February 18, 2022



Mr. Gordon Box, PG Geotechnical Engineering Unit North Carolina Department of Transportation 1020 Birch Ridge Drive Raleigh, NC 27610

#### RE: PHASE II INVESTIGATION OF PARCEL 176 Circle K Store 1526, Circle K Stores, Inc. 8400 Norcross Road, Colfax, NC 27235 ESP Project No. IS14.314

| TIP Number:  | U-4758   |
|--------------|--|
| WBS Number:  | 40251.1.1  |
| County:      | GUILFORD   |
| Description: | Johnson St – Sandy Ridge Road from Skeet Club Road to I-40 |

Dear Mr. Box:

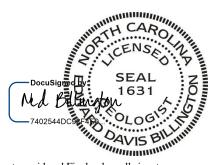
ESP Associates, Inc. (ESP) is pleased to submit this report on our GeoEnvironmental Phase II Investigation of the subject parcel. This work was performed in accordance with your Request for Proposal dated December 7, 2021 and our Cost Proposal dated December 13, 2021.

We appreciate the opportunity to assist you during this phase of the project. If you should have any questions concerning this report, or if we may be of further assistance, please contact us.

Sincerely,

ESP Associates, Inc.

Edward D. Billington, PG Senior Geologist/Geophysicist EDB/CRP/???



not considered Final unless all signatures are completed

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#### **1.0 INTRODUCTION**

The North Carolina Department of Transportation (NCDOT) is planning to improve Johnson Street – Sandy Ridge Road from Skeet Club Road to I-40 in High Point. The NCDOT requested that ESP Associates, Inc. (ESP) perform a Phase II geoenvironmental investigation of Parcel 176 to locate underground storage tanks (USTs), sample soil, and delineate potential contaminated soil. Parcel 176 is located at 8400 Norcross Road in Colfax on the west side of the intersection with Sandy Ridge Road (Figure 1).

#### 2.0 HISTORY

#### 2.1 Phase I Report

According to the 2015 Johnson Street – Sandy Ridge Road Environmental Report for Planning (Phase I Report) for U-4758, Parcel 176 is an active gasoline service station with 7 USTs on site. Petroleum releases were recorded in 1986 (closed in 1987) and in 2014. This site was anticipated to present low geoenvironmental impacts to the project.

#### 2.2 Background Research

We checked the following NCDEQ online sources: Division of Waste Management Site Locator Tool and linked files, the UST Incident Management Database, and the Registered Tanks Database.

| Tank ID | Туре     | Volume, gallons | Tank Basin |
|---------|----------|-----------------|------------|
| 1       | Gasoline | 10,000          | Automobile |
| 2       | Gasoline | 10,000          | Automobile |
| 3       | Gasoline | 8,000           | Automobile |
| 4       | Kerosene | 8,000           | Other      |
| 5       | Diesel   | 20,000          | Truck      |
| 6       | Diesel   | 20,000          | Truck      |
| 7       | Diesel   | 8,000           | Automobile |

The Registered Tanks Database indicated 7 USTs were installed on September 30, 1984:

The Site Locator Tool shows above-ground storage tank (AST) Incident No. 3216 and UST Incident Nos. 44346, 44550, 47300, and 47682 with linked online files for each. There are comments for each of these incidents in the UST Incident Management Database. ESP observed overlap between the referenced incidents in the online files and database comments.

Significant information from the incidents is provided below:

• AST Incident No. 3216 with Notice of Violation dated April 28, 1986. This report indicated that eight petroleum spills occurred from January 1, 1985 to

February 12, 1986 with volumes ranging from 5 to 50 gallons. Investigations were associated with the sump pit to the west (Figure D-1). The incident was closed out on October 13, 1987.

- UST Incident No. 44346 dated June 20, 2014. The online files for this incident were limited to two cost reimbursement memos.
  - The UST Incident Management Database included comments that indicated the following:
    - 4,000-gallons of diesel were released from the diesel UST (UST No. 7, automobile tank basin) via the flex connector in the sump on June 20, 2014 (Figure D-2). The diesel sump assessment report indicated total petroleum hydrocarbons (TPH) of 1,900 milligrams per kilogram (mg/kg) detected via soft dig sampling near the sump and the diesel UST No. 7. Free product (FP) was detected in monitoring wells MW-2 and MW-3 with thicknesses of 2.72 and 5.54 feet, respectively. The NCDEQ indicated that a Comprehensive Site Assessment (CSA) and FP recovery were required. Benzene, toluene, ethylbenzene, and xylene (BTEX) were detected in soil and groundwater (GW) samples collected during the CSA investigation, indicating a release from the gasoline tanks. A letter was sent by NCDEQ requesting additional information to complete the CSA.
    - Note dated 11/12/2019. Additional GW and FP assessment indicated no GW contamination had migrated off of the site. FP was detected in three monitoring wells within the automobile tank basin at thicknesses greater than 2 feet. The NCDEQ indicated that FP needs to be addressed and the CSA needs to be completed by January 20, 2019.
  - The 2015 report discussed below referenced an Initial Abatement Action (IAA) completed on September 2, 2014 and a Phase II Limited Site Assessment (LSA) completed on November 21, 2014. The LSA reported no contaminants above the Ground Water Quality Standards; however, the site was classified as a high risk due to nearby potable water wells. Additional GW monitoring was performed in April and July of 2015, when low levels of MTBE and benzene were detected above the North Carolina Code 2L Drinking Water Standards (NCAC 2L) Standards.
- UST Incident No. 44550 dated July 30, 2015. The following reports were included in the linked files:
  - Initial Abatement Action (IAA) and Limited Site Assessment (LSA) dated December 7, 2015. Soil samples tested from the base of the excavation for a new product line from the 20,000-gallon truck diesel USTs indicated petroleum contamination (Figure D-3). Approximately 63 tons of contaminated soil were removed but no over-excavation could be performed due to various obstacles. The LSA included installation of two

monitoring wells (MW-5 and MW-6) and six soil borings around the two 20,000-gallon USTs. Groundwater was encountered approximately 42 feet below ground surface (bgs). There was no contamination in the soil or groundwater identified above regulatory limits.

- GW Monitoring Report dated November 11, 2019. This is the most recent GW report received by the NCDEQ and addresses GW contamination in the vicinity of the automobile tank pit in the southeastern corner of the parcel. The GW report concluded that dissolved groundwater concentrations exceed 2L Standards in monitoring wells MW-1 and MW-14 (Figure D-4). Light Non-Aqueous Phase Liquid (LNAPL) was observed in MW-2, MW-3, and MW-11. Groundwater flow in the area is generally towards the eastsoutheast (Figure D-5). The GW sample results are provided in Figure D-6 and summarized in Table 3. The closest water-supply wells are located approximately 550 feet downgradient and are used for potable supply.
- UST Incident No. 47300 dated October 7, 2020. A UST-61 form was submitted for a release discovered on October 7, 2020. During diesel fuel delivery, approximately 40 to 50 gallons of diesel fuel were released around the fill ports for UST Nos. 5 and 6. The released fuel flowed into a stormwater inlet and the soils were impacted. After the remediation of the area, soil samples indicated that the contamination did not exceed the soil to groundwater maximum soil contaminant concentrations (MSCCs). A NCDEQ Letter of No Further Action was issued on December 16, 2020.
- UST Incident No. 47682 dated March 29, 2021. Approximately 60 to 80 gallons of gasoline were released from the fill port on UST No. 7. A vacuum truck was utilized to remove the contaminated water from the stormwater inlet. No documents are linked to this Incident.

#### 2.3 Other Information

ESP's recent email correspondence with Carin Kromm, L.G., NCDEQ Winston-Salem Regional Office, indicated that the 2019 GW monitoring report was the latest report received. The site incident manager, Gene Mao, Guilford County, also indicated no further GW reports have been received. However, Mr. Mao did provide a copy of a 20-Day report regarding the October 7, 2020 diesel spill referenced above (Incident No. 47300).

The Guilford County GIS indicates that the property owner is listed as Circle K Stores, Inc.

#### 3.0 SITE OBSERVATIONS

During our December 2021 and January 2022 field work, the site was occupied by an active Circle K gas station (Figure 2 and 3). The ground surface in the study area was covered by grass and concrete pavement. There are three tank beds located within the study area. The automobile fuel

tank bed is located on the southeastern corner, the truck diesel tank bed is located on the north side of the diesel canopy, and the kerosene tank bed is located north of the building. The automobile tank bed is partially within the proposed temporary construction easement for NCDOT Project U-5748. In addition, the kerosene tank bed and part of the truck diesel tank bed are located with the proposed temporary construction easement for NCDOT Project I-5712.

The inventory report provided by Circle K lists three 8,000-gallon tanks (one regular gasoline, one diesel, and one kerosene), two 10,000-gallon tanks (one regular gasoline and one supreme gasoline), and two 20,000-gallon diesel tanks. One AST is located at the northwest end of the diesel canopy and is listed as a 6,000-gallon Diesel Exhaust Fluid (DEF) tank. A total of 15 monitoring wells should be present on the parcel, including 3 not numbered and one not found (MW-10) (Figure 4). Note that Figure 4 also shows the 2 offsite monitoring wells, MW-13 and MW-14. The coordinates for the identified monitoring wells are provided in Table 3.

#### 4.0 METHODS

ESP performed a geophysical study of the area designated by the NCDOT on December 28 and 29, 2021 and January 24 and 25, 2022. The geophysical investigation area was approximately 3.1 acres and encompassed the accessible areas of the parcel. We performed direct-push drilling and sampling of subsurface soils to depths of 10 feet on January 24 and 25, 2022. A photoionization detector (PID) was used to screen subsurface soils in the field and select soil samples to send for laboratory analysis. Groundwater was not encountered during the drilling investigation.

#### 4.1 Geophysics

ESP performed a metal detector study over the accessible areas of the site using a Geonics EM61 MK2 with a line spacing of approximately three feet followed by ground-penetrating radar (GPR) data collected over selected EM61 anomalies (Figures 5, 6, and 7). Location control was provided in real-time using a differential global positioning system (DGPS).

#### 4.2 Borings

ESP performed direct-push drilling on Parcel 176 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Twenty borings were drilled, designated B176-1 through B176-20 (Figure 13). The soil borings were advanced using a hand auger and a GeoProbe 54DT drill rig. Soil samples were obtained to a depth of approximately 10 feet using hand auger cuttings and 4-foot long Macro-Core® tubes. Soil cores varied in recovery from 80 to 100 percent. The sampling equipment was decontaminated prior to drilling and between borings by the driller using a pressure washer with Liquinox® detergent solution.

#### 4.3 Soil Sample Protocol

Representative soil samples were taken from hand auger cuttings and the Macro-Core (core) tubes at approximate one-foot intervals by the ESP field geologist while wearing nitrile disposable gloves. Each sample was placed in a sealed plastic bag and then kept in a warm area for approximately 10 to 15 minutes prior to measuring volatile organic compound (VOC) levels in the head space with the PID. The maximum PID readings per boring ranged from 0.5 to 43.7 parts per million (ppm) (Table 1).

Seventeen soil samples were selected for ultraviolet fluorescence (UVF) laboratory analysis, as listed in Table 2. For each selected sample, an approximate 10-gram soil sample was collected from the sample bag using a Terra Core<sup>TM</sup> sampler and placed into a laboratory-supplied 40-milliliter volatile organic analysis (VOA) vial containing methanol. Once sealed, the vial was labeled with the sample identification number and then shaken vigorously for about one minute. The samples were packed on ice and sent via overnight delivery to RED Lab, LLC (RED Lab), located in Wilmington, North Carolina, following proper chain-of-custody procedures (Appendix C).

RED Lab used a QED Hydrocarbon Analyzer to quantitatively analyze the soil samples using the UVF method for BTEX; gasoline range organics (GRO); diesel range organics (DRO); TPH; total aromatics; polycyclic aromatic hydrocarbons (PAHs); and benzo(a)pyrene (BaP).

#### 4.4 Groundwater

Groundwater was not encountered in the 20 borings.

#### 5.0 RESULTS

#### 5.1 Geophysics

The EM61 early time gate data show the response from both shallow and deeper metallic objects (Figure 5). The differential response reduces the effect of shallow anomalies and emphasizes anomalies from larger and more deeply buried metallic objects, such as USTs (Figures 6 and 7). Our evaluation of the EM61 data indicated several anomalies at the north end of the building that could not be attributed to known cultural features; GPR data collected over these anomalies indicated that they were caused by reinforced concrete. GPR data collected over the 4 known USTs in the automobile tank bed and over the 2 USTs in the truck diesel tank bed are shown on Figures 8 and 9, respectively.

The automobile fuel tank bed GPR data indicated that the four tanks are buried approximately 6 feet bgs. The two northern USTs have approximate diameters of 9 feet and lengths of 22 feet. The two southern USTs have approximate diameters of 8 feet and lengths of 25 feet. The truck diesel tank bed GPR data indicated that the two tanks are buried approximately 6 feet bgs and have

approximated diameters of 11 feet and lengths of 30 feet. No GPR data were collected over the kerosene tank bed due to two dumpsters located directly on top of the UST.

The EM61 early time gate response and differential response are shown on the plan sheet for NCDOT Project U-4758 on Figures 9, 10, and 12.

#### 5.2 Sample Data

The soil sample UVF hydrocarbon analysis results for BTEX, GRO, DRO, and PAHs are presented in Table 2. The RED Lab laboratory report, which also includes results for TPH, total aromatics, and BaP, is provided in Appendix B. Values are provided in mg/kg, or ppm.

#### 5.3 Sample Observations

The results of the laboratory testing indicate that BTEX and BAP were below the laboratory detection limits in the 17 samples tested. GRO was detected in one sample with values of 17.9 ppm, below the NCDEQ action level of 50 ppm for GRO. DRO was detected in 12 samples, with one sample above the NCDEQ action level of 100 ppm for DRO with a value of 868.2 ppm (Sample S1 in Boring B176-13). PAHs were detected in 3 samples with values ranging from 0.83 to 12.1 ppm.

#### 6.0 CONCLUSIONS

The results of the Phase II investigation of Parcel 176 for NCDOT Project U-4758 indicates one boring location where DRO was above the NCDEQ Action Level for DRO. Groundwater was not encountered in the upper 10 feet at the site. However, groundwater contamination is known to be present on the parcel, based on previous investigations.

#### 6.1 Geophysics

The geophysical data did not indicate the presence of abandoned USTs. The 4 known USTs in the automobile fuel tank bed on the southeast corner of the site are located partially within the proposed temporary construction easement for NCDOT Project U-4758. The two known USTs in the truck diesel tank bed and the single kerosene UST are within the proposed temporary construction easement for NCDOT Project I-5712 (Figure 15).

#### 6.2 Soil

The results of the Phase II investigation for Parcel 176 of NCDOT Project U-4758 indicates that DRO was detected in Sample S1 (1.0 - 1.5 feet bgs) in Boring B176-13 at levels above the NCDEQ Action Level of 100 ppm for DRO (Figure 14). This boring is located outside of the proposed ROW and easements for Project U-4758 but within the proposed temporary construction easement for Project I-5712 (Figure 15).

#### 6.3 Estimated Quantities

Based on the laboratory results and field observations, the petroleum contamination appears to be between ground surface and 4 feet bgs at and in the vicinity of Boring B176-13. The PID readings and UVF results from adjacent borings indicates the contamination does not extend to those borings. Using an average contaminated soil thickness of 4.0 feet and an area of 491 square feet, the volume of contaminated soil above 10 feet bgs is estimated as follows:

<u>Total Estimated Volume of Contaminated Soil above 10 feet depth bgs</u> 491 square feet \* 4.0 feet = 1,964 cubic feet = 73 cubic yards

Assuming 100 pounds per cubic foot, the estimated amount of contaminated soil to be removed for construction is approximately 98 tons in the vicinity of Boring B176-13.

Additional soil contamination may be discovered when the 7 USTs and the dispenser islands are removed, so this should be considered when planning demolition and construction.

#### 7.0 **RECOMMENDATIONS**

ESP recommends that the 4 known USTs in the automobile tank bed at the southeast corner that are located partially within the proposed temporary construction easement be removed in accordance with NCDEQ regulations. ESP also recommends that soil removed from the site as part of NCDOT construction activities in the vicinity of B176-13 be screened for petroleum hydrocarbon contamination, properly handled, segregated, and disposed of in accordance with NCDEQ regulations. Additionally, soil removed in the vicinity of the USTs, the product lines, and the dispenser islands also should be screened for petroleum hydrocarbon contamination, properly handled, segregated, not disposed of in accordance with NCDEQ regulations.

For NCDOT Project I-5712, the two USTs in the truck diesel tank pit, the kerosene UST, and Boring P176-13 are within the proposed temporary construction easement as shown on the 25 percent plans (Figure 15).

Groundwater was not encountered in the upper 10 feet in the study area. Based on the planned cut depths and proposed drainage features, it does not appear that groundwater will be encountered during construction. However, if groundwater is encountered during construction, it may be contaminated and should be screened for petroleum hydrocarbons, properly handled, segregated, and disposed of in accordance with NCDEQ regulations.

#### 8.0 LIMITATIONS

ESP's professional services have been performed, findings obtained, and recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. ESP is not responsible for the independent conclusions, opinions, or recommendations made by others based on the data presented in this report.

The passage of time may result in a change in the environmental characteristics at this site and surrounding properties. ESP does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. ESP does not assume responsibility for other environmental issues that may be associated with the subject site.

TABLES

| Boring  | Sample Depth Range with<br>PID > 10 ppm (feet bgs) | Maximum PID Reading (ppm)<br>and Sample Depth (feet bgs) |
|---------|--|--|
| B176-1  | None   | 0.6 (7.0 – 7.5)  |
| B176-2  | None   | 1.3 (4.0 – 4.5)  |
| B176-3  | None   | 0.6 (1.0 – 1.5, 8.0 – 8.5)                               |
| B176-4  | None   | 1.5 (1.0 – 1.5)  |
| B176-5  | None   | 1.9 (1.0 – 1.5)  |
| B176-6  | None   | 1.6 (9.0 - 9.5)  |
| B176-7  | None   | 0.5 (4.0 - 4.5, 8.0 - 8.5)                               |
| B176-8  | None   | 1.1 (9.0 – 9.5)  |
| B176-9  | None   | 0.8 (2.0 – 2.5)  |
| B176-10 | None   | 0.8 (5.0 - 5.5, 7.0 - 7.5)                               |
| B176-11 | None   | 3.2 (9.0 - 9.5)  |
| B176-12 | None   | 1.2 (9.0 – 9.5)  |
| B176-13 | 1.0 - 1.5  | 43.7 (1.0 – 1.5)   |
| B176-14 | None   | 1.6 (7.0 – 7.5)  |
| B176-15 | None   | 0.9 (1.0 – 1.5)  |
| B176-16 | None   | 0.8 (4.0 - 6.5)  |
| B176-17 | None   | 0.9 (5.0 - 5.5)  |
| B176-18 | None   | 1.1 (8.0 - 8.5)  |
| B176-19 | None   | 1.8 (2.0 – 2.5)  |
| B176-20 | None   | 1.4 (2.0 – 2.5)  |

## TABLE 1SOIL SAMPLE PID READINGS

| Boring  | Sample ID<br>(depth in feet<br>bgs) | Date<br>Collected | BTEX<br>(C6-C9)<br>(mg/kg) | GRO<br>(C5-C10)<br>(mg/kg) | DRO<br>(C10-C35)<br>(mg/kg) | PAHs<br>(mg/kg) |
|---------|-------------------------------------|-------------------|----------------------------|----------------------------|-----------------------------|-----------------|
| B176-1  | S5                                  | 1/24/22           | <0.64                      | <0.64                      | <0.64                       | < 0.2           |
| B176-1  | S7                                  | 1/24/22           | <0.53                      | <0.53                      | 0.64                        | < 0.17          |
| B176-2  | <b>S</b> 4                          | 1/24/22           | < 0.34                     | < 0.34                     | < 0.34                      | < 0.11          |
| B176-3  | <b>S</b> 1                          | 1/24/22           | <0.59                      | <0.59                      | 0.85                        | <0.19           |
| B176-3  | <b>S</b> 5                          | 1/24/22           | <0.54                      | <0.54                      | 0.54                        | < 0.17          |
| B176-5  | <b>S</b> 4                          | 1/24/22           | <0.58                      | <0.58                      | <0.58                       | <0.19           |
| B176-8  | <b>S</b> 6                          | 1/24/22           | <0.49                      | <0.49                      | 0.67                        | <0.16           |
| B176-9  | S2                                  | 1/24/22           | <0.61                      | <0.61                      | <0.61                       | <0.2            |
| B176-10 | <b>S</b> 4                          | 1/25/22           | <0.54                      | <0.54                      | 0.83                        | <0.17           |
| B176-11 | S2                                  | 1/24/22           | <0.58                      | <0.58                      | <0.58                       | <0.19           |
| B176-12 | <b>S</b> 6                          | 1/25/22           | <0.66                      | <0.66                      | 0.66                        | <0.21           |
| B176-13 | <b>S</b> 1                          | 1/24/22           | <7.5                       | <7.5                       | 868.2                       | 12.1            |
| B176-13 | <b>S</b> 4                          | 1/24/22           | <1.2                       | 17.9                       | 68.8                        | 0.83            |
| B176-13 | <b>S</b> 8                          | 1/24/22           | <0.73                      | <0.73                      | 11.7                        | <0.23           |
| B176-17 | <b>S</b> 5                          | 1/25/22           | < 0.52                     | < 0.52                     | 19.8                        | 1.0             |
| B176-19 | <b>S</b> 4                          | 1/25/22           | <0.33                      | < 0.33                     | 0.33                        | <0.11           |
| B176-20 | S2                                  | 1/25/22           | <0.57                      | <0.57                      | 0.57                        | < 0.18          |

# TABLE 2SOIL SAMPLE UVF RESULTS SUMMARY

### TABLE 3MONITORING WELL LOCATIONS WITH 2019 MONITORING REPORT RESULTS

|                           |          |                | Depth to             | 2019 Monitoring Report Results |                            | Results                               |
|---------------------------|----------|----------------|----------------------|--------------------------------|----------------------------|---------------------------------------|
| Monitoring<br>Well        | Northing | Easting        | Groundwater,<br>feet | Detected Compound              | Detected<br>Level,<br>ug/L | NC 2L<br>Groundwater<br>Standard ug/L |
|                           |          |                |                      | Benzene                        | 15.4                       | 1                                     |
|                           |          |                |                      | Toluene                        | 27                         | 600                                   |
| MW-1                      | 853361   | 1705573        | 39.39                | Ethylbenzene                   | 47.1                       | 600                                   |
| 101 00 - 1                | 055501   | 1705575        | 39.39                | Xylenes, Total                 | 109                        | 500                                   |
|                           |          |                |                      | MTBE                           | 15.2                       | 20                                    |
|                           |          |                |                      | Naphthalene                    | 9.8                        | 6                                     |
| <b>MW-2</b> <sup>1</sup>  | 853345   | 1705578        | 40.73                | Free Product<br>1.95ft thick   | -                          | -                                     |
| MW-3 <sup>1</sup>         | 853332   | 1705603        | 42.59                | Free Product<br>4.18ft thick   | -                          | -                                     |
| MW-4                      | 853332   | 1705603        | 39.08                | MTBE                           | 0.4                        | 20                                    |
| MW-5                      | 853458   | 1705250        | 39.40                | Not Sampled                    | -                          | -                                     |
| MW-6                      | 853493   | 1705254        | 38.50                | Not Sampled                    | -                          | -                                     |
| MW-7                      | 853364   | 1705550        | 39.18                | MTBE                           | 10.1                       | 20                                    |
| MW-8                      | 853384   | 1705595        | 39.53                | MTBE                           | 7.2                        | 20                                    |
| MW-9                      | 853356   | 1705624        | 39.59                | MTBE                           | 0.46                       | 20                                    |
| MW-10 <sup>4</sup>        | NL -     |                | -                    | -                              | -                          | -                                     |
| <b>MW-11</b> <sup>1</sup> | 853352   | 1705587        | 42.68                | Free Product<br>4.30ft thick   | -                          | -                                     |
| MW-12D                    | 853335   | 1705588        | 39.20                | MTBE                           | 1.1                        | 20                                    |
| MW-13                     | N        | L <sup>3</sup> | 36.19                | All Below<br>Detection Limits  | -                          | -                                     |
| MW-14                     | N        | $L^3$          | 38.77                | MTBE                           | 26.7                       | 20                                    |
| $MW^2$                    | 853341   | 1705580        | N/A                  | N/A                            | -                          | -                                     |
| $MW^2$                    | 853366   | 1705624        | N/A                  | N/A                            | -                          | -                                     |
| $MW^2$                    | 853351   | 1705624        | N/A                  | N/A                            | -                          | -                                     |

