-29	07:57	580/500	180/100	25.00	25.00	0.40	7.50	13.17	15	5	
		07:59	760/580	360/180	25.00	25.00	0.40	7.50	13.17	15	7	
	D-25	08:08	800	400	25.00	25.00	0.40	7.50	13.17	15	5	
		08:12	580/480/440	180/40	25.00	25.00	0.40	7.50	13.17	15	7	
	D-73	08:20	780	380	25.00	25.00	0.40	7.50	13.17	15	5	
		08:22	680/540	280/140	25.00	25.00	0.40	7.50	13.17	15	7	STEADY DECLINE IN PRESSURE
	D-77	08:33	480/420	80/20	25.00	25.00	0.40	7.50	13.17	15	5	
		08:37	760	360	16.67	16.67	0.27	5.00	8.78	10	7	MOD DL AROUND RODS AND CURB 10' S
	D-113	09:44	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL CURB 3' SE
		09:46	720	320	25.00	25.00	0.40	7.50	13.17	15	7	SAA
	D-101	09:53	800	400	25.00	25.00	0.40	7.50	13.17	15	5	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:56	680/500	280/100	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL POST INJ ASPHAULT CONCRETE SEAM
	D-99	10:01	640/500	240/100	25.00	25.00	0.40	7.50	13.17	15	5	
		10:02	760/680	360/280	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL SEAM 15' W
	D-109	10:07	480	80	25.00	25.00	0.40	7.50	13.17	15	5	
		10:09	480	80	25.00	25.00	0.40	7.50	13.17	15	7	
	B-4	10:59	400	0	25.00	25.00	0.40	7.50	13.17	15	4	
		11:00	400	0	25.00	25.00	0.40	7.50	13.17	15	6	
		11:03	400	0	25.00	25.00	0.40	7.50	13.17	15	8	
		11:04	580/460	180/60	25.00	25.00	0.40	7.50	13.17	15	10	
	D-39	11:16	560	160	25.00	25.00	0.40	7.50	13.17	15	5	
		11:19	620/460	220/60	25.00	25.00	0.40	7.50	13.17	15	7	
	D-33	11:42	480/420	80/20	25.00	25.00	0.40	7.50	13.17	15	5	
		11:44	780/660	380/260	25.00	25.00	0.40	7.50	13.17	15	7	
	D-4	11:51	820/720	420/320	25.00	25.00	0.40	7.50	13.17	15	4	
		11:52	680	280	8.33	8.33	0.13	2.50	4.39	5	6	MAJ DL BY ELECTRICAL CONDUIT AND CURB GRASS SEAM
		11:55	620	220	8.33	8.33	0.13	2.50	4.39	5	8	SAA
	B-50	13:25	400	0	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 5' SW
		13:27	620/420	220/20	8.33	8.33	0.13	2.50	4.39	5	6	SAA IMMEDIATE
		13:30	920	520	8.33	8.33	0.13	2.50	4.39	5	8	MOD DL AT 55GPM
	B-48	13:35	480/420	80/20	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL 2' S POST-INJ
		13:37	520/420	120/20	25.00	25.00	0.40	7.50	13.17	15	6	MOD DL SAA
		13:41	580/340	180/-60	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL SECOND SHOT MOD DL
	B-46	13:55	460	60	16.67	16.67	0.27	5.00	8.78	10	4	MIN DL 2' S POST-INJ
		13:59	560/460	160/60	8.33	8.33	0.13	2.50	4.39	5	6	MOD DL 4' SE
		14:03	620/400	220/0	33.33	33.33	0.53	10.00	17.56	20	8	MIN DL - 3 PULSES
	B-33	14:14	640/400	240/0	8.33	8.33	0.13	2.50	4.39	5	5	RW-7 (2.2'-1.9' LNAPL) MAJ BLOWOUT
		14:18	520/420	120/20	16.67	16.67	0.27	5.00	8.78	10	7	RW-7 ROSE 1' - MAJ DL 3' N
		14:26	520/420	120/20	16.67	16.67	0.27	5.00	8.78	10	9	SAA
		14:35	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	11	PLUG RW-7 AFTER FIRST PULSE, MIN DL
	B-44	15:27	520/420	120/20	41.67	41.67	0.67	12.50	21.95	25	4	
		15:29	500/420	100/20	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL CRACK 15' NE
		15:32	560	160	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL SAA
	B-17	15:47	560	160	25.00	25.00	0.40	7.50	13.17	15	5	
		15:49	560	160	25.00	25.00	0.40	7.50	13.17	15	7	
		15:50	540	140	16.67	16.67	0.27	5.00	8.78	10	9	
	A-69	16:00	600/400	200/0	25.00	25.00	0.40	7.50	13.17	15	5	
		16:02	460/420	60/20	25.00	25.00	0.40	7.50	13.17	15	7	
		16:04	820/420	420/20	25.00	25.00	0.40	7.50	13.17	15	9	
		16:06	700/520	300/120	25.00	25.00	0.40	7.50	13.17	15	11	
	B-26	16:38	400	0	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 2' NW
		16:40	680/440	280/40	16.67	16.67	0.27	5.00	8.78	10	6	MOD DL 5' N
		16:47	760	360	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL SAA
	B-24	16:51	240/320	0	16.67	16.67	0.27	5.00	8.78	10	4	MOD DL POST INJ - 40 GPM
		16:54	440	40	25.00	25.00	0.40	7.50	13.17	15	6	55GPM
		16:57	400	0	16.67	16.67	0.27	5.00	8.78	10	10	
					1225.00	**1225.00**	**19.60**	**367.50**	**645.33**	**735.00**		**Daily Totals**
3/5/2021	A-2	07:46	620/420	220/20	16.67	16.67	0.27	5.00	8.78	10	4	MOD DL 3' S
		07:49	440/420	40/20	3.33	3.33	0.05	1.00	1.76	2	6	MAJ DL 3' S
		07:51	440/420	40/20	3.33	3.33	0.05	1.00	1.76	2	8	SAA
		07:59	560/480	160/80	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL, TWO SHOTS
		08:02	400	0	25.00	25.00	0.40	7.50	13.17	15	12	MIN DL ONE SHOT
	A-4	08:13	620/400	220/0	25.00	25.00	0.40	7.50	13.17	15	4	45 GPM 5 GAL PULSES
		08:18	720/360	320/0	41.67	41.67	0.67	12.50	21.95	25	6	SAA
		08:20	580/360	180/0	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL ALONG UTILITY CRACK, LAST SHOT
		08:29	720/480	320/80	25.00	25.00	0.40	7.50	13.17	15	12	MIN CONSRANT DL PRECLEARING 4' E AND AROUND RODS
	A-6	08:41	360/220	0	25.00	25.00	0.40	7.50	13.17	15	4	
		08:46	340/200	0	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL RODS OF A-4 AND PRECLEARING
		08:52	580/520	180/120	25.00	25.00	0.40	7.50	13.17	15	8	FIRST SHOT PRESSURECLIMBING - BUMP TO 55 GPM
		09:00	520/400	120/0	41.67	41.67	0.67	12.50	21.95	25	10	
		09:04	400/360	0	25.00	25.00	0.40	7.50	13.17	15	12	STILL MINOR SEAPAGE FROM A-4 RODS
	A-46	09:55	400	0	25.00	25.00	0.40	7.50	13.17	15	4	MW-1 2.3' DTW - BACK TO 65 GPM - DTW 2.1' POST INJ
		09:57	460/420	60/20	25.00	25.00	0.40	7.50	13.17	15	6	2' BGS POST-INJ
		10:00	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	8	PLUG WELL AFTER 10 GALLONS
		10:02	460	60	25.00	25.00	0.40	7.50	13.17	15	10	
		10:05	640/480	240/80	25.00	25.00	0.40	7.50	13.17	15	12	
	A-44	10:13	540/380	140/0	3.33	3.33	0.05	1.00	1.76	2	4	MOD SEAP FROM AROUND RODS - PUSH DOWN 0.5'
		10:13	540/381	140/0	25.00	25.00	0.40	7.50	13.17	15	4.5	
		10:16	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	6	
		10:19	380	0	25.00	25.00	0.40	7.50	13.17	15	8	
		10:21	380/240	0	25.00	25.00	0.40	7.50	13.17	15	10	VERY SHAKY
		10:23	400	0	25.00	25.00	0.40	7.50	13.17	15	12	
	A-42	10:45	240	0	25.00	25.00	0.40	7.50	13.17	15	4	MIXER TOO HIGH
		10:47	400/380	0	25.00	25.00	0.40	7.50	13.17	15	6	
		10:50	400	0	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL PRECLEARED POINT 8' NW UNNOTICED
		11:14	400	0	20.00	20.00	0.32	6.00	10.54	12	10	MOD DL SAA
		11:21	580/400	180/0	25.00	25.00	0.40	7.50	13.17	15	12	MIN DL SAA
	A-59	11:39	400	0	25.00	25.00	0.40	7.50	13.17	15	5	
		11:49	680/520	280/120	25.00	25.00	0.40	7.50	13.17	15	7	
		11:51	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	9	
		11:53	780/480	380/80	25.00	25.00	0.40	7.50	13.17	15	11	MIN DL 8' NE
	D-49	13:37	400/340	80/0	25.00	25.00	0.40	7.50	13.17	15	5	
		13:39	400/340	160/0	25.00	25.00	0.40	7.50	13.17	15	7	
		13:42	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	9	
		13:44	420/320	20/0	25.00	25.00	0.40	7.50	13.17	15	11	
	D-53	13:49	680/400	280/0	25.00	25.00	0.40	7.50	13.17	15	5	
		13:51	500/380	100/0	20.00	20.00	0.32	6.00	10.54	12	7	MOD DL AROUND RODS
	D-89	14:01	400	0	25.00	25.00	0.40	7.50	13.17	15	5	
		14:04	540/420	140/20	25.00	25.00	0.40	7.50	13.17	15	7	
	D-85	14:10	420/360	20	25.00	25.00	0.40	7.50	13.17	15	5	MW-33 2.4 PRE, 2.3 POST
		14:14	440	40	25.00	25.00	0.40	7.50	13.17	15	7	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		14:18	980/340	580/0	25.00	25.00	0.40	7.50	13.17	15	9	
		14:22	560/400	160/0	25.00	25.00	0.40	7.50	13.17	15	11	WELL AT TOP OF CASING AFTER 5GAL
	D-91	14:53	400/320	0	25.00	25.00	0.40	7.50	13.17	15	5	
		14:55	420/340	20/0	25.00	25.00	0.40	7.50	13.17	15	7	REPLACE RECIRC VALVE AT END OF DAY
	D-103	15:15	580/380	180/0	25.00	25.00	0.40	7.50	13.17	15	5	
		15:18	480/400	80/0	20.00	20.00	0.32	6.00	10.54	12	7	MOD DL CONC ASPHAULT SEAM
	D-111	16:11	520/380	120/0	25.00	25.00	0.40	7.50	13.17	15	5	
		16:13	520	120	25.00	25.00	0.40	7.50	13.17	15	7	MOD DL AROUND RODS
	D-116	16:22	440	40	25.00	25.00	0.40	7.50	13.17	15	4	
		16:23	400	0	8.33	8.33	0.13	2.50	4.39	5	6	MAJ DL 6' N
		16:27	400	0	4.17	4.17	0.07	1.25	2.20	2.5	8	SAA
	B-42	17:11	180	0	8.33	8.33	0.13	2.50	4.39	5	4	45 GPM -MAJ BLOWOUT GRASS/CURB SEAM
		17:13	240	0	4.17	4.17	0.07	1.25	2.20	2.5	6	SAA 55 GPM
		17:17	880	480	25.00	25.00	0.40	7.50	13.17	15	10	WATER AT TOP OF RW-7 CASING MIN DL CURB GRASS
		17:23	860/560	460/160	25.00	25.00	0.40	7.50	13.17	15	12	MIN DL CURB GRASS
	B-38	17:25	280/240	0	20.00	20.00	0.32	6.00	10.54	12	4	MOD DL 5' N
		17:29	380/240	100/0	16.67	16.67	0.27	5.00	8.78	10	6	MAJ DL 5' N
		17:31	680/460	280/60	8.33	8.33	0.13	2.50	4.39	5	8	SAA
					1373.33	**1373.33**	**21.97**	**412.00**	**723.47**	**824.00**		**Daily Totals**
3/6/2021	B-56	08:10	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	4	
		08:10	580/480	180/80	25.00	25.00	0.40	7.50	13.17	15	6	MINOR BP
		08:14	560/420	160/20	25.00	25.00	0.40	7.50	13.17	15	8	
	B-58	08:25	460	60	8.33	8.33	0.13	2.50	4.39	5	4	LNAPL 2.05' DTW 2.2' MIN/MAJ DL 3' N AND AROUND RODS/5'N AND WELL PAD
		08:29	480	80	3.33	3.33	0.05	1.00	1.76	2	6	CAP WELL TO AVOID INFILTRATION, INSTANT MAJ DL
		08:31	620/480/420	220/20	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL SAA
	B-61	08:45	560/460	160/60	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 2' SW CONC/ASPHAULT SEAM
		08:49	760	360	8.33	8.33	0.13	2.50	4.39	5	7	MOD DL SAA
	B-65	09:00	280/240	0	25.00	25.00	0.40	7.50	13.17	15	5	45 GPM AND PULSES
		09:04	380/320	0	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 6' E CURB/ASPHAULT
	A-7	09:57	380/300	0	25.00	25.00	0.40	7.50	13.17	15	5	45 GPM AND PULSES
		10:06	480/380/340	80/0	25.00	25.00	0.40	7.50	13.17	15	7	
		10:09	560/360/300	160/0	25.00	25.00	0.40	7.50	13.17	15	9	
		10:11	480/360	80/0	25.00	25.00	0.40	7.50	13.17	15	11	
	A-3	10:18	480/400	80/0	25.00	25.00	0.40	7.50	13.17	15	5	
		10:23	800	400	25.00	25.00	0.40	7.50	13.17	15	7	PRESSURE RISING, MIN DL AROUND RODS, INCREASE FLOW RATE TO 65 GPM
		10:26	800/700/580	400/180	25.00	25.00	0.40	7.50	13.17	15	9	
		10:31	700/580	300/180	16.67	16.67	0.27	5.00	8.78	10	11	MOD DL CRACK 10' SW, MAJ DL ONCE PROBE MOVES
	A-11	10:41	400/320	0	25.00	25.00	0.40	7.50	13.17	15	5	
		10:46	540/360	140/0	16.67	16.67	0.27	5.00	8.78	10	7	MIN DL 8' W AFTER FIRST 5 GAL
		10:48	640	240	11.67	11.67	0.19	3.50	6.15	7	9	IMMEDIATE DL 8' W - SQUIRTER
		10:55	680/580/480	280/80	25.00	25.00	0.40	7.50	13.17	15	11	MIN DL
	B-52	11:03	440/400/340	40/0	25.00	25.00	0.40	7.50	13.17	15	4	
		11:07	400/300	0	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL AROUND RODS POST INJ.
		11:11	580/400/320	180/0	25.00	25.00	0.40	7.50	13.17	15	8	
	B-34	12:59	160	0	25.00	25.00	0.40	7.50	13.17	15	4	1 PUMP - 35 GPM RW-7 2.35 TO 2.25'
		13:01	360	0	16.67	16.67	0.27	5.00	8.78	10	6	MAJ DL 10' S, RW-7 RISING TO 2.15'
		13:10	240	0	8.33	8.33	0.13	2.50	4.39	5	8	MIN DL 8' S, MOD DL 10' S, DTW 2.1'
		13:13	800/280	400/0	25.00	25.00	0.40	7.50	13.17	15	10	2.05' DTW, BOS VISIBLE DOWN IN RW-7
		13:18	460/360	60/0	25.00	25.00	0.40	7.50	13.17	15	12	RW-7 DTW 1'
	B-37	13:27	340/300	60/20	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 1' N AND 4' NW AFTER 10 GAL - 5 DIF SPOTS AFTER LAST 5 GAL
		13:32	360/240	80/0	3.33	3.33	0.05	1.00	1.76	2	7	INSTANT MOD DL
		13:33	380/240	100/0	25.00	25.00	0.40	7.50	13.17	15	7.5	
	B-11	13:41	320/240	40/0	16.67	16.67	0.27	5.00	8.78	10	5	MOD DL 2' S
		13:48	420/320	140/40	16.67	16.67	0.27	5.00	8.78	10	7	SAA
	D-21	14:00	200/160	0	25.00	25.00	0.40	7.50	13.17	15	5	
		14:03	200/160	0	16.67	16.67	0.27	5.00	8.78	10	6	MIN DL 5' W
		14:05	800/680	520/400	25.00	25.00	0.40	7.50	13.17	15	7	PRESSURE CLIMBING, MIN DL 5' W
		14:07	700/360	420/80	16.67	16.67	0.27	5.00	8.78	10	8	MINDL SAA
	A-67	14:51	600/480	200/80	25.00	25.00	0.40	7.50	13.17	15	5	OFFSET 1' N AFTER 1' REFUSAL , BACK TO 65GPM
		14:53	800/500	400/100	25.00	25.00	0.40	7.50	13.17	15	7	
		14:56	760	360	25.00	25.00	0.40	7.50	13.17	15	9	
		14:58	760/720	360/320	25.00	25.00	0.40	7.50	13.17	15	11	
	A-63	15:06	780/720	380/320	25.00	25.00	0.40	7.50	13.17	15	5	
		15:08	620/520	220/120	25.00	25.00	0.40	7.50	13.17	15	7	
		15:10	800/580	400/180	25.00	25.00	0.40	7.50	13.17	15	9	
		15:12	680/500	280/100	25.00	25.00	0.40	7.50	13.17	15	11	
	B-6	15:50	600/560	200/160	25.00	25.00	0.40	7.50	13.17	15	4	
		15:50	680/440	280/40	25.00	25.00	0.40	7.50	13.17	15	6	
		15:53	620/500	220/100	25.00	25.00	0.40	7.50	13.17	15	8	
	D-81	16:09	580/500	180/100	25.00	25.00	0.40	7.50	13.17	15	4	
		16:09	820/520	420/120	25.00	25.00	0.40	7.50	13.17	15	6	
		16:12	600/500	200/100	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL 12' N JOINTS/CONC PAD
	D-105	16:20	680/400	280/0	25.00	25.00	0.40	7.50	13.17	15	5	
		16:23	580	180	25.00	25.00	0.40	7.50	13.17	15	7	
	D-97	16:29	600	200	25.00	25.00	0.40	7.50	13.17	15	5	
		16:31	800/580	400/180	25.00	25.00	0.40	7.50	13.17	15	7	SERIOUS BP LONG AFTER INJ
					1243.33	**1243.33**	**19.89**	**373.00**	**654.99**	**746.00**		**Daily Totals**
3/8/2021	B-40	07:56	320/300	40/20	8.33	8.33	0.13	2.50	4.39	5	4	MOD DL 2' W 35GPM
		07:59	300	20	16.67	16.67	0.27	5.00	8.78	10	6	MOD DL 2' W AND 1' E
		08:01	300	20	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL SAA
		08:04	440/300	160/20	33.33	33.33	0.53	10.00	17.56	20	10	
	A-29	08:14	720/680	320/280	25.00	25.00	0.40	7.50	13.17	15	5	65 GPM
		08:17	620	220	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL AROUND RODS
		08:21	880/580	480/180	25.00	25.00	0.40	7.50	13.17	15	9	
		08:24	920	520	25.00	25.00	0.40	7.50	13.17	15	11	
	B-5	08:34	740/600	460/320	25.00	25.00	0.40	7.50	13.17	15	5	
		08:36	440/320	160/40	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL AROUND RODS
	B-51	09:18	780	500	25.00	25.00	0.40	7.50	13.17	15	5	
		09:21	820/780	540/500	25.00	25.00	0.40	7.50	13.17	15	7	
	B-55	09:27	460/240	180/0	25.00	25.00	0.40	7.50	13.17	15	5	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:30	580/360	300/80	25.00	25.00	0.40	7.50	13.17	15	7	MAJ DL 5' SE
	A-9	09:39	420	140	25.00	25.00	0.40	7.50	13.17	15	5	
		09:42	500/440	220/160	25.00	25.00	0.40	7.50	13.17	15	7	
		09:44	680/540	400/260	25.00	25.00	0.40	7.50	13.17	15	9	
		09:46	580/340	300/60	25.00	25.00	0.40	7.50	13.17	15	11	
	A-5	09:52	440/340	160/60	25.00	25.00	0.40	7.50	13.17	15	5	
		09:55	440/340	160/60	25.00	25.00	0.40	7.50	13.17	15	7	
		09:56	480/340	200/60	25.00	25.00	0.40	7.50	13.17	15	9	
		09:56	480/420	200/140	25.00	25.00	0.40	7.50	13.17	15	11	
	B-87	10:41	560	280	16.67	16.67	0.27	5.00	8.78	10	5	OFFSET 1' S FOR UTILITY, MOD DL 2' SW ASPHAULT CONC SEAM
		10:43	620	340	1.67	1.67	0.03	0.50	0.88	1	7	IMMEDIATE MAJ DL SAA ALL ALONG SEAM
		10:45	600	320	8.33	8.33	0.13	2.50	4.39	5	9	SAA 2' SW AND 7' SW
		10:47	620/420	340/140	25.00	25.00	0.40	7.50	13.17	15	11	MIN SAA
	B-83	10:57	440/220	160/0	8.33	8.33	0.13	2.50	4.39	5	5	MAJ DL ALONG SEAM 3' NE AND 4' E
		10:59	420	140	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL SAA
		11:02	900	620	8.33	8.33	0.13	2.50	4.39	5	9	SAA
		11:08	900/600	620/320	25.00	25.00	0.40	7.50	13.17	15	11	MIN DL SAA
	B-79	11:15	800	520	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 2' N
		11:19	820	540	8.33	8.33	0.13	2.50	4.39	5	7	MOD DL AROUND RODS AND SAA AND CONDUIT
		11:24	800	520	16.67	16.67	0.27	5.00	8.78	10	9	MOD DL SAA
		11:26	780	500	25.00	25.00	0.40	7.50	13.17	15	11	
	B-75	11:34	400	120	25.00	25.00	0.40	7.50	13.17	15	5	Mod DL 5' W & MW @ 2.95'
		11:37	500	220	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL 5' W
		11:39	880/420	600/140	8.33	8.33	0.13	2.50	4.39	5	9	SAA
		11:42	880/440	600/160	25.00	25.00	0.40	7.50	13.17	15	11	MW @ 2.5' THEN 1.85' THEN 1.4'
	B-96	13:30	400	120	25.00	25.00	0.40	7.50	13.17	15	4	35 GPM
		13:35	920	640	25.00	25.00	0.40	7.50	13.17	15	6	PRESSURE CLIMBING
		13:37	600/500	320/220	25.00	25.00	0.40	7.50	13.17	15	8	
		13:38	820/720	540/440	25.00	25.00	0.40	7.50	13.17	15	10	MOD BP
		13:42	700/420	420/140	25.00	25.00	0.40	7.50	13.17	15	12	
	B-92	13:48	280/200	0	25.00	25.00	0.40	7.50	13.17	15	4	
		13:49	200/320	0	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL 10' N ALONG ASPHAULT CURB SEAM
		13:53	350	70	25.00	25.00	0.40	7.50	13.17	15	8	
		13:55	980/240	700/0	25.00	25.00	0.40	7.50	13.17	15	10	
		13:57	360	80	25.00	25.00	0.40	7.50	13.17	15	12	
	B-88	14:28	280/160	0	25.00	25.00	0.40	7.50	13.17	15	4	
		14:29	360	80	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL CRACK ASPHAULT/CONCRETE
		14:31	440/300	160/20	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL SAA
		14:34	380	100	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL SAA 1'-6'
		14:36	420/280	140/0	25.00	25.00	0.40	7.50	13.17	15	12	
	B-99	14:52	440/600	160/320	25.00	25.00	0.40	7.50	13.17	15	5	
		14:55	980/820	700/540	25.00	25.00	0.40	7.50	13.17	15	7	
		14:56	740	460	25.00	25.00	0.40	7.50	13.17	15	9	
		14:59	900	620	25.00	25.00	0.40	7.50	13.17	15	11	
	B-107	15:40	220/140	0	25.00	25.00	0.40	7.50	13.17	15	5	
		15:42	300/260	20/0	25.00	25.00	0.40	7.50	13.17	15	7	
		15:44	620/360	340/80	25.00	25.00	0.40	7.50	13.17	15	9	
		15:45	360	80	25.00	25.00	0.40	7.50	13.17	15	11	MAJ DL 2' S CRACK ALONG ASPHAULT
	B-103	15:52	240/320	0	25.00	25.00	0.40	7.50	13.17	15	5	MAJ DL 8' NW
		15:55	460/300	180/20	3.33	3.33	0.05	1.00	1.76	2	7	SAA
		15:58	720/360	440/80	5.00	5.00	0.08	1.50	2.63	3	9	MAJ DL SAA AND MIN DL 4' SW
		15:59	640/580	360/300	8.33	8.33	0.13	2.50	4.39	5	11	SAA
	B-115	16:06	240/200	0	25.00	25.00	0.40	7.50	13.17	15	5	
		16:09	300/220	20/0	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 7' NE
		16:12	400/240	120/0	25.00	25.00	0.40	7.50	13.17	15	9	MAJ DL PRECLEARING - 8 MIN
		16:22	160	0	16.67	16.67	0.27	5.00	8.78	10	11	MAJ DL SAA
					1468.33	**1468.33**	**23.49**	**440.50**	**773.52**	**881.00**		**Daily Totals**
3/9/2021	A-18	07:48	620/500	340/220	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL CRACK 4' SW
		07:53	640	360	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL SAA AND MOD DL AROUND RODS
		07:56	740	460	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL BOTH SPOTS
		07:58	780/820	500/540	16.67	16.67	0.27	5.00	8.78	10	10	MOD DL BOTH SPOTS
		08:01	740/840	460/560	25.00	25.00	0.40	7.50	13.17	15	12	SAA
	A-22	08:14	260	0	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL ALONG ASPHAULT CRACK
		08:17	320	40	5.00	5.00	0.08	1.50	2.63	3	6	INSTANT SAA
		08:21	240	0	3.33	3.33	0.05	1.00	1.76	2	8	SAA
		08:23	340	60	20.00	20.00	0.32	6.00	10.54	12	10	
		08:25	340	60	8.33	8.33	0.13	2.50	4.39	5	12	
	A-55	08:43	380/260	100/0	25.00	25.00	0.40	7.50	13.17	15	5	
		08:50	440/340	160/60	25.00	25.00	0.40	7.50	13.17	15	7	
		08:51	440/320	160/40	25.00	25.00	0.40	7.50	13.17	15	9	
		08:53	980/220	700/0	25.00	25.00	0.40	7.50	13.17	15	11	
	A-51	09:01	340/220	60/0	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL CRACK BY HIGHWAY 20' NW
		09:03	880	600	25.00	25.00	0.40	7.50	13.17	15	7	55 GPM SAA
		09:06	420/320	140/40	25.00	25.00	0.40	7.50	13.17	15	9	
		09:08	300/180	20/0	25.00	25.00	0.40	7.50	13.17	15	11	
	A-75	10:02	420	140	25.00	25.00	0.40	7.50	13.17	15	5	
		10:04	580/480	300/200	25.00	25.00	0.40	7.50	13.17	15	7	
		10:05	800/600	520/320	25.00	25.00	0.40	7.50	13.17	15	9	
		10:06	680/560	400/280	25.00	25.00	0.40	7.50	13.17	15	11	
	B-30	10:10	420/380	140/100	25.00	25.00	0.40	7.50	13.17	15	4	
		10:11	420/380	140/100	25.00	25.00	0.40	7.50	13.17	15	6	
		10:14	580/360	300/80	25.00	25.00	0.40	7.50	13.17	15	8	
		10:15	580/420	300/140	25.00	25.00	0.40	7.50	13.17	15	10	
		10:17	580/720	300/440	25.00	25.00	0.40	7.50	13.17	15	12	INCREASE TO 60 WHILE SHOOTING
	B-20	10:24	580	300	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 1' E EDGE OF CONCRETE PAD
		10:27	580/420	300/140	8.33	8.33	0.13	2.50	4.39	5	6	SAA
		10:31	620	340	8.33	8.33	0.13	2.50	4.39	5	8	SAA
		10:34	880/380	600/100	25.00	25.00	0.40	7.50	13.17	15	10	MIN SAA
		10:39	400	120	8.33	8.33	0.13	2.50	4.39	5	12	MOD SAA
	B-7	11:11	480/400	200/120	25.00	25.00	0.40	7.50	13.17	15	5	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		11:14	800	520	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 5' W
	A-71	11:24	580/420	300/140	25.00	25.00	0.40	7.50	13.17	15	5	OFFSET 1' NW REFUSAL 3.5'
		11:26	620/480/580	340/300	25.00	25.00	0.40	7.50	13.17	15	7	
		11:28	800/580	520/300	25.00	25.00	0.40	7.50	13.17	15	9	
		11:31	880/680	600/400	25.00	25.00	0.40	7.50	13.17	15	11	
	D-13	11:37	380/320	100/40	25.00	25.00	0.40	7.50	13.17	15	5	
		11:39	440/400	160/120	25.00	25.00	0.40	7.50	13.17	15	7	
	D-93	13:03	300	20	16.67	16.67	0.27	5.00	8.78	10	5	40 GPM MW-33 DTW 2.85' MOD DL CORNER OF GRAVEL 5' W
		13:06	420/320	140/40	8.33	8.33	0.13	2.50	4.39	5	7	SAA
		13:09	800/360	520/80	8.33	8.33	0.13	2.50	4.39	5	9	SAA
		13:17	580	300	25.00	25.00	0.40	7.50	13.17	15	11	55GPM MIN DL SAA MW-33 2.3' POST INJ
	D-118	13:29	380	100	33.33	33.33	0.53	10.00	17.56	20	4	
		13:31	380	100	25.00	25.00	0.40	7.50	13.17	15	6	
		13:33	380	100	25.00	25.00	0.40	7.50	13.17	15	8	
	D-79	13:41	280	0	25.00	25.00	0.40	7.50	13.17	15	5	DTW 2.65 PREINJ
			340	60	25.00	25.00	0.40	7.50	13.17	15	7	
	A-39	14:19	980/780	700/500	25.00	25.00	0.40	7.50	13.17	15	5	RW-1 2.4' DTW, 2.2' POSTINJ
		14:23	820	540	25.00	25.00	0.40	7.50	13.17	15	7	PLUG WELL AFTER 5GAL
		14:25	840	560	25.00	25.00	0.40	7.50	13.17	15	9	PRESSURE FLUCTUATION
		14:27	780	500	25.00	25.00	0.40	7.50	13.17	15	11	MIN DL BLACK GW CRACK 8' N
	B-53	14:36	340	60	25.00	25.00	0.40	7.50	13.17	15	5	
		14:38	340	60	25.00	25.00	0.40	7.50	13.17	15	7	
		14:41	340	60	25.00	25.00	0.40	7.50	13.17	15	9	
		14:42	540	260	25.00	25.00	0.40	7.50	13.17	15	11	
	A-10	14:50	540/420	260/140	25.00	25.00	0.40	7.50	13.17	15	4	
		14:51	640	360	25.00	25.00	0.40	7.50	13.17	15	6	
		14:53	640	360	25.00	25.00	0.40	7.50	13.17	15	8	
		14:56	880/820	600/540	25.00	25.00	0.40	7.50	13.17	15	10	BUMP TO 55 GPM
		14:58	760/720	480/440	25.00	25.00	0.40	7.50	13.17	15	12	
	B-59	15:38	380/320	100/40	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL AROUND RODS AND 1' NW ASPHAULT CONCRETE SEAM
		15:42	440/240	160/0	8.33	8.33	0.13	2.50	4.39	5	7	MOD DL SAA
		15:43	780/300	500/20	25.00	25.00	0.40	7.50	13.17	15	9	MIN SAA
		15:46	720/320	440/40	25.00	25.00	0.40	7.50	13.17	15	11	MIN SAA
	B-63	15:54	580	300	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 5' N ASPHAULT/CURB
		15:56	580	300	25.00	25.00	0.40	7.50	13.17	15	7	MOD DL 6' NW
	B-67	16:09	820/520/800	540/520	25.00	25.00	0.40	7.50	13.17	15	5	
		16:12	520/800	240/520	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL AROUNDRODS BUMP TO 55 GPM
	B-71	16:20	260	0	25.00	25.00	0.40	7.50	13.17	15	5	2.75' DTW RW-3
		16:22	260	0	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL AROUND RODS
		16:26	420	140	16.67	16.67	0.27	5.00	8.78	10	9	BUMP TO 55 GPM -MOD DL 15' NW CRACK IN ASPHAULT
		16:32	260	0	25.00	25.00	0.40	7.50	13.17	15	11	RW-3 2.45' DTW POST INJ, MIN DL SAA, 45 GPM
					1636.67	**1636.67**	**26.19**	**491.00**	**862.20**	**982.00**		**Daily Totals**
3/10/2021	B-10	07:48	320	40	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 3' N
		07:51	320	40	3.33	3.33	0.05	1.00	1.76	2	6	SAA
		07:52	340	60	3.33	3.33	0.05	1.00	1.76	2	8	
	B-25	08:01	480	200	33.33	33.33	0.53	10.00	17.56	20	5	
		08:05	520/420	240/140	33.33	33.33	0.53	10.00	17.56	20	7	MIN DL 10' N
	B-28	08:14	340	60	20.00	20.00	0.32	6.00	10.54	12	4	MOD DL 2' N AND 5' E
		08:17	300	20	8.33	8.33	0.13	2.50	4.39	5	6	MOD DL SAA AND 7' NW
		08:21	320	40	20.00	20.00	0.32	6.00	10.54	12	8	MOD DL SAA
	B-15	08:35	560/640	280/360	25.00	25.00	0.40	7.50	13.17	15	5	MULTIPLE BREAKS
		08:39	680/600	400/320	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 20' N
	A-45	09:24	780/580/480	500/200	25.00	25.00	0.40	7.50	13.17	15	5	MW-1 2.7' DTW
		09:27	680/480	400/200	25.00	25.00	0.40	7.50	13.17	15	7	BUMP TO 65 AT END OF SHOT
		09:29	620/520	340/240	25.00	25.00	0.40	7.50	13.17	15	9	
		09:32	800/620	520/340	25.00	25.00	0.40	7.50	13.17	15	11	MW-1 DTW 6* BGS
	A-73	09:47	520	240	25.00	25.00	0.40	7.50	13.17	15	5	MAJ DL 2' NW - REFUSAL PILOT HOLE
		09:57	560/440	280/160	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL
		10:01	440	160	25.00	25.00	0.40	7.50	13.17	15	9	MOD DL BY FUEL CAPS
	A-21	10:21	360/320	80/40	25.00	25.00	0.40	7.50	13.17	15	5	
		10:24	340/280	60/0	25.00	25.00	0.40	7.50	13.17	15	7	
		10:26	440/340	160/60	25.00	25.00	0.40	7.50	13.17	15	9	
		10:27	620/520	340/240	25.00	25.00	0.40	7.50	13.17	15	11	
	A-17	10:57	780/400	500/120	25.00	25.00	0.40	7.50	13.17	15	5	
		11:00	620/520	340/240	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 2' S CRACK IN ASPHAULT
		11:02	620/360	340/80	25.00	25.00	0.40	7.50	13.17	15	9	SAA
		11:03	520/340	240/60	25.00	25.00	0.40	7.50	13.17	15	11	
	A-13	11:10	780/300	500/20	8.33	8.33	0.13	2.50	4.39	5	5	MOD DL ASPHAULT/ROAD SEAM
		11:19	540/340	260/60	8.33	8.33	0.13	2.50	4.39	5	7	SAA AND MIN DL FROM CRACK BY A-17
		11:20	620/320	340/40	8.33	8.33	0.13	2.50	4.39	5	9	SAA
		11:22	600/400	320/120	25.00	25.00	0.40	7.50	13.17	15	11	
	A-53	11:30	440/340	160/60	25.00	25.00	0.40	7.50	13.17	15	5	
		11:32	480/360	200/80	25.00	25.00	0.40	7.50	13.17	15	7	
		11:33	480/400	200/120	25.00	25.00	0.40	7.50	13.17	15	9	
		11:35	460/360	180/80	25.00	25.00	0.40	7.50	13.17	15	11	MIN DLAROUND RODS
	B-31	13:01	360	80	25.00	25.00	0.40	7.50	13.17	15	5	
		13:04	380	100	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL 10' N
		13:12	580/400	300/120	25.00	25.00	0.40	7.50	13.17	15	9	
		13:16	480/400	200/120	25.00	25.00	0.40	7.50	13.17	15	11	
	A-35	13:23	480/400	200/120	25.00	25.00	0.40	7.50	13.17	15	5	
		13:25	620	340	16.67	16.67	0.27	5.00	8.78	10	7	MIN DL CRACK 12' N
		13:28	540/440	260/160	8.33	8.33	0.13	2.50	4.39	5	9	MOD DL SAA AND MIN DL AROUND RODS
		13:35	780	500	16.67	16.67	0.27	5.00	8.78	10	11	
					855.00	**855.00**	**13.68**	**256.50**	**450.41**	**513.00**		**Daily Totals**
3/16/2021	A-36	09:07	300	20	25.00	25.00	0.40	7.50	13.17	15	4	40
		09:09	420/280	140/0	25.00	25.00	0.40	7.50	13.17	15	6	40
		09:11	600/350	320/70	25.00	25.00	0.40	7.50	13.17	15	8	40
		09:13	700/600	420/320	25.00	25.00	0.40	7.50	13.17	15	10	55
		09:16	400	120	25.00	25.00	0.40	7.50	13.17	15	12	55
	A-33	09:21	250	0	25.00	25.00	0.40	7.50	13.17	15	5	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:24	600	320	25.00	25.00	0.40	7.50	13.17	15	7	
		09:25	500/480	220/200	25.00	25.00	0.40	7.50	13.17	15	9	
		09:26	900	620	25.00	25.00	0.40	7.50	13.17	15	11	MAJ DL 10' NNW
	B-16	09:45	400/300	120/20	25.00	25.00	0.40	7.50	13.17	15	4	
		09:46	600/340	320/60	25.00	25.00	0.40	7.50	13.17	15	6	
		09:50	800/480	520/200	25.00	25.00	0.40	7.50	13.17	15	8	
	B-32	10:02	700/420	420/140	25.00	25.00	0.40	7.50	13.17	15	4	DTW RW-7 3.4'
		10:03	800/460	520/180	25.00	25.00	0.40	7.50	13.17	15	6	MOD DL 5' S ON CURB; DTW 3.4'
		10:06	900/500	620/220	20.00	20.00	0.32	6.00	10.54	12	8	MAJ DL SAA; DTW 3.1'
		10:08	800/520	520/240	25.00	25.00	0.40	7.50	13.17	15	10	DTW 2.7'; MIN SEEPAGE SAA
	B-86	11:13	900/800	620/520	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL 3' NE & 5' NW; DTW RW-2 2.43' 50 GPM
		11:16	800	520	25.00	25.00	0.40	7.50	13.17	15	6	DL SAA
		11:20	700/550	420/270	16.67	16.67	0.27	5.00	8.78	10	8	MOD DL 8' W
		11:22	900/680	620/400	13.33	13.33	0.21	4.00	7.02	8	10	MAJ DL; RW-2 RISE TO TOC
		11:27	800	520	33.33	33.33	0.53	10.00	17.56	20	12	MIN DL; RW-2 AT TOC
	B-82	11:33	240	0	25.00	25.00	0.40	7.50	13.17	15	4	
		11:36	400/340	120/60	25.00	25.00	0.40	7.50	13.17	15	6	MOD DL 4' NW BEHIND CURB
		11:38	380	100	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL
	B-78	11:44	280	0	25.00	25.00	0.40	7.50	13.17	15	4	
		11:47	400/340	120/60	16.67	16.67	0.27	5.00	8.78	10	6	MOD DL 3,4 & 5' NE; DL WITH SHOT
		11:50	800	520	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL
	B-74	13:38	500/420	220/140	25.00	25.00	0.40	7.50	13.17	15	4	RW-3 DTW 3.35'; DTW 3.1'; MIN DL AROUND WELL CASING; DTW 2.9'
		13:40	500	220	10.00	10.00	0.16	3.00	5.27	6	6	MAJ DL WELL PAD; 40 GPM
		13:43	700	420	25.00	25.00	0.40	7.50	13.17	15	8	DTW 1.8'; MIN DL; 1.2'; DTW TOC
		13:46	560	280	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL
		13:49	700	420	25.00	25.00	0.40	7.50	13.17	15	12	55 GPM
	B-97	13:57	300	20	25.00	25.00	0.40	7.50	13.17	15	5	
		13:59	430	150	25.00	25.00	0.40	7.50	13.17	15	7	
		14:00	700/480	420/200	25.00	25.00	0.40	7.50	13.17	15	9	
	B-101	14:07	340	60	25.00	25.00	0.40	7.50	13.17	15	5	40 GPM
		14:10	660	380	25.00	25.00	0.40	7.50	13.17	15	7	55 GPM
	B-89	14:16	500	220	25.00	25.00	0.40	7.50	13.17	15	5	MINDL 1' NW
		14:19	680/530	400/250	25.00	25.00	0.40	7.50	13.17	15	7	
	B-22	15:05	360	80	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 3' S
		15:07	500	220	5.00	5.00	0.08	1.50	2.63	3	6	IMMEDIATE DL W/ SHOT
		15:10	900/700	620/420	3.33	3.33	0.05	1.00	1.76	2	8	IMMEDIATE DL W/ SHOT
	B-18	15:16	560	280	25.00	25.00	0.40	7.50	13.17	15	4	40
		15:17	440	160	25.00	25.00	0.40	7.50	13.17	15	6	50
		15:20	700/560	420/280	25.00	25.00	0.40	7.50	13.17	15	8	55
	B-39	15:28	340	60	25.00	25.00	0.40	7.50	13.17	15	5	MOD DL 2' NW & 3' S
		15:32	600	320	10.00	10.00	0.16	3.00	5.27	6	7	MAJ DL SAA
	B-43	15:40	400	120	20.00	20.00	0.32	6.00	10.54	12	5	MOD-MAJ DL 3' E
		15:42	480	200	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL SAA
		15:47	480	200	8.33	8.33	0.13	2.50	4.39	5	9	MAJ DL SAA
		15:48	500	220	3.33	3.33	0.05	1.00	1.76	2	11	MAJ DL SAA
	A-27	16:04	440	160	25.00	25.00	0.40	7.50	13.17	15	5	
		16:08	420	140	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 5' N
		16:11	720	440	25.00	25.00	0.40	7.50	13.17	15	9	MIN DL 5' N
		16:15	740	460	16.67	16.67	0.27	5.00	8.78	10	11	MOD DL UP UNDERNEATH ASPHALT. SLOWLY DL
	A-49	17:03	420	140	25.00	25.00	0.40	7.50	13.17	15	5	
		17:06	530	250	25.00	25.00	0.40	7.50	13.17	15	7	
		17:08	640	360	25.00	25.00	0.40	7.50	13.17	15	9	
		17:10	800	520	25.00	25.00	0.40	7.50	13.17	15	11	
	A-65	17:16	500	220	25.00	25.00	0.40	7.50	13.17	15	5	
		17:18	580	300	25.00	25.00	0.40	7.50	13.17	15	7	
		17:20	600	320	25.00	25.00	0.40	7.50	13.17	15	9	
		17:22	760	480	25.00	25.00	0.40	7.50	13.17	15	11	
					1393.33	**1393.33**	**22.29**	**418.00**	**734.01**	**836.00**		**Daily Totals**
3/17/2021	B-49	08:39	540	260	25.00	25.00	0.40	7.50	13.17	15	5	
		08:42	700	420	25.00	25.00	0.40	7.50	13.17	15	7	
	B-45	08:52	300	20	10.00	10.00	0.16	3.00	5.27	6	5	MAJ DL 2' S
		08:55	500	220	3.33	3.33	0.05	1.00	1.76	2	7	MAJ DL SAA
	A-19	09:04	500	220	25.00	25.00	0.40	7.50	13.17	15	5	
		09:07	460	180	25.00	25.00	0.40	7.50	13.17	15	7	
		09:10	560	280	25.00	25.00	0.40	7.50	13.17	15	9	MIN DL 2' S
		09:14	700	420	25.00	25.00	0.40	7.50	13.17	15	11	
	A-15	09:24	400	120	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 4' SE
		09:27	500	220	8.33	8.33	0.13	2.50	4.39	5	7	MOD DL W SHOT
		09:29	780	500	25.00	25.00	0.40	7.50	13.17	15	9	MIN TO MOD DL 4' SE & 5' W
		09:32	820	540	25.00	25.00	0.40	7.50	13.17	15	11	MIN DL
	B-57	10:23	540	260	16.67	16.67	0.27	5.00	8.78	10	5	MIN DL ALONG CURB
		10:26	480	200	25.00	25.00	0.40	7.50	13.17	15	7	MOD DL
		10:29	780	500	25.00	25.00	0.40	7.50	13.17	15	9	MOD DL
		10:33	840/760	560/480	25.00	25.00	0.40	7.50	13.17	15	11	MOD DL RW-2 RISE TO TOC
	B-62	10:45	500	220	25.00	25.00	0.40	7.50	13.17	15	4	
		10:47	400	120	25.00	25.00	0.40	7.50	13.17	15	6	
		10:52	600	320	16.67	16.67	0.27	5.00	8.78	10	8	MOD DL
		10:55	800	520	25.00	25.00	0.40	7.50	13.17	15	10	MIN DL
		11:01	640	360	25.00	25.00	0.40	7.50	13.17	15	12	
	B-66	11:10	400	120	11.67	11.67	0.19	3.50	6.15	7	4	IMMEDIATE DL 5' N
		11:11	400	120	5.00	5.00	0.08	1.50	2.63	3	6	""
		11:15	1115	835	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL
	B-100	11:52	400	120	25.00	25.00	0.40	7.50	13.17	15	4	
		11:54	500	220	25.00	25.00	0.40	7.50	13.17	15	6	
		11:56	700/660	420/380	25.00	25.00	0.40	7.50	13.17	15	8	
	B-70	12:03	400	120	25.00	25.00	0.40	7.50	13.17	15	4	
		12:04	500/460	220/180	25.00	25.00	0.40	7.50	13.17	15	6	
		12:06	700/620	420/340	25.00	25.00	0.40	7.50	13.17	15	8	
		12:10	680	400	25.00	25.00	0.40	7.50	13.17	15	10	
		12:13	520	240	25.00	25.00	0.40	7.50	13.17	15	12	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
	B-113	12:25	420	140	25.00	25.00	0.40	7.50	13.17	15	5	
		12:26	600	320	25.00	25.00	0.40	7.50	13.17	15	7	
	B-109	12:35	400	120	25.00	25.00	0.40	7.50	13.17	15	5	
		12:39	600	320	25.00	25.00	0.40	7.50	13.17	15	7	
	D-1	14:30	400	120	25.00	25.00	0.40	7.50	13.17	15	5	
		14:36	460	180	25.00	25.00	0.40	7.50	13.17	15	7	
	D-23	14:44	460	180	25.00	25.00	0.40	7.50	13.17	15	5	
		14:47	700	420	25.00	25.00	0.40	7.50	13.17	15	7	MOD DL 3' N ALONG CURB
	D-47	14:55	320	40	25.00	25.00	0.40	7.50	13.17	15	5	
		14:59	600	320	25.00	25.00	0.40	7.50	13.17	15	7	MOD TO MAJ DL 8' S
	D-83	15:15	340	60	25.00	25.00	0.40	7.50	13.17	15	5	
		15:18	600	320	25.00	25.00	0.40	7.50	13.17	15	7	
	B-3	16:11	420	140	25.00	25.00	0.40	7.50	13.17	15	5	
		16:14	630	350	25.00	25.00	0.40	7.50	13.17	15	7	
	B-36	16:23	420	140	25.00	25.00	0.40	7.50	13.17	15	4	
		16:26	460	180	25.00	25.00	0.40	7.50	13.17	15	6	
		16:29	700	420	25.00	25.00	0.40	7.50	13.17	15	8	
	B-27	16:34	380	100	11.67	11.67	0.19	3.50	6.15	7	5	IMMEDIATE DL W/ SHOT 2' S
		16:37	480	200	10.00	10.00	0.16	3.00	5.27	6	7	IMMEDIATE DL W/ SHOT 2' S
	B-23	16:45	700/620	420/340	25.00	25.00	0.40	7.50	13.17	15	5	MIN DL 2' S
		16:50	700/680	420/400	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL
					1193.33	**1193.33**	**19.09**	**358.00**	**628.65**	**716.00**		**Daily Totals**
3/18/2021	A-47	08:27	460	180	25.00	25.00	0.40	7.50	13.17	15	5	
		08:29	900/520	620/240	25.00	25.00	0.40	7.50	13.17	15	7	
		08:30	700	420	25.00	25.00	0.40	7.50	13.17	15	9	
		08:31	730	450	25.00	25.00	0.40	7.50	13.17	15	11	MOD DL AFTER LAST SHOT 10' N
	A-43	08:41	540	260	25.00	25.00	0.40	7.50	13.17	15	5	
		08:45	730	450	25.00	25.00	0.40	7.50	13.17	15	7	
		08:46	840	560	25.00	25.00	0.40	7.50	13.17	15	9	MOD DL 15' N
		08:49	900/800	620/520	13.33	13.33	0.21	4.00	7.02	8	11	
	A-12	08:58	400	120	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 3' S
		09:00	420	140	3.33	3.33	0.05	1.00	1.76	2	6	IMMEDIATE DL W/ SHOT
		09:01	700	420	5.00	5.00	0.08	1.50	2.63	3	8	IMMEDIATE DL W/ SHOT
		09:03	680	400	8.33	8.33	0.13	2.50	4.39	5	10	IMMEDIATE DL W/ SHOT
		09:07	680	400	25.00	25.00	0.40	7.50	13.17	15	12	MIN TO NO DL
	B-81	09:19	430	150	25.00	25.00	0.40	7.50	13.17	15	5	MOD DL 4' NW ON CURB
		09:22	500	220	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL " "
	B-85	10:11	400	120	16.67	16.67	0.27	5.00	8.78	10	5	MAJ DL 7' SW
		10:15	700	420	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL 7' SW, MIN DL AROUND RODS
		10:16	720	440	5.00	5.00	0.08	1.50	2.63	3	9	MAJ DL 7' SW, MIN DL AROUND RODS
		10:22	900/760	620/480	21.67	21.67	0.35	6.50	11.41	13	11	MOD DL
	B-77	10:39	700/460	420/180	21.67	21.67	0.35	6.50	11.41	13	5	MAJ DL 2,3,4' SW & ALONG CURB
		10:43	600	320	5.00	5.00	0.08	1.50	2.63	3	7	MAJ DL 2,3,4' SW & ALONG CURB
		10:44	650	370	3.33	3.33	0.05	1.00	1.76	2	9	IMMEDIATE DL W/ SHOT
	B-72	10:54	580	300	25.00	25.00	0.40	7.50	13.17	15	4	
		10:56	660/500	380/220	25.00	25.00	0.40	7.50	13.17	15	6	
		10:59	900/780	620/500	25.00	25.00	0.40	7.50	13.17	15	8	
		11:01	680	400	25.00	25.00	0.40	7.50	13.17	15	10	
		11:04	680	400	25.00	25.00	0.40	7.50	13.17	15	12	
	B-98	12:45	320	40	25.00	25.00	0.40	7.50	13.17	15	4	
		12:46	440/380	160/100	25.00	25.00	0.40	7.50	13.17	15	6	
		12:48	600	320	25.00	25.00	0.40	7.50	13.17	15	8	
	B-94	12:52	580	300	25.00	25.00	0.40	7.50	13.17	15	4	
		12:53	400	120	25.00	25.00	0.40	7.50	13.17	15	6	
		12:56	500	220	25.00	25.00	0.40	7.50	13.17	15	8	
	B-102	13:04	320	40	25.00	25.00	0.40	7.50	13.17	15	4	
		13:05	340	60	25.00	25.00	0.40	7.50	13.17	15	6	
		13:08	960/600	680/320	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL
	B-105	13:14	340	60	25.00	25.00	0.40	7.50	13.17	15	5	
		13:16	460	180	25.00	25.00	0.40	7.50	13.17	15	7	MIN DL 5' NE & AROUND RODS
	B-21	14:02	340	60	16.67	16.67	0.27	5.00	8.78	10	5	MOD DL 4' SE
		14:05	580	300	5.00	5.00	0.08	1.50	2.63	3	7	
	B-41	14:11	340	60	3.33	3.33	0.05	1.00	1.76	2	5	IMMEDIATE DL W/ SHOT 1'S
		14:12	340	60	3.33	3.33	0.05	1.00	1.76	2	7	IMMEDIATE DL W/ SHOT 1'S
		14:17	600	320	25.00	25.00	0.40	7.50	13.17	15	9	
		14:21	560/400	280/120	25.00	25.00	0.40	7.50	13.17	15	11	
	B-35	14:27	340	60	8.33	8.33	0.13	2.50	4.39	5	5	MOD DL NEXT TO RODS
		14:31	500	220	11.67	11.67	0.19	3.50	6.15	7	7	MOD DL
	A-40	14:40	420	140	25.00	25.00	0.40	7.50	13.17	15	4	
		14:42	440	160	25.00	25.00	0.40	7.50	13.17	15	6	
		12:45	630	350	25.00	25.00	0.40	7.50	13.17	15	8	
		14:47	880	600	25.00	25.00	0.40	7.50	13.17	15	10	
		14:52	890/670	610/390	25.00	25.00	0.40	7.50	13.17	15	12	
	A-61	15:29	800	520	25.00	25.00	0.40	7.50	13.17	15	5	
		15:33	800	520	25.00	25.00	0.40	7.50	13.17	15	7	
		15:38	780	500	25.00	25.00	0.40	7.50	13.17	15	9	
		15:39	800	520	25.00	25.00	0.40	7.50	13.17	15	11	
					1076.67	**1076.67**	**17.23**	**323.00**	**567.19**	**646.00**		**Daily Totals**
3/19/2021	A-8	08:48	280	0	25.00	27.00	0.40	7.50	13.17	15	4	
		08:52	260	0	25.00	27.00	0.40	7.50	13.17	15	6	
		08:55	540/420	260/140	25.00	27.00	0.40	7.50	13.17	15	8	
		08:58	540/340	260/60	25.00	27.00	0.40	7.50	13.17	15	10	MIN DL 10' S
		09:02	280	0	25.00	27.00	0.40	7.50	13.17	15	12	MIN DL 10' S
	B-54	09:13	180	0	25.00	27.00	0.40	7.50	13.17	15	4	
		09:17	220	0	25.00	27.00	0.40	7.50	13.17	15	6	
		09:21	200	0	25.00	27.00	0.40	7.50	13.17	15	8	
		09:24	380/240	100/0	25.00	27.00	0.40	7.50	13.17	15	10	
	A-16	09:34	180	0	25.00	27.00	0.40	7.50	13.17	15	4	MOD DL 2' S
		09:38	200	0	25.00	27.00	0.40	7.50	13.17	15	6	MOD DL 2' S
		09:41	400/220	120/0	25.00	27.00	0.40	7.50	13.17	15	8	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:45	240	0	25.00	27.00	0.40	7.50	13.17	15	10	
		09:50	220	0	25.00	27.00	0.40	7.50	13.17	15	12	
	A-23	10:42	180	0	16.67	18.00	0.27	5.00	8.78	10	5	MAJ DL 2' S
		10:46	240	0	8.33	9.00	0.13	2.50	4.39	5	7	MAJ DL 2' S
		10:50	220	0	25.00	27.00	0.40	7.50	13.17	15	9	MIN DL 2' S
		10:56	180	0	25.00	27.00	0.40	7.50	13.17	15	11	MOD DL 2' S
	A-57	11:02	180	0	25.00	27.00	0.40	7.50	13.17	15	5	
		11:06	220	0	25.00	27.00	0.40	7.50	13.17	15	7	
		11:09	380/220	100/0	25.00	27.00	0.40	7.50	13.17	15	9	
		11:11	260	0	25.00	27.00	0.40	7.50	13.17	15	11	
	B-29	11:17	220	0	25.00	27.00	0.40	7.50	13.17	15	5	
		11:21	600/380	320/100	25.00	27.00	0.40	7.50	13.17	15	7	
	B-60	13:20	800/640	520/360	25.00	27.00	0.40	7.50	13.17	15	4	
		13:22	600	320	25.00	27.00	0.40	7.50	13.17	15	6	
		13:24	700	420	25.00	27.00	0.40	7.50	13.17	15	8	
	B-64	13:31	600/380	320/100	16.67	18.00	0.27	5.00	8.78	10	4	MOD DL 5' N ALONG CURB
		13:32	600	320	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 5' N ALONG CURB
		13:34	560	280	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 5' N ALONG CURB
	B-68	13:39	440	160	25.00	27.00	0.40	7.50	13.17	15	4	
		13:41	420	140	25.00	27.00	0.40	7.50	13.17	15	6	
		13:44	560/380	280/100	25.00	27.00	0.40	7.50	13.17	15	8	
		13:46	600/320	320/40	25.00	27.00	0.40	7.50	13.17	15	10	
		13:49	600/460	320/180	25.00	27.00	0.40	7.50	13.17	15	12	
	B-95	13:57	380	100	25.00	27.00	0.40	7.50	13.17	15	5	
		14:00	460	180	25.00	27.00	0.40	7.50	13.17	15	7	
	B-73	14:45	800/600	520/320	25.00	27.00	0.40	7.50	13.17	15	5	MOD DL 1' NE OF WELL
		14:49	800	520	16.67	18.00	0.27	5.00	8.78	10	7	MAJ DL 1' NE OF WELL
		14:53	800	520	16.67	18.00	0.27	5.00	8.78	10	9	MOD DL 1' NE OF WELL
		14:55	800/640	520/360	25.00	27.00	0.40	7.50	13.17	15	11	
	B-114	15:04	480	200	25.00	27.00	0.40	7.50	13.17	15	4	
		15:06	460	180	25.00	27.00	0.40	7.50	13.17	15	6	
		15:08	600	320	25.00	27.00	0.40	7.50	13.17	15	8	
	B-112	15:16	520	240	25.00	27.00	0.40	7.50	13.17	15	4	MIN DL 3' W
		15:18	560	280	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 3' W
		15:21	580	300	25.00	27.00	0.40	7.50	13.17	15	8	
	A-25	16:04	480	200	25.00	27.00	0.40	7.50	13.17	15	5	MIN DL 6' NW
		16:07	480	200	8.33	9.00	0.13	2.50	4.39	5	7	MAJ DL 6' NW
		16:10	640	360	25.00	27.00	0.40	7.50	13.17	15	9	MIN DL 6' NW
		16:14	800/580	520/300	25.00	27.00	0.40	7.50	13.17	15	11	MIN DL 6' NW
	B-19	16:31	700	420	25.00	27.00	0.40	7.50	13.17	15	5	
		16:35	640	360	25.00	27.00	0.40	7.50	13.17	15	7	MOD DL 10' E
	A-41	16:46	440	160	25.00	27.00	0.40	7.50	13.17	15	5	
		16:49	520	240	25.00	27.00	0.40	7.50	13.17	15	7	
		16:51	600/480	320/200	25.00	27.00	0.40	7.50	13.17	15	9	
		16:53	560	280	25.00	27.00	0.40	7.50	13.17	15	11	
	B-1	17:05	420	140	25.00	27.00	0.40	7.50	13.17	15	5	
		17:09	440	160	25.00	27.00	0.40	7.50	13.17	15	7	
					1358.33	**1467.00**	**21.73**	**407.50**	**715.57**	**815.00**	**Daily Totals**	
3/20/2021	B-12	08:23	700	420	25.00	27.00	0.40	7.50	13.17	15	4	
		08:26	680	400	25.00	27.00	0.40	7.50	13.17	15	6	
		08:29	840	560	25.00	27.00	0.40	7.50	13.17	15	8	MAJ DL 8' N
	A-31	08:40	420	140	25.00	27.00	0.40	7.50	13.17	15	5	
		08:42	640	360	25.00	27.00	0.40	7.50	13.17	15	7	
		08:45	600	320	25.00	27.00	0.40	7.50	13.17	15	9	
		08:48	680	400	25.00	27.00	0.40	7.50	13.17	15	11	
	A-28	08:56	440	160	25.00	27.00	0.40	7.50	13.17	15	4	
		08:58	460	180	25.00	27.00	0.40	7.50	13.17	15	6	MIN DL 10' NW
		09:02	700	420	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 10' NW
		09:05	580	300	16.67	18.00	0.27	5.00	8.78	10	10	MOD DL 10' NW
		09:08	640	360	25.00	27.00	0.40	7.50	13.17	15	12	MIN DL 10' NW
	A-1	09:57	480	200	25.00	27.00	0.40	7.50	13.17	15	5	
		10:01	480	200	25.00	27.00	0.40	7.50	13.17	15	7	MAJ DL 10' SE @ END OF SHOT
		10:06	640	360	8.33	9.00	0.13	2.50	4.39	5	9	MAJ DL 10' SE
		10:09	800	520	25.00	27.00	0.40	7.50	13.17	15	11	MIN DL 10' SE
	B-84	10:17	380	100	8.33	9.00	0.13	2.50	4.39	5	4	MAJ DL 1' W
		10:20	420	140	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 1' W
		10:23	540	260	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 1' W & MIN DL 2' NE
		10:25	700	420	8.33	9.00	0.13	2.50	4.39	5	10	MAJ DL 1' W & MIN DL 2' NE
		10:29	800	520	8.33	9.00	0.13	2.50	4.39	5	12	MAJ DL 1' W & MIN DL 2' NE
	B-80	10:40	700	420	16.67	18.00	0.27	5.00	8.78	10	4	MOD DL 3' W
		10:43	700	420	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 3' W
		10:46	800	520	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 3' W
	B-69	11:02	380	100	25.00	27.00	0.40	7.50	13.17	15	5	
		11:05	420	140	25.00	27.00	0.40	7.50	13.17	15	7	
		11:07	680	400	25.00	27.00	0.40	7.50	13.17	15	9	MOD DL AROUND WELL PAD
		11:10	580	300	25.00	27.00	0.40	7.50	13.17	15	11	MIN DL AROUND RODS & PAD
	D-2	13:47	380	100	25.00	27.00	0.40	7.50	13.17	15	4	
		13:50	360	80	25.00	27.00	0.40	7.50	13.17	15	6	
		13:53	600	320	25.00	27.00	0.40	7.50	13.17	15	8	
	D-24	14:02	400	120	25.00	27.00	0.40	7.50	13.17	15	4	
		14:04	380	100	25.00	27.00	0.40	7.50	13.17	15	6	
		14:06	560	280	25.00	27.00	0.40	7.50	13.17	15	8	
	D-45	14:13	380	100	25.00	27.00	0.40	7.50	13.17	15	5	OFFSET 2' N & MIN DL 1' N
		14:16	360	80	8.33	9.00	0.13	2.50	4.39	5	7	MAJ DL 1' N
	D-22	14:22	580	300	16.67	18.00	0.27	5.00	8.78	10	4	MAJ DL 4' SE
		14:24	520	240	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 4' SE
		14:26	700	420	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 4' SE
	B-90	15:12	440	160	25.00	27.00	0.40	7.50	13.17	15	4	
		15:14	420	140	25.00	27.00	0.40	7.50	13.17	15	6	
		15:19	640	360	25.00	27.00	0.40	7.50	13.17	15	8	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*								**70 GPM**
	Internal System Pressure 2(psig)			*400*								**50 GPM**
	Internal System Pressure 3(psig)			*280*								**35 GPM**
	B-93	15:26	580	300	25.00	27.00	0.40	7.50	13.17	15	5	
		15:28	640	360	25.00	27.00	0.40	7.50	13.17	15	7	
		15:32	780	500	25.00	27.00	0.40	7.50	13.17	15	9	
		15:34	680	400	25.00	27.00	0.40	7.50	13.17	15	11	
	B-108	15:42	420	140	25.00	27.00	0.40	7.50	13.17	15	4	
		15:44	380	100	25.00	27.00	0.40	7.50	13.17	15	6	
		15:46	560	280	25.00	27.00	0.40	7.50	13.17	15	8	
	B-106	16:18	360	80	16.67	18.00	0.27	5.00	8.78	10	4	MOD DL 3' NW
		16:20	400	120	16.67	18.00	0.27	5.00	8.78	10	6	MAJ DL 3' NW
		16:23	800/540	520/260	16.67	18.00	0.27	5.00	8.78	10	8	MOD DL 3' NW
	B-104	16:30	420	140	16.67	18.00	0.27	5.00	8.78	10	4	MAJ DL 8' NW & MIN DL 15' W
		16:31	360	80	8.33	9.00	0.13	2.50	4.39	5	6	MAJ DL 8' NW & MIN DL 15' W
		16:33	600	320	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 8' NW & MIN DL 15' W
					1083.33	**1170.00**	**17.33**	**325.00**	**570.70**	**650.00**		**Daily Totals**
3/22/2021	B-9	08:41	380	100	25.00	27.00	0.40	7.50	13.17	15	5	
		08:48	420	140	16.67	18.00	0.27	5.00	8.78	10	7	MAJ DL 10' NW
	B-2	08:57	360	80	25.00	27.00	0.40	7.50	13.17	15	4	MIN DL 3' E
		08:59	400	120	8.33	9.00	0.13	2.50	4.39	5	6	MOD DL 3' E
		09:03	600	320	16.67	18.00	0.27	5.00	8.78	10	8	MAJ DL 3' E
	B-47	09:16	340	60	16.67	18.00	0.27	5.00	8.78	10	5	MAJ DL 3' SE
		09:19	480	200	8.33	9.00	0.13	2.50	4.39	5	7	MAJ DL 3' SE
	A-30	09:27	340	60	25.00	27.00	0.40	7.50	13.17	15	4	MAJ DL FROM INJ POINT A-29
		09:40	400	120	25.00	27.00	0.40	7.50	13.17	15	6	
		09:44	600	320	25.00	27.00	0.40	7.50	13.17	15	8	
		09:47	540	260	25.00	27.00	0.40	7.50	13.17	15	10	
		09:50	700	420	25.00	27.00	0.40	7.50	13.17	15	12	
	A-26	10:53	480	200	25.00	27.00	0.40	7.50	13.17	15	4	MOD DL 6' NW
		11:06	480	200	25.00	27.00	0.40	7.50	13.17	15	6	MIN DL 6' NW
		11:09	560	280	25.00	27.00	0.40	7.50	13.17	15	8	MIN DL 6' NW
		11:13	600	320	16.67	18.00	0.27	5.00	8.78	10	10	MOD DL 6' NW
		11:17	700	420	25.00	27.00	0.40	7.50	13.17	15	12	MIN DL 6' NW
	A-24	11:24	400	120	25.00	27.00	0.40	7.50	13.17	15	4	MIN DL 5' SW
		11:26	420	140	8.33	9.00	0.13	2.50	4.39	5	6	MAJ 5' SW
		11:30	580	300	8.33	9.00	0.13	2.50	4.39	5	8	MAJ 5' SW
		11:34	700	420	25.00	27.00	0.40	7.50	13.17	15	10	MIN DL 5' SW
		11:38	800/640	520/360	25.00	27.00	0.40	7.50	13.17	15	12	MIN DL 5' SW
	B-111	11:54	360	80	25.00	27.00	0.40	7.50	13.17	15	5	MOD DL 1' SE
		11:57	580	300	25.00	27.00	0.40	7.50	13.17	15	7	MAJ DL 1' SE
	B-8	13:43	360	80	25.00	27.00	0.40	7.50	13.17	15	4	
		13:45	380	100	25.00	27.00	0.40	7.50	13.17	15	6	MIN DL 1' N
		13:49	600	320	25.00	27.00	0.40	7.50	13.17	15	8	
	A-20	14:02	340	60	25.00	27.00	0.40	7.50	13.17	15	4	
		14:06	400	120	25.00	27.00	0.40	7.50	13.17	15	6	MIN DL 8' NW
		14:08	700	420	8.33	9.00	0.13	2.50	4.39	5	8	MAJ DL 8' NW
		14:13	640	360	25.00	27.00	0.40	7.50	13.17	15	10	MAJ DL 8' NW
		14:15	680	400	25.00	27.00	0.40	7.50	13.17	15	12	MOD DL 8' NW
	A-14	14:26	400	120	25.00	27.00	0.40	7.50	13.17	15	4	
		14:29	380	100	25.00	27.00	0.40	7.50	13.17	15	6	DELAYED MAJ DL 10' E
		14:36	560	280	25.00	27.00	0.40	7.50	13.17	15	10	MOD DL 10' E
	B-91	15:25	360	80	25.00	27.00	0.40	7.50	13.17	15	5	MIN DL 3' S
		15:29	600	320	16.67	17.00	0.27	5.00	8.78	10	7	MAJ DL 3' S
	B-76	15:42	380	100	25.00	25.00	0.40	7.50	13.17	15	4	MIN DL AROUND RODS & MAJ DL 2' NW
		15:44	440	160	8.33	8.33	0.13	2.50	4.39	5	6	MIN DL AROUND RODS & MAJ DL 2' NW
		15:46	600	320	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL 2' NW
	B-110	15:53	400	120	16.67	16.67	0.27	5.00	8.78	10	4	MOD DL 3' SW & MOD DL 3' E
		15:57	460	180	16.67	16.67	0.27	5.00	8.78	10	6	MOD DL 3' SW & MOD DL 3' E
		16:00	700	420	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL 3' SW & MIN DL 3' E
	B-14	16:35	380	100	25.00	25.00	0.40	7.50	13.17	15	4	MOD DL 4' SE
		16:36	420	140	8.33	8.33	0.13	2.50	4.39	5	6	MAJ DL 4' SE
		16:38	760	480	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL 4' SE
	D-19	16:45	360	80	25.00	25.00	0.40	7.50	13.17	15	5	MOD DL AROUND RODS
		16:47	400	120	8.33	8.33	0.13	2.50	4.39	5	7	MAJ DL AROUND RODS
	D-82	16:53	420	140	25.00	25.00	0.40	7.50	13.17	15	4	
		16:55	480	200	25.00	25.00	0.40	7.50	13.17	15	6	
		16:57	600	320	25.00	25.00	0.40	7.50	13.17	15	8	
					1050.00	**1113.00**	**16.80**	**315.00**	**553.14**	**630.00**		**Daily Totals**
3/23/2021	C-1	14:41	600	320	16.67	16.67	0.27	5.00	8.78	10	5	MAJ DL 2' W ALONG ASPHALT
	C-7	14:45	300	20	16.67	16.67	0.27	5.00	8.78	10	5	MAJ DL W/ SHOT 4' E
	C-11	14:56	450	170	16.67	16.67	0.27	5.00	8.78	10	5	
	C-74	15:29	400	120	3.33	3.33	0.05	1.00	1.76	2	4	IMMEDIATE DL W/ SHOT 1' N
		15:31	430	150	1.67	1.67	0.03	0.50	0.88	1	6	IMMEDIATE DL W/ SHOT 1' N
	C-70	15:31	380	100	1.67	1.67	0.03	0.50	0.88	1	4	IMMEDIATE DL W/ SHOT 2' W
		15:36	400	120	1.67	1.67	0.03	0.50	0.88	1	6	IMMEDIATE DL W/ SHOT 2' W
	C-66	15:32	340	60	3.33	3.33	0.05	1.00	1.76	2	4	IMMEDIATE DL W/ SHOT 1' E
		15:48	580	300	33.33	33.33	0.53	10.00	17.56	20	6	
	C-112	16:23	300	20	10.00	10.00	0.16	3.00	5.27	6	4	IMMEDIATE DL 5' E
		16:25	540	260	6.67	6.67	0.11	2.00	3.51	4	6	IMMEDIATE DL 5' E
	C-116	16:31	500	220	25.00	25.00	0.40	7.50	13.17	15	4	IMMEDIATE DL 8' E
	C-120	16:43	400	120	25.00	25.00	0.40	7.50	13.17	15	4	
		16:47	600/300	320/20	25.00	25.00	0.40	7.50	13.17	15	6	MAJ DL 10' S
					186.67	**186.67**	**2.99**	**56.00**	**98.34**	**112.00**		**Daily Totals**
3/24/2021	C-36	08:16	200	0	13.33	13.33	0.21	4.00	7.02	8	4	RW-5 DTW 1.35' MOD DL 10' S ALONG ROAD; DTW 1.3'
		08:20	200	0	8.33	8.33	0.13	2.50	4.39	5	6	IMMEDIATE DL W/ SHOT
	C-32	08:25	220	0	8.33	8.33	0.13	2.50	4.39	5	4	MAJ DL 3' E
		08:28	190	0	5.00	5.00	0.08	1.50	2.63	3	6	IMMEDIATE DL W/SHOT
	C-28	08:38	250	0	25.00	25.00	0.40	7.50	13.17	15	4	
		08:43	180	0	25.00	25.00	0.40	7.50	13.17	15	6	
	C-76	09:19	360	80	3.33	3.33	0.05	1.00	1.76	2	6	MAJ DL AROUND RODS
		09:23	200	0	25.00	25.00	0.40	7.50	13.17	15	8	
	C-80	09:27	400	120	3.33	3.33	0.05	1.00	1.76	2	6	MOD DL NEXT TO RODS