The complete summary of GW sampling results from the 2019 MR is provided in Appendix D-6 NL = Not Located

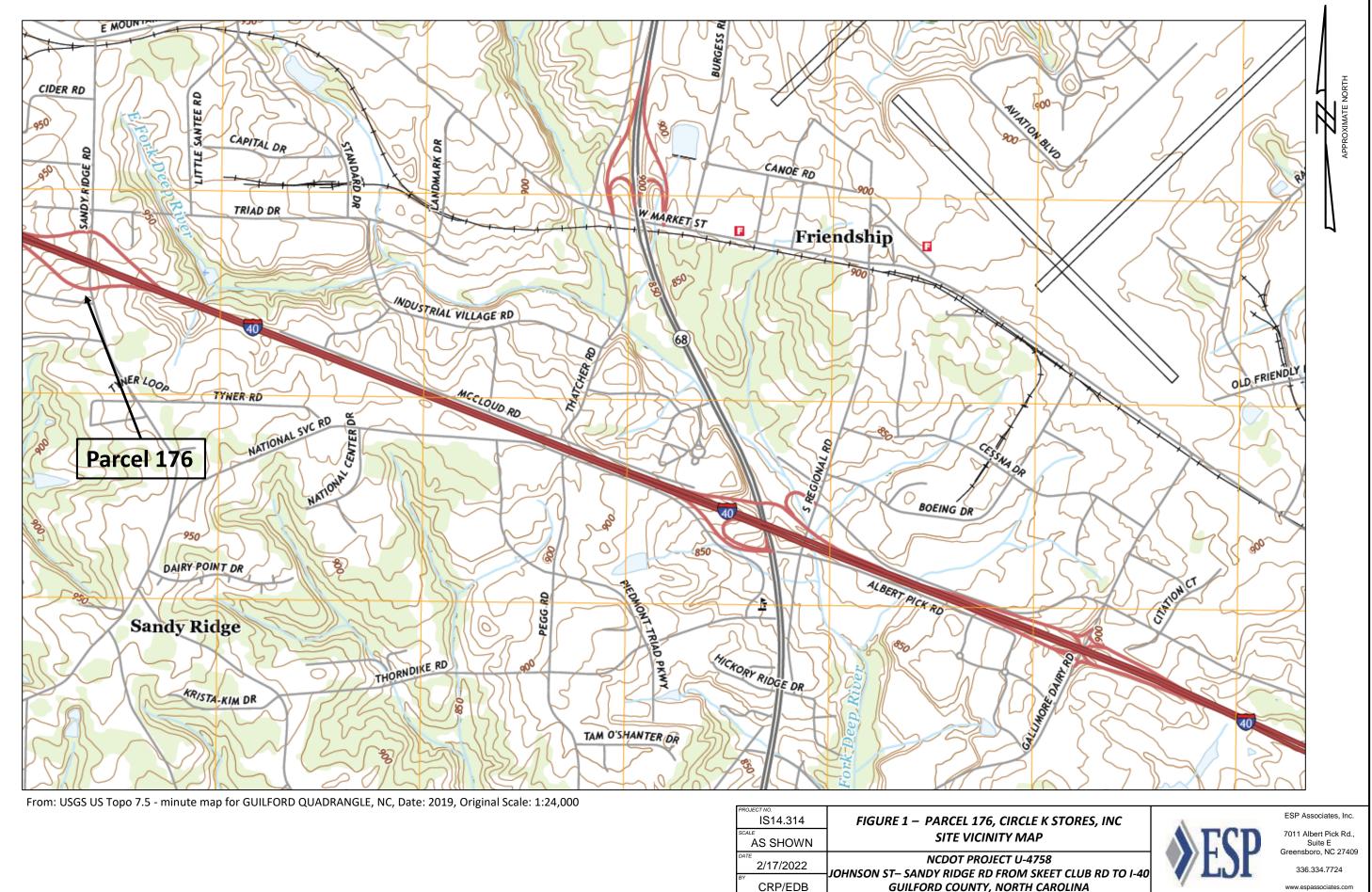
<sup>1</sup> Monitoring well not sampled due to free product

<sup>2</sup> Monitoring well not associated with 2019 Monitoring Report

<sup>3</sup> Monitoring well not located during 2022 Phase II Investigation

<sup>4</sup> MW-10 not located in the 2019 MR or 2022 Phase II Investigation

#### FIGURES



| FIGURE 1 – PARCEL 176, CI                      | PROJECT NO.<br>IS14.314   |
|--|---------------------------|
| SITE VICINITY                                  | AS SHOWN                  |
| NCDOT PROJECT<br>JOHNSON ST- SANDY RIDGE RD FR | <sup>DATE</sup> 2/17/2022 |
| GUILFORD COUNTY, NO                            | BY<br>CRP/EDB             |
|  |                           |



A. Photograph from southeast corner of parcel, looking west.



C. Photograph from northeast end of parcel, looking west.



B. Photograph from southwest corner of parcel, looking east.



D. Photograph of west end of parcel, looking north.

| PROJECT NO.<br>IS14.314 | FIGURE 2 – PARCEL 176,                          |  |
|-------------------------|---|--|
| scale<br>N/A            | SITE PHOTOGRAP                                  |  |
| DATE 2/17/2022          | NCDOT PROJECT<br>JOHNSON ST- SANDY RIDGE RD FRO |  |
| CRP/EDB                 | GUILFORD COUNTY, NO                             |  |

CIRCLE K STORES, INC PHS, 1 OF 2 T U-4758 ROM SKEET CLUB RD TO I-40 ORTH CAROLINA



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E. Photograph of the southeastern tank pit, looking south.



G. Photograph of the tank pit located on the north end of the diesel canopy, looking north.



F. Photograph of the kerosene UST, looking northeast.



south east. DEF is reportedly non-hazardous.

| FIGURE 3 – PARCEL 176, CI                 | PROJECT NO.<br>IS14.314   |
|---|---------------------------|
| SITE PHOTOGRAP                            | scale<br>N/A              |
| NCDOT PROJI<br>JOHNSON ST- SANDY RIDGE RD | <sup>DATE</sup> 2/17/2022 |
| GUILFORD COUNTY, NO                       | BY<br>CRP/EDB             |
|   |                           |

H. Photograph of DEF AST located at the northwest end of the diesel canopy, looking

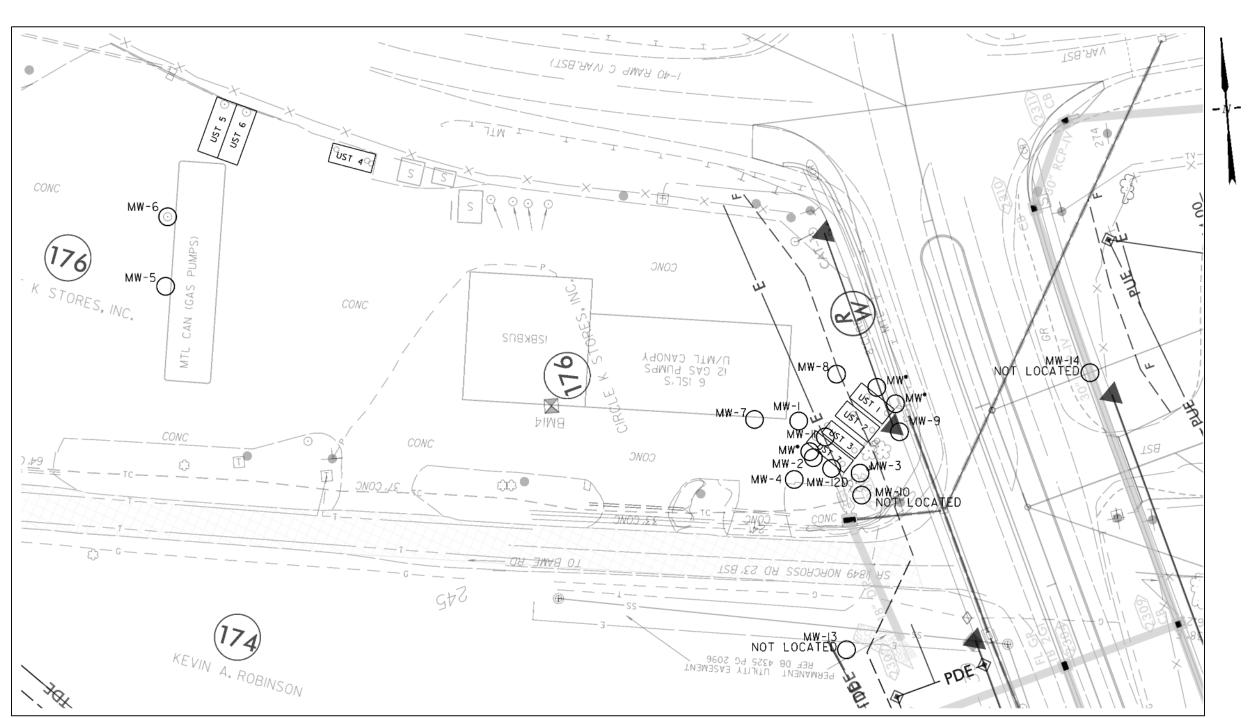
CIRCLE K STORES, INC NPHS, 2 OF 2 CT U-4758 ROM SKEET CLUB RD TO I-40 IORTH CAROLINA



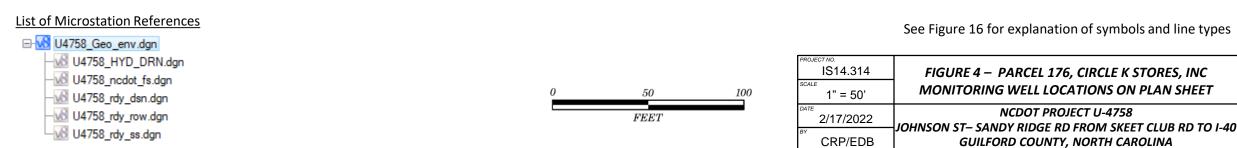
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MW\* - Monitoring well not associated with the 2019 Monitoring Report

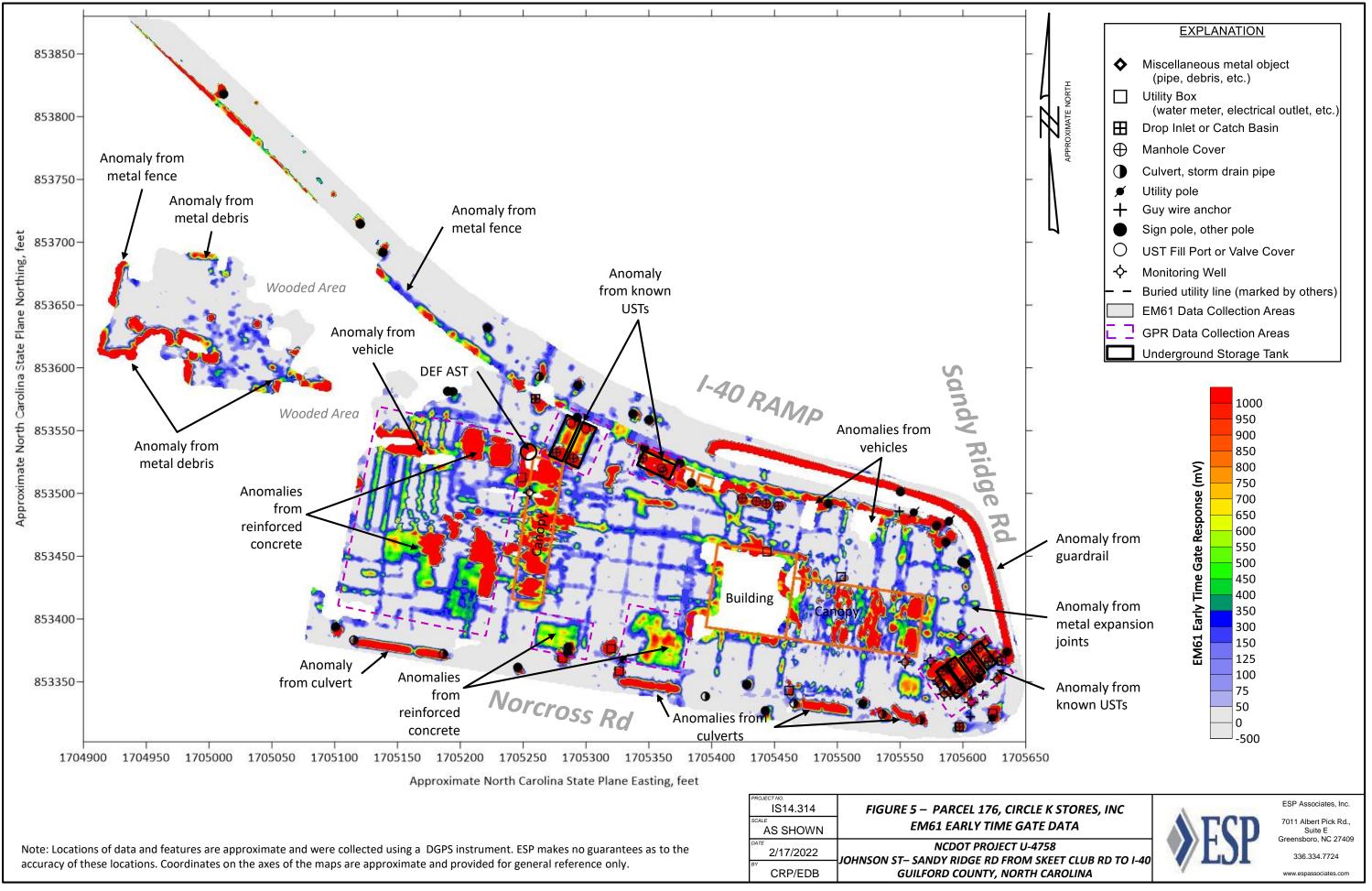


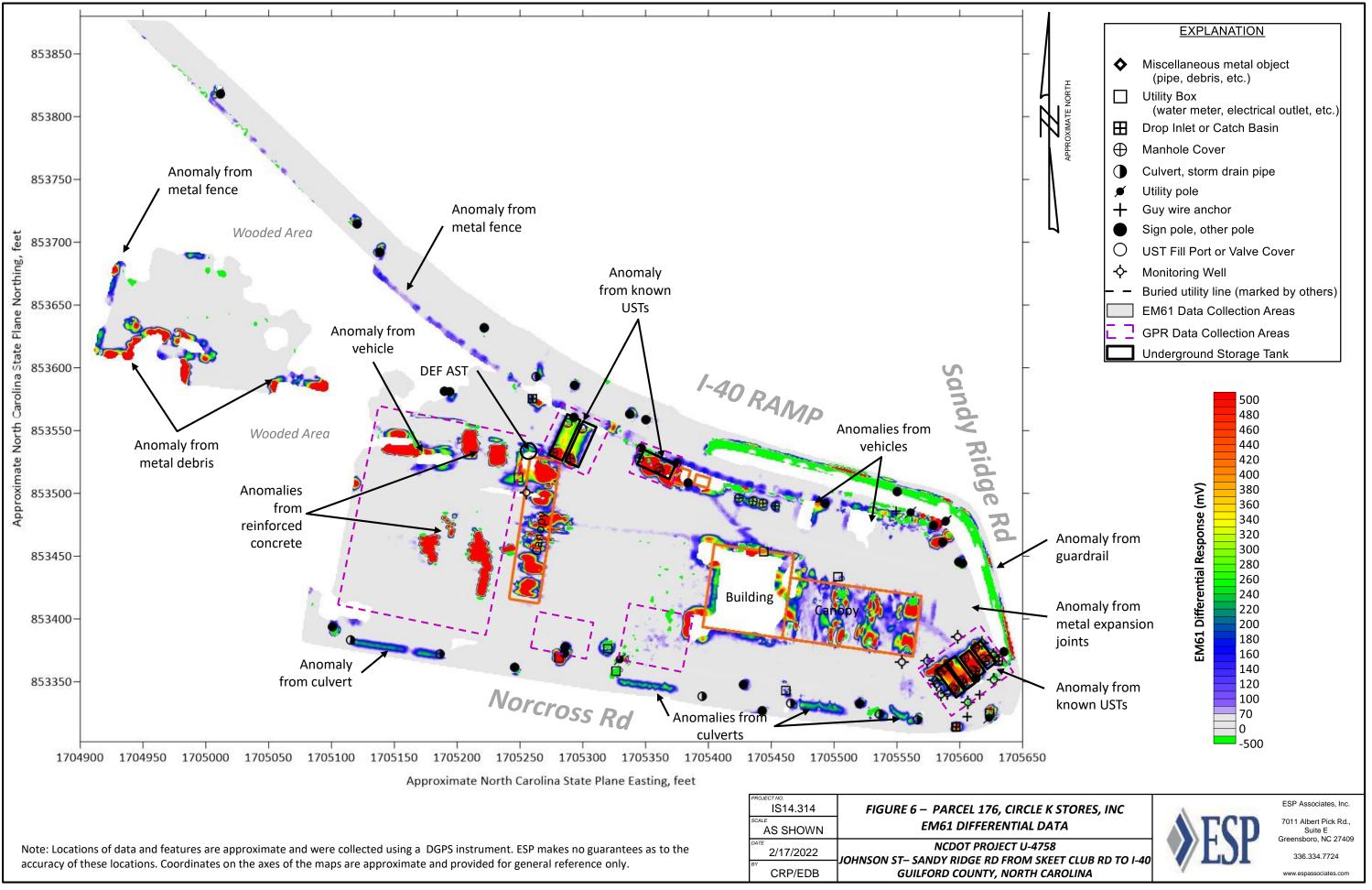


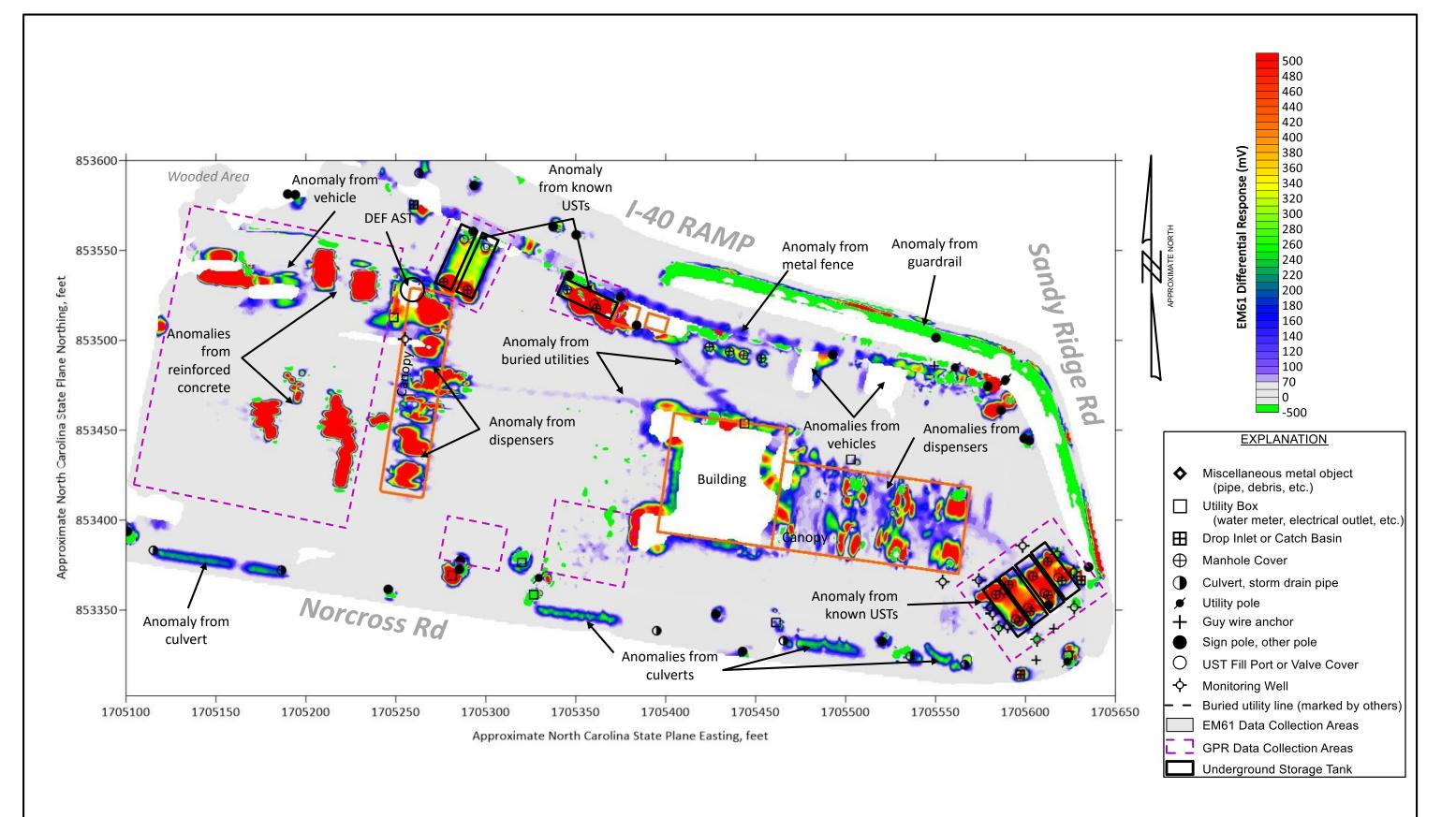
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| FIGURE 7 – PARCEL 176, C<br>DETAIL AREA, EM61 DII<br>NCDOT PROJEC<br>JOHNSON ST– SANDY RIDGE RD FF | PROJECT NO.<br>IS14.314   |  |
|--|---------------------------|--|
|  | AS SHOWN                  |  |
|  | <sup>DATE</sup> 2/17/2022 |  |
| GUILFORD COUNTY, NO  | BY<br>CRP/EDB             |  |
|  |                           |  |

Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

IRCLE K STORES, INC FERENTIAL DATA T U-4758

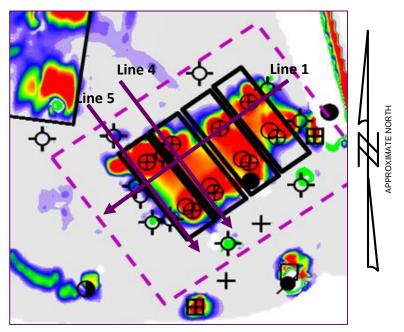
T U-4758 POM SKEET CLUB RD TO I-40 DRTH CAROLINA