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:31	380	100	25.00	25.00	0.40	7.50	13.17	15	8	
	C-84	09:37	350	70	25.00	25.00	0.40	7.50	13.17	15	6	MAJ DL AROUND RODS
		09:45	340	60	8.33	8.33	0.13	2.50	4.39	5	8	MAJ DL AROUND RODS
	C-88	10:03	340	60	25.00	25.00	0.40	7.50	13.17	15	6	
		10:07	340	60	25.00	25.00	0.40	7.50	13.17	15	8	MOD DL AROUND RODS
	C-40	10:59	400	120	8.33	8.33	0.13	2.50	4.39	5	6	DTW MW-6 1.8'; IMMEDIATE DL W/ SHOT 3' N; DTW 1.75'
		11:03	400	120	25.00	25.00	0.40	7.50	13.17	15	8	DTW 1.35'
	C-44	11:16	380	100	25.00	25.00	0.40	7.50	13.17	15	6	
		11:20	400	120	16.67	16.67	0.27	5.00	8.78	10	8	MAJ DL 4' NW
	C-54	11:27	340	60	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL 5' SW
		11:31	440	160	25.00	25.00	0.40	7.50	13.17	15	8	
	C-92	11:40	400	120	25.00	25.00	0.40	7.50	13.17	15	6	
		11:44	340	60	25.00	25.00	0.40	7.50	13.17	15	8	
	C-109	14:00	300	20	3.33	3.33	0.05	1.00	1.76	2	5	IMMEDIAFE DL W/ SHOT
		14:03	460	180	16.67	16.67	0.27	5.00	8.78	10	7	MAJ DL 5' NW
	C-105	14:16	360	80	16.67	16.67	0.27	5.00	8.78	10	5	MIN DL AROUND RODS
		14:19	420	140	25.00	25.00	0.40	7.50	13.17	15	7	
	C-101	14:26	340	60	6.67	6.67	0.11	2.00	3.51	4	5	MOD DL AROUND RODS
		14:29	350	70	6.67	6.67	0.11	2.00	3.51	4	7	IMMEDIATE DL W/ SHOT
	C-97	14:35	350	70	8.33	8.33	0.13	2.50	4.39	5	5	DL AROUND RODS
		14:39	340	60	3.33	3.33	0.05	1.00	1.76	2	7	IMMEDIATE
	C-94	15:19	420	140	25.00	25.00	0.40	7.50	13.17	15	6	ROD CART
		15:22	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-126	15:36	340	60	25.00	25.00	0.40	7.50	13.17	15	6	
		15:37	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-122	15:49	520	240	25.00	25.00	0.40	7.50	13.17	15	6	
		15:51	700/480	420/200	20.00	20.00	0.32	6.00	10.54	12	8	MOD DL 5' S
	C-118	16:00	360	80	8.33	8.33	0.13	2.50	4.39	5	6	MOD-MAJ DL AROUND RODS
		16:04	350	70	8.33	8.33	0.13	2.50	4.39	5	8	
	C-5	16:29	360	80	3.33	3.33	0.05	1.00	1.76	2	5	IMMEDIATE DL AROUND RODS
		16:33	320	40	25.00	25.00	0.40	7.50	13.17	15	7	
	C-9	16:54	320	40	25.00	25.00	0.40	7.50	13.17	15	5	
		16:55	320	40	33.33	33.33	0.53	10.00	17.56	20	7	
					735.00	**735.00**	**11.76**	**220.50**	**387.20**	**441.00**		**Daily Totals**
3/25/2021	C-13	08:35	260	0	25.00	25.00	0.40	7.50	13.17	15	5	
		08:38	260	0	25.00	25.00	0.40	7.50	13.17	15	7	
	C-17	08:54	230	0	25.00	25.00	0.40	7.50	13.17	15	5	40 GPM
		08:58	700/400	420/120	25.00	25.00	0.40	7.50	13.17	15	7	50 GPM
	C-48	09:29	280	0	25.00	25.00	0.40	7.50	13.17	15	6	
		09:32	430	150	25.00	25.00	0.40	7.50	13.17	15	8	
	C-52	09:38	280	0	25.00	25.00	0.40	7.50	13.17	15	6	
		09:48	300	20	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL 10' SE
	C-56	09:55	300	20	8.33	8.33	0.13	2.50	4.39	5	6	MAJ DL 3' NW
		09:59	420	140	16.67	16.67	0.27	5.00	8.78	10	8	
	C-86	10:31	280	0	25.00	25.00	0.40	7.50	13.17	15	6	
		10:33	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-90	10:41	300	20	25.00	25.00	0.40	7.50	13.17	15	6	
		10:43	500/400	220/120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-78	11:04	320	40	25.00	25.00	0.40	7.50	13.17	15	6	
		11:05	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-82	11:10	300	20	25.00	25.00	0.40	7.50	13.17	15	6	
		11:13	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-62	11:31	240	0	25.00	25.00	0.40	7.50	13.17	15	6	RW-9 DTW 2.1' RISING ACTIVELY BEFORE SHOT
		11:34	700/440	420/160	25.00	25.00	0.40	7.50	13.17	15	8	DTW 1.6'
	C-42	13:04	280	0	16.67	16.67	0.27	5.00	8.78	10	6	IMMEDIATE DL AROUND RODS PUSH TO 6.5'
		13:07	420	140	8.33	8.33	0.13	2.50	4.39	5	8	MOD DL AROUND RODS
	C-47	13:10	340	60	25.00	25.00	0.40	7.50	13.17	15	6	MAJ DL 15' S
		13:14	440	160	18.33	18.33	0.29	5.50	9.66	11	8	MOD DL
	C-38	13:28	360	80	25.00	25.00	0.40	7.50	13.17	15	6	
		13:30	400	120	25.00	25.00	0.40	7.50	13.17	15	8	
	C-35	13:39	340	60	10.00	10.00	0.16	3.00	5.27	6	5	RW-5 AT TOC BEFORE STARTING INJECTION POINT; MOD DL W/ SHOT
		13:42	400	120	25.00	25.00	0.40	7.50	13.17	15	7	
	C-30	14:05	260	0	25.00	25.00	0.40	7.50	13.17	15	6	
		14:07	380	100	20.00	20.00	0.32	6.00	10.54	12	8	MAJ DL 6' N
	C-26	14:14	300	20	3.33	3.33	0.05	1.00	1.76	2	6	MAJ DL AROUND RODS
		14:18	500	220	25.00	25.00	0.40	7.50	13.17	15	8	
	C-37	14:40	380	100	25.00	25.00	0.40	7.50	13.17	15	5	
		14:45	440	160	25.00	25.00	0.40	7.50	13.17	15	7	
	C-22	15:09	420	140	25.00	25.00	0.40	7.50	13.17	15	6	
		15:11	500	220	20.00	20.00	0.32	6.00	10.54	12	8	MOD DL AROUND RODS
	C-19	15:22	300	20	25.00	25.00	0.40	7.50	13.17	15	5	IMMEDIATE DL AROUND RODS
		15:26	440	160	25.00	25.00	0.40	7.50	13.17	15	7	
	C-124	15:59	330	50	25.00	25.00	0.40	7.50	13.17	15	6	
		16:01	440	160	25.00	25.00	0.40	7.50	13.17	15	8	
	C-128	16:06	380	100	25.00	25.00	0.40	7.50	13.17	15	6	
		16:08	520	240	25.00	25.00	0.40	7.50	13.17	15	8	
	C-114	16:23	330	50	25.00	25.00	0.40	7.50	13.17	15	6	
		16:25	480	200	25.00	25.00	0.40	7.50	13.17	15	8	
	C-68	16:56	300	20	25.00	25.00	0.40	7.50	13.17	15	6	
		16:57	540	260	25.00	25.00	0.40	7.50	13.17	15	8	
	C-64	17:02	500/320	220/40	25.00	25.00	0.40	7.50	13.17	15	6	
		17:04	520	240	25.00	25.00	0.40	7.50	13.17	15	8	
					1096.67	**1096.67**	**17.55**	**329.00**	**577.72**	**658.00**		**Daily Totals**
3/26/2021	C-60	08:30	600/300	320/20	25.00	25.00	0.40	7.50	13.17	15	6	
		08:32	320	40	25.00	25.00	0.40	7.50	13.17	15	8	MIN DL 10' SE
	C-58	08:38	600/320	320/40	25.00	25.00	0.40	7.50	13.17	15	6	
		08:41	600/440	320/160	25.00	25.00	0.40	7.50	13.17	15	8	
	C-24	08:58	280	0	25.00	25.00	0.40	7.50	13.17	15	6	RW-9 DTW 1.55'; DTW 1.5'
		09:00	450	170	25.00	25.00	0.40	7.50	13.17	15	8	DTW 1.4'
	C-20	09:07	320	40	25.00	25.00	0.40	7.50	13.17	15	6	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		09:08	520	240	25.00	25.00	0.40	7.50	13.17	15	8	
	C-2	09:27	280	0	8.33	8.33	0.13	2.50	4.39	5	6	MOD DL 2' S; RW-5 1.15'
		09:30	480	200	25.00	25.00	0.40	7.50	13.17	15	8	0.85' TO TOC
	C-34	09:38	260	0	25.00	25.00	0.40	7.50	13.17	15	6	MW-6 DTW 1.1'
		09:40	560	280	25.00	25.00	0.40	7.50	13.17	15	8	
	C-115	10:23	300	20	25.00	25.00	0.40	7.50	13.17	15	5	MIN AROUND RODS
		10:25	560	280	25.00	25.00	0.40	7.50	13.17	15	7	
	C-119	10:33	500	220	16.67	16.67	0.27	5.00	8.78	10	5	MOD DL 7' NU
		10:38	560	280	25.00	25.00	0.40	7.50	13.17	15	7	
	C-72	10:58	340	60	25.00	25.00	0.40	7.50	13.17	15	6	MIN DL 2' NE
		11:00	500	220	25.00	25.00	0.40	7.50	13.17	15	8	
	C-69	11:07	300	20	25.00	25.00	0.40	7.50	13.17	15	5	
		11:10	480	200	25.00	25.00	0.40	7.50	13.17	15	7	
	C-49	11:29	330	50	16.67	16.67	0.27	5.00	8.78	10	5	MAJ AROUND RODS
		11:31	420	140	25.00	25.00	0.40	7.50	13.17	15	7	
	C-51	11:37	300	20	25.00	25.00	0.40	7.50	13.17	15	5	LARGE BUBBLE UNDER GRASS 3' N
		11:40	440	160	25.00	25.00	0.40	7.50	13.17	15	7	
	C-106	13:14	600/320	320/40	25.00	25.00	0.40	7.50	13.17	15	6	
		13:16	500	220	25.00	25.00	0.40	7.50	13.17	15	8	
	C-103	13:21	280	0	13.33	13.33	0.21	4.00	7.02	8	5	MOD DL AROUND RODS
		13:23	560	280	25.00	25.00	0.40	7.50	13.17	15	7	
	C-100	13:46	540/300	260/20	25.00	25.00	0.40	7.50	13.17	15	6	
		13:47	540	260	25.00	25.00	0.40	7.50	13.17	15	8	
	C-96	13:53	400	120	23.33	23.33	0.37	7.00	12.29	14	6	MAJ AROUND RODS
		13:55	400	120	5.00	5.00	0.08	1.50	2.63	3	8	MOD AROUND RODS
	C-93	14:15	500/420	220/140	8.33	8.33	0.13	2.50	4.39	5	5	IMMEDIATE DL AROUND RODS
		14:17	570	290	16.67	16.67	0.27	5.00	8.78	10	7	MAJ DL 5' NW
	C-57	14:23	430	150	20.00	20.00	0.32	6.00	10.54	12	5	MOD DL AROUND RODS
		14:24	450	170	25.00	25.00	0.40	7.50	13.17	15	7	
	E-7	15:39	240	0	11.67	11.67	0.14	3.50	6.15	7	5	MW-7 DTW 2.45'; MOD DL 4' N
		15:43	500	220	25.00	25.00	0.30	7.50	13.17	15	7	DTW 1.55'
		15:47	600/540	320/260	25.00	25.00	0.30	7.50	13.17	15	9	WATER RISE TO TOC
		15:30	600	320	25.00	25.00	0.30	7.50	13.17	15	11	
	E-14				0.00	0.00	0.00	0.00	0.00		4	IMMEDIATE DL AROUND RODS & 2' E
		16:09	600	320	10.00	10.00	0.12	3.00	5.27	6	6	MAJ DL 4' E
		16:13	600	320	25.00	25.00	0.30	7.50	13.17	15	8	
		16:44	520	240	25.00	25.00	0.30	7.50	13.17	15	10	
		16:45	540	260	25.00	25.00	0.30	7.50	13.17	15	12	
	E-6	07:52	350	70	8.33	8.33	0.10	2.50	4.39	5	4	MW-7 DTW 2.4' MAJ DL 3' SW
		07:55	440	160	25.00	25.00	0.30	7.50	13.17	15	6	DTW 1.3' & RISING, PLUG UP
		07:58	450	170	25.00	25.00	0.30	7.50	13.17	15	8	
		08:00	460	180	25.00	25.00	0.30	7.50	13.17	15	10	
		08:01	380	100	16.67	16.67	0.20	5.00	8.78	10	12	MAJ DL 3' SW
					1075.00	**1075.00**	**16.11**	**322.50**	**566.31**	**645.00**	**Daily Totals**	
3/27/2021	E-1	08:20	360	80	25.00	25.00	0.30	7.50	13.17	15	5	
		08:22	480	200	25.00	25.00	0.30	7.50	13.17	15	7	
		08:23	480	200	25.00	25.00	0.30	7.50	13.17	15	9	
		08:25	510	230	25.00	25.00	0.30	7.50	13.17	15	11	
	E-9	08:45	420	140	18.33	18.33	0.22	5.50	9.66	11	5	MIN DL 4' SW
		08:47	440	160	25.00	25.00	0.30	7.50	13.17	15	7	
		08:49	480	200	25.00	25.00	0.30	7.50	13.17	15	9	
		08:50	450	170	25.00	25.00	0.30	7.50	13.17	15	11	MOD DL 4' SW
	C-3	10:37	220	0	25.00	25.00	0.30	7.50	13.17	15	5	MW-6 DTW 1.8'; DTW 1.6'
		10:40	480	200	25.00	25.00	0.30	7.50	13.17	15	7	DTW 1'
	C-6	10:47	420/340	140/60	16.67	16.67	0.20	5.00	8.78	10	6	MOD DL 4' W
		10:49	490	210	25.00	25.00	0.30	7.50	13.17	15	8	MIN DL
	C-10	11:08	260	0	25.00	25.00	0.30	7.50	13.17	15	6	
		11:10	460	180	25.00	25.00	0.30	7.50	13.17	15	8	
	C-14	11:17	300	20	25.00	25.00	0.30	7.50	13.17	15	6	
		11:20	500	220	25.00	25.00	0.30	7.50	13.17	15	8	
	C-18	12:47	400	120	25.00	25.00	0.30	7.50	13.17	15	6	
		12:49	480	200	25.00	25.00	0.30	7.50	13.17	15	8	
	C-55	12:55	450	170	10.00	10.00	0.12	3.00	5.27	6	5	IMMEDIATE DL AROUND RODS
		12:56	450	170	16.67	16.67	0.20	5.00	8.78	10	7	MOD DL AROUND RODS
	C-46	13:17	240	0	25.00	25.00	0.30	7.50	13.17	15	6	
		13:18	500	220	25.00	25.00	0.30	7.50	13.17	15	8	
	C-50	13:26	220	0	16.67	16.67	0.20	5.00	8.78	10	6	RW-9 DTW 2'; ROSE TO TOC; MAJ DL AROUND WELL PAD
		13:28	380	100	25.00	25.00	0.30	7.50	13.17	15	8	
	C-39	13:51	320	40	16.67	16.67	0.20	5.00	8.78	10	5	MOD DL AROUND RODS
		13:52	430	150	25.00	25.00	0.30	7.50	13.17	15	7	
	C-43	13:59	260	0	25.00	25.00	0.30	7.50	13.17	15	5	
		14:00	400	120	16.67	16.67	0.20	5.00	8.78	10	7	MAJ DL 15' N
	C-98	14:43	320	40	25.00	25.00	0.30	7.50	13.17	15	6	
		14:45	400	120	25.00	25.00	0.30	7.50	13.17	15	8	
	C-95	14:52	220	0	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL AROUND RODS & 1' N
		14:54	420	140	8.33	8.33	0.10	2.50	4.39	5	7	MAJ DL
	C-117	15:12	300	20	8.33	8.33	0.10	2.50	4.39	5	5	MAJ AROUND RODS
		15:13	400	120	25.00	25.00	0.30	7.50	13.17	15	7	
	C-121	15:22	340	60	25.00	25.00	0.30	7.50	13.17	15	5	MIN DL AROUND RODS
		15:23	480	200	25.00	25.00	0.30	7.50	13.17	15	7	
	E-3	15:42	440	160	25.00	25.00	0.30	7.50	13.17	15	5	MW-7 DTW 2.2'
		15:44	500	220	25.00	25.00	0.30	7.50	13.17	15	7	DTW 1.4'
		15:47	480	200	25.00	25.00	0.30	7.50	13.17	15	9	RISE TO TOC
		15:48	500	220	25.00	25.00	0.30	7.50	13.17	15	11	MAJ DL 10' W
					886.67	**886.67**	**10.64**	**266.00**	**467.10**	**532.00**	**Daily Totals**	
3/29/2021	E-4	08:23	420	140	13.33	13.33	0.16	4.00	7.02	8	4	MW-7 DTW 2.6'; MAJ DL 5' W & MIN DL 4'W
		08:27	580	300	11.67	11.67	0.14	3.50	6.15	7	6	DTW 2.3'; MAJ DL SAA
		08:29	630	350	25.00	25.00	0.30	7.50	13.17	15	8	MOD DL
		08:31	640	360	16.67	16.67	0.20	5.00	8.78	10	10	DTW 2.15'; MOD DL
		08:33	680	400	8.33	8.33	0.10	2.50	4.39	5	12	IMMEDIATE DL W/ SHOT

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
	E-16	08:55	600	320	3.33	3.33	0.04	1.00	1.76	2	4	IMMEDIATE DL AROUND RODS
		08:57	620	340	25.00	25.00	0.30	7.50	13.17	15	6	
		08:59	620	340	25.00	25.00	0.30	7.50	13.17	15	8	MIN DL AROUND RODS
		09:00	630	350	25.00	25.00	0.30	7.50	13.17	15	10	MIN DL AROUND RODS
		09:02	630	350	25.00	25.00	0.30	7.50	13.17	15	12	MIN DL AROUND RODS
	E-13	09:24	460	180	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL 3' NW
		09:26	450	170	25.00	25.00	0.30	7.50	13.17	15	7	
		09:28	560	280	25.00	25.00	0.30	7.50	13.17	15	9	
		09:32	540	260	25.00	25.00	0.30	7.50	13.17	15	11	
	C-16	10:05	540	260	25.00	25.00	0.30	7.50	13.17	15	6	
		10:07	620	340	25.00	25.00	0.30	7.50	13.17	15	8	
	C-25	10:15	400	120	25.00	25.00	0.30	7.50	13.17	15	5	
		10:16	580	300	25.00	25.00	0.30	7.50	13.17	15	7	
	C-33	10:35	420	140	25.00	25.00	0.30	7.50	13.17	15	5	MOD DL 12' N
		10:38	440	160	25.00	25.00	0.30	7.50	13.17	15	7	
	C-29	10:46	500	220	25.00	25.00	0.30	7.50	13.17	15	5	
		10:48	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-63	11:15	480	200	25.00	25.00	0.30	7.50	13.17	15	5	
		11:17	560	280	25.00	25.00	0.30	7.50	13.17	15	7	
	C-59	11:24	460	180	25.00	25.00	0.30	7.50	13.17	15	5	MAJ DL AROUND RODS
		11:25	580	300	25.00	25.00	0.30	7.50	13.17	15	7	
	C-71	11:51	520	240	25.00	25.00	0.30	7.50	13.17	15	5	
		11:52	560	280	25.00	25.00	0.30	7.50	13.17	15	7	
	C-67	11:57	480	200	25.00	25.00	0.30	7.50	13.17	15	5	MOD DL AROUND RODS
		11:59	570	290	25.00	25.00	0.30	7.50	13.17	15	7	
	C-107	13:27	430	150	8.33	8.33	0.10	2.50	4.39	5	5	MAJ 1' SE
		13:29	500	220	25.00	25.00	0.30	7.50	13.17	15	7	
	C-104	13:37	420	140	25.00	25.00	0.30	7.50	13.17	15	6	
		13:38	600	320	25.00	25.00	0.30	7.50	13.17	15	8	
	C-99	13:56	560	280	25.00	25.00	0.30	7.50	13.17	15	5	
		13:56	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-125	14:02	400	120	8.33	8.33	0.10	2.50	4.39	5	5	IMMEDIATE DL AROUND RODS
		14:03	620	340	25.00	25.00	0.30	7.50	13.17	15	7	
	C-53	14:46	540	260	25.00	25.00	0.30	7.50	13.17	15	5	
		14:47	640	360	25.00	25.00	0.30	7.50	13.17	15	7	MAJ DL 3' NW
	C-91	14:53	400	120	25.00	25.00	0.30	7.50	13.17	15	5	
		14:55	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-8	15:11	500	220	25.00	25.00	0.30	7.50	13.17	15	6	
		15:13	600	320	25.00	25.00	0.30	7.50	13.17	15	8	
	C-12	15:18	420	140	25.00	25.00	0.30	7.50	13.17	15	6	
		15:20	700/620	420/340	25.00	25.00	0.30	7.50	13.17	15	8	
	C-4	15:36	440	160	25.00	25.00	0.30	7.50	13.17	15	6	MAJ DL 15' N
		15:39	580	300	21.67	21.67	0.26	6.50	11.41	13	8	MAJ DL
	C-75	15:51	420	140	25.00	25.00	0.30	7.50	13.17	15	5	
		15:53	590	310	25.00	25.00	0.30	7.50	13.17	15	7	
	C-81	16:22	440	160	25.00	25.00	0.30	7.50	13.17	15	5	MAJ DL AROUND RODS; MIN 1' W
		16:23	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-87	16:29	450	170	25.00	25.00	0.30	7.50	13.17	15	5	
		16:31	620	340	25.00	25.00	0.30	7.50	13.17	15	7	MAJ DL 4' NW
	E-2	17:01	440	160	25.00	25.00	0.30	7.50	13.17	15	4	
		17:02	600/520	320/240	25.00	25.00	0.30	7.50	13.17	15	6	
		17:04	560	280	25.00	25.00	0.30	7.50	13.17	15	8	MIN DL 3' NW
		17:06	560	280	25.00	25.00	0.30	7.50	13.17	15	10	MOD DL
		17:06	600	320	16.67	16.67	0.20	5.00	8.78	10	12	MAJ DL
					1341.67	**1341.67**	**16.10**	**402.50**	**706.79**	**805.00**		**Daily Totals**
3/30/2021	E-11	07:52	400	120	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL 1' E
		07:54	420	140	25.00	25.00	0.30	7.50	13.17	15	7	
		07:56	630	350	25.00	25.00	0.30	7.50	13.17	15	9	
		07:58	630	350	25.00	25.00	0.30	7.50	13.17	15	11	
	E-5	08:17	460	180	3.33	3.33	0.04	1.00	1.76	2	5	MAJ DL 2' E
		08:19	500	220	25.00	25.00	0.30	7.50	13.17	15	7	
		08:20	580	300	25.00	25.00	0.30	7.50	13.17	15	9	
		08:21	590	310	25.00	25.00	0.30	7.50	13.17	15	11	
	E-15	08:40	450	170	25.00	25.00	0.30	7.50	13.17	15	5	
		08:41	470	190	25.00	25.00	0.30	7.50	13.17	15	7	
		08:42	470	190	25.00	25.00	0.30	7.50	13.17	15	9	
		08:43	630	350	25.00	25.00	0.30	7.50	13.17	15	11	
	C-21	09:42	380	100	16.67	16.67	0.20	5.00	8.78	10	5	MAJ DL 5' SE
		09:45	620	340	25.00	25.00	0.30	7.50	13.17	15	7	
	C-27	10:00	430	150	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL 2' E
		10:08	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-31	10:52	450	170	25.00	25.00	0.30	7.50	13.17	15	5	
		10:54	590	310	25.00	25.00	0.30	7.50	13.17	15	7	
	C-41	11:04	430	150	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL 4' N
		11:06	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-85	11:24	600/460	320/180	25.00	25.00	0.30	7.50	13.17	15	5	
		11:25	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	C-89	11:31	500	220	25.00	25.00	0.30	7.50	13.17	15	5	
		11:31	520	240	25.00	25.00	0.30	7.50	13.17	15	7	
	C-77	12:59	430	150	25.00	25.00	0.30	7.50	13.17	15	5	
		13:01	610	330	25.00	25.00	0.30	7.50	13.17	15	7	
	C-110	13:08	410	130	16.67	16.67	0.20	5.00	8.78	10	6	MAJ DL 5' NW
		13:11	600	320	25.00	25.00	0.30	7.50	13.17	15	8	
	C-83	13:34	460	180	25.00	25.00	0.30	7.50	13.17	15	5	
		13:35	580	300	25.00	25.00	0.30	7.50	13.17	15	7	
	C-123	13:41	520	240	25.00	25.00	0.30	7.50	13.17	15	5	
		13:42	580	300	16.67	16.67	0.20	5.00	8.78	10	7	MOD DL 10' SE
	C-23	14:03	460	180	25.00	25.00	0.30	7.50	13.17	15	5	
		14:06	660	380	25.00	25.00	0.30	7.50	13.17	15	7	
	C-45	14:12	450	170	8.33	8.33	0.10	2.50	4.39	5	5	MAJ DL 5' NE