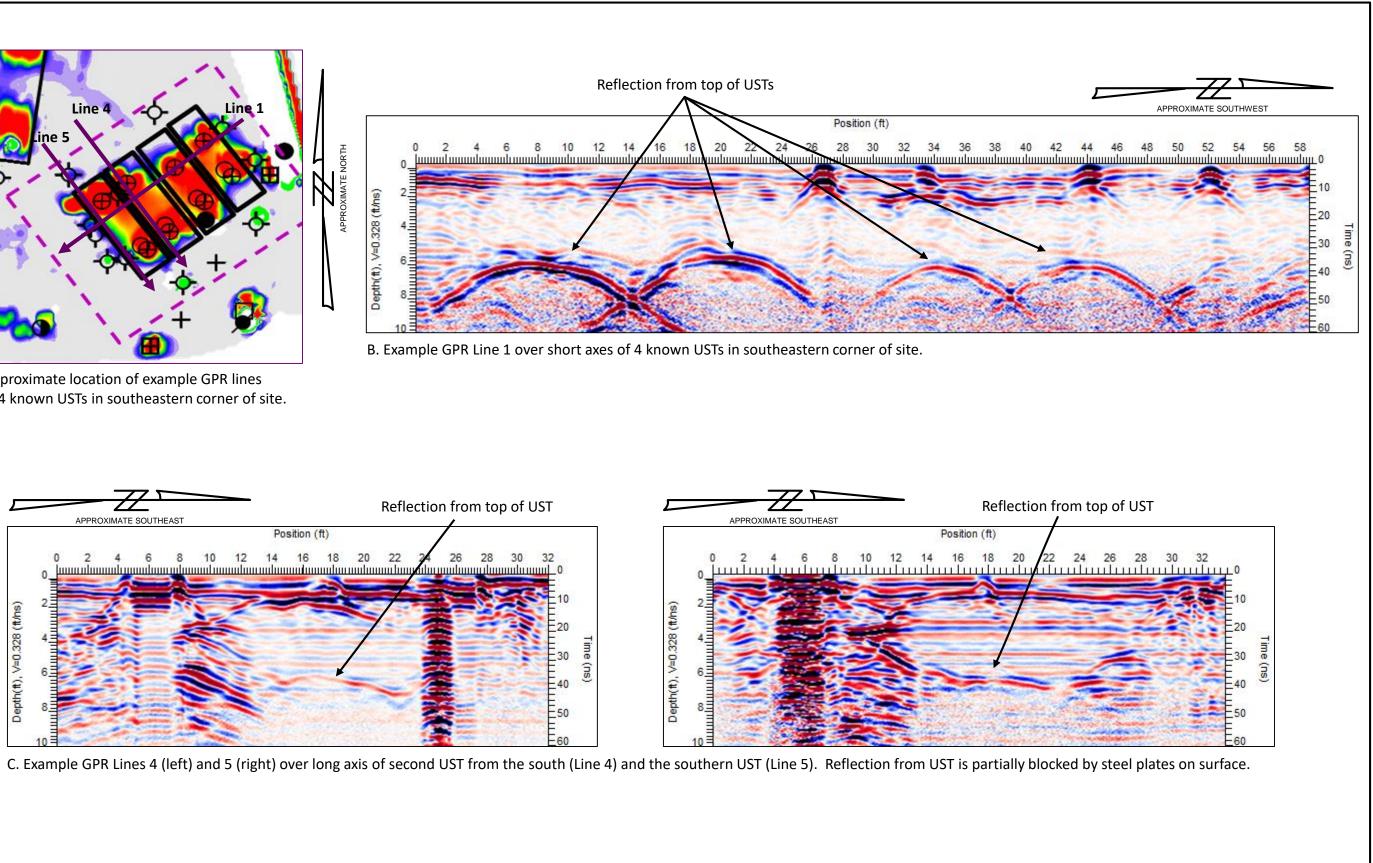
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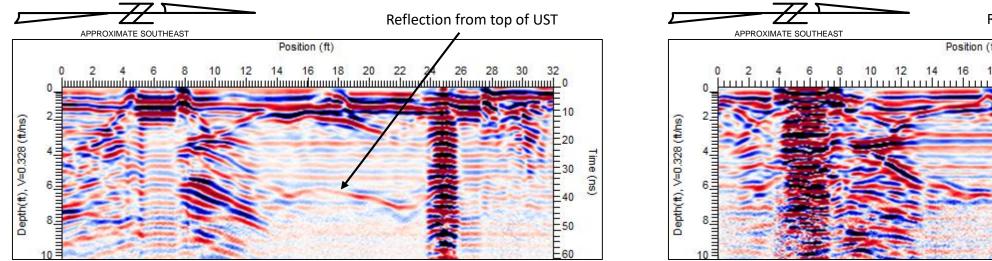
336.334.7724



A. Approximate location of example GPR lines over 4 known USTs in southeastern corner of site.



B. Example GPR Line 1 over short axes of 4 known USTs in southeastern corner of site.



| ROJECT NO.<br>IS14.314 | FIGURE 8 - PARCEL 176, CIR                      |
|------------------------|---|
| AS SHOWN               | GPR IMAGES OF FOUR AUTO                         |
| 2/17/2022              | NCDOT PROJECT<br>JOHNSON ST– SANDY RIDGE RD FRC |
| CRP/EDB                | GUILFORD COUNTY, NOI                            |
|                        | IS14.314<br>AS SHOWN<br>ATE<br>2/17/2022        |

RCLE K STORES, INC OMOBILE FUEL USTS

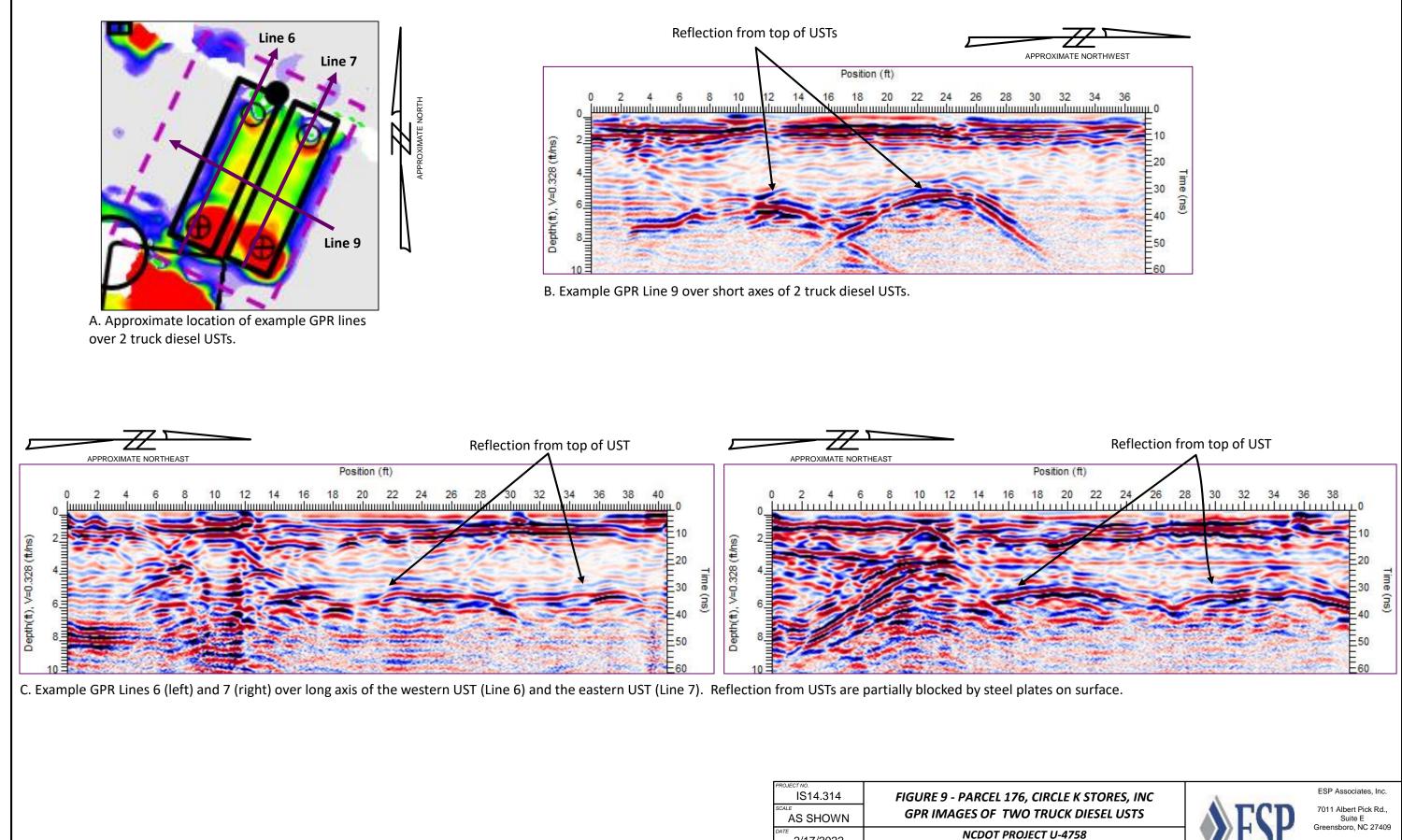
Г U-4758 OM SKEET CLUB RD TO I-40 ORTH CAROLINA



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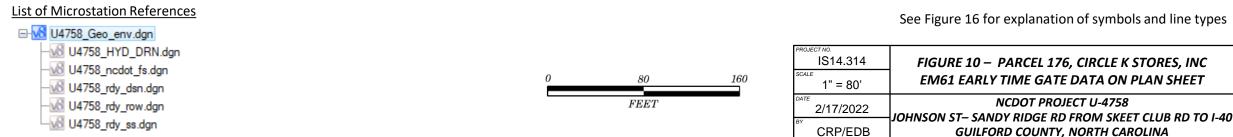


| PROJECT NO.<br>IS14.314 | FIGURE 9 - PARCEL 176, CIR                      |
|-------------------------|---|
| AS SHOWN                | GPR IMAGES OF TWO TR                            |
| DATE 2/17/2022          | NCDOT PROJECT<br>JOHNSON ST– SANDY RIDGE RD FRC |
| CRP/EDB                 | GUILFORD COUNTY, NOI                            |
|                         | AS SHOWN<br>DATE<br>2/17/2022<br>BY             |

OM SKEET CLUB RD TO I-40 ORTH CAROLINA

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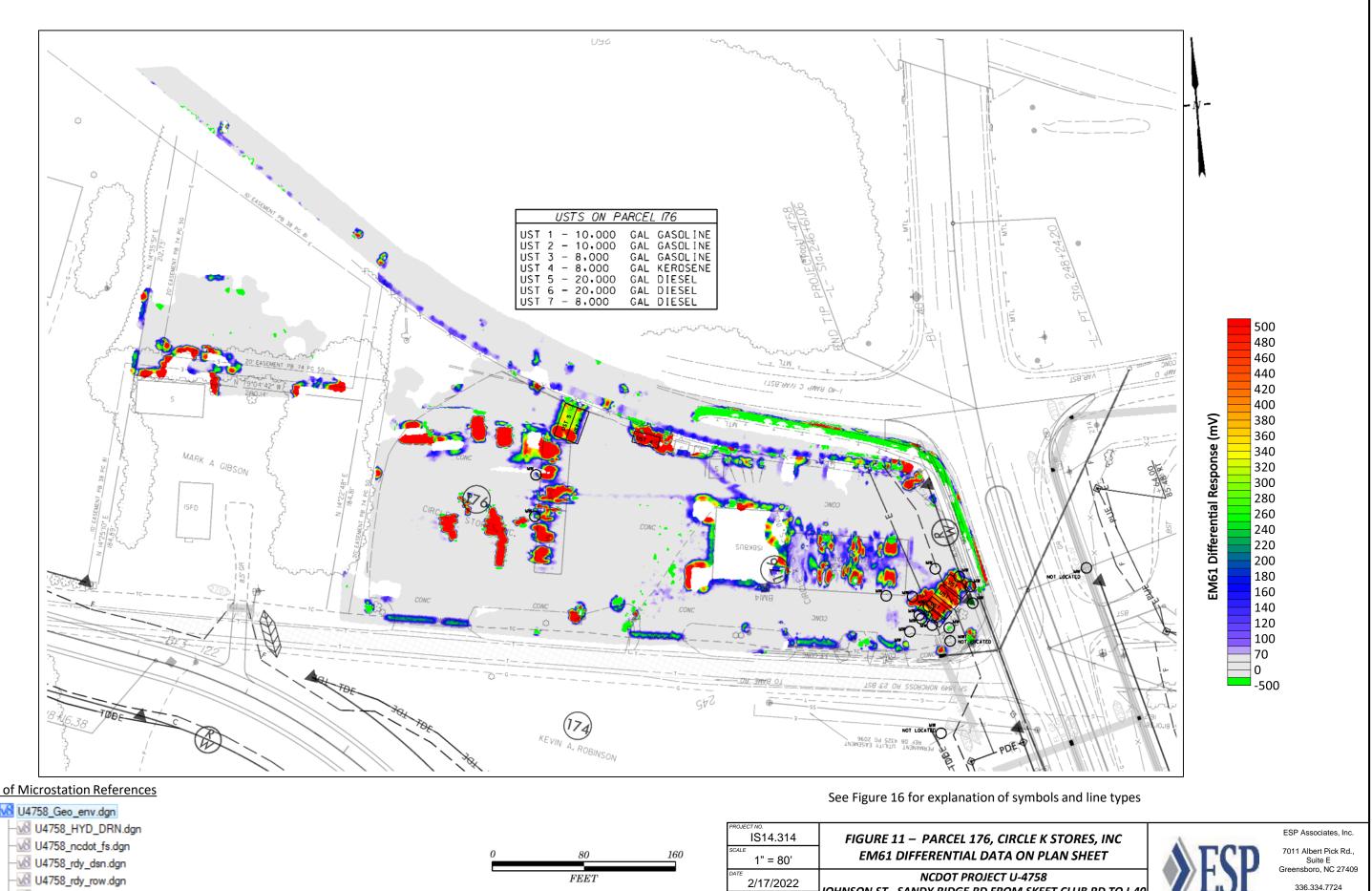


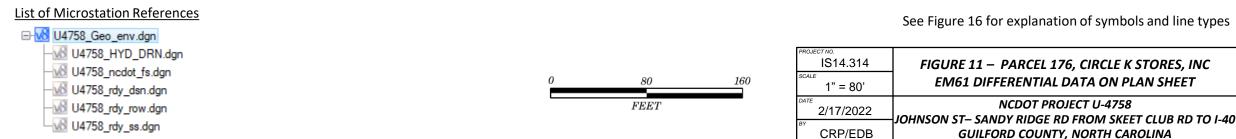


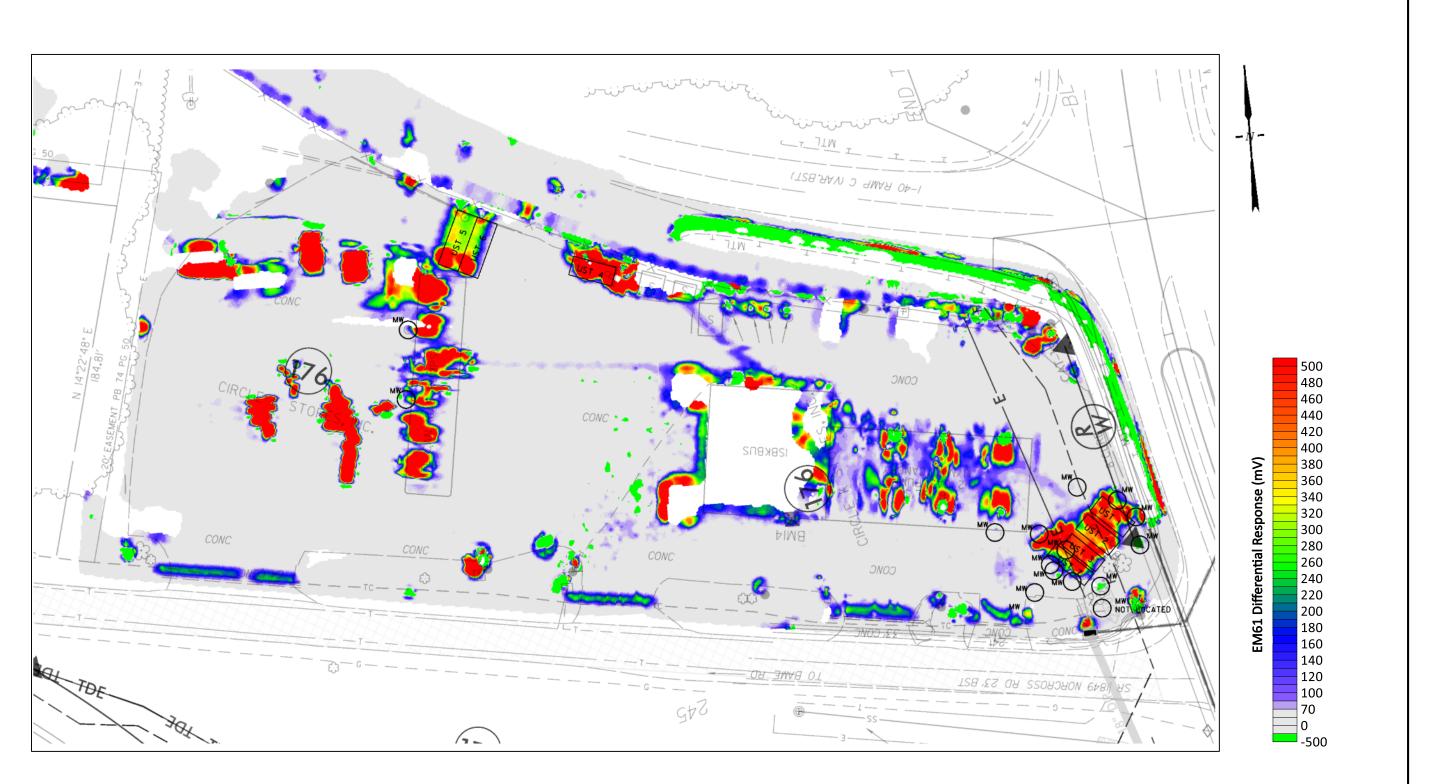


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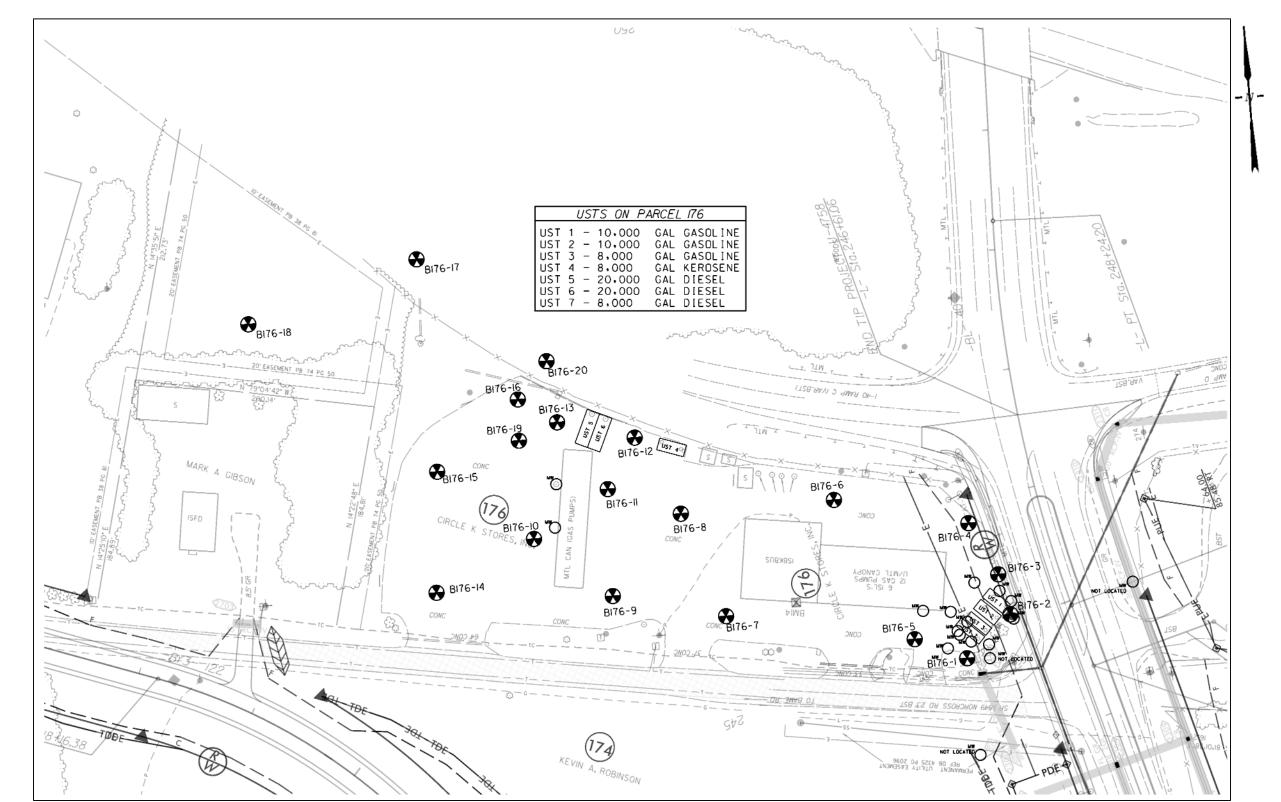


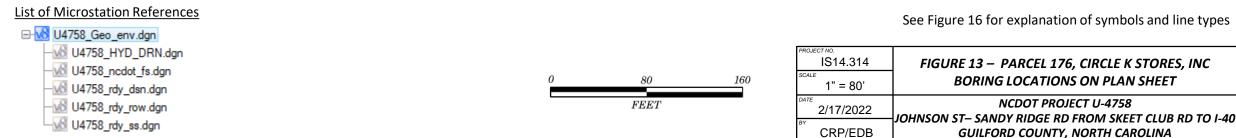


| List of Microstation References  |          |  | See Figure 16 for explanation of   |
|--|----------|--|--|
| - 🐼 U4758_HYD_DRN.dgn<br>- 🐼 U4758_ncdot_fs.dgn<br>- 🐼 U4758_rdy_dsn.dgn | 0 50 100 | PROJECT NO.<br>IS14.314<br>SCALE<br>1" = 50' | FIGURE 12 – PARCEL 176, CIR<br>DETAIL AREA, EM61 DIFFERENTIAL              |
|  | FEET     | 2/17/2022<br><sup>BY</sup> CRP/EDB           | NCDOT PROJECT L<br>JOHNSON ST– SANDY RIDGE RD FROI<br>GUILFORD COUNTY, NOR |

of symbols and line types





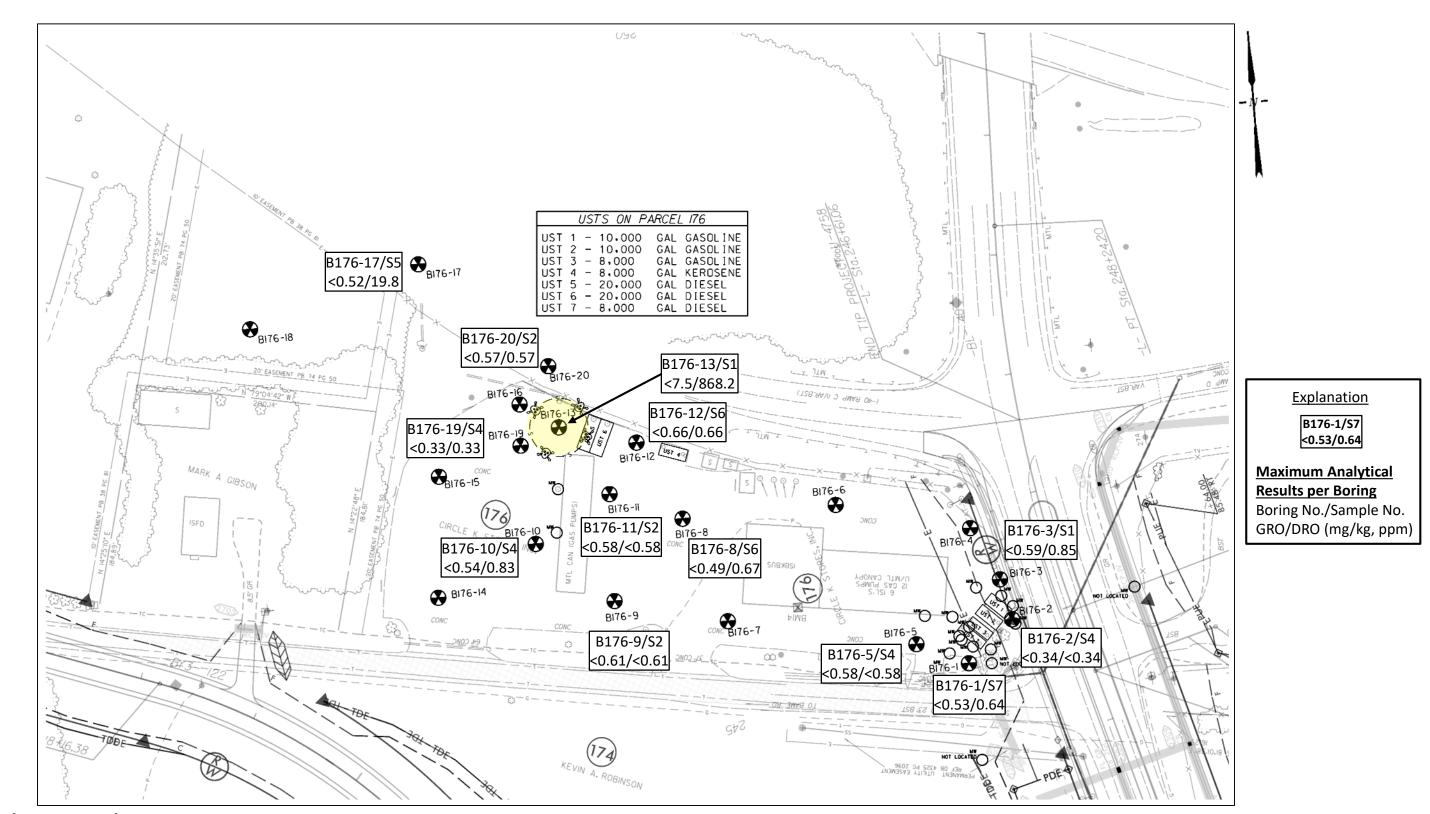


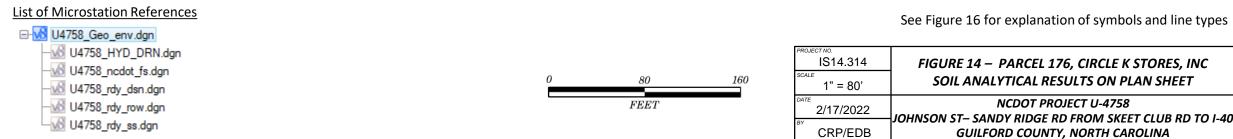


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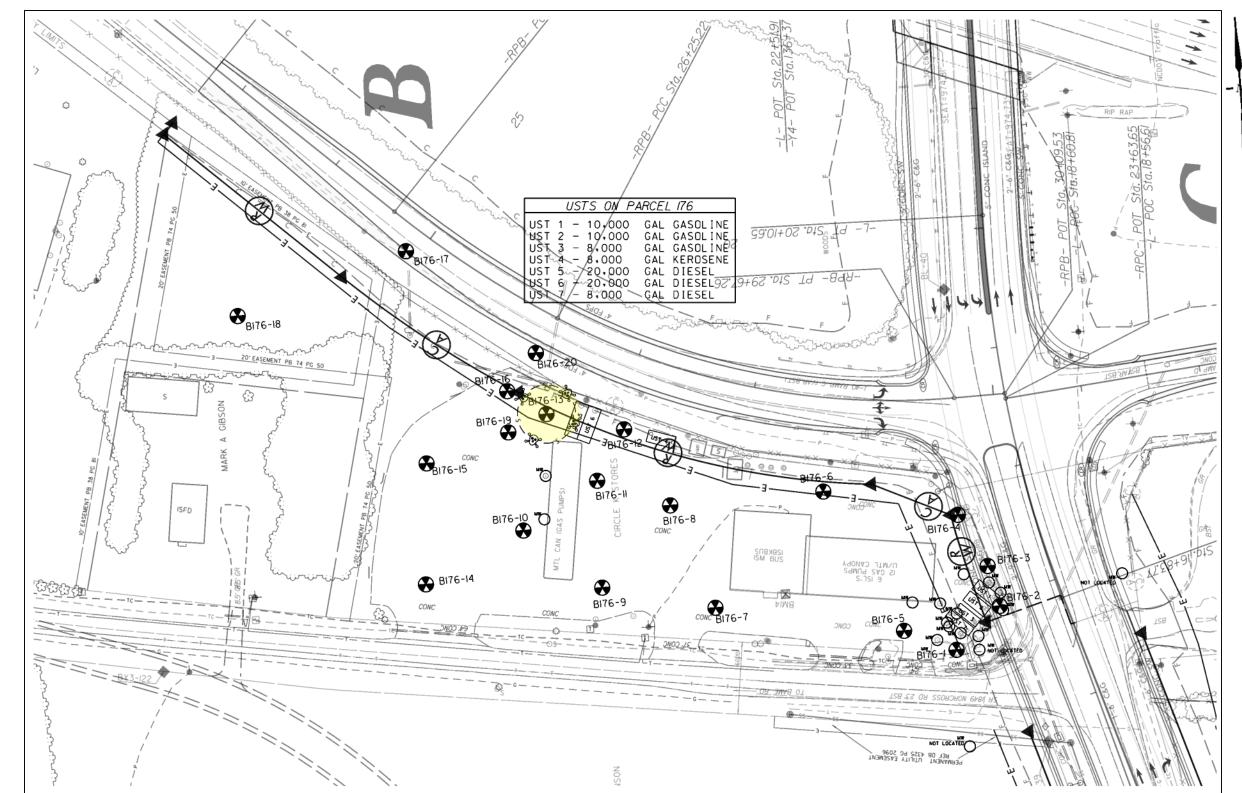
GUILFORD COUNTY, NORTH CAROLINA

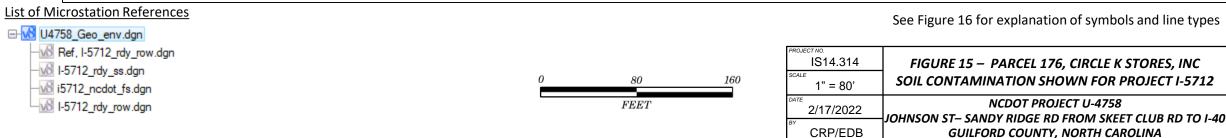


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|   |   |                                 | NA, DIVISION OF HIGHWA                                    |                                       |                           |
|---|---|---------------------------------|---|---------------------------------------|---------------------------|
| BOUNDARIES AND PROPERTY:                  |   |                                 | AN SHEET SYMBC<br>S.U.E. = Subsurface Utility Engineering | DLS                                   | WATER:                    |
| State Line                                | RAILROADS: Note: Not to S                                   |                                 | .U.E Subsurface Utility Engineering                       |                                       | Water Manhole             |
| County Line                               | Standard Gauge  | SU TRANSPORTATION               | Hedge   |                                       | Water Meter               |
| Township Line                             | RR Signal Milepost  | MULTION 25                      | Woods Line  |                                       | Water Valve               |
| City Line                                 | Switch  | SWIGH                           | Orchard   |                                       | Water Hydrant             |
| Reservation Line                          | RR Abandoned  |                                 | Vineyard  | Nineyard                              | ,                         |
| Property Line                             | RR Dismantled   |                                 | EXISTING STRUCTURES:                                      |                                       | UG Water Line LOS         |
| Existing Iron Pin g                       |   |                                 | MAJOR:  |                                       |                           |
| Computed Property Corner                  | RIGHT OF WAY & PROJECT CO                                   | ONTROL:                         | Bridge, Tunnel or Box Culvert                             | 0840                                  | U/G Water Line LOS        |
| Property Monument                         | Secondary Horiz and Vert Control Point                      | •                               | Bridge Wing Wall, Head Wall and End Wall -                | ) **** (                              | Above Ground Water        |
| Parcel/Sequence Number 20                 | Primary Horiz Control Point                                 | ŏ                               | MINOR   | , , , , , , , , , , , , , , , , , , , | TV:                       |
| Existing Fence Line                       | Primary Horiz and Vert Control Point                        |                                 | Head and End Wall   |                                       | TV Pedestal               |
| Proposed Waven Wire Fence                 | Exist Permanent Easment Pin and Cap                         | 0                               | Pipe Culvert  |                                       | TV Tower                  |
| Proposed Waven Wire Fence                 | New Permanent Easement Pin and Cap                          | ۲                               | Footbridge  | ≻⊀                                    | U/G TV Cable Hand         |
| Proposed Chain Link Fence                 | Vertical Benchmark  | Ť                               | Drainage Box: Catch Basin, DI or JB                       | <b>□</b> ≈                            | U/G TV Cable LOS B        |
| Proposed Barbed Wire Fence                | Existing Right of Way Marker                                | _                               | Paved Ditch Gutter  |                                       | U/G TV Cable LOS C        |
| Existing Wetland Boundary                 | Existing Right of Way Line                                  |                                 | Storm Sewer Manhole                                       | 8                                     | U/G TV Cable LOS D        |
| Proposed Wetland Boundary                 | New Right of Way Line                                       |                                 | Storm Sewer   |                                       | UG Fiber Optic Cable      |
| Existing Endangered Animal Boundary       | . ,   | -                               |   |                                       | U/G Fiber Optic Cable     |
| Existing Endangered Plant Boundary        | New Right of Way Line with Pin and Cap—                     |                                 | UTILITIES:  |                                       | U/G Fiber Optic Cable     |
| Existing Historic Property Boundary       | New Right of Way Line with<br>Concrete or Granite RW Marker |                                 | POWER:  |                                       | GAS:                      |
| Known Contamination Area: Soil            | New Control of Access Line with                             | • •                             | Existing Power Pole                                       | •                                     | Gas Valve                 |
| Potential Contamination Area: Soil        | Concrete C/A Marker   | <del>- ©</del> - <del>©</del> - | Proposed Power Pole                                       | 6                                     | Gas Meter                 |
| Known Contamination Area: Water           | Existing Control of Access                                  | —— <u>(\$)</u> ——               | Existing Joint Use Pole                                   | - <b>+</b> -                          | UG Gas Line LOS B         |
| Potential Contamination Area: Water       | New Control of Access                                       | <u>_</u>                        | Proposed Joint Use Pole                                   | -0-                                   | U/G Gas Line LOS C        |
| Contaminated Site: Known or Potential 💥 🎘 | Existing Easement Line                                      | <i>•</i>                        | Power Manhole   | Ð                                     | U/G Gas Line LOS D        |
| BUILDINGS AND OTHER CULTURE:              | New Temporary Construction Easement -                       | F                               | Power Line Tower  | $\boxtimes$                           | Above Ground Gas Li       |
| Gas Pump Vent or UG Tank Cap 0            | New Temporary Drainage Easement                             | TDE                             | Power Transformer   | 2                                     |                           |
| Sign Ş                                    | New Permanent Drainage Easement                             | PDE                             | U/G Power Cable Hand Hole                                 |                                       | SANITARY SEWER:           |
| Well 2                                    | New Permanent Drainage / Utility Easement                   |                                 | H-Frame Pole  |                                       | Sanitary Sewer Manho      |
| Small Mine 🔶 🛠                            |   | ru:                             | U/G Power Line LOS B (S.U.E.*)                            |                                       | Sanitary Sewer Cleano     |
| Foundation                                | New Temporary Utility Easement                              |                                 | U/G Power Line LOS C (S.U.E.*)                            |                                       | UG Sanitary Sewer Li      |
| Area Outline                              |   | AUE                             | U/G Power Line LOS D (S.U.E.*)                            |                                       | Above Ground Sanita       |
| Cemetery                                  |   | ADE                             | TELEPHONE:  |                                       | SS Forced Main Line       |
| Building                                  | ROADS AND RELATED FEATUR                                    | ES:                             |   |                                       | SS Forced Main Line       |
| School                                    | Existing Edge of Pavement                                   |                                 | Existing Telephone Pole                                   | <b>+</b>                              | SS Forced Main Line       |
| Church                                    | Existing Curb   |                                 | Proposed Telephone Pole                                   | -0-                                   |                           |
| Dam                                       | Proposed Slope Stakes Cut                                   |                                 | Telephone Manhole   | œ                                     | MISCELLANEOUS:            |
| HYDROLOGY:                                | Proposed Slope Stakes Cur<br>Proposed Slope Stakes Fill     | £                               | Telephone Pedestal  |                                       | Utility Pole              |
| Stream or Body of Water                   | Proposed Curb Ramp  |                                 | Telephone Cell Tower                                      | . <b>.</b> .                          | Utility Pole with Base    |
| Hydro, Pool or Reservoir                  | Existing Metal Guardrail                                    | CD                              | U/G Telephone Cable Hand Hole                             | 5                                     | Utility Located Object    |
| Jurisdictional Stream                     | Proposed Guardrail  |                                 | U/G Telephone Cable LOS B (S.U.E.*)                       |                                       | Utility Traffic Signal Bo |
| Buffer Zone 1 min at 1                    | Existing Cable Guiderail                                    |                                 | U/G Telephone Cable LOS C (S.U.E.*)                       |                                       | Utility Unknown U/G       |
| Buffer Zone 2 82 2                        | Existing Cable Guiderail                                    |                                 | U/G Telephone Cable LOS D (S.U.E.*)                       |                                       | UG Tank; Water, Gas       |
| Flow Arrow                                | Proposed Cable Guiderail                                    |                                 | U/G Telephone Conduit LOS B (S.U.E.*)                     |                                       | Underground Storage       |
| Disappearing Stream                       | Equality Symbol   | •                               | U/G Telephone Conduit LOS C (S.U.E.*)                     |                                       | A/G Tank; Water, Gas      |
| Spring or                                 | Pavement Removal  |                                 | UG Telephone Conduit LOS D (S.U.E.*)                      |                                       | Geoenvironmental Bori     |
| Wetland *                                 | VEGETATION:   |                                 | UG Fiber Optics Cable LOS B (S.U.E.*)                     |                                       | U/G Test Hole LOS A       |
| Proposed Lateral, Tail, Head Ditch        | Single Tree   | G                               | UG Fiber Optics Cable LOS C (S.U.E.*)                     |                                       | Abandoned According       |
| False Sump                                | Single Shrub  | 0                               | UG Fiber Optics Cable LOS D (S.U.E.*)                     |                                       | End of Information —      |
|   |   |                                 |   |                                       |                           |
|   |   |                                 |   |                                       |                           |

| PROJECT NO.<br>IS14.314 | FIGURE 16  |
|-------------------------|--|
| scale<br>N/A            | LEGEND FOR PLAN SHE                                |
| 2/17/2022               | NCDOT PROJECT U<br>JOHNSON ST– SANDY RIDGE RD FROM |
| CRP/EDB                 | GUILFORD COUNTY, NOR                               |

| Roisci                      | MPROVICE NO.         | SHEET IND. |
|-----------------------------|----------------------|------------|
|                             |                      |            |
|                             |                      |            |
|                             |                      |            |
|                             |                      |            |
|                             | · ®                  |            |
|                             | . 0                  |            |
|                             | . 8                  |            |
|                             | ୍                    |            |
| LOS B (S.U.E*)              |                      |            |
| LOS C (S.U.E*)              |                      | ·          |
| LOS D (S.U.E*)              |                      |            |
| Water Line                  | 6/2 WO               | ter        |
|                             |                      |            |
|                             | េព                   |            |
|                             | 8                    |            |
| Hand Hole                   | · 5                  |            |
| LOS B (S.U.E.*)             |                      |            |
| LOS C (S.U.E.*)             |                      |            |
| LOS D (S.U.E.*)             |                      |            |
| Cable LOS B (S.U.E.*)       |                      |            |
|                             |                      |            |
|                             |                      |            |
| Cable LOS D (S.U.E.*)       | A /                  |            |
|                             |                      |            |
|                             | <ul> <li></li> </ul> |            |
|                             | • ¢                  |            |
| OS B (S.U.E.*)              | ·                    |            |
| OS C (S.U.E.*)              |                      |            |
| OS D (S.U.E.*)              |                      |            |
| Gas Line                    | A/0.00               | <u></u>    |
| -                           |                      |            |
|                             |                      |            |
| Manhole<br>Cleanout         |                      |            |
| wer Line                    | ۲                    |            |
|                             | A/S Society          | Sever      |
| Somer -                     |                      |            |
| Line LOS B (S.U.E.*)        |                      |            |
| Line LOS C (S.U.E.*)        |                      |            |
| Line LOS D (S.U.E.*)        | /11-                 |            |
|                             |                      |            |
|                             |                      |            |
| Basa                        | •                    |            |
| Base                        | · 🖸                  |            |
| Object                      | •                    |            |
| nal Box                     | . 3                  |            |
| U/G Line LOS B (S.U.E.*)    |                      |            |
| r, Gas, Oil                 |                      | ]          |
| orage Tank, Approx. Loc. —  |                      |            |
| r, Gas, Oil                 |                      | ]          |
| al Boring                   | •                    |            |
| OS A (S.U.E.*)              | œ                    |            |
| ording to Utility Records — | AATL                 | JR         |
| on                          | - E.O                | .I.        |
|                             |                      |            |

### HEET FIGURES

U-4758 OM SKEET CLUB RD TO I-40 RTH CAROLINA



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### APPENDIX A SOIL BORING LOGS

|            | ESP           |  |                         | FIELD BORING LOG   | BORING NO.                                 |
|------------|---------------|--|-------------------------|--|--|
| LOCA       |               | Approximate  | ely 43' south           | east of southeast corner of gas canopy   | B176-1                                     |
|            |               | Hand Auger and Direct Push<br>SAEDACCO<br>Robert Miller<br>Geoprobe 54DT |                         | O DATE FINISHED: 1/24/2022 TOTAL DEPT<br>er SAMPLE METHOD: Hand Auger / 4' Macrocore DEPTH TO GV | H: 10.0 ft                                 |
| DEPTH (ft) | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft)   | PID<br>READING<br>(ppm) | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION   | REMARKS                                    |
|            |               |  |                         | 0.0'-0.2' Topsoil H<br>0.3'-8.3' Red Sandy CLAY, Moist   | Hand Auger 0.0'-5.0'                       |
| _1         | S-1           | 1.0-1.5  | 0.1                     |  |  |
| 2          | S-2           | 2.0-2.5  | 0.2                     |  |  |
| <br>       | S-3           | 3.0-3.5  | 0.3                     |  |  |
| 4          | S-4           | 4.0-4.5  | 0.4                     |  |  |
| 5          | S-5           | 5.0-5.5  | 0.5                     | <br>  <br>   | Macrocore 5.0'-9.0'<br>Core Rec 3.5'/4.0'  |
| 6          | S-6           | 6.0-6.5  | 0.3                     |  |  |
| 7          | S-7           | 7.0-7.5  | 0.6                     |  |  |
| 8          | S-8           | 8.0-8.5  | 0.3                     | N           8.3'-10.0'         Reddish Brown and White Micaceous Silty CLAY, Moist         0     | Macrocore 9.0'-10.0'<br>Core Rec 1.0'/1.0' |
|            | S-9           | 9.0-9.5  | 0.4                     |  |  |
| <br>       |               |  |                         |  |  |
| <br>       |               |  |                         |  |  |
| 12         |               |  |                         |  |  |
| 13         |               |  |                         |  |  |
| <br>14     |               |  |                         |  |  |
| 15         |               |  |                         |  |  |

Parcel 176 Boring Logs B27-1 2/7/2022

|            | ESP           |                      |                         | FIE          | LD BORING LOG                                       |                        | BORING NO.                             |
|------------|---------------|----------------------|-------------------------|--------------|---|------------------------|--|
| PROJ       | ECT NAME:     | NCDOT U-             | 4758 Phase I            | 11           | PROJ. NO.: IS14.314                                 |                        | B176-2                                 |
| LOCA       | TION:         | Approximat           | tely 52' east o         | of southeast | corner of gas canopy                                |                        |  |
|            | OF BORING     |                      | Direct Pus<br>SAEDACC   |              | DATE STARTED: 1/24/2022<br>DATE FINISHED: 1/24/2022 | SHEET:<br>TOTAL DEPTH: |  |
| DRILL      |               |                      | Robert Mill             |              | SAMPLE METHOD: 4' Macrocore                         | DEPTH TO GW:           |  |
| DRILL      | RIG:          |                      | Geoprobe 54             | 4DT          | LOGGED BY: A. Roseman                               | COMMENT:               | Elev: 969.3'                           |
| DEPTH (ft) | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |              | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION    |                        | REMARKS                                |
|            |               |                      |                         | 0.0'-0.3'    | Topsoil   | Ma<br>Co               | re Rec 3.7'/4.0'                       |
|            | S-1           | 1.0-1.5              | 1.1                     | 0.3'-8.7'    | Red Silty CLAY, Moist                               |                        |  |
| 2          | S-2           | 2.0-2.5              | 0.9                     |              |   |                        |  |
| 3          | S-3           | 3.0-3.5              | 1.0                     |              |   |                        |  |
| 4          | S-4           | 4.0-4.5              | 1.3                     |              |   | Ma<br>Co               | re Rec 4.0'-8.0'                       |
| 5          | S-5           | 5.0-5.5              | 0.8                     |              |   |                        |  |
| _6         | S-6           | 6.0-6.5              | 0.6                     |              |   |                        | <u>_</u>                               |
| 7          | S-7           | 7.0-7.5              | 0.7                     |              |   |                        |  |
| 8          | S-8           | 8.0-8.5              | 1.1                     | 8.7'-10'     | Yellow-Brown Clayey SILT, Moist                     | Ma<br>Co               | crocore 8.0'-10.0'<br>re Rec 2.0'/2.0' |
| 9          | S-9           | 9.0-9.5              | 0.5                     |              |   |                        |  |
| 10         |               |                      |                         |              |   |                        |  |
|            |               |                      |                         |              |   |                        |  |
| 12         |               |                      |                         |              |   |                        |  |
| 13         |               |                      |                         |              |   |                        |  |
| 14         |               |                      |                         |              |   |                        |  |
|            |               |                      |                         |              |   |                        |  |
| 15         |               |                      |                         |              |   |                        |  |

Parcel 176 Boring Logs B27-2 2/7/2022

|             | ESP           |                      |                         | FIE        | LD BORING LOG                                       |                      | BORING NO.                               |
|-------------|---------------|----------------------|-------------------------|------------|---|----------------------|--|
| PROJ        | ECT NAME:     | NCDOT U-4            | 4758 Phase              | II         | PROJ. NO.: IS14.314                                 |                      | B176-3                                   |
|             |               |                      |                         |            | east corner of gas canopy                           |                      |  |
|             | OF BORING     | Hand                 | Auger and D<br>SAEDACC  |            | DATE STARTED: 1/24/2022<br>DATE FINISHED: 1/24/2022 | SHEET<br>TOTAL DEPTH |  |
| DRILL       | ER:           |                      | Robert Mill             |            | SAMPLE METHOD: Hand Auger/4' Macrocore              | DEPTH TO GW          | Dry ft                                   |
| DRILL       |               |                      | Geoprobe 54             | 4DT        | LOGGED BY: A. Roseman                               | COMMENT              | Elev: 969.7'                             |
| DEPTH (ft)  | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION    |                      | REMARKS                                  |
| -           |               |                      |                         | 0.0'-0.3'  | Concrete  | Ha                   | and Auger 0.0'-2.0'                      |
| <u>1</u>    | S-1           | 1.0-1.5              | 0.6                     | 0.3'-8.7'  | Red Sandy CLAY, Moist                               |                      |  |
| 2           | S-2           | 2.0-2.5              | 0.4                     |            |   |                      | acrocore 2.0'-4.0'<br>ore Rec 2.0'/2.0'  |
| 3           | S-3           | 3.0-3.5              | 0.4                     |            |   |                      |  |
| 4           | S-4           | 4.0-4.5              | 0.1                     |            |   |                      | acrocore 4.0'/8.0'<br>pre Rec 4.0'/4.0'  |
| 5           | S-5           | 5.0-5.5              | 0.5                     |            |   |                      |  |
| 6           | S-6           | 6.0-6.5              | 0.5                     |            |   |                      |  |
| 7           | S-7           | 7.0-7.5              | 0.4                     |            |   |                      |  |
| 8           | S-8           | 8.0-8.5              | 0.6                     | 8.7'-10.0' | Red Micaceous Silty CLAY, Moist                     |                      | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
| 9           | S-9           | 9.0-9.5              | 0.5                     |            | ·····   |                      |  |
| 10          |               |                      |                         |            |   |                      |  |
| - <u>11</u> |               |                      |                         |            |   |                      |  |
| 12          |               |                      |                         |            |   |                      |  |
| 13          |               |                      |                         |            |   |                      |  |
| 14          |               |                      |                         |            |   |                      |  |
|             |               |                      |                         |            |   |                      |  |
| 15          |               |                      |                         |            |   |                      |  |