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		14:15	560	280	16.67	16.67	0.20	5.00	8.78	10	7	MOD DL
	C-102	14:46	440	160	25.00	25.00	0.30	7.50	13.17	15	6	
		14:47	500	220	25.00	25.00	0.30	7.50	13.17	15	8	
	C-61	14:55	500	220	25.00	25.00	0.30	7.50	13.17	15	5	
		14:57	560	280	25.00	25.00	0.30	7.50	13.17	15	7	MOD DL 10' N
	E-8	15:24	430	150	8.33	8.33	0.10	2.50	4.39	5	4	MAJ DL 1' E
		15:26	520	240	16.67	16.67	0.20	5.00	8.78	10	6	MAJ DL 7' SW
		15:28	550	270	8.33	8.33	0.10	2.50	4.39	5	8	MAJ DL
		15:31	600	320	25.00	25.00	0.30	7.50	13.17	15	10	
		15:32	600	320	25.00	25.00	0.30	7.50	13.17	15	12	
	E-10	07:48	560	280	8.33	8.33	0.10	2.50	4.39	5	4	MAJ DL 3' SW & AROUND RODS
		07:51	560	280	25.00	25.00	0.30	7.50	13.17	15	6	
		07:53	670	390	16.67	16.67	0.20	5.00	8.78	10	8	MAJ DL 7' SE
		07:53	670	390	8.33	8.33	0.10	2.50	4.39	5	10	MAJ DL
		07:56	600	320	25.00	25.00	0.30	7.50	13.17	15	12	MIN DL
	E-12	08:15	430	150	8.33	8.33	0.10	2.50	4.39	5	4	MAJ DL 3' E
		08:18	500	220	25.00	25.00	0.30	7.50	13.17	15	6	
		08:21	530	250	10.00	10.00	0.12	3.00	5.27	6	8	MAJ DL
		08:22	530	250	10.00	10.00	0.12	3.00	5.27	6	10	MAJ DL
		08:23	600	320	11.67	11.67	0.14	3.50	6.15	7	12	MAJ DL
	C-111	08:51	410	130	16.67	16.67	0.20	5.00	8.78	10	5	MOD DL 3' NW
		08:53	600	320	8.33	8.33	0.10	2.50	4.39	5	7	MAJ DL
	C-108	09:00	460	180	25.00	25.00	0.30	7.50	13.17	15	6	
		09:01	560	280	25.00	25.00	0.30	7.50	13.17	15	8	
	C-65	09:19	400	120	25.00	25.00	0.30	7.50	13.17	15	5	
		09:21	560	280	25.00	25.00	0.30	7.50	13.17	15	7	
	C-15	09:25	420	140	25.00	25.00	0.30	7.50	13.17	15	5	
		09:27	540	260	25.00	25.00	0.30	7.50	13.17	15	7	
	C-127	09:54	430	150	8.33	8.33	0.10	2.50	4.39	5	5	MOD AROUND RODS
		09:56	560	280	25.00	25.00	0.30	7.50	13.17	15	7	
	C-113	10:06	410	130	25.00	25.00	0.30	7.50	13.17	15	5	
		10:07	630	350	25.00	25.00	0.30	7.50	13.17	15	7	
	C-73	10:35	430	150	8.33	8.33	0.10	2.50	4.39	5	5	MOD DL 2' N
		10:36	540	260	25.00	25.00	0.30	7.50	13.17	15	7	
	C-79	10:40	340	60	25.00	25.00	0.30	7.50	13.17	15	5	
		10:44	540	260	25.00	25.00	0.30	7.50	13.17	15	7	70 IN TANK
					1451.67	**1451.67**	**17.42**	**435.50**	**764.74**	**871.00**		**Daily Totals**
4/6/2021	F-26	13:56	680/400	400/120	25.00	25.00	0.30	7.50	13.17	15	4	
		13:58	700/400	420/120	25.00	25.00	0.30	7.50	13.17	15	6	
	F-28	14:04	600	320	25.00	25.00	0.30	7.50	13.17	15	4	
		14:06	600/440	320/160	25.00	25.00	0.30	7.50	13.17	15	6	DL Min 8' NW BlkH2O w/Bos
	F-30	14:28	600/460	320/180	25.00	25.00	0.30	7.50	13.17	15	4	
		14:31	600/420	320/140	25.00	25.00	0.30	7.50	13.17	15	6	
	F-32	14:35	800/500	520/220	25.00	25.00	0.30	7.50	13.17	15	4	
		14:36	800/600	520/320	25.00	25.00	0.30	7.50	13.17	15	6	DL Mod 10' NW BlkH2O
	F-34	15:17	800/680	520/400	25.00	25.00	0.30	7.50	13.17	15	4	
		15:19	780	500	25.00	25.00	0.30	7.50	13.17	15	6	DL Min 10' N BlkH2O
	F-36	15:22	780	500	25.00	25.00	0.30	7.50	13.17	15	4	
		15:24	800/640	520/360	25.00	25.00	0.30	7.50	13.17	15	6	
	F-38	16:10	600	320	25.00	25.00	0.30	7.50	13.17	15	4	
		16:12	600	320	25.00	25.00	0.30	7.50	13.17	15	6	
	F-12	16:17	600	320	25.00	25.00	0.30	7.50	13.17	15	4	DL Maj 1' N BlkH2O
		16:21	700/460	420/180	25.00	25.00	0.30	7.50	13.17	15	6	
	F-10	16:45	600	320	25.00	25.00	0.30	7.50	13.17	15	4	DL Mod 2' N BlkH2O
		16:47	780	500	25.00	25.00	0.30	7.50	13.17	15	6	
	F-8	16:50	600	320	8.33	8.33	0.10	2.50	4.39	5	4	DL Maj Around Rods
		16:52	660	380	25.00	25.00	0.30	7.50	13.17	15	6	
					483.33	**483.33**	**5.80**	**145.00**	**254.62**	**290.00**		**Daily Totals**
4/7/2021	F-6	08:05	400	120	25.00	25.00	0.30	7.50	13.17	15	4	
		08:06	600/380	320/100	25.00	25.00	0.30	7.50	13.17	15	6	
	F-4	08:14	600/400	320/120	8.33	8.33	0.10	2.50	4.39	5	4	DL Maj 2' N BlkH2O
		08:16	600/400	320/120	8.33	8.33	0.10	2.50	4.39	5	6	SAA
	F-2	08:36	500	220	8.33	8.33	0.10	2.50	4.39	5	4	DL Maj Around Rods
		08:39	700/500	420/220	25.00	25.00	0.30	7.50	13.17	15	6	SAA Min
	F-14	08:56	600/420	320/140	25.00	25.00	0.30	7.50	13.17	15	4	DL Min F-2 BlkH2O
		08:58	700/560	420/280	8.33	8.33	0.10	2.50	4.39	5	6	SAA Maj
	F-16	09:54	700/460	420/180	8.33	8.33	0.10	2.50	4.39	5	4	DL Mod 4' NW BlkH2O
		09:56	600/540	320/260	8.33	8.33	0.10	2.50	4.39	5	6	SAA
	F-18	10:02	600/380	320/100	8.33	8.33	0.10	2.50	4.39	5	4	DL Maj Around Rods
		10:04	700/400	420/120	25.00	25.00	0.30	7.50	13.17	15	6	SAA Min
	F-20	10:26	600/460	320/180	25.00	25.00	0.30	7.50	13.17	15	4	DL Min 5' NE BlkH2O
		10:31	680/580	400/300	25.00	25.00	0.30	7.50	13.17	15	6	SAA
	F-22	10:44	680/540	400/260	12.50	12.50	0.15	3.75	6.59	7.5	4	DL Mod 6' NW BlkH2O
		10:46	600/440	320/160	25.00	25.00	0.30	7.50	13.17	15	6	
	F-24	11:29	500	220	25.00	25.00	0.30	7.50	13.17	15	4	
		11:30	760	480	25.00	25.00	0.30	7.50	13.17	15	6	
	G-1	13:07	400/280	120/0	8.33	5.00	0.10	2.50	4.39	5	5	DL Maj Around Rods
		13:09	500	220	12.50	7.50	0.15	3.75	6.59	7.5	7	SAA Mod
		13:11	600	320	25.00	15.00	0.30	7.50	13.17	15	9	SAA Min
	G-3	13:19	460	180	25.00	15.00	0.30	7.50	13.17	15	5	
		13:22	620	340	25.00	15.00	0.30	7.50	13.17	15	7	Influence RW-12 (Top of Casing) w/Bos
		13:23	680	400	25.00	15.00	0.30	7.50	13.17	15	9	Overflow RW-12
	G-5	13:44	800/680	520/400	25.00	15.00	0.30	7.50	13.17	15	5	
		13:44	680	400	25.00	15.00	0.30	7.50	13.17	15	7	
		13:55	740	460	25.00	15.00	0.30	7.50	13.17	15	9	
	F-27	14:28	400	120	25.00	25.00	0.30	7.50	13.17	15	5	
		14:29	640	360	25.00	25.00	0.30	7.50	13.17	15	7	
	F-29	14:34	600	320	25.00	25.00	0.30	7.50	13.17	15	5	
		14:35	600	320	25.00	25.00	0.30	7.50	13.17	15	7	
	F-31	15:09	500	220	25.00	25.00	0.30	7.50	13.17	15	5	