Parcel 176 Boring Logs B27-3 2/7/2022

|              | FSP           |                      |                         | FIE        | LD BORIN                         | G LOG               |                              | BORING NO.                               |
|--------------|---------------|----------------------|-------------------------|------------|----------------------------------|---------------------|------------------------------|--|
| PRO          | JECT NAME:    | NCDOT U-             | -4758 Phase             |            |                                  | PROJ. NO.: IS14.314 |                              | B176-4                                   |
|              |               |                      |                         |            | east corner of gas canop         | ру                  |                              |  |
|              | OF BORING     |                      | Direct Pus              |            | DATE STARTED:                    |                     | SHEET:                       |  |
| DRIL<br>DRIL | LING FIRM:    |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED:<br>SAMPLE METHOD: |                     | TOTAL DEPTH:<br>DEPTH TO GW: |  |
|              | L RIG:        |                      | Geoprobe 54             |            | LOGGED BY:                       |                     |                              | Elev: 970.2'                             |
| (ft)         | щ             | н)<br>(ff)           | Ű                       |            |                                  |                     |                              |  |
| DEPTH (ft)   | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            |                                  | SSIFICATION AND     |                              | REMARKS                                  |
|              |               |                      |                         | 0.0'-0.3'  | Concrete                         |                     |                              | acrocore 0.0'-4.0'<br>ore Rec 3.3'/4.0'  |
| ·            |               |                      | 1.5                     | 0.3'-5.8'  | Red Sandy CLAY, M                | oist                |                              |  |
| _1           | S-1           | 1.0-1.5              | 1.5                     |            |                                  |                     |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
| 2            | S-2           | 2.0-2.5              | 0.7                     |            |                                  |                     |                              | -  |
| ! <u> </u>   |               |                      |                         |            |                                  |                     |                              |  |
| 3            | S-3           | 3.0-3.5              | 0.6                     |            |                                  |                     |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
|              | 6.4           | 40.45                | 0.5                     |            |                                  |                     |                              |  |
| _4           | S-4           | 4.0-4.5              | 0.5                     |            |                                  |                     |                              | acrocore 4.0'-8.0'<br>ore Rec 4.0'/4.0'  |
| •            |               |                      |                         |            |                                  |                     |                              |  |
| _5           | S-5           | 5.0-5.5              | 0.6                     |            |                                  |                     |                              |  |
| •            |               |                      |                         |            |                                  |                     |                              | <u>_</u>                                 |
| 6            | S-6           | 6.0-6.5              | 0.6                     | 5.8'-10.0' | Red Micaceous Clay               | ey SILT, Moist      |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
| 7            | S-7           | 7.0-7.5              | 0.9                     |            |                                  |                     |                              |  |
|              | 3-7           | 7.0-7.5              | 0.9                     |            |                                  |                     |                              |  |
| a            |               |                      |                         |            |                                  |                     |                              |  |
| 8            | S-8           | 8.0-8.5              | 0.8                     |            |                                  |                     |                              | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
|              |               |                      |                         |            |                                  |                     |                              |  |
| 9            | S-9           | 9.0-9.5              | 1.2                     |            |                                  |                     |                              |  |
| n            |               |                      |                         |            |                                  |                     |                              |  |
| 10           |               |                      |                         |            |                                  |                     |                              |  |
| • <u> </u>   |               |                      |                         |            |                                  |                     |                              |  |
| <b>!</b>     |               |                      |                         |            |                                  |                     |                              |  |
| _11          |               |                      |                         |            |                                  |                     |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
| 12           |               |                      |                         |            |                                  |                     |                              |  |
| <b>!</b>     |               |                      |                         |            |                                  |                     |                              |  |
| 13           |               |                      |                         |            |                                  |                     |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
| <b>!</b>     |               |                      | _                       |            |                                  |                     |                              |  |
| 14           |               |                      |                         |            |                                  |                     |                              |  |
|              |               |                      |                         |            |                                  |                     |                              |  |
| 15           |               |                      |                         |            |                                  |                     |                              |  |

Parcel 176 Boring Logs B27-4 2/7/2022

|            | ESP           |                      |                         | FIELD BORING LOG                                      | BORING NO.                               |
|------------|---------------|----------------------|-------------------------|---|--|
| PROJ       | ECT NAME:     | NCDOT U-4            | 4758 Phase              | I PROJ. NO.: IS14.314                                 | B176-5                                   |
|            |               |                      |                         | buthwest of southeast corner of gas canopy            |  |
|            | OF BORING     | Hand A               | Auger and D<br>SAEDACC  |   |  |
| DRILL      | ER:           |                      | Robert Mill             | er SAMPLE METHOD: Hand Auger/4' Macrocore DEPTH TO GW | : Dry ft                                 |
| DRILL      |               |                      | Geoprobe 54             | DT LOGGED BY: A. Roseman COMMENT                      | : Elev: 969.6                            |
| DEPTH (ft) | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION      | REMARKS                                  |
| •          |               |                      |                         | 0.0'-0.3' Concrete H                                  | and Auger 0.0'-1.5'                      |
| 1          | S-1           | 1.0-1.5              | 1.9                     | 0.3'-10.0' Red-Brown Sandy CLAY, Moist                |  |
| •          |               |                      |                         |   |  |
|            | 0.0           | 0.0.0.5              | 1.7                     |   | acrocore 1.5'-4.0'<br>ore Rec 2.5'/2.5'  |
| _2         | S-2           | 2.0-2.5              | 1.7                     | 2.0' Grading to Gray C                                | Die Rec 2.572.5                          |
| •          |               |                      |                         |   |  |
| 3          | S-3           | 3.0-3.5              | 1.0                     | 3.3' Grading to Yellow-Brown                          |  |
|            |               |                      |                         |   |  |
| 4          | S-4           | 4.0-4.5              | 0.5                     |   | acrocore 4.0'-8.0'<br>ore Rec 4.0'/4.0'  |
|            |               |                      |                         |   | 0'-5.0' Petroleum Odor                   |
| 5          | S-5           | 5.0-5.5              | 0.4                     | 4.<br>  |  |
| a          |               |                      |                         |   |  |
| 6          | S-6           | 6.0-6.5              | 0.7                     |   |  |
| •          |               |                      |                         |   |  |
| 7          | S-7           | 7.0-7.5              | 0.7                     |   |  |
| •          |               |                      |                         |   |  |
|            | 0.0           | 0.0.0.5              | 0.4                     |   |  |
| 8          | S-8           | 8.0-8.5              | 0.4                     |   | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
|            |               |                      |                         |   |  |
| 9          | S-9           | 9.0-9.5              | 1.0                     |   |  |
| •          |               |                      |                         |   |  |
| 10         |               |                      |                         |   |  |
|            |               |                      |                         |   |  |
| 11         |               |                      |                         |   |  |
|            |               |                      |                         |   |  |
| 12         |               |                      |                         |   |  |
| •          |               |                      |                         |   |  |
| 13         |               |                      |                         |   |  |
|            |               |                      |                         |   |  |
|            |               |                      |                         |   |  |
| 14         |               |                      |                         |   |  |
|            |               |                      |                         |   |  |
| 15         |               |                      |                         |   |  |

Parcel 176 Boring Logs B27-5 2/7/2022

|            | FSP            |                      |                         | FIE        | LD BORING LO   | G               |                          | BORING NO.                             |
|------------|----------------|----------------------|-------------------------|------------|--|-----------------|--------------------------|--|
| PRO        | ECT NAME:      | NCDOT U-             | 4758 Phase              |            | PROJ. NO   |                 |                          | B176-6                                 |
|            |                |                      |                         |            | east corner of building                                  |                 |                          | Biroo                                  |
|            | OF BORING      |                      | Direct Pus              |            | DATE STARTED: 1/24/2022                                  |                 | SHEET:                   |  |
|            | LING FIRM:     |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED: 1/24/2022                                 |                 | TOTAL DEPTH:             |  |
|            | _ER:<br>_ RIG: |                      | Geoprobe 54             |            | SAMPLE METHOD: <u>4' Macroco</u><br>LOGGED BY: A. Rosema |                 | DEPTH TO GW:<br>COMMENT: |  |
|            |                |                      |                         |            |  |                 | COMMENT.                 |  |
| DEPTH (ft) | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | FIELD CLASSIFICATIO<br>PHYSICAL DESCRIF                  |                 |                          | REMARKS                                |
|            |                |                      |                         | 0.0'-0.3'  | Concrete   |                 |                          | re Rec 4.0'/4.0'                       |
|            |                |                      | 0.7                     | 0.3'-5.8'  | Dark Gray Sandy CLAY, Moist                              |                 |                          |  |
| _1         | S-1            | 1.0-1.5              | 0.7                     |            |  |                 |                          |  |
| -          |                |                      |                         | 1.5'       | Grading to Red   |                 |                          |  |
| 2          | S-2            | 2.0-2.5              | 0.4                     |            |  |                 |                          |  |
| 3          | S-3            | 3.0-3.5              | 0.5                     |            |  |                 |                          |  |
|            |                |                      |                         |            |  |                 |                          |  |
| 4          | S-4            | 4.0-4.5              | 0.5                     |            |  |                 | Ma<br>Co                 | re Rec 4.0'-8.0'                       |
| 5          | S-5            | 5.0-5.5              | 0.4                     | 5.8'-10.0' | Orange and Red Micaceous Cla                             | vey SILT, Moist |                          |  |
| 6          | S-6            | 6.0-6.5              | 0.6                     |            | <u> </u>   |                 |                          |  |
| <br>7      | S-7            | 7.0-7.5              | 0.5                     |            |  |                 |                          |  |
| <br>8      | S-8            | 8.0-8.5              | 0.9                     |            |  |                 | Ma                       | icrocore 8.0'-10.0<br>re Rec 2.0'/2.0' |
| •          |                |                      |                         |            |  |                 |                          | Te Rec 2.072.0                         |
| 9          | S-9            | 9.0-9.5              | 1.6                     | 9.0'       | Grading to White   |                 |                          |  |
| 10         |                |                      |                         |            |  |                 |                          |  |
| <br>11     |                |                      |                         |            |  |                 |                          |  |
| •          |                |                      |                         |            |  |                 |                          |  |
| 12         |                |                      |                         |            |  |                 |                          |  |
| <br>13     |                |                      |                         |            |  |                 |                          |  |
| <u> </u>   |                |                      |                         |            |  |                 |                          |  |
| 14         |                |                      |                         |            |  |                 |                          | •                                      |
|            |                |                      |                         |            |  |                 |                          |  |
| 15         |                |                      |                         |            |  |                 |                          |  |

Parcel 176 Boring Logs B27-6 2/7/2022

|                | FSP           |                      |                         | FIE        |  | OG            |                              | BORING NO.                            |
|----------------|---------------|----------------------|-------------------------|------------|--|---------------|------------------------------|---------------------------------------|
| PRO            | JECT NAME:    | NCDOT U-             | -4758 Phase             |            |  | IO.: IS14.314 |                              | B176-7                                |
| LOCA           | TION:         | Approxima            |                         |            | nwest corner of building                           |               |                              |                                       |
|                | OF BORING     |                      | Direct Pus              |            | DATE STARTED: 1/24/202                             |               | SHEET:                       |                                       |
| DRILI<br>DRILI | LING FIRM:    |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED: 1/24/202<br>SAMPLE METHOD: 4' Macro |               | TOTAL DEPTH:<br>DEPTH TO GW: |                                       |
|                | L RIG:        |                      | Geoprobe 54             |            | LOGGED BY: A. Roser                                |               | COMMENT:                     |                                       |
| (Ħ)            | ш             | ц( <del>I</del> )    | Ŭ                       |            |  |               |                              |                                       |
| DEPTH (ft)     | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | FIELD CLASSIFICA<br>PHYSICAL DESCF                 |               |                              | REMARKS                               |
|                |               |                      |                         | 0.0'-0.3'  | Concrete   |               |                              | crocore 0.0'-4.0'<br>re Rec 3.5'/4.0' |
| -              | <b>0</b> /    | 1015                 | 0.4                     | 0.3'-7.7'  | Red-Brown and Gray Sandy C                         | CLAY, Moist   |                              |                                       |
| _1             | S-1           | 1.0-1.5              | 0.4                     |            |  |               |                              |                                       |
|                |               |                      |                         | 1.9'       | Grading to Brown-Red                               |               |                              |                                       |
| 2              | S-2           | 2.0-2.5              |                         |            |  |               |                              |                                       |
| a              |               |                      |                         |            |  |               |                              |                                       |
| 3              | S-3           | 3.0-3.5              | 0.4                     |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              |                                       |
| ·              |               |                      |                         |            |  |               |                              |                                       |
| _4             | S-4           | 4.0-4.5              | 0.5                     |            |  |               | Ma<br>Co                     | crocore 4.0-8.0'<br>re Rec 4.0'/4.0'  |
|                |               |                      |                         |            |  |               |                              |                                       |
| 5              | S-5           | 5.0-5.5              | 0.3                     |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              | <u>-</u>                              |
| 6              | S-6           | 6.0-6.5              | 0.3                     |            |  |               |                              |                                       |
| -0             |               | 0.0-0.0              | 0.0                     |            |  |               |                              |                                       |
| •              |               |                      |                         |            |  |               |                              |                                       |
| _7             | S-7           | 7.0-7.5              | 0.4                     |            |  |               |                              |                                       |
| •              |               |                      |                         | 7.7'-10.0' | Brown-Red Silty CLAY, Moist                        |               |                              |                                       |
| 8              | S-8           | 8.0-8.5              | 0.5                     |            |  |               |                              | crocore 8.0'-10.0'                    |
| •              |               |                      |                         |            |  |               | Co                           | re Rec 2.0'/2.0'                      |
|                | S 0           | 0.0.0.5              | 0.3                     |            |  |               |                              |                                       |
| 9              | S-9           | 9.0-9.5              | 0.3                     |            |  |               |                              |                                       |
| <u> </u>       |               |                      |                         |            |  |               |                              |                                       |
| 10             |               |                      |                         |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              |                                       |
| 11             |               |                      |                         |            |  |               |                              |                                       |
| •              |               |                      |                         |            |  |               |                              |                                       |
| 40             |               |                      |                         |            |  |               |                              |                                       |
| 12             |               |                      |                         |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              |                                       |
| 13             |               |                      |                         |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              |                                       |
| 14             |               |                      |                         |            |  |               |                              |                                       |
| <b>-</b>       |               |                      |                         |            |  |               |                              |                                       |
|                |               |                      |                         |            |  |               |                              |                                       |
| 15             |               |                      |                         |            |  |               |                              |                                       |

Parcel 176 Boring Logs B27-7 2/7/2022

|                | FSP            |                      |                         | FIE        | LD BORIN                     | G LOG                     |                         | BORING NO.                              |
|----------------|----------------|----------------------|-------------------------|------------|------------------------------|---------------------------|-------------------------|---|
| PRO.           | IECT NAME:     | NCDOT U-             | 4758 Phase              | II         |                              | PROJ. NO.: IS14.314       |                         | B176-8                                  |
|                |                |                      |                         |            | est corner of building       | <u></u>                   |                         |   |
|                | OF BORING      |                      | Direct Pus              |            | DATE STARTED:                |                           | SHEET                   |   |
| DRILI<br>DRILI | LING FIRM:     |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED:               |                           |                         |   |
|                | _ER:<br>_ RIG: |                      | Geoprobe 54             |            | SAMPLE METHOD:<br>LOGGED BY: |                           | DEPTH TO GW:<br>COMMENT | Elev: 971.5'                            |
|                |                |                      | -                       |            |                              |                           |                         |   |
| DEPTH (ft)     | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | PHYSICA                      | SSIFICATION AND           |                         | REMARKS                                 |
|                |                |                      |                         | 0.0'-0.3'  | Concrete                     |                           |                         | acrocore 0.0'-4.0'<br>ore Rec 4.0'/4.0' |
|                | 0.4            | 4045                 | 0.9                     | 0.3'-5.6'  | Red Silty CLAY, Mois         | st                        |                         |   |
| _1             | S-1            | 1.0-1.5              | 0.9                     |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 2              | S-2            | 2.0-2.5              | 0.3                     |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 3              | S-3            | 3.0-3.5              | 0.5                     |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 4              | S-4            | 4.0-4.5              | 0.3                     |            |                              |                           | Ma<br>Co                | acrocore 4.0'-8.0'<br>ore Rec 4.0'/4.0' |
|                |                |                      |                         |            |                              |                           |                         |   |
| 5              | S-5            | 5.0-5.5              | 0.4                     |            |                              |                           |                         |   |
|                |                |                      |                         | 5.6'-10.0' | Red and Orange Mic           | aceous Clayey SILT, Moist |                         |   |
| 6              | S-6            | 6.0-6.5              | 0.7                     |            |                              |                           |                         |   |
| _0             | 3-0            | 0.0-0.5              | 0.7                     |            |                              |                           |                         |   |
| •              |                |                      |                         |            |                              |                           |                         |   |
| 7              | S-7            | 7.0-7.5              | 0.5                     |            |                              |                           |                         |   |
| ·              |                |                      |                         |            |                              |                           |                         |   |
| 8              | S-8            | 8.0-8.5              | 0.7                     |            |                              |                           | Ma                      | acrocore 8.0'-10.0'                     |
| -              |                |                      |                         |            |                              |                           |                         | ore Rec 2.0'/2.0'                       |
| ·              |                |                      |                         |            |                              |                           |                         | =                                       |
| 9              | S-9            | 9.0-9.5              | 1.1                     | 9.0'       | Grading to Yellow            |                           |                         |   |
| •              |                |                      |                         |            |                              |                           |                         |   |
| 10             |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 11             |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 12             |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 13             |                |                      |                         |            |                              |                           |                         |   |
| <b>-</b>       |                |                      |                         |            |                              |                           |                         |   |
|                |                |                      |                         |            |                              |                           |                         |   |
| 14             |                |                      |                         |            |                              |                           |                         |   |
| ľ              |                |                      |                         |            |                              |                           |                         |   |
| 15             |                |                      |                         |            |                              |                           |                         |   |

Parcel 176 Boring Logs B27-8 2/7/2022

|                | FSP                       |                      |                         | FIE          | LD BORIN                        | G LOG                             |                        | BORING NO.                              |
|----------------|---------------------------|----------------------|-------------------------|--------------|---------------------------------|-----------------------------------|------------------------|---|
| PRO            | JECT NAME:                | NCDOT U-             | 4758 Phase              |              |                                 | PROJ. NO.: IS14.314               |                        | B176-9                                  |
| LOC            | ATION:                    | Approxima            | tely 107' feet          | west of sout | hwest corner of building        |                                   |                        |   |
|                | E OF BORING<br>LING FIRM: |                      | Direct Pus<br>SAEDACC   |              | DATE STARTED:<br>DATE FINISHED: |                                   | SHEET:<br>TOTAL DEPTH: |   |
| DRIL           |                           |                      | Robert Mill             |              | SAMPLE METHOD:                  |                                   | DEPTH TO GW:           |   |
|                | L RIG:                    |                      | Geoprobe 54             | 4DT          | LOGGED BY:                      |                                   |                        | Elev: 972.5'                            |
| DEPTH (ft)     | SAMPLE<br>NO.             | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |              |                                 | SSIFICATION AND<br>AL DESCRIPTION |                        | REMARKS                                 |
|                |                           |                      |                         | 0.0'-0.3'    | Concrete                        |                                   | Ma                     | acrocore 0.0'-4.0'<br>re Rec 4.0'/4.0'  |
|                | <b>.</b>                  | 1015                 | 0.0                     | 0.3'-5.6'    | Red Silty CLAY, Moi             | st                                |                        |   |
| _1             | S-1                       | 1.0-1.5              | 0.6                     |              |                                 |                                   |                        |   |
| •              |                           |                      |                         |              |                                 |                                   |                        |   |
| 2              | S-2                       | 2.0-2.5              | 0.8                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 3              | S-3                       | 3.0-3.5              | 0.4                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 4              | S-4                       | 4.0-4.5              | 0.4                     |              |                                 |                                   | Ma                     | acrocore 4.0'-8.0'                      |
| - <del>-</del> |                           | 4.0 4.0              | 0.1                     |              |                                 |                                   |                        | re Rec 4.0'/4.0'                        |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 5              | S-5                       | 5.0-5.5              | 0.3                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         | 5.6'-10.0'   | Orange-Red Micace               | ous Clayey SILT, Moist            |                        |   |
| 6              | S-6                       | 6.0-6.5              | 0.5                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 7              | S-7                       | 7.0-7.5              | 0.5                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 8              | S-8                       | 8.0-8.5              | 0.6                     |              |                                 |                                   |                        | acrocore 8.0'-10.0'<br>re Rec 2.0'/2.0' |
| •              |                           |                      |                         |              |                                 |                                   |                        |   |
| 9              | S-9                       | 9.0-9.5              | 0.5                     |              |                                 |                                   |                        |   |
|                |                           |                      |                         |              |                                 |                                   |                        |   |
| 10             |                           |                      |                         |              |                                 |                                   |                        |   |
| <u> </u>       |                           |                      | +                       |              |                                 |                                   |                        |   |
| 11             |                           |                      |                         |              |                                 |                                   |                        |   |
| <b> </b>       |                           |                      | 1                       |              |                                 |                                   |                        |   |
| <u> </u>       |                           |                      |                         |              |                                 |                                   |                        |   |
| 12             |                           |                      | +                       |              |                                 |                                   |                        |   |
| [ <u> </u>     |                           |                      |                         |              |                                 |                                   |                        |   |
| 13             |                           |                      | 1                       |              |                                 |                                   |                        |   |
| ! <u> </u>     |                           |                      |                         |              |                                 |                                   |                        |   |
| 14             |                           |                      |                         |              |                                 |                                   |                        |   |
| <b> </b>       |                           |                      |                         |              |                                 |                                   |                        |   |
| <u> </u>       |                           |                      |                         |              |                                 |                                   |                        |   |
| 15             |                           |                      |                         |              |                                 |                                   |                        |   |

Parcel 176 Boring Logs B27-9 2/7/2022

|            | FSP           |                      |                         | FIE         | LD BORING LOG   |                              | BORING NO.                               |
|------------|---------------|----------------------|-------------------------|-------------|---|------------------------------|--|
| PROJ       | ECT NAME:     | NCDOT U-             | 4758 Phase              | II          | PROJ. NO.: IS14.314                                     |                              | B176-10                                  |
| LOCA       | TION:         | Approximat           | tely 39' north          | from southw | est corner of diesel canopy                             |                              |  |
|            | OF BORING     |                      | Direct Pus<br>SAEDACC   |             | DATE STARTED: 1/25/2022                                 |                              |  |
| DRILL      | LING FIRM:    |                      | Robert Mill             |             | DATE FINISHED: 1/25/2022<br>SAMPLE METHOD: 4' Macrocore | TOTAL DEPTH:<br>DEPTH TO GW: |  |
| DRILL      |               |                      | Geoprobe 54             |             | LOGGED BY: A. Roseman                                   |                              | Elev: 971.3'                             |
| DEPTH (ft) | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |             | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION        |                              | REMARKS                                  |
| ā          | 0             | S D                  | 2                       | 0.0'-0.3'   | Concrete  | Ma                           | acrocore 0.0'-4.0'                       |
| -          |               |                      |                         | 0.3'-6.2'   |   | Co                           | ore Rec 4.0'-4.0'                        |
|            | S-1           | 1.0-1.5              | 0.5                     | 0.3-0.2     | Red Silty CLAY, Moist                                   |                              |  |
| 2          | S-2           | 2.0-2.5              | 0.4                     |             |   |                              |  |
| 3          | S-3           | 3.0-3.5              | 0.5                     |             |   |                              |  |
| 4          | S-4           | 4.0-4.5              | 0.7                     |             |   |                              | acrocore 4.0'-8.0'                       |
|            |               |                      |                         |             |   |                              | ore Rec 4.0'-4.0'                        |
| 5          | S-5           | 5.0-5.5              | 0.8                     |             |   |                              |  |
| 6          | S-6           | 6.0-6.5              | 0.7                     |             |   |                              |  |
| 7          | S-7           | 7.0-7.5              | 0.8                     | 6.2'-10.0'  | Red and Orange Micaceous Clayey SILT, Mois              |                              |  |
| <br>8      | S-8           | 8.0-8.5              | 0.7                     |             |   | Ma                           | acrocore 8.0'-10.0'<br>pre Rec 2.0'/2.0' |
| •          |               |                      |                         |             |   |                              |  |
| 9          | S-9           | 9.0-9.5              | 1.1                     | 8.9'        | Grading to Black  |                              |  |
| 10         |               |                      |                         |             |   |                              |  |
|            |               |                      |                         |             |   |                              |  |
|            |               |                      |                         |             |   |                              |  |
| 12         |               |                      |                         |             |   |                              |  |
| 13         |               |                      |                         |             |   |                              |  |
| <br>       |               |                      |                         |             |   |                              |  |
| ·          |               |                      |                         |             |   |                              |  |
| 15         |               |                      |                         |             |   |                              |  |
| 13         |               |                      |                         |             |   |                              |  |