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 1
Phase 1 BOS 200+ Injection Details
Circle K # 2720886

5152286 ATC Circle K - 4315 Savannah Highway, Ravenel, SC 29470

Date	Injection Point ID	Time	Injection Pressure (psig) 1, 2	Formation Pressure (PSI)	lbs of BOS 100 Injected	lbs of Gypsum Injected	lbs of Yeast Injected	lbs of Starch Injected	lbs of Magnesium Sulfate Injected	Gallons Injected	Depth Interval (ft bgs)	Notes
		Flow Rates Vary from 35-70 GPM										
		Injection Tip Geometries: 6 - 5/32" Holes or 9 - 1/8" Holes										
	Internal System Pressure 1(psig)			*680*							**70 GPM**	
	Internal System Pressure 2(psig)			*400*							**50 GPM**	
	Internal System Pressure 3(psig)			*280*							**35 GPM**	
		15:10	600	320	25.00	25.00	0.30	7.50	13.17	15	7	DL Min 15' NW BlkH2O
	F-33	15:14	680	400	25.00	25.00	0.30	7.50	13.17	15	5	DL Min 20' NW BlkH2O
		15:15	980/600	700/320	25.00	25.00	0.30	7.50	13.17	15	7	SAA Mod
	F-35	15:54	800	520	25.00	25.00	0.30	7.50	13.17	15	5	
		15:55	700	420	25.00	25.00	0.30	7.50	13.17	15	7	
	F-37	16:01	900/800	620/520	25.00	25.00	0.30	7.50	13.17	15	5	
		16:02	800/720	520/440	25.00	25.00	0.30	7.50	13.17	15	7	DL Min Around Rods
	F-13	16:56	700/560	420/280	25.00	25.00	0.30	7.50	13.17	15	5	
		16:58	800/540	520/260	25.00	25.00	0.30	7.50	13.17	15	7	
					866.67	**788.33**	**10.40**	**260.00**	**456.56**	**520.00**		**Daily Totals**
4/8/2021	F-11	08:00	680	400	25.00	25.00	0.30	7.50	13.35	15	5	
		08:01	660	380	25.00	25.00	0.30	7.50	13.35	15	7	
	F-9	08:05	640	360	25.00	25.00	0.30	7.50	13.35	15	5	
		08:07	620	340	25.00	25.00	0.30	7.50	13.35	15	7	DL Maj 4' W BlkH2O
	F-7	08:48	600	320	8.33	8.33	0.10	2.50	4.45	5	5	
		08:49	480	200	25.00	25.00	0.30	7.50	13.35	15	7	
	F-5	08:55	500	220	25.00	25.00	0.30	7.50	13.35	15	5	
		08:56	460	180	25.00	25.00	0.30	7.50	13.35	15	7	
	F-3	09:21	400	120	16.67	16.67	0.20	5.00	8.90	10	5	
		09:22	700	420	25.00	25.00	0.30	7.50	13.35	15	7	
	F-1	09:27	700/600	420/320	25.00	25.00	0.30	7.50	13.35	15	5	
		09:28	800	520	25.00	25.00	0.30	8.25	13.35	15	7	DL Mod 9' SE BlkH2O
	F-25	10:10	680	400	25.00	25.00	0.30	8.25	13.35	15	5	
		10:11	700	420	25.00	25.00	0.30	8.25	13.35	15	7	
	G-2	10:46	600	320	25.00	15.00	0.30	8.25	13.35	15	4	DL Maj 20' SE BlkH2O
		10:47	560	280	25.00	15.00	0.30	8.25	13.35	15	6	SAA Mod
		10:49	700	420	25.00	15.00	0.30	8.25	13.35	15	8	SAA
		10:52	600	320	25.00	15.00	0.30	8.25	13.35	15	10	SAA Min
	G-4	10:56	680	400	12.50	7.50	0.15	4.13	6.68	7.5	4	DL Maj Around Rods
		10:58	700	420	12.50	7.50	0.15	4.13	6.68	7.5	6	SAA
		10:58	700	420	16.67	10.00	0.20	5.50	8.90	10	8	DL Mod 20' SW BlkH2O
		11:00	680	400	16.67	10.00	0.20	5.50	8.90	10	10	SAA
	G-6	11:31	700	420	16.67	10.00	0.20	5.50	8.90	10	4	DL Mod 4' W & 10' W BlkH2O
		11:33	680	400	8.33	5.00	0.10	2.75	4.45	5	6	SAA Maj (Instant)
		11:34	720	440	8.33	5.00	0.10	2.75	4.45	5	8	SAA
		11:35	740	460	8.33	5.00	0.10	2.75	4.45	5	10	SAA
	F-21	12:11	760	480	25.00	25.00	0.30	8.25	13.35	15	5	
		12:12	900/700	620/420	25.00	25.00	0.30	8.25	13.35	15	7	
	F-23	12:17	600	320	12.50	12.50	0.15	4.13	6.68	7.5	5	DL Mod 8' NW BlkH2O
		12:18	800/680	520/400	25.00	25.00	0.30	8.25	13.35	15	7	
	F-19	13:45	600	320	25.00	25.00	0.30	8.25	13.35	15	5	Overflow RW-12
		13:46	700	420	25.00	25.00	0.30	8.25	13.35	15	7	DL Mod 6' NW & 8' N BlkH2O
	F-17	13:55	660	380	25.00	25.00	0.30	8.25	13.35	15	5	
		13:57	600	320	25.00	25.00	0.30	8.25	13.35	15	7	
	F-15	14:50	600	320	25.00	25.00	0.30	8.25	13.35	15	5	DL Min 3' NW BlkH2O
		14:51	620	340	25.00	25.00	0.30	8.25	13.35	15	7	SAA Mod
					762.50	**682.50**	**9.15**	**244.13**	**407.18**	**457.50**		**Daily Totals**
					32450	**32550**	**495**	**9750**	**17100**	**19470**		**BOS 200+ TOTALS**

1: Two Pressure values indicates break pressure/propogation pressure (higher/lower).
2: Total system pressure loss varies depending on flow rate and tooling used.

Table 2 - Well Gauging Log

Well ID	Date	Depth To NAPL	Depth To Water	NAPL Thickness
RW-1	3/16/2021	2.98	3.25	0.27
	3/17/2021	2.85	3.09	0.24
	3/18/2021	2.98	3.25	0.27
	3/19/2021	3.06	3.16	0.1
	3/22/2021	3.31	3.43	0.12
	3/27/2021		3.4	0
	4/6/2021	4	4.09	0.09
	4/7/2021	4.05	4.13	0.08
	4/8/2021	4.09	4.18	0.09
RW-2	3/16/2021	2.5	2.54	0.04
	3/17/2021	2.5	2.52	0.02
	3/18/2021	2.45	2.47	0.02
	3/19/2021	2.67	2.68	0.01
	3/22/2021	2.82	2.84	0.02
	3/26/2021		3.85	0
	3/27/2021	2.95	3	0.05
	4/6/2021	3.49	3.53	0.04
	4/7/2021	4.54	4.58	0.04
	4/8/2021	3.55	3.6	0.05
RW-3	3/16/2021	3.05	3.37	0.32
	3/17/2021	3.15	3.31	0.16
	3/18/2021	3.11	3.27	0.16
	3/19/2021	2.25	2.3	0.05
	3/22/2021	4.4	4.8	0.4
	3/26/2021		3.5	0
	3/27/2021	3.55	3.63	0.08
	4/6/2021	4.01	4.07	0.06
	4/7/2021	4.05	4.1	0.05
	4/8/2021	4.08	4.12	0.04
RW-5	3/26/2021	1.2	3.2	2
	3/27/2021	1.25	2.95	1.7
	3/30/2021	1.54	2.43	0.89
	3/31/2021	1.67	3.27	1.6
	4/6/2021	2.05	3.6	1.55
	4/7/2021	2.07	3.6	1.53
	4/8/2021	2.4	2.94	0.54
RW-7	3/16/2021	3.22	3.27	0.05
	3/17/2021	3.2	3.25	0.05
	3/18/2021	3.23	3.3	0.07
	3/19/2021	3.38	3.41	0.03
	3/22/2021	3.52	3.62	0.1
	3/26/2021	3.3	3.65	0.35
	3/27/2021		3.62	0
	4/6/2021	4.2	4.33	0.13
	4/7/2021	4.23	4.38	0.15
	4/8/2021	4.27	4.42	0.15

No entry indicates no NAPL detected

Table 2 - Well Gauging Log

RW-9	3/26/2021	1.8	2.05	0.25
	3/27/2021	1.82	2.08	0.26
	3/30/2021	2.56	2.65	0.09
	3/31/2021	2.66	2.8	0.14
	4/6/2021	2.76	2.87	0.11
	4/7/2021	2.75	2.88	0.13
	4/8/2021	3.05	3.08	0.03
MW-1	3/16/2021		3.19	0
	3/17/2021		3.02	0
	3/18/2021		3.14	0
	3/19/2021		3.23	0
	3/22/2021		3.6	0
	3/26/2021		3.55	0
	3/27/2021		3.61	0
	4/6/2021		4.15	0
	4/7/2021		4.17	0
MW-2	3/16/2021		2.88	0
	3/17/2021		2.94	0
	3/18/2021	2.905	2.91	0.005
	3/19/2021		2.98	0
	3/22/2021	3.1	3.13	0.03
	3/26/2021		3.3	0
	3/27/2021		3.44	0
	4/6/2021		3.81	0
MW-6	3/26/2021	1.75	2.35	0.6
	3/27/2021	1.85	2.46	0.61
	3/30/2021	2.15	2.4	0.25
	3/31/2021	2.1	2.35	0.25
	4/6/2021	2.5	2.8	0.3
	4/7/2021	2.46	2.76	0.3
	4/8/2021	2.55	2.64	0.09
MW-7	3/27/2021		1.25	0
	3/30/2021		2.75	0
	4/6/2021		2.85	0
	4/7/2021		2.88	0
MW-33	3/16/2021		3.26	0
	3/17/2021		3.35	0
	3/18/2021		3.22	0
	3/19/2021		3.4	0
	3/22/2021		3.51	0
	3/26/2021		3.7	0
	3/27/2021		3.15	0
	4/6/2021		4.22	0

No entry indicates no NAPL detected

Circle K #2720886

Sample ID. No.		MW-01	MW-01	MW-01	MW-02	MW-02	MW-02	MW-02
Date Sampled		2/23/2021	3/10/2021	3/31/2021	10/21/2020	2/23/2021	3/1/2021	3/10/2021
		Pre Injeciton		Post Injection	RDC	Pre Injection		
	Units							
Dimethyl Sulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
MTBE	ug/L	1280	612	1230	453	114	248	210
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	18830	10200	8710	9430	3100	5590	5240
Toluene	ug/L	43700	22300	18600	19200	4930	11500	10400
Ethylbenzene	ug/L	2320	1080	1060	1410	428	626	620
m/p-Xylene	ug/L	6710	3030	3390	4030	1200	1740	1770
o-Xylene	ug/L	3490	1460	1600	2130	683	962	976
1,2,4-Trimethylbenzene	ug/L	933	475	682	602	223	212	280
Naphthalene	ug/L	107	ND	102	134	24.4	ND	ND
TVPH	mg/L	111	78.4	140	119	17.4	37.7	41.0
Lactate	mg/L	ND	ND	ND	ND	ND	ND	ND
Acetate	mg/L	252	146	590	3.48	1.27	ND	6.76
Propionate	mg/L	ND	ND	ND	ND	ND	ND	ND
Formate/Isobutyrate	mg/L	7.02	4.74	48.1	ND	ND	ND	ND
Butyrate	mg/L	86.0	28.7	ND	ND	ND	ND	ND
Pyruvate	mg/L	0.82	ND	2.35	ND	ND	ND	ND
Chloride	mg/L	28.8	50.1	30.7	23.8	14.5	39.6	38.3
Nitrite	mg/L	0.48	5.66	1.18	ND	ND	ND	1.32
Succinate	mg/L	ND	ND	ND	ND	ND	ND	ND
Nitrate	mg/L	1.09	35.1	4.59	ND	ND	58.3	36.7
Sulfate	mg/L	ND	7160	2190	1.49	6.52	4020	2020
Phosphate	mg/L	ND	NA	NA	ND	ND	ND	NA
Sulfide	mg/L	ND	ND	ND	0.41	0.33	ND	ND
Methane	ug/L	5880	1680		756	276	439	445
Carbon Dioxide	mg/L	221	227		152	120	158	203

Circle K #2720886

Sample ID. No.		MW-02	MW-06	MW-06	MW-06	MW-07	MW-07	MW-07
Date Sampled		3/30/2021	10/22/2020	3/23/2021	4/7/2021	10/23/2020	3/25/2021	4/6/2021
		Post Injection	RDC	Pre Injection	Post Injection	RDC	Pre Injection	Post Injection
	Units							
Dimethyl Sulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
MTBE	ug/L	346	2210	1890	2070	ND	ND	ND
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	7770	17100	14100	20100	7430	2570	3090
Toluene	ug/L	16400	25800	20400	45700	30600	10200	15100
Ethylbenzene	ug/L	1170	2170	1840	3110	2470	869	1220
m/p-Xylene	ug/L	3660	5580	4780	10600	8230	2730	3950
o-Xylene	ug/L	1930	3100	2580	5260	4000	1320	1800
1,2,4-Trimethylbenzene	ug/L	732	1210	1080	2090	1260	545	633
Naphthalene	ug/L	102	247	197	539	250	143	180
TVPH	mg/L	88.4	181	131	108	65.1	67.0	ND
Lactate	mg/L	6.90	ND	ND	ND	ND	0.37	ND
Acetate	mg/L	ND	4.16	6.59	19.3	ND	0.24	ND
Propionate	mg/L	ND	ND	ND	ND	ND	ND	ND
Formate/Isobutyrate	mg/L	ND	ND	ND	ND	ND	ND	ND
Butyrate	mg/L	ND	ND	ND	ND	ND	ND	ND
Pyruvate	mg/L	ND	ND	ND	0.34	ND	ND	ND
Chloride	mg/L	35.4	29.6	29.2	33.9	28.6	11.1	34.2
Nitrite	mg/L	0.36	ND	ND	ND	ND	ND	1.26
Succinate	mg/L	ND	ND	ND	ND	ND	ND	ND
Nitrate	mg/L	9.67	ND	ND	5.73	ND	ND	54.1
Sulfate	mg/L	754	1.87	7.43	304	13.8	13.1	2050
Phosphate	mg/L	NA	ND	NA	NA	ND	NA	NA
Sulfide	mg/L	ND	0.29	ND	ND	ND	ND	ND
Methane	ug/L		1480			201		
Carbon Dioxide	mg/L		348			268		

Circle K #2720886

Sample ID. No.		MW-33	MW-33	MW-33	MW-33	RW-01	RW-01	RW-01
Date Sampled		10/20/2020	2/23/2021	3/10/2021	3/30/2021	10/21/2020	2/23/2021	3/10/2021
		RDC	Pre Injection		Post Injection	RDC	Pre Injection	
	Units							
Dimethyl Sulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
MTBE	ug/L	278	27.4	103	104	1320	1440	1220
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	8660	2350	3390	3380	17600	16600	9720
Toluene	ug/L	19600	4030	8970	7000	42400	38300	15600
Ethylbenzene	ug/L	1660	547	761	780	2150	1980	630
m/p-Xylene	ug/L	3990	1230	2510	2380	6620	6770	1630
o-Xylene	ug/L	2700	860	1460	1350	3360	3410	738
1,2,4-Trimethylbenzene	ug/L	915	323	504	737	988	1270	129
Naphthalene	ug/L	192	43.8	44.0	106	188	140	ND
TVPH	mg/L	94.7	18.0	38.9	40.4	216	113	84.3
Lactate	mg/L	ND	ND	ND	ND	ND	ND	ND
Acetate	mg/L	0.84	ND	1.57	ND	252	191	303
Propionate	mg/L	ND	ND	ND	ND	3.51	1.26	ND
Formate/Isobutyrate	mg/L	ND	ND	ND	ND	10.6	6.86	ND
Butyrate	mg/L	ND	ND	ND	ND	197	50.2	44.0
Pyruvate	mg/L	ND	ND	ND	ND	ND	1.25	ND
Chloride	mg/L	73.2	29.7	50.9	48.1	17.1	26.2	69.3
Nitrite	mg/L	ND	ND	7.44	ND	0.52	0.25	0.35
Succinate	mg/L	ND	ND	ND	1.06	ND	ND	ND
Nitrate	mg/L	ND	ND	41.4	22.2	ND	ND	100
Sulfate	mg/L	14.8	38.6	3680	1550	ND	0.38	4940
Phosphate	mg/L	ND	ND	NA	NA	ND	ND	NA
Sulfide	mg/L	0.62	1.27	ND	ND	ND	0.22	ND
Methane	ug/L	508	221	374		11000	5800	4510
Carbon Dioxide	mg/L	225	190	187		169	211	188

Circle K #2720886

Sample ID. No.		RW-01	RW-02	RW-02	RW-02	RW-02	RW-03	RW-03
Date Sampled		3/30/2021	10/21/2020	2/23/2021	3/10/2021	3/23/2021	10/20/2020	2/23/2021
		Post Injection	RDC	Pre Injection		Post Injection	RDC	Pre Injection
	Units							
Dimethyl Sulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
MTBE	ug/L	914	1880	2420	2490	1900	206	182
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	9010	23900	21500	19800	16800	13600	11300
Toluene	ug/L	21500	68000	62400	61000	48500	39800	31900
Ethylbenzene	ug/L	1720	5420	5390	5020	3890	2840	2570
m/p-Xylene	ug/L	5500	19200	19800	17100	12600	10100	9800
o-Xylene	ug/L	2420	9200	9550	7760	5860	4830	4560
1,2,4-Trimethylbenzene	ug/L	993	3720	4650	3450	3310	1690	4390
Naphthalene	ug/L	219	709	675	349	661	391	551
TVPH	mg/L	135	934	421	605	495	150	164
Lactate	mg/L	13.4	ND	ND	ND	ND	ND	6.23
Acetate	mg/L	268	960	1130	832	941	5.66	ND
Propionate	mg/L	3.05	ND	8.04	ND	ND	ND	ND
Formate/Isobutyrate	mg/L	19.5	30.7	68.3	105	82.8	ND	ND
Butyrate	mg/L	48.0	262	522	884	484	0.20	ND
Pyruvate	mg/L	ND	ND	ND	ND	ND	ND	ND
Chloride	mg/L	58.9	111	83.5	50.7	72.9	73.1	79.6
Nitrite	mg/L	ND	8.18	9.51	13.0	8.77	0.25	ND
Succinate	mg/L	10.6	ND	ND	ND	1.96	ND	2.05
Nitrate	mg/L	7.99	ND	ND	3.77	26.8	ND	1.28
Sulfate	mg/L	3640	1.56	1.67	124	966	9.24	11.2
Phosphate	mg/L	NA	ND	ND	NA	NA	ND	ND
Sulfide	mg/L	ND	ND	ND	ND	ND	ND	ND
Methane	ug/L		17500	17200	17300		1490	1240
Carbon Dioxide	mg/L		ND	53.6	46.4		251	231

Circle K #2720886

Sample ID. No.		RW-03	RW-05	RW-05	RW-05	RW-07	RW-07	RW-07
Date Sampled		3/30/2021	10/22/2020	3/23/2021	4/7/2021	10/20/2020	2/23/2021	3/10/2021
		Post Injection	RDC	Pre Injection	Post Injection	RDC	Pre Injection	
	Units							
Dimethyl Sulfide	ug/L	ND	ND	ND	ND	ND	ND	ND
MTBE	ug/L	126	1960	1720	1850	429	1030	263
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	6790	18100	17800	19700	18700	14700	8350
Toluene	ug/L	17900	29100	29200	33900	44200	35000	20100
Ethylbenzene	ug/L	1510	2310	2230	1890	2640	2940	1480
m/p-Xylene	ug/L	4940	6500	6950	5610	10900	15200	6940
o-Xylene	ug/L	2310	3530	3610	2770	5160	6860	3010
1,2,4-Trimethylbenzene	ug/L	847	1180	1420	705	1740	3290	1150
Naphthalene	ug/L	111	250	273	96.3	404	505	ND
TVPH	mg/L	93.7	179	145	50.5	179	158	194
Lactate	mg/L	ND	ND	ND	ND	ND	ND	ND
Acetate	mg/L	ND	ND	8.76	ND	2.01	1.76	4.25
Propionate	mg/L	ND	ND	ND	ND	0.21	ND	ND
Formate/Isobutyrate	mg/L	ND	ND	ND	ND	ND	ND	ND
Butyrate	mg/L	ND	ND	ND	ND	ND	ND	ND
Pyruvate	mg/L	ND	ND	ND	ND	ND	ND	ND
Chloride	mg/L	81.7	46.2	58.8	54.0	23.3	33.5	34.9
Nitrite	mg/L	0.77	ND	ND	2.22	ND	ND	12.0
Succinate	mg/L	1.70	ND	ND	ND	ND	ND	ND
Nitrate	mg/L	25.2	1.84	ND	5.67	ND	ND	42.5
Sulfate	mg/L	1820	4.42	11.3	824	8.04	2.89	2540
Phosphate	mg/L	NA	ND	NA	NA	ND	ND	NA
Sulfide	mg/L	ND	ND	ND	ND	ND	ND	ND
Methane	ug/L		2900			3210	6000	2350
Carbon Dioxide	mg/L		411			247	228	243

Circle K #2720886

Sample ID. No.		RW-07	RW-09	RW-09	RW-09	RW-11	RW-11	RW-12
Date Sampled		3/31/2021	10/22/2020	3/24/2021	4/7/2021	10/23/2020	4/8/2021	10/23/2020
		Post Injection	RDC	Pre Injection	Post Injection	RDC	Post Injection	RDC
	Units							
Dimethyl Sulfide	ug/L	ND	12.8	ND	ND	ND	ND	ND
MTBE	ug/L	336	2440	2220	2090	ND	397	152
1,2-Dichloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	8300	14500	15500	11100	23500	759	5100
Toluene	ug/L	19700	36300	31800	33400	204000	331	7820
Ethylbenzene	ug/L	1500	2480	2290	2290	33600	13.8	918
m/p-Xylene	ug/L	6100	8320	7490	7530	119000	24.9	4010
o-Xylene	ug/L	2840	4160	3740	3580	50600	7.11	2690
1,2,4-Trimethylbenzene	ug/L	1630	1710	1650	1180	55600	5.96	565
Naphthalene	ug/L	320	400	326	137	6710	ND	57.7
TVPH	mg/L	112	157	150	50.7	1470	ND	38.5
Lactate	mg/L	ND	ND	ND	ND	NA	ND	ND
Acetate	mg/L	ND	1730	2000	1590	NA	ND	ND
Propionate	mg/L	ND	ND	ND	ND	NA	ND	ND
Formate/Isobutyrate	mg/L	ND	106	79.8	71.1	NA	ND	ND
Butyrate	mg/L	ND	162	114	121	NA	ND	ND
Pyruvate	mg/L	ND	ND	ND	ND	NA	ND	ND
Chloride	mg/L	37.4	24.5	23.1	29.4	NA	329	15.5
Nitrite	mg/L	24.3	10.3	ND	4.80	NA	ND	ND
Succinate	mg/L	ND	ND	ND	1.38	NA	ND	ND
Nitrate	mg/L	2.06	ND	ND	9.80	NA	38.7	ND
Sulfate	mg/L	2680	1.71	4.64	848	NA	1260	111
Phosphate	mg/L	NA	ND	NA	NA	NA	NA	ND
Sulfide	mg/L	ND	ND	ND	ND	NA	ND	0.44
Methane	ug/L		34600			NA		48.9
Carbon Dioxide	mg/L		74.8			NA		95.6