Parcel 176 Boring Logs B27-10 2/7/2022

|            | FSP                       |                      |                         | FIE           | LD BORING LOG                                       |                        | BORING NO.                              |
|------------|---------------------------|----------------------|-------------------------|---------------|---|------------------------|---|
| PRO        | JECT NAME:                | NCDOT U-             | -4758 Phase             |               | PROJ. NO.: IS14.314                                 |                        | B176-11                                 |
| LOC        | ATION:                    | Approxima            | tely 42' south          | east of north | neast corner of diesel canopy                       |                        |   |
|            | E OF BORING<br>LING FIRM: |                      | Direct Pus<br>SAEDACC   |               | DATE STARTED: 1/24/2022<br>DATE FINISHED: 1/24/2022 | SHEET:<br>TOTAL DEPTH: |   |
| DRIL       |                           |                      | Robert Mill             |               | SAMPLE METHOD: 4' Macrocore                         | DEPTH TO GW:           |   |
|            | L RIG:                    |                      | Geoprobe 54             | 4DT           | LOGGED BY: A. Roseman                               |                        | Elev: 970.8'                            |
| DEPTH (ft) | SAMPLE<br>NO.             | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |               | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION    |                        | REMARKS                                 |
| •          |                           |                      |                         | 0.0'-0.3'     | Concrete  | Ma                     | acrocore 0.0'-4.0'<br>pre Rec 4.0'/4.0' |
| ·          | -                         |                      |                         | 0.3'-5.3'     | Red Silty CLAY, Moist                               |                        | ne Rec 4.074.0                          |
| _1         | S-1                       | 1.0-1.5              | 0.9                     |               |   |                        |   |
|            |                           |                      |                         |               |   |                        |   |
| _2         | S-2                       | 2.0-2.5              | 1.9                     |               |   |                        |   |
| •          |                           |                      |                         |               |   |                        |   |
| 3          | S-3                       | 3.0-3.5              | 1.3                     |               |   |                        |   |
| m          |                           |                      |                         |               |   |                        |   |
| 4          | S-4                       | 4.0-4.5              | 2.1                     |               |   | Ma                     | acrocore 4.0'-8.0'                      |
| -4         | 0-4                       | 4.0-4.3              | 2.1                     |               |   | Co                     | pre Rec 4.0'/4.0'                       |
| •          |                           |                      |                         |               |   |                        |   |
| _5         | S-5                       | 5.0-5.5              | 1.9                     | 5.3'-10.0'    | Red-Brown Micaceous Clayey SILT, Moist              |                        |   |
|            |                           |                      |                         |               |   |                        |   |
| 6          | S-6                       | 6.0-6.5              | 2.0                     |               |   |                        |   |
| •          |                           |                      |                         |               |   |                        |   |
| 7          | S-7                       | 7.0-7.5              | 1.9                     |               |   |                        |   |
|            |                           |                      |                         |               |   |                        |   |
| 8          | S-8                       | 8.0-8.5              | 3.0                     | 8.0'          | Grading to Yellow                                   | M                      | acrocore 8.0'-10.0'                     |
| _0<br>     | 5-0                       | 8.0-8.5              | 3.0                     | 8.0           |   | Co                     | ore Rec 2.0'/2.0'                       |
| •          |                           |                      |                         |               |   |                        |   |
| 9          | S-9                       | 9.0-9.5              | 3.2                     |               |   |                        |   |
| •          |                           |                      |                         |               |   |                        |   |
| 10         |                           |                      |                         |               |   |                        |   |
| •          |                           |                      |                         |               |   |                        |   |
| 11         |                           |                      |                         |               |   |                        |   |
|            |                           |                      |                         |               |   |                        |   |
| 12         |                           |                      |                         |               |   |                        |   |
| <u> </u>   |                           |                      |                         |               |   |                        |   |
|            |                           |                      |                         |               |   |                        |   |
| 13         |                           |                      |                         |               |   |                        |   |
| <b>F</b>   |                           |                      |                         |               |   |                        |   |
| 14         |                           |                      |                         |               |   |                        |   |
| <u> </u>   |                           |                      |                         |               |   |                        |   |
| 15         |                           |                      |                         |               |   |                        |   |
|            | 1                         | 1                    | 1                       | 1             |   | I                      |   |

Parcel 176 Boring Logs B27-11 2/7/2022

|            | FCP                |                      |                               | FIF        | LD BORING LOG                                    |             | BORING NO.           |
|------------|--------------------|----------------------|-------------------------------|------------|--|-------------|----------------------|
|            |                    | NODOTU               | 1750 Diana                    |            |  |             | D176 10              |
|            |                    |                      | -4758 Phase<br>Itely 35' west |            | PROJ. NO.: IS14.314                              |             | B176-12              |
|            | TION:<br>OF BORING |                      | Direct Pus                    |            | DATE STARTED: 1/25/2022                          | SHEE        | Γ: 1 of 1            |
|            | LING FIRM:         |                      | SAEDACC                       |            | DATE FINISHED: 1/25/2022                         | TOTAL DEPTH |                      |
| DRILL      |                    |                      | Robert Mill                   | er         | SAMPLE METHOD: 4' Macrocore                      | DEPTH TO GW |                      |
| DRILL      | _ RIG:             |                      | Geoprobe 54                   | 4DT        | LOGGED BY: A. Roseman                            | COMMEN      | Γ: Elev: 970.4'      |
| (ft)       | щ                  | SAMPLE<br>DEPTH (ft) | ŮZ (                          |            |  |             |                      |
| DEPTH (ft) | SAMPLE<br>NO.      | MPI                  | PID<br>READING<br>(ppm)       |            | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION |             | REMARKS              |
| DEF        | AS -               | SA<br>DEF            | RE                            |            |  |             |                      |
|            |                    |                      |                               | 0.0'-0.3'  | Concrete   |             | lacrocore 0.0'-4.0'  |
| • ———      |                    |                      |                               | 0.3'-5.6'  | Red Silty CLAY, Moist                            | C           | core Rec 4.0'/4.0'   |
| 1          | S-1                | 1.0-1.5              | 0.6                           |            |  |             |                      |
| •          |                    |                      |                               |            |  |             |                      |
|            |                    |                      | 0.7                           |            |  |             |                      |
| 2          | S-2                | 2.0-2.5              | 0.7                           |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| 3          | S-3                | 3.0-3.5              | 0.5                           |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| •          |                    |                      |                               |            |  |             |                      |
| 4          | S-4                | 4.0-4.5              | 0.3                           |            |  |             | lacrocore 4.0'-8.0'  |
| •          |                    |                      |                               |            |  | C           | ore Rec 4.0'/4.0'    |
| ;          | 0.5                |                      |                               |            |  |             |                      |
| _5         | S-5                | 5.0-5.5              | 0.5                           |            |  |             |                      |
|            |                    |                      |                               | 5.6'-10.0' | Orange Micaceous Clayey SILT, Moist              |             |                      |
| 6          | S-6                | 6.0-6.5              | 0.8                           |            |  |             |                      |
| - Ŭ        |                    |                      |                               |            |  |             |                      |
| •          |                    |                      |                               |            |  |             |                      |
| 7          | S-7                | 7.0-7.5              | 0.5                           |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
|            |                    |                      | 0.7                           |            |  |             |                      |
| 8          | S-8                | 8.0-8.5              | 0.7                           | 8.0'       | Grading to Yellow                                |             | lacrocore 8.0'-10.0' |
|            |                    |                      |                               |            |  |             |                      |
| 9          | S-9                | 9.0-9.5              | 1.2                           |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| •          |                    |                      |                               |            |  |             |                      |
| 10         |                    |                      |                               |            |  |             |                      |
| ·          |                    |                      |                               |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| 11         |                    |                      |                               |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| 12         |                    |                      |                               |            |  |             |                      |
|            |                    |                      | _                             | İ          |  |             |                      |
| ·          |                    |                      |                               |            |  |             |                      |
| 13         |                    |                      |                               |            |  |             |                      |
|            |                    |                      | _                             |            |  |             |                      |
|            |                    |                      |                               |            |  |             |                      |
| 14         |                    |                      |                               |            |  |             |                      |
| [ <u> </u> |                    |                      |                               |            |  |             |                      |
| 15         |                    |                      |                               |            |  |             |                      |

Parcel 176 Boring Logs B27-12 2/7/2022

|                | FSP            |                      |                         | FIE          | LD BORING LOG   |                        | BORING NO.                               |  |  |
|----------------|----------------|----------------------|-------------------------|--------------|---|------------------------|--|--|--|
| PRO.           | IECT NAME:     | NCDOT U-             | 4758 Phase              | II           | PROJ. NO.: IS14.314   |                        | B176-13                                  |  |  |
| LOCA           | TION:          | Approximat           | tely 15' north          | from the nor | thwest corner of diesel canopy                                      |                        |  |  |  |
|                | OF BORING      | Hand                 | Auger and D             |              | DATE STARTED: 1/24/2022   | SHEET                  |  |  |  |
| DRILI<br>DRILI | LING FIRM:     |                      | SAEDACC<br>Robert Mill  |              | DATE FINISHED: <u>1/24/2022</u>                                     | TOTAL DEPTH            |  |  |  |
|                | _ER:<br>_ RIG: |                      | Geoprobe 54             |              | SAMPLE METHOD: Hand Auger and 4' Macrocore<br>LOGGED BY: A. Roseman | DEPTH TO GW<br>COMMENT | : Dry ft<br>: Elev: 969.2'               |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| DEPTH (ft)     | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |              | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION                    | PHYSICAL DESCRIPTION   |  |  |  |
|                |                |                      |                         | 0.0'-0.3'    | Concrete  | H                      | and Auger 0.0'-5.0'                      |  |  |
| 1              | S-1            | 1.0-1.5              | 43.7                    | 0.3'-4.7'    | Gray and Black Silty CLAY, Moist                                    | 0.                     | 5'-1.5' petroleum odor                   |  |  |
|                | 5-1            | 1.0-1.5              | 43.7                    |              |   |                        |  |  |  |
| 2              | S-2            | 2.0-2.5              | 3.8                     | 1.8'         | Grading to Red  |                        |  |  |  |
| -              |                |                      |                         |              |   |                        |  |  |  |
| 3              | S-3            | 3.0-3.5              | 0.6                     |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 4              | S-4            | 4.0-4.5              | 3.6                     |              |   |                        |  |  |  |
|                |                |                      |                         | 4.7'-10.0'   | Red Micaceous Clayey SILT, Moist                                    |                        |  |  |  |
| 5              | S-5            | 5.0-5.5              | 1.3                     |              |   | М                      | acrocore 5.0'-9.0'                       |  |  |
|                |                |                      |                         |              |   | C                      | ore Rec 4.0'/4.0'                        |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 6              | S-6            | 6.0-6.5              | 1.1                     |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 7              | S-7            | 7.0-7.5              | 0.9                     |              |   |                        |  |  |  |
| -              |                |                      |                         | 7.3'         | Grading to Yellow-Brown   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 8              | S-8            | 8.0-8.5              | 3.2                     |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 9              | S-9            | 9.0-9.5              | 1.6                     |              |   |                        | acrocore 9.0'-10.0'<br>ore Rec 1.0'/1.0' |  |  |
| ·              |                |                      |                         |              |   |                        |  |  |  |
| 10             |                |                      |                         |              |   |                        |  |  |  |
| <b>-</b>       |                |                      |                         |              |   |                        |  |  |  |
| . 11           |                |                      |                         |              |   |                        | e  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| ! <u> </u>     |                |                      |                         |              |   |                        |  |  |  |
| 12             |                |                      |                         |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 13             |                |                      |                         |              |   |                        |  |  |  |
| -              |                |                      |                         |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 14             |                |                      |                         |              |   |                        |  |  |  |
|                |                |                      |                         |              |   |                        |  |  |  |
| 15             |                |                      |                         |              |   |                        |  |  |  |

Parcel 176 Boring Logs B27-13 2/7/2022

|            | FSP                |                      |                         | FIE           | LD BORING LOG   |                              | BORING NO.                             |
|------------|--------------------|----------------------|-------------------------|---------------|---|------------------------------|--|
| PROJ       |                    | NCDOT U-             | 4758 Phase              |               | PROJ. NO.: IS14.3                                       | 14                           | B176-14                                |
| LOCA       | TION:              | Approx. 45           | ' north from e          | edge of paver | ment from the middle of the fourth entrance of          | off of Norcross              |  |
|            | OF BORING          |                      | Direct Pus              |               | DATE STARTED: 1/25/2022                                 | SHEET:                       |  |
| DRILL      | _ING FIRM:<br>_ER: | Robert Miller        |                         |               | DATE FINISHED: 1/25/2022<br>SAMPLE METHOD: 4' Macrocore | TOTAL DEPTH:<br>DEPTH TO GW: |  |
| DRILL      |                    |                      | Geoprobe 54DT           |               | LOGGED BY: A. Roseman                                   | COMMENT:                     |  |
| DEPTH (ft) | SAMPLE<br>NO.      | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |               | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION        |                              | REMARKS                                |
| DEI        | SA                 | S.∕<br>DEI           | RE<br>(                 |               |   |                              |  |
| •          |                    |                      |                         | 0.0'-0.3'     | Concrete  |                              | crocore 0.0'-4.0'<br>re Rec 4.0'/4.0'  |
| 1          | S-1                | 1.0-1.5              | 1.1                     | 0.3'-10.0'    | Red Silty CLAY, Moist                                   |                              |  |
|            |                    |                      |                         |               |   |                              |  |
| 2          | S-2                | 2.0-2.5              | 1.0                     |               |   |                              |  |
| 3          | S-3                | 3.0-3.5              | 0.8                     |               |   |                              |  |
| •          |                    |                      |                         |               |   |                              |  |
| 4          | S-4                | 4.0-4.5              | 0.6                     |               |   | Ma<br>Co                     | crocore 4.0'-8.0'<br>re Rec 4.0'/4.0'  |
| 5          | S-5                | 5.0-5.5              | 1.1                     |               |   |                              |  |
| 6          | S-6                | 6.0-6.5              | 0.8                     |               |   |                              |  |
| 7          | S-7                | 7.0-7.5              | 1.6                     |               |   |                              |  |
| <br>8      | S-8                | 8.0-8.5              | 1.1                     |               |   |                              | crocore 8.0'-10.0'<br>re Rec 2.0'/2.0' |
| 9          | S-9                | 9.0-9.5              | 1.2                     | 8.8'          | Grading to White  |                              |  |
| 10         |                    |                      |                         |               |   |                              |  |
| <br>11     |                    |                      |                         |               |   |                              |  |
| 12         |                    |                      |                         |               |   |                              |  |
| - <u>'</u> |                    |                      |                         |               |   |                              |  |
| 13         |                    |                      |                         |               |   |                              |  |
| 14         |                    |                      |                         |               |   |                              |  |
| 15         |                    |                      |                         |               |   |                              |  |

Parcel 176 Boring Logs B27-14 2/7/2022

|            | FSP            |                      |                            | FIE       | LD BORING                          | LOG                          |              | BORING NO.                               |
|------------|----------------|----------------------|----------------------------|-----------|------------------------------------|------------------------------|--------------|--|
| PRO        | JECT NAME:     | NCDOT U-             | -4758 Phase                |           |                                    | ROJ. NO.: IS14.314           |              | B176-15                                  |
|            | ATION:         |                      | tely 100' wes              |           |                                    | 1014.014                     |              |  |
|            | OF BORING      |                      | Direct Pus                 |           | DATE STARTED: 1/2                  |                              | SHEET:       |  |
|            | LING FIRM:     |                      | SAEDACC                    |           | DATE FINISHED: 1/2                 |                              | TOTAL DEPTH: |  |
|            | LER:<br>L RIG: |                      | Robert Mill<br>Geoprobe 54 |           | SAMPLE METHOD: 4'<br>LOGGED BY: A. |                              | DEPTH TO GW: | Dry ft<br>Elev: 970.1'                   |
| _          | 1              | a a fi               | -                          |           |                                    | Ruseman                      |              | Liev. 970.1                              |
| DEPTH (ft) | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm)    |           | PHYSICAL I                         | IFICATION AND<br>DESCRIPTION |              | REMARKS                                  |
|            |                |                      |                            | 0.0'-0.3' | Concrete                           |                              |              | acrocore 0.0'-4.0'<br>ore Rec 4.0'/4.0'  |
| ·          |                |                      |                            | 0.3'-6.3' | Dark Gray Silty CLAY, N            | loist                        |              |  |
| _1         | S-1            | 1.0-1.5              | 0.9                        |           |                                    |                              |              |  |
|            |                |                      |                            | 1.8'      | Grading to Red                     |                              |              |  |
| 2          | S-2            | 2.0-2.5              | 0.6                        | 1.0       | Grading to rice                    |                              |              |  |
| •          |                |                      |                            |           |                                    |                              |              |  |
| 3          | S-3            | 3.0-3.5              | 0.5                        |           |                                    |                              |              |  |
| _3         | 5-5            | 3.0-3.3              | 0.5                        |           |                                    |                              |              |  |
| ·          |                |                      |                            |           |                                    |                              |              |  |
| 4          | S-4            | 4.0-4.5              | 0.4                        |           |                                    |                              | Ma           | acrocore 4.0'-8.0'                       |
|            |                |                      |                            |           |                                    |                              |              | ore Rec 4.0'/4.0'                        |
| 5          | S-5            | 5.0-5.5              | 0.4                        |           |                                    |                              |              |  |
| - 5        | 5-5            | 5.0-5.5              | 0.4                        |           |                                    |                              |              |  |
|            |                |                      |                            |           |                                    |                              |              | <b>-</b>                                 |
| 6          | S-6            | 6.0-6.5              | 0.3                        |           |                                    | <b>- - - - -</b>             |              |  |
| -          |                |                      |                            | 6.3'-9.3' | Red Micaceous Clay SI              | _ I , MOISt                  |              |  |
| 7          | S-7            | 7.0-7.5              | 0.2                        |           |                                    |                              |              |  |
|            |                | 1.0 1.0              | 0.2                        |           |                                    |                              |              |  |
| •          |                |                      |                            |           |                                    |                              |              |  |
| 8          | S-8            | 8.0-8.5              | 0.7                        |           |                                    |                              |              | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
| ·          |                |                      |                            | 8.7'      | Grading to Orange                  |                              |              |  |
| 9          | S-9            | 9.0-9.5              | 0.5                        |           |                                    |                              |              |  |
|            |                |                      |                            | 9.3'-10.0 | Orange and White Sand              | ly SILT, Moist               |              |  |
|            |                |                      |                            |           |                                    |                              |              |  |
| 10         |                |                      |                            |           |                                    |                              |              |  |
| <b> </b>   |                |                      |                            |           |                                    |                              |              |  |
| 11         |                |                      |                            |           |                                    |                              |              | <b>_</b>                                 |
| •          |                |                      |                            |           |                                    |                              |              |  |
|            |                |                      |                            |           |                                    |                              |              |  |
| 12         |                |                      |                            |           |                                    |                              |              | <u></u> _                                |
| [ <u> </u> |                |                      |                            |           |                                    |                              |              |  |
| 13         |                |                      |                            |           |                                    |                              |              |  |
|            |                |                      |                            |           |                                    |                              |              |  |
| i          |                |                      |                            |           |                                    |                              |              |  |
| 14         |                |                      |                            |           |                                    |                              |              |  |
| [          |                |                      |                            |           |                                    |                              |              |  |
| 15         |                |                      |                            |           |                                    |                              |              |  |

Parcel 176 Boring Logs B27-15 2/7/2022

|   | FSP                |                      |                         | FIE           | LD BORING LOG  |                                | BORING NO.          |
|---|--------------------|----------------------|-------------------------|---------------|--|--------------------------------|---------------------|
| PROJ  | ECT NAME:          | NCDOT U-4            | 4758 Phase              |               | PROJ. NO.: IS14.314                                  |                                | B176-16             |
| LOCA  | TION:              | Approximat           | ely 48' north           | west from the | e northwest corner of the diesel canopy              |                                |                     |
|   | OF BORING          |                      | Direct Pus<br>SAEDACC   |               | DATE STARTED: 1/25/2022                              | SHEET:                         |                     |
| DRILL   | _ING FIRM:<br>_ER: |                      | Robert Mill             |               | DATE FINISHED: 1/25/2022 SAMPLE METHOD: 4' Macrocore | _ TOTAL DEPTH:<br>DEPTH TO GW: |                     |
| DRILL   |                    |                      | Geoprobe 54             |               | LOGGED BY: A. Roseman                                | COMMENT:                       |                     |
| DEPTH (ft)                                    | SAMPLE<br>NO.      | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |               | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION     |                                | REMARKS             |
|   | 0)                 | <u>ں رہ</u>          | ~~                      | 0.0'-0.3'     | Concrete   | Ma                             | acrocore 0.0'-4.0'  |
|   |                    |                      |                         | 0.3'-5.8'     | Red Silty CLAY, Moist                                | Co                             | re Rec 4.0'/4.0'    |
| 1   | S-1                | 1.0-1.5              | 0.3                     |               |  |                                |                     |
| 2   | S-2                | 2.0-2.5              | 0.6                     |               |  |                                |                     |
| <br>  | S-3                | 3.0-3.5              | 0.3                     |               |  |                                |                     |
| _ <u>_</u><br>                                | 5-5                | 3.0-3.3              | 0.5                     |               |  |                                |                     |
| 4   | S-4                | 4.0-4.5              | 0.8                     |               |  | Ma                             | acrocore 4.0'-8.0'  |
|   |                    |                      |                         |               |  | Co                             | re Rec 4.0'/4.0'    |
| 5   | S-5                | 5.0-5.5              | 0.8                     |               |  |                                |                     |
| <br>6   | S-6                | 6.0-6.5              | 0.8                     | 5.8'-10.0'    | Yellow-Brown, Micaceous Clayey SILT, Moist           |                                |                     |
|   |                    |                      |                         |               |  |                                |                     |
| _7<br>·                                       | S-7                | 7.0-7.5              | 0.5                     |               |  |                                |                     |
| 8   | S-8                | 8.0-8.5              | 1.0                     |               |  | Ma                             | acrocore 8.0'-10.0' |
|   |                    |                      |                         |               |  | Co                             | re Rec 2.0'/2.0'    |
| 9   | S-9                | 9.0-9.5              | 1.3                     | 9.0'          | Grading to Yellow                                    |                                |                     |
|   |                    |                      |                         |               |  |                                |                     |
| <u>  10                                  </u> |                    |                      |                         |               |  |                                |                     |
| 11  |                    |                      |                         |               |  |                                |                     |
|   |                    |                      |                         |               |  |                                |                     |
| 12  |                    |                      |                         |               |  |                                |                     |
| ļ ——  |                    |                      |                         |               |  |                                |                     |
| 13  |                    |                      |                         |               |  |                                |                     |
|   |                    |                      |                         |               |  |                                |                     |
| 14  |                    |                      |                         |               |  |                                |                     |
| F   |                    |                      |                         |               |  |                                |                     |
| 45  |                    |                      |                         |               |  |                                |                     |
| 15  |                    |                      |                         | I             |  |                                |                     |

Parcel 176 Boring Logs B27-16 2/7/2022

|            | ESP            |                      |                         | FIE            | LD BORING LOG   |                        | BORING NO.                               |
|------------|----------------|----------------------|-------------------------|----------------|---|------------------------|--|
| PROJ       | ECT NAME:      | NCDOT U-             | 4758 Phase              | 11             | PROJ. NO.: IS14.314   |                        | B176-17                                  |
| LOCA       | TION:          | Approximat           | tely 15' east o         | of the gas sto | pres sign on the I-40 East exit ramp                                |                        |  |
|            | OF BORING      | Hand                 | Auger and D             |                | DATE STARTED: 1/25/2022   | SHEET                  |  |
|            | LING FIRM:     |                      | SAEDACC<br>Robert Mill  |                | DATE FINISHED: <u>1/25/2022</u>                                     | TOTAL DEPTH            |  |
|            | _ER:<br>_ RIG: |                      | Geoprobe 54             |                | SAMPLE METHOD: Hand Auger and 4' Macrocore<br>LOGGED BY: A. Roseman | DEPTH TO GW<br>COMMENT |  |
|            |                |                      |                         |                | LOGGED B1. A. Rosenian  | CONNENT                | . Elev. N/A                              |
| DEPTH (ft) | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |                | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION                    |                        | REMARKS                                  |
|            |                |                      |                         | 0.0'-0.3'      | Gravel and Topsoil  | Н                      | and Auger 0.0'-5.0'                      |
|            |                |                      |                         | 0.3'-5.4'      | Red Sandy CLAY, Moist   |                        |  |
| 1          | S-1            | 1.0-1.5              | 0.4                     |                |   |                        | _  |
| ·          |                |                      |                         |                |   |                        |  |
| 2          | S-2            | 2.0-2.5              | 0.5                     |                |   |                        |  |
|            | 5-2            | 2.0-2.5              | 0.5                     |                |   |                        |  |
| [          |                |                      |                         |                |   |                        | =  |
| 3          | S-3            | 3.0-3.5              | 0.3                     |                |   |                        |  |
| <b>-</b>   |                |                      |                         |                |   |                        |  |
| a          |                |                      |                         |                |   |                        |  |
| 4          | S-4            | 4.0-4.5              | 0.5                     | 4.0'           | Grading to Yellow   |                        |  |
| a          |                |                      |                         |                |   |                        |  |
| •          |                |                      |                         |                |   |                        |  |
| _5         | S-5            | 5.0-5.5              | 0.9                     |                |   | M                      | acrocore 5.0'-9.0'<br>ore Rec 3.2'/4.0'  |
| a          |                |                      |                         | 5.4'-8.8'      | Orange and White Silty SAND, Moist                                  |                        | 01010000.274.0                           |
| 6          | S-6            | 6.0-6.5              | 0.4                     |                |   |                        |  |
| 0          | 3-0            | 0.0-0.5              | 0.4                     |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| 7          | S-7            | 7.0-7.5              | 0.4                     |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| 8          | S-8            | 8.0-8.5              | 0.4                     |                |   |                        |  |
|            |                |                      |                         | 8.8'-10.0'     | Yellow-Brown Micaceous Clayey SILT, Moist                           |                        |  |
|            |                |                      | 0.0                     |                |   |                        |  |
| 9          | S-9            | 9.0-9.5              | 0.6                     |                |   |                        | acrocore 9.0'-10.0'<br>ore Rec 1.0'/1.0' |
|            |                |                      |                         |                |   |                        |  |
| 10         |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| 11         |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| 12         |                |                      |                         |                |   |                        |  |
| t          |                |                      |                         |                |   |                        |  |
| 10         |                |                      |                         |                |   |                        |  |
| 13         |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| 14         |                |                      |                         |                |   |                        |  |
|            |                |                      |                         |                |   |                        |  |
| ŀ          |                |                      |                         |                |   |                        |  |
| 15         |                |                      |                         |                |   | <u> </u>               |  |

Parcel 176 Boring Logs B27-17 2/7/2022

|                | FSP           |                      |                         | FIE        | LD BORING LOG   |             | BORING NO.                               |
|----------------|---------------|----------------------|-------------------------|------------|---|-------------|--|
| PRO            | ECT NAME:     | NCDOT U-             | 4758 Phase              |            | PROJ. NO.: IS14.314   |             | B176-18                                  |
|                |               |                      |                         |            | northwest corner of garage                                  |             | BITOTO                                   |
|                | OF BORING     |                      | Direct Pus              |            | DATE STARTED: 1/25/2022                                     | SHEET       |  |
|                | ING FIRM:     |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED: 1/25/2022                                    | TOTAL DEPTH |  |
| DRILL<br>DRILL |               |                      | Geoprobe 54             |            | SAMPLE METHOD: <u>4' Macrocore</u><br>LOGGED BY: A. Roseman | DEPTH TO GW | : Dry ft<br>: Elev: 966.9'               |
|                |               |                      |                         |            | LOGOLD BT. A. Roseman                                       |             |  |
| DEPTH (ft)     | SAMPLE<br>NO. | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION            |             | REMARKS                                  |
|                |               |                      |                         | 0.0'-0.3'  | Topsoil   |             | acrocore 0.0'-4.0'<br>ore Rec 3.5'/4.0'  |
|                |               |                      |                         | 0.3'-6.2'  | Red Silty CLAY, Moist                                       |             |  |
| _1             | S-1           | 1.0-1.5              | 0.6                     |            |   |             |  |
|                |               |                      |                         |            |   |             |  |
| 2              | S-2           | 2.0-2.5              | 0.4                     |            |   |             |  |
|                |               |                      |                         |            |   |             |  |
| 3              | S-3           | 3.0-3.5              | 0.3                     |            |   |             |  |
| <u> </u>       | 5-3           | 3.0-3.5              | 0.3                     |            |   |             |  |
| ·              |               |                      |                         |            |   |             |  |
| 4              | S-4           | 4.0-4.5              | 0.3                     |            |   |             | acrocore 4.0'-8.0'                       |
|                |               |                      |                         |            |   |             | ore Rec 4.0'/4.0'                        |
| 5              | S-5           | 5.0-5.5              | 0.7                     |            |   |             |  |
|                | 0-0           | 5.0-5.5              | 0.7                     |            |   |             |  |
| •              |               |                      |                         | 5.3'       | Grading to Orange   |             |  |
| 6              | S-6           | 6.0-6.5              | 0.6                     | 6.2'-10.0' | Orange Micaceous Clayey SILT, Moist                         |             |  |
|                | 0.7           | 7075                 |                         |            |   |             |  |
| _7             | S-7           | 7.0-7.5              | 0.9                     |            |   |             |  |
| •              |               |                      |                         |            |   |             |  |
| 8              | S-8           | 8.0-8.5              | 1.1                     |            |   | M           | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
|                |               |                      |                         |            |   |             | ore Rec 2.0/2.0                          |
| 9              | S-9           | 9.0-9.5              | 1.0                     | 9.0'       | Grading to Yellow-Brown                                     |             |  |
| <br>           | 0.0           | 0.0 0.0              |                         | 0.0        |   |             |  |
| •              |               |                      |                         |            |   |             |  |
| 10             |               |                      |                         |            |   |             |  |
|                |               |                      |                         |            |   |             |  |
| 11             |               |                      |                         |            |   |             |  |
| <b>-</b>       |               |                      |                         |            |   |             |  |
| •              |               |                      |                         |            |   |             | <u>_</u>                                 |
| 12             |               |                      |                         |            |   |             |  |
|                |               |                      |                         |            |   |             |  |
| 13             |               |                      |                         |            |   |             |  |
|                |               |                      |                         |            |   |             | <b>_</b>                                 |
| ! <u> </u>     |               |                      |                         |            |   |             |  |
| 14             |               |                      |                         |            |   |             |  |
| <b> </b>       |               |                      |                         |            |   |             |  |
| 15             |               |                      |                         |            |   |             |  |

Parcel 176 Boring Logs B27-18 2/7/2022

|                | ESP            |                      |                         | FIE        | LD BORING L   | OG            |                          | BORING NO.                               |
|----------------|----------------|----------------------|-------------------------|------------|---|---------------|--------------------------|--|
| PRO            | ECT NAME:      | NCDOT U-             | 4758 Phase              |            |   | NO.: IS14.314 |                          | B176-19                                  |
|                |                |                      | tely 20' west           |            |   | <u></u>       |                          | 811010                                   |
|                | OF BORING      |                      | Direct Pus              |            | DATE STARTED: 1/25/20                               |               | SHEET:                   |  |
| DRILI<br>DRILI | LING FIRM:     |                      | SAEDACC<br>Robert Mill  |            | DATE FINISHED: 1/25/20                              |               | TOTAL DEPTH:             |  |
|                | _ER:<br>_ RIG: |                      | Geoprobe 54             |            | SAMPLE METHOD: <u>4' Macr</u><br>LOGGED BY: A. Rose |               | DEPTH TO GW:<br>COMMENT: |  |
|                |                |                      |                         |            |   |               |                          |  |
| DEPTH (ft)     | SAMPLE<br>NO.  | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm) |            | FIELD CLASSIFIC/<br>PHYSICAL DESC                   |               |                          | REMARKS                                  |
|                |                |                      |                         | 0.0'-0.3'  | Concrete  |               | Ma<br>Co                 | acrocore 0.0'-4.0'<br>re Rec 3.4'/4.0'   |
| -              | 0.4            | 4045                 | 1.0                     | 0.3'-4.4'  | Red Silty CLAY, Moist                               |               |                          |  |
| _1             | S-1            | 1.0-1.5              | 1.2                     |            |   |               |                          |  |
| -              |                |                      |                         |            |   |               |                          |  |
| 2              | S-2            | 2.0-2.5              | 1.8                     |            |   |               |                          |  |
| •              |                |                      |                         |            |   |               |                          |  |
| 3              | S-3            | 3.0-3.5              | 0.7                     |            |   |               |                          |  |
|                | 5-5            | 0.0-0.0              | 0.1                     |            |   |               |                          |  |
| <u> </u>       |                |                      |                         |            |   |               |                          |  |
| 4              | S-4            | 4.0-4.5              | 1.0                     |            |   |               | Ma                       | acrocore 4.0'-8.0'<br>re Rec 4.0'/4.0'   |
| ·              |                |                      |                         | 4.4'-10.0' | Red Micaceous Clayey SILT                           | , Moist       |                          |  |
| 5              | S-5            | 5.0-5.5              | 0.6                     |            |   |               |                          |  |
|                |                | 0.0 0.0              |                         |            |   |               |                          |  |
| •              |                |                      |                         |            |   |               |                          |  |
| 6              | S-6            | 6.0-6.5              | 0.8                     |            |   |               |                          |  |
|                |                |                      |                         |            |   |               |                          |  |
| 7              | S-7            | 7.0-7.5              | 1.0                     |            |   |               |                          |  |
|                |                |                      |                         | 7.2'       | Grading to Yellow-Brown                             |               |                          |  |
|                | -              |                      |                         |            |   |               |                          |  |
| 8              | S-8            | 8.0-8.5              | 1.1                     |            |   |               | Ma<br>Co                 | acrocore 8.0'-10.0'<br>ore Rec 2.0'/2.0' |
| -              |                |                      |                         |            |   |               |                          |  |
| 9              | S-9            | 9.0-9.5              | 0.9                     |            |   |               |                          |  |
| ·              |                |                      |                         |            |   |               |                          |  |
| 40             |                |                      |                         |            |   |               |                          |  |
| 10             |                |                      |                         |            |   |               |                          |  |
|                |                |                      | <u> </u>                |            |   |               |                          |  |
| <u>11</u>      |                |                      |                         |            |   |               |                          |  |
|                |                |                      |                         |            |   |               |                          |  |
| 12             |                |                      |                         |            |   |               |                          |  |
| <u> </u>       |                |                      |                         |            |   |               |                          |  |
|                |                |                      |                         |            |   |               |                          |  |
| 13             |                |                      |                         |            |   |               |                          |  |
|                |                |                      |                         |            |   |               |                          |  |
| 14             |                |                      |                         |            |   |               |                          |  |
| - <u>14</u>    |                |                      |                         |            |   |               |                          |  |
| l              |                |                      |                         |            |   |               |                          |  |
| 15             |                |                      |                         |            |   |               |                          |  |

Parcel 176 Boring Logs B27-19 2/7/2022

| LOCATIO<br>TYPE OF<br>DRILLING<br>DRILLER<br>DRILL RIG | DN:<br>BORING<br>G FIRM:<br>R:<br>IG: | Approxima            | 4758 Phase<br>tely 50' north<br>Direct Pus<br>SAEDACC | west of B176 | PROJ. NO.: IS14.314   |                          | B176-20                                |
|--|---------------------------------------|----------------------|---|--------------|---|--------------------------|--|
| LOCATIO<br>TYPE OF<br>DRILLING<br>DRILLER<br>DRILL RIG | DN:<br>BORING<br>G FIRM:<br>R:<br>IG: | Approxima            | tely 50' north<br>Direct Pus                          | west of B176 |   |                          |  |
| DRILLING<br>DRILLER<br>DRILL RIG                       | G FIRM:<br>R:<br>IG:                  |                      |   | •h           |   |                          |  |
| DRILLER<br>DRILL RI                                    | R:<br>IG:                             |                      | SAEDACC   |              | DATE STARTED: 1/25/2022                                     | SHEET:                   |  |
| DRILL RI   | IG:                                   |                      | Robert Mil  |              | DATE FINISHED: 1/25/2022                                    | TOTAL DEPTH:             |  |
|  |                                       |                      | Geoprobe 5  |              | SAMPLE METHOD: <u>4' Macrocore</u><br>LOGGED BY: A. Roseman | DEPTH TO GW:<br>COMMENT: |  |
| DEPTH (f   | Щ.                                    |                      |   |              |   |                          |  |
|  | SAMPLE<br>NO.                         | SAMPLE<br>DEPTH (ft) | PID<br>READING<br>(ppm)                               |              | FIELD CLASSIFICATION AND<br>PHYSICAL DESCRIPTION            |                          | REMARKS                                |
| ·  |                                       |                      |   | 0.0'-0.3'    | Topsoil   | Ma                       | crocore 0.0'-4.0'<br>re Rec 4.0'/4.0'  |
|  |                                       |                      |   | 0.3'-4.0'    | Red Silty CLAY, Moist                                       |                          |  |
| <u>1</u> S-1   | 1                                     | 1.0-1.5              | 0.8   |              |   |                          |  |
| 2 S-2  | 2                                     | 2.0-2.5              | 1.4   |              |   |                          |  |
| <u>3</u> S-3   | 3                                     | 3.0-3.5              | 0.9   |              |   |                          |  |
| - <u>4</u> S-4   | 4                                     | 4.0-4.5              | 0.8   | 4.0'-10.0'   | Orange Micaceous Clayey SILT, Moist                         | Ma<br>Co                 | crocore 4.0'-8.0'<br>re Rec 4.0'/4.0'  |
| <b>5</b> S-5   | 5                                     | 5.0-5.5              | 0.6   |              |   |                          |  |
| <u>6</u> S-6   | 6                                     | 6.0-6.5              | 0.6   |              |   |                          |  |
| _7 S-7   | 7                                     | 7.0-7.5              | 0.2   |              |   |                          |  |
| 8S-8   | 8                                     | 8.0-8.5              | 0.4   | 8.0'         | Grading to Gray   |                          | crocore 8.0'/10.0'<br>re Rec 2.0'/2.0' |
| 9 S-9  | 9                                     | 9.0-9.5              | 0.6   |              |   |                          |  |
| 10   |                                       |                      |   |              |   |                          |  |
| 11   |                                       |                      |   |              |   |                          |  |
| 12   |                                       |                      |   |              |   |                          |  |
| 13   |                                       |                      |   |              |   |                          |  |
| <b> </b>   |                                       |                      |   |              |   |                          |  |
| 14   |                                       |                      | 1   |              |   |                          |  |
| <u>k</u> +   |                                       |                      |   |              |   |                          |  |
| 15   |                                       |                      |   |              |   |                          |  |

Parcel 176 Boring Logs B27-20 2/7/2022

## **APPENDIX B**

### **RED LAB LABORATORY TESTING REPORT**





Hydrocarbon Analysis Results

| Client:<br>Address: | ESP<br>GREENSBORO, NC   |                           |                   |                   |                    |                   |                                 |                | Sa<br>Sampl<br>Sampl |         | racted |            | Monday, January 24, 2022<br>Monday, January 24, 2022<br>Thursday, January 27, 2022 |
|---------------------|---|---------------------------|-------------------|-------------------|--------------------|-------------------|---------------------------------|----------------|----------------------|---------|--------|------------|--|
| Contact:            | NED BILLINGTON  |                           |                   |                   |                    |                   |                                 |                |                      | Ор      | erator |            | CLAIRE NAKAMURA  |
| Project:            | 1514.314  |                           |                   |                   |                    |                   |                                 |                |                      |         |        |            |  |
|                     |   |                           |                   |                   |                    |                   |                                 |                |                      |         |        |            | U04049   |
| Matrix              | Sample ID   | Dilution<br>used          | BTEX<br>(C6 - C9) | GRO<br>(C5 - C10) | DRO<br>(C10 - C35) | TPH<br>(C5 - C35) | Total<br>Aromatics<br>(C10-C35) | 16 EPA<br>PAHs | BaP                  |         | Ratios |            | HC Fingerprint Match   |
|                     |   |                           |                   |                   |                    |                   |                                 |                |                      | % light | % mid  | %<br>heavy |  |
| S                   | B176-1, S5  | 25.5                      | <0.64             | <0.64             | <0.64              | <0.64             | <0.13                           | <0.2           | <0.025               | 0       | 0      | 0          | PHC not detected,(BO)  |
| S                   | B176-1, S7  | 21.1                      | <0.53             | <0.53             | 0.64               | 0.64              | 0.61                            | <0.17          | <0.021               | 0       | 18.1   | 81.9       | Residual HC,(BO)   |
| S                   | B176-2, S4  | 13.6                      | <0.34             | <0.34             | <0.34              | <0.34             | <0.07                           | <0.11          | <0.014               | 0       | 100    | 0          | ,(FCM)   |
| S                   | B176-3, S1  | 23.6                      | <0.59             | <0.59             | 0.85               | 0.85              | 0.43                            | <0.19          | <0.024               | 0       | 87.6   | 12.4       | V.Deg.PHC 49.3%,(FCM)  |
| S                   | B176-3, S5  | 21.7                      | <0.54             | <0.54             | 0.54               | 0.54              | 0.31                            | <0.17          | <0.022               | 0       | 0      | 100        | PHC not detected,(BO)  |
| S                   | B176-5, S4  | 23.2                      | <0.58             | <0.58             | <0.58              | <0.58             | <0.12                           | <0.19          | <0.023               | 0       | 100    | 0          | PHC not detected   |
| S                   | B176-8, S6  | 19.4                      | <0.49             | <0.49             | 0.67               | 0.67              | 0.64                            | <0.16          | <0.019               | 0       | 10.9   | 89.1       | Residual HC,(BO)   |
| S                   | B176-9, S2  | 24.5                      | <0.61             | <0.61             | <0.61              | <0.61             | <0.12                           | <0.2           | <0.025               | 0       | 0      | 0          | PHC not detected   |
| S                   | B176-10, S4   | 21.5                      | <0.54             | <0.54             | 0.83               | 0.83              | 0.79                            | <0.17          | <0.021               | 0       | 7.5    | 92.5       | Residual HC,(BO)   |
| S                   | B176-11, S2   | 23.2                      | <0.58             | <0.58             | <0.58              | <0.58             | <0.12                           | <0.19          | <0.023               | 0       | 100    | 0          | Residual HC  |
|                     |   | Initial Calibrator (      | QC check          | OK                |                    |                   |                                 |                | Final F              | CM QC   | Check  | OK         | 102.7 %  |
| Fingerprints        | erated by a QED HC-1 analyser.<br>provide a tentative hydrocarbon<br>3S) = Site Specific or Library Bac | identification. The abbre | viations are:     | - FCM = Res       | sults calculate    | d using Funda     | amental Calibra                 | ation Mode :   | % = confide          |         |        |            | nt match to library  |





Hydrocarbon Analysis Results

|              | ESP<br>GREENSBORO, NC                      |                  |                   |                   |                    |                   |                                 |                | Sa<br>Sampl<br>Sampl |          | racted    |            | Monday, January 24, 2022<br>Monday, January 24, 2022<br>Thursday, January 27, 2022 |
|--------------|--|------------------|-------------------|-------------------|--------------------|-------------------|---------------------------------|----------------|----------------------|----------|-----------|------------|--|
| Contact:     | NED BILLINGTON                             |                  |                   |                   |                    |                   |                                 |                |                      | Ор       | erator    |            | CLAIRE NAKAMURA  |
| Project:     | 1514.314                                   |                  |                   |                   |                    |                   |                                 |                |                      |          |           |            |  |
|              |  |                  |                   |                   |                    |                   |                                 |                |                      |          |           |            | U04049   |
| Matrix       | Sample ID                                  | Dilution<br>used | BTEX<br>(C6 - C9) | GRO<br>(C5 - C10) | DRO<br>(C10 - C35) | TPH<br>(C5 - C35) | Total<br>Aromatics<br>(C10-C35) | 16 EPA<br>PAHs | BaP                  |          | Ratios    |            | HC Fingerprint Match   |
|              |  |                  |                   |                   |                    |                   |                                 |                |                      | % light  | % mid     | %<br>heavy |  |
| S            | B176-12, S6                                | 26.5             | <0.66             | <0.66             | 0.66               | 0.66              | 0.47                            | <0.21          | <0.027               | 0        | 27.3      | 72.7       | Residual HC,(BO)   |
| S            | B176-13, S1                                | 302.0            | <7.5              | <7.5              | 868.2              | 868.2             | 337.6                           | 12.1           | <0.3                 |          | 96.8      | 3.2        | Undeg.Diesel 93.3%,(FCM)   |
| S            | B176-13, S4                                | 24.5             | <1.2              | 17.9              | 68.8               | 86.7              | 22.2                            | 0.83           | <0.025               | 89.5     | 10.2      | 0.3        | Deg.Diesel 94.1%,(FCM)   |
| S            | B176-13, S8                                | 29.2             | <0.73             | <0.73             | 11.7               | 11.7              | 3.7                             | <0.23          | <0.029               | 0        | 86        | 14         | Deg.Diesel 97.3%,(FCM)   |
| S            | B176-17, S5                                | 20.8             | <0.52             | <0.52             | 19.8               | 19.8              | 9.5                             | 1              | <0.021               | 0        | 84.9      | 15.1       | Road Tar 93.6%,(FCM)   |
|              |  |                  |                   |                   |                    |                   |                                 |                |                      |          |           |            |  |
|              |  |                  |                   |                   |                    |                   |                                 |                |                      |          |           |            |  |
|              | Initia                                     | Calibrator       | QC check          | OK                |                    |                   |                                 |                | Final F              | CM QC    | Check     | OK         | 103.3 %  |
| Results gen  | erated by a QED HC-1 analyser. Conce       | ntration values  | in mg/kg fo       | r soil samples    | and mg/L for       | water sample      | es. Soil value                  | s are not co   | rrected for n        | noisture | or stone  | content    |  |
| Fingerprints | provide a tentative hydrocarbon identifica | ion. The abbre   | viations are      | - FCM = Re        | sults calculate    | d using Funda     | amental Calibra                 | ation Mode :   | % = confide          | ence for | sample fi | ingerprir  | nt match to library  |
| (SBS) or (LE | S) = Site Specific or Library Background   | Subtraction ap   | plied to resu     | lt : (PFM) = P    | oor Fingerprir     | t Match : (T) =   | = Turbid : (P) =                | Particulate    | present              |          |           |            |  |





**Hydrocarbon Analysis Results** 

| Client:<br>Address | ESP<br>SS: GREENSBORO, NC |                    |                   |                   |                    |                   |                        |                |         | mples<br>es exti<br>les ana | racted |            | Monday, January 24, 2022<br>Monday, January 24, 2022<br>Thursday, January 27, 2022 |
|--------------------|---------------------------|--------------------|-------------------|-------------------|--------------------|-------------------|------------------------|----------------|---------|-----------------------------|--------|------------|--|
| ontact:            | NED BILLINGTON            |                    |                   |                   |                    |                   |                        |                |         | Ор                          | erator |            | CLAIRE NAKAMURA  |
| roject:            | 1514.314                  |                    |                   |                   |                    |                   |                        |                |         |                             |        |            |  |
|                    |                           |                    |                   |                   | 1                  |                   | Total                  |                |         |                             |        |            | U04049   |
| Matrix             | Sample ID                 | Dilution<br>used   | BTEX<br>(C6 - C9) | GRO<br>(C5 - C10) | DRO<br>(C10 - C35) | TPH<br>(C5 - C35) | Aromatics<br>(C10-C35) | 16 EPA<br>PAHs | BaP     |                             | Ratios |            | HC Fingerprint Match   |
|                    |                           |                    |                   |                   |                    |                   | (010-033)              |                |         | % light                     | % mid  | %<br>heavy |  |
| S                  | B176-19, S4               | 13.3               | <0.33             | <0.33             | 0.33               | 0.33              | 0.21                   | <0.11          | <0.013  | 0                           | 0      | 100        | ,(FCM),(BO)  |
| S                  | B176-20, S2               | 22.8               | <0.57             | <0.57             | 0.57               | 0.57              | 0.29                   | <0.18          | <0.023  | 0                           | 0      | 100        | PHC not detected,(BO)  |
|                    |                           |                    |                   |                   |                    |                   |                        |                |         |                             |        |            |  |
|                    |                           |                    |                   |                   |                    |                   |                        |                |         |                             |        |            |  |
|                    |                           | Initial Calibrator | QC check          | OK                |                    |                   |                        |                | Final F | CM QC                       | Check  | OK         | 101.   |