Circle K #2720886

Sample ID. No.		RW-12	RW-12
Date Sampled		4/6/2021	4/8/2021
		Pre Injection	Post Injection
	Units		
Dimethyl Sulfide	ug/L	ND	ND
MTBE	ug/L	246	128
1,2-Dichloroethane	ug/L	ND	ND
Benzene	ug/L	8750	2380
Toluene	ug/L	586	101
Ethylbenzene	ug/L	915	107
m/p-Xylene	ug/L	998	106
o-Xylene	ug/L	806	105
1,2,4-Trimethylbenzene	ug/L	446	42.3
Naphthalene	ug/L	146	21.8
TVPH	mg/L	ND	ND
Lactate	mg/L	ND	ND
Acetate	mg/L	ND	ND
Propionate	mg/L	ND	ND
Formate/Isobutyrate	mg/L	ND	ND
Butyrate	mg/L	ND	ND
Pyruvate	mg/L	ND	ND
Chloride	mg/L	13.4	28.8
Nitrite	mg/L	ND	ND
Succinate	mg/L	ND	5.11
Nitrate	mg/L	ND	51.4
Sulfate	mg/L	131	2690
Phosphate	mg/L	NA	NA
Sulfide	mg/L	ND	ND
Methane	ug/L		
Carbon Dioxide	mg/L		

ATTACHMENT A

Attachment A – Photographic Documentation
Circle K # 2720886 Ravenel, South Carolina

Photo 1: Taking delivery of supplemental gypsum 2/22/21

Photo 2: Pre-injection utility clearance 2/23/21

Photo 3: Pre-injection groundwater sampling 2/23/21

Photo 4: Injection system and equipment staging 2/24/21

Photo 5: Starch, Yeast and Gypsum staged for mixing 2/24/21

Photo 6: Magnesium sulfate and magnesium sulfate solution tank, fresh water tank and mixing/injection system 2/24/21

Photo 7: Transferring water from water truck to mixing system 2/24/21

Photo 8: Injecting in Area D while utility clearance continues near MW-15 2/25/21

Photo 9: Monitoring MW-2 water level immediately following injections nearby 2/25/21

Photo 10: Preparing to pull second tooling string, note plug packer in MW-2 3/1/21

Photo 11: Injecting in area A 3/1/21

Photo 12: Abandoning injection point with bentonite chips 3/6/21

Photo 13: Injection equipment and materials set up for injections in median 3/23/21

Photo 14: Developing and sampling RW-5 and MW-6 3/23/21

Photo 15: Performing injections in area C 3/23/21

Photo 16: Injection equipment and materials set up for injection on southbound shoulder of US-17 4/7/21

Photo 17: LNAPL/road subbase present in daylighted slurry near RW-11 4/6/21

Photo 18: Redeveloping and sampling MW-7 4/7/21

Photo 19: Performing injections in area F 4/7/21

Photo 20: Advancing second tool string in area F 4/8/21

Photo 21: Site restoration 4/8/21

Well Record Forms Phase I Injections

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area A Even points (2-76)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/1/2021
12 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser CERT. NO.: 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 11 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area A Odd points (1-75)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/1/2021
11 ft. Date Completed: 3/20/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 8 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area B Even points (2-170)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/4/2021
8 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-22-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 7 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area B Odd points (1-169)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 2/25/2021
7 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area C Even points (2-128)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/1/2021
6 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 5 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area C Odd points (1-127)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/1/2021
5 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 8 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area D Even points (2-126)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 2/24/2021
8 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 7 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area D Odd points (1-125)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 2/24/2021
7 ft. Date Completed: 3/22/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area E Even points (2-16)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/26/2021
12 ft. Date Completed: 3/30/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser CERT. NO.: 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 11 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area E Odd points (1-15)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 3/26/2021
11 ft. Date Completed: 3/30/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:** Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

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

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area F Even points (2-38)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injection

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 4/6/2021
6 ft. Date Completed: 4/7/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganer **CERT. NO.:** 2343
Address: (Print) Level: A B C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 5 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area F Odd points (1-37)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 4/7/2021
5 ft. Date Completed: 4/8/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 10 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area G Even points (2-6)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 4/8/2021
10 ft. Date Completed: 4/8/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A (B) C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

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

Signed: _____ Date: 4-28-21
Well Driller

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

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

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

1. WELL OWNER INFORMATION:
Name: Circle K Stores Inc. (last) (first)
Address: 1100 Situs Court
City: Raleigh State: N.C. Zip: 27606
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY: Charleston
Name: Circle K #2720886
Street Address: 4315 Savannah Highway
City: Ravenel Zip: 29470
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Give Details Below
Grouted Depth: from 9 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
Area G Odd points (1-5)		
See Attached Map		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
BOS 200 Injections

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

7. PERMIT NUMBER: UST #01589 UIC #SCHE03020591

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

9. WELL DEPTH (completed) Date Started: 4/7/2021
9 ft. Date Completed: 4/7/2021

10. CASING: ☐ Threaded ☐ Welded
Diam.: 2.25"
Type: ☐ PVC ☐ Galvanized ☐ Steel ☐ Other
_____ in. to _____ ft. depth
_____ in. to _____ ft. depth
Height: Above/Below Surface
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☐ Yes ☐ No
Installed from _____ ft. to _____ ft.
Effective size _____ Uniformity Coefficient _____

16. WELL GROUTED? ☐ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From _____ ft. to _____ ft.

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

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

19. WELL DRILLER: Brandon Scott Ganser **CERT. NO.:** 2343
Address: (Print) Level: A B C D (circle one)
717 Brande Drive
Eaton Ohio 45320
Telephone No.: 419-516-2980 Fax No.: 937-743-0121

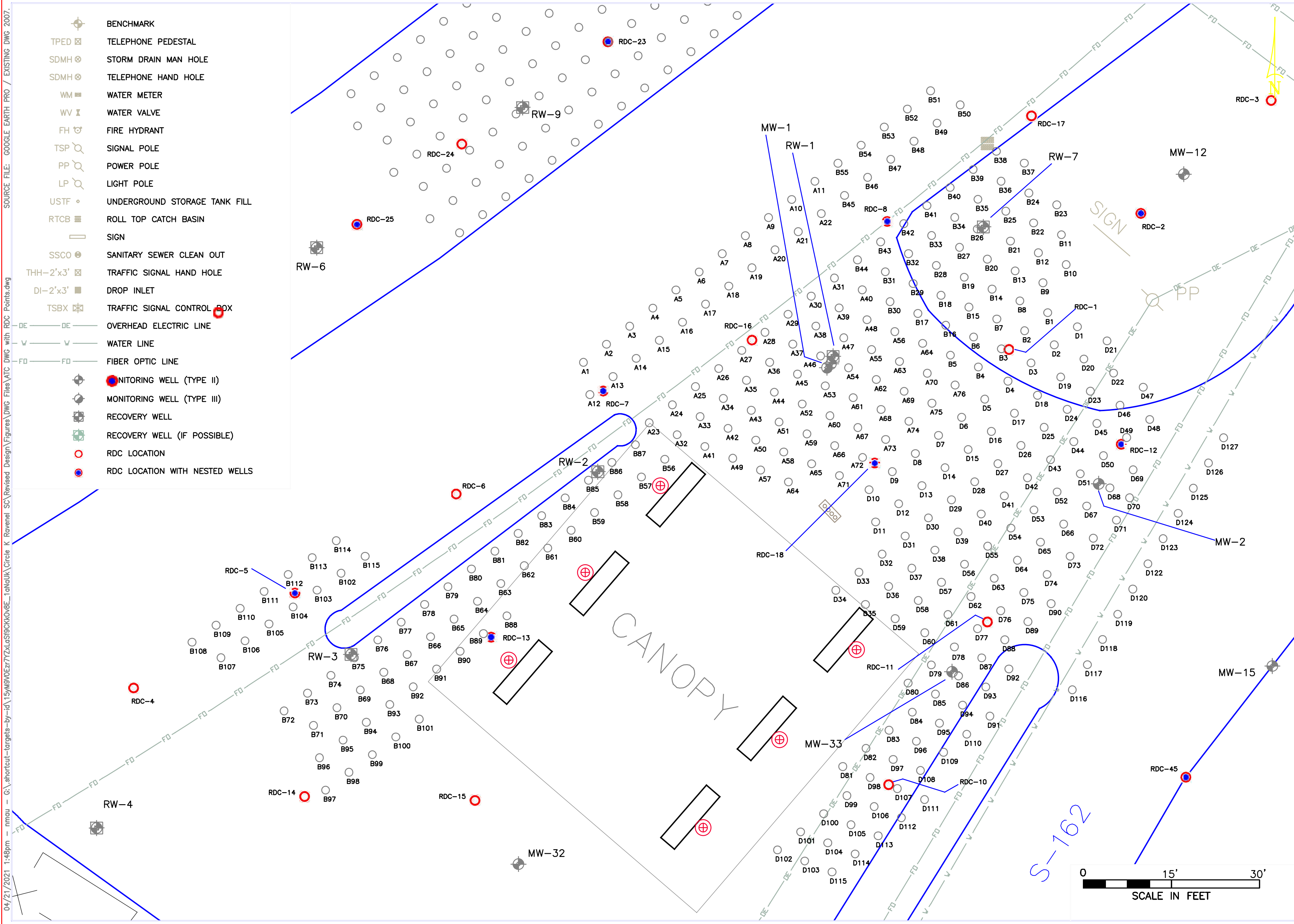
20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: _____ Date: 4-28-21
Well Driller

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

DHEC 1903 (08/2017)

COPY 1 MAIL TO SCDHEC, COPY 2 TO WELL OWNER, COPY 3 TO WELL DRILLER



NOTES:

TITLE **FIGURE 2**

PHASE 1 INJECTION AREAS A, B, D DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

UST PERMIT #01589

ATC
ENVIRONMENTAL GEOTECHNICAL
BUILDING SCIENCES MATERIALS TESTING

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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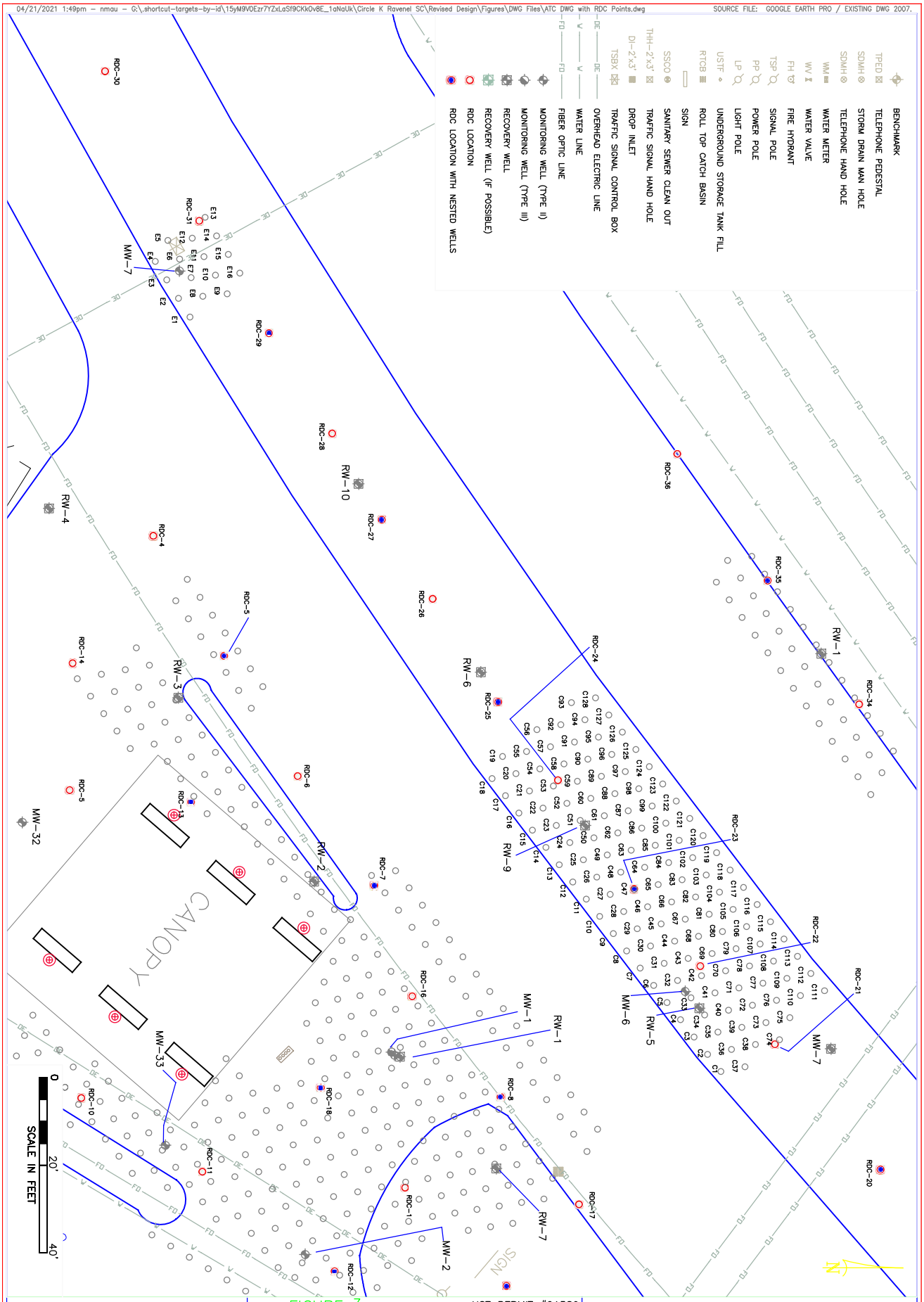
SOURCE FILE: GOOGLE EARTH PRO / EXISTING DWG 2007.



NOTES:

TITLE FIGURE 3

UST PERMIT #01589

PHASE 1 INJECTION AREAS C, E DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

ENVIRONMENTAL GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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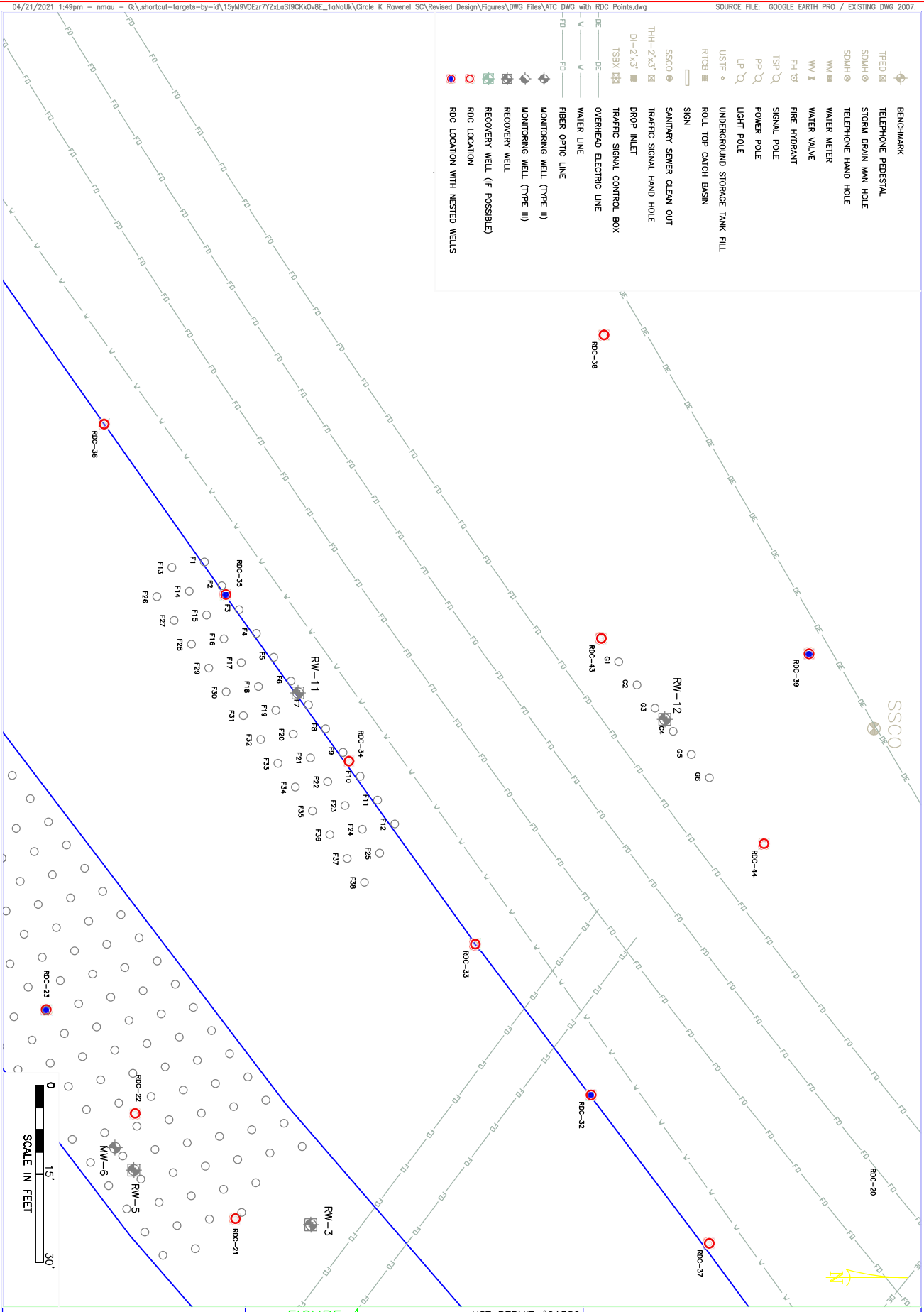
SOURCE FILE: GOOGLE EARTH PRO / EXISTING DWG 2007.



NOTES:

TITLE FIGURE 4

UST PERMIT #01589

PHASE 1 INJECTION AREAS F, G DETAIL
CIRCLE K #2720886
4315 SAVANNAH HIGHWAY
RAVENEL, SOUTH CAROLINA

7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 741-2444

ATC
ENVIRONMENTAL GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1252215.dwg		BH		1"=15'	04/12/2021	CIRK088610