QED

# APPENDIX C CHAIN-OF-CUSTODY FORM

| Client Name:      | ESP       |              |         |          |          |                     | ò           |
|-------------------|-----------|--------------|---------|----------|----------|---------------------|-------------|
| Address:          | ONFIL     | Ē            |         |          |          |                     | TM          |
| Contact:          |           | LINGTON      |         |          |          |                     |             |
| Project Ref.:     | IS14.3    |              |         |          |          | DLA                 |             |
| Email:            | ON FI     |              |         |          |          |                     |             |
| Phone #:          | ONFE      |              |         | RAP      | D ENVIE  | RONMENTAL DIAGN     | OSTICS      |
| Collected by:     | ANNAR     |              | CHAIN   | N OF CL  | JSTODY   | AND ANALYTICA       | L REQUEST F |
| Sample Collection | TAT Ree   | quested      | Analys  | sis Type | Initials | Sam                 | nple ID     |
| Date/Time         | 24 Hour   | 48 Hour      | UVF     | GC       | IIIIIdis | Jan                 | ipie iD     |
| 1-24-22           |           | $\checkmark$ | V       |          | CRP      | BI76-1, S5          |             |
| 1-24-22           |           |              |         |          | 1        | B176-1, S7          |             |
| 1-24-22           |           |              |         |          |          | B176-2,54           |             |
| 1-24-22           |           |              |         |          |          | B176-3, SI          |             |
| 1-24-22           |           |              |         |          |          | B176-3, 55          |             |
| 1-24-22           |           |              |         |          |          | 3176-5,54           |             |
| 1-24-22           |           |              |         |          |          | B176-8, S6          |             |
| 1-24-22           |           |              |         |          |          | B176-9, SZ          |             |
| 1-25.22           |           |              |         |          |          | B176-10,94          |             |
| 1-24-22           |           |              |         |          |          | B176-11, SZ         |             |
| 1-25-22           |           |              |         |          |          | B176-12,56          |             |
| 1-24-22           |           |              |         |          |          | B176-13, SI         |             |
| 1-24-22           |           |              |         |          |          | B176-13,54          |             |
| 1-24-22           |           |              |         |          |          | B176-13, SB         |             |
| 1-25-22           |           |              |         |          |          | B176-17,55          |             |
| 1-25-22           |           | 1            |         |          |          | B176-19, 54         |             |
| 1-25-22           |           | V            | 1       |          | cep      | B176-20,52          |             |
|                   |           |              |         |          | 0        | 1000                |             |
|                   |           |              |         |          |          |                     |             |
|                   |           |              |         |          |          |                     |             |
| COMMENTS/REQU     | JESTS:    |              |         |          |          | TARGET GC/UVF ANALY | TES:        |
| Relinqu           | uished by |              |         |          | Accep    | oted by             | Date/Time   |
| At                |           |              | 1-26-22 |          |          |                     |             |
| Poling            | uished by |              |         |          | Accor    | oted by             | Date/Time   |

#### RED Lab, LLC

L\_

5598 Marvin K Moss Lane

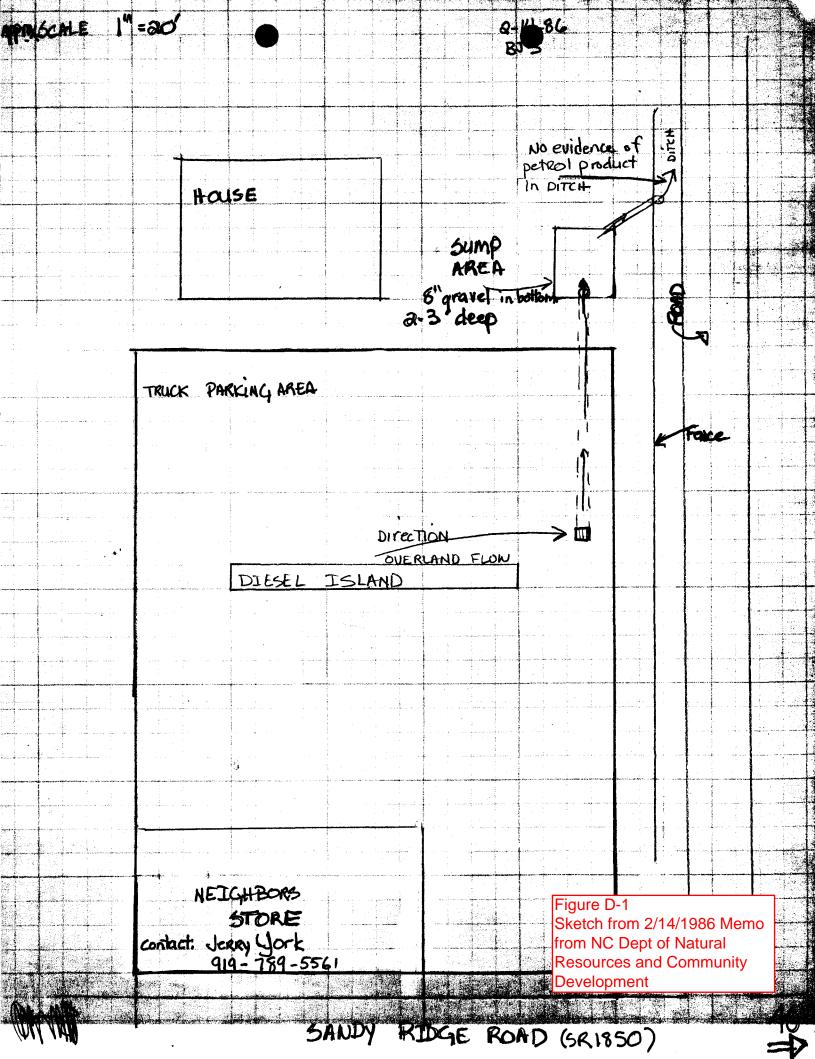
MARBIONC Bldg, Suite 2003

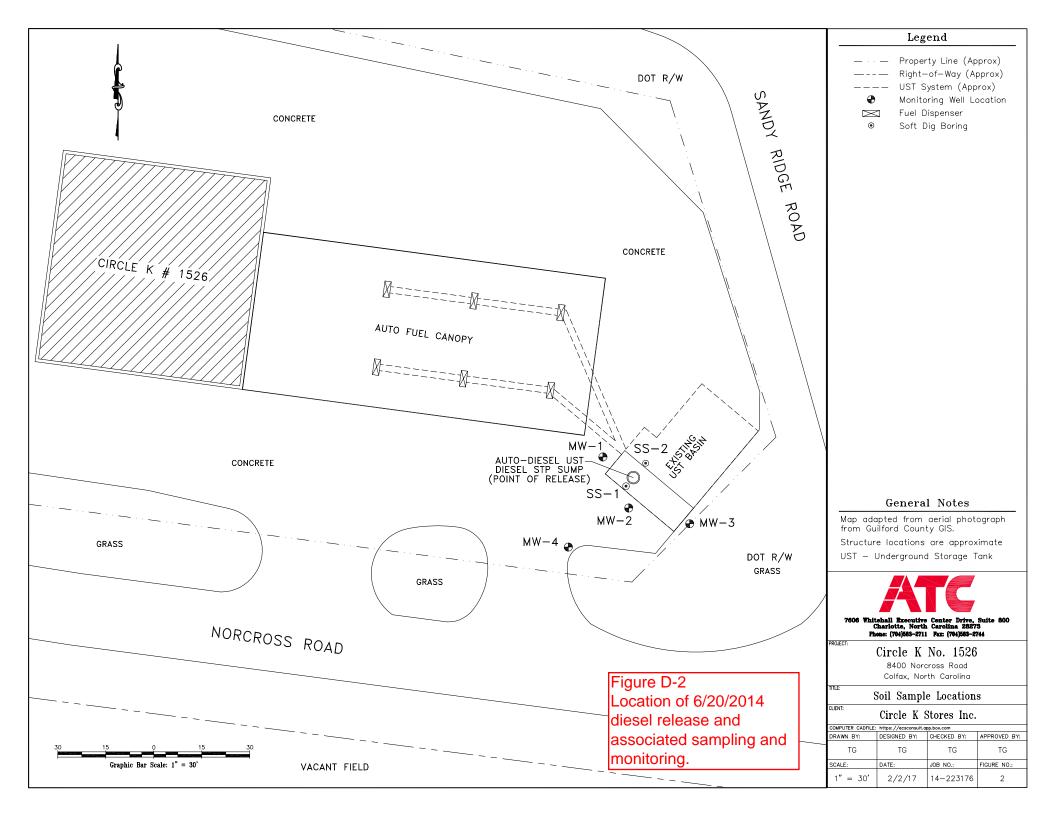
Wilmington, NC 28409

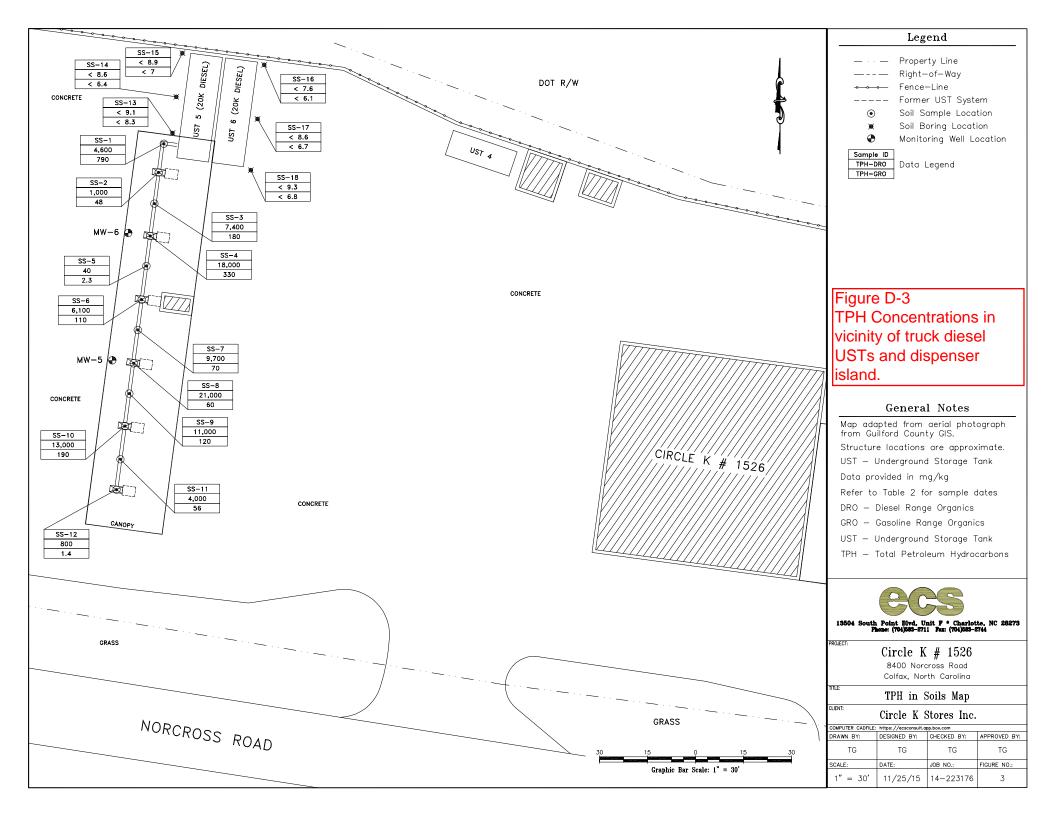
Each UVF sample will be analyzed for total BTEX, GRO, DRO, TPH, PAH total aromatics and BaP. Standard GC Analyses are for BTEX and Chlorinated Solvents: VC, 1,1 DCE, 1,2 cis DCE, 1,2 trans DCE, TCE, and PCE. Specify target analytes in the space provided below.

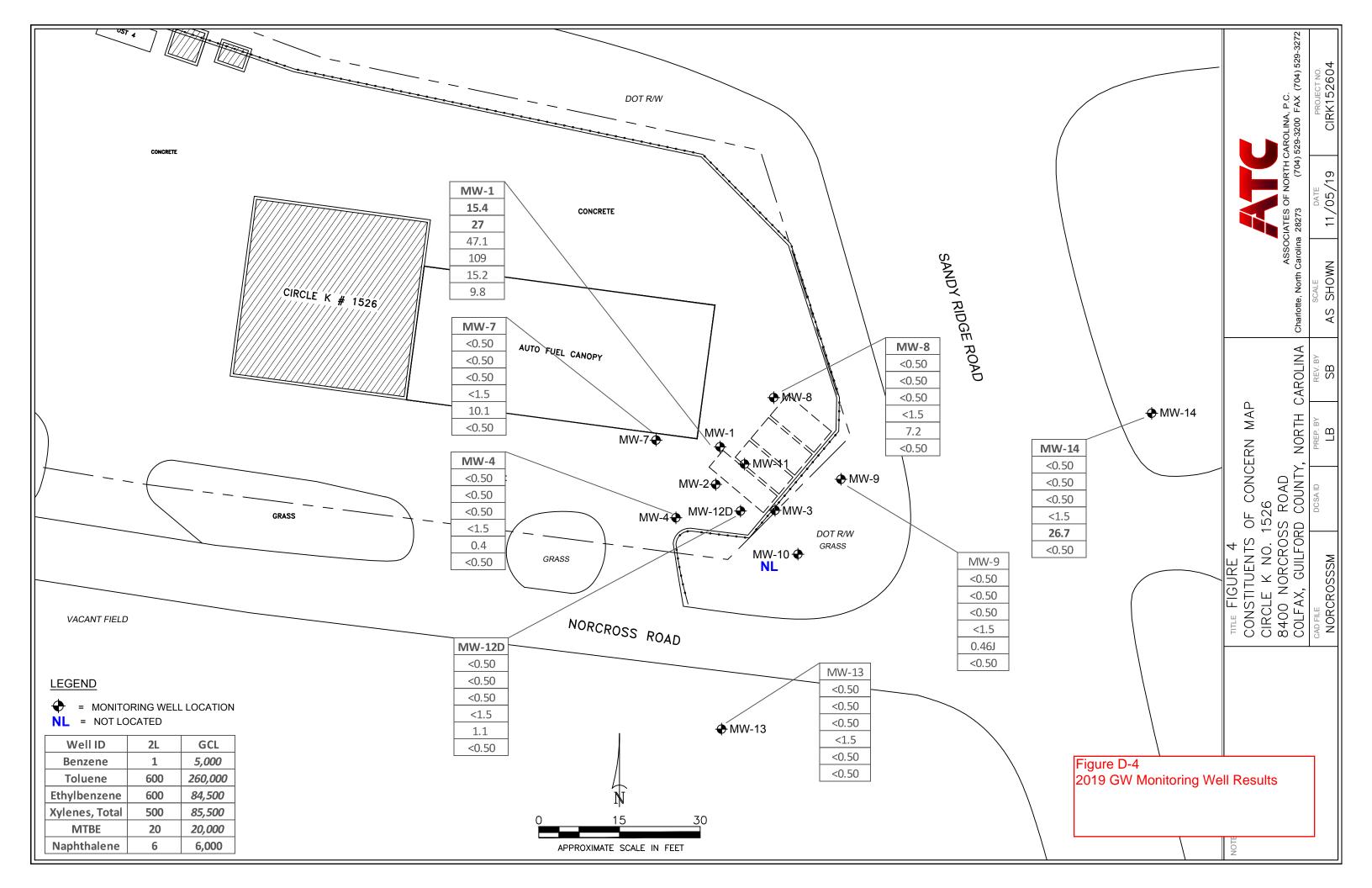
| ipie conection  | IAINE   | Juesieu      | / mary si | - iypc  | Initials | San                 | nple ID   | Total M/t  | Tara W/+  | Sample Wt. |
|---|---|--------------|-----------|---|----------|---------------------|---|--|-----------|------------|
| Date/Time   | 24 Hour   | 48 Hour      | UVF       | GC  | Initials | Jan                 |   | rotar wt.  | Idle VVL. | Sample wt. |
| -24-22  |   | $\checkmark$ |           |   | CRP      | B176-1, S5          | 1   | 50.5   | 40.3      | 10.2       |
| -24-22  |   | 1            | 1         |   | 1        | R176-1, S7          | -   | 62.2   | 39.9      | 12.3       |
| -24-22  |   |              |           |   |          | B176-2, SH          | х.  | 50.5   | 40.2      | 10.3       |
| 24-22   |   |              |           |   |          | B176-3, SI          |   |  | 40.1      | 11.0       |
| 24-22   |   |              |           | 2   |          | B176-3,55           |   | 52.1   | 40.1      | 12.0       |
| 24-22   |   |              |           |   |          | 3176-5,54           | с.  | 51.3   | 40.1      | 11.2       |
| 24-22   |   |              |           |   |          | BI76-8, S6          |   | 53.6   | 40.2      | 13.4       |
| 24-22   |   |              |           |   |          | B176-9, SZ          |   | 50.7   | 40.1      | 10.6       |
| -25.22  |   |              |           |   |          | B176-10,94          |   | 52.2   | 40.)      | 12.1       |
| -24-22  |   |              |           |   |          | B176-11, SZ         |   | Construction of the second | 40.1      | 11.Z       |
| -25-22  |   |              |           |   |          | B176-12,56          |   |  | 39.9      | 9.8        |
| -24-22  |   |              |           |   |          | B176-13, SI         |   |  | 40.2      | 11.2       |
| -24-22  |   |              |           |   |          | B176-13, 54         |   | 0 .  | 40.2      | 10.6       |
| 24-22   |   |              |           |   |          | B176-13, S8         |   | P  | 40.2      | 8.9        |
| -25-22  |   |              |           |   |          | B176-17,55          |   |  | 40,1 .    | 12.5       |
| -25-22  |   | 1            |           |   |          | B176-19, 54         | an ann an t-airt an t-ainteachan ann ann ann ann an t-airt an t-ainteachan ann an t-ainteachan ann ann an t-ain |  | 40.2      | 10.5       |
| -25-22  |   | V            | 1         | 19.000 ggg ( 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / 19.000 / | CCP      | B176-20,52          |   |  | 40.3      | 11.4       |
|   |   |              |           |   |          | one cojota          |   |  | 1010      |            |
|   |   |              |           | *****   | -        |                     |   |  |           |            |
| 1994 - 1994 - 1994 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |   |              |           |   |          |                     |   |  |           |            |
| MMENTS/REQU   | ESTS:   | J            |           |   |          | TARGET GC/UVF ANALY | /TES:   |  |           |            |
|   | 9.9999 (19.999)<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999<br>19.999 |              |           |   |          |                     | ,   | SP.  |           |            |
| Relinqu   | ished by  |              |           |   | Accep    | ted by              | Date/Time   | REI  | D Lab USE | ONLY       |
| the   |   | 2            | 1-26-22   |   |          |                     |   | (17)   |           |            |
| Relinqu   | ished by  |              |           |   | Accep    | ted by              | Date/Time   |  | -         |            |
|   |   | 9<br>9       |           | ECN   | Y21/2027 | 12:17 PM            |   | Ref. No  | -2022     | 2-2        |
|   |   |              |           |   |          |                     |   |  |           |            |

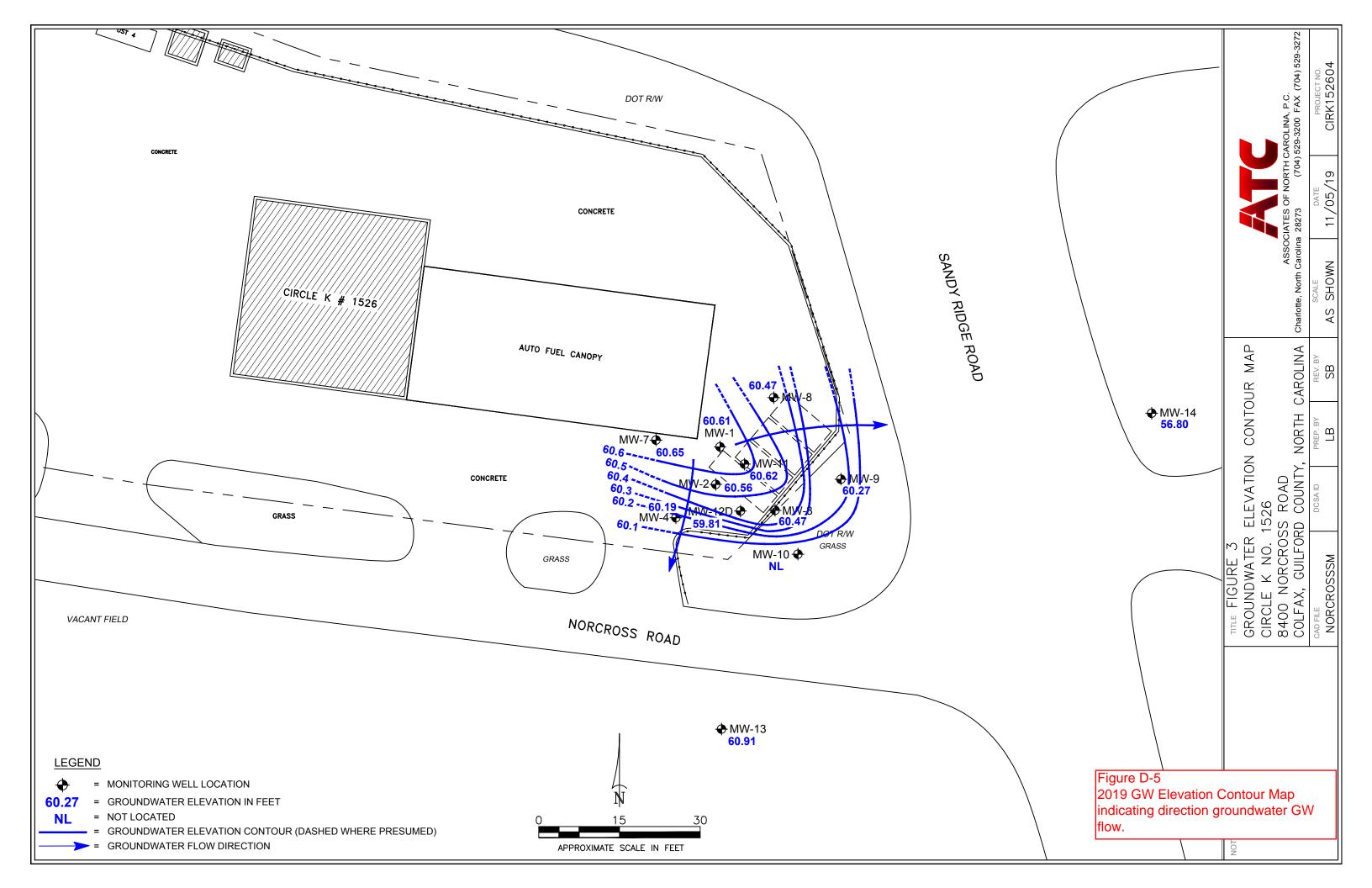
## APPENDIX D RELEVANT NCDEQ INFORMATION











#### Table 4: Summary of Groundwater Sampling Results

#### Revision Date: 8/22/19 Incident Number and Name: 44346/Circle K 1526

| Revision D | ate: 8/22/19                     |              |                   |           | EPA Method 6200B |              |              |                |                         |              |                      |                     |                 |                        |                        |                   |                  |                |                  |                   |                      |                      |                      | D #: 0-001979 |            |                      |                 |                    |              |            |                     |                     |              |             |             |                        |
|------------|----------------------------------|--------------|-------------------|-----------|------------------|--------------|--------------|----------------|-------------------------|--------------|----------------------|---------------------|-----------------|------------------------|------------------------|-------------------|------------------|----------------|------------------|-------------------|----------------------|----------------------|----------------------|---------------|------------|----------------------|-----------------|--------------------|--------------|------------|---------------------|---------------------|--------------|-------------|-------------|------------------------|
|            | Method (e.g. EP                  | A 601)       |                   |           |                  |              |              |                |                         |              |                      |                     |                 |                        | EPA                    | Method            | 6200B            |                |                  |                   |                      |                      |                      |               |            |                      |                 |                    |              |            | 610                 |                     |              | 8270        | )           |                        |
|            | ant of Concern<br>Date Collected | Sample ID    | Incident<br>Phase | Acetone   | Benzene          | Toluene      | Ethylbenzene | Xylenes, Total | Methyl-tert-butyl ether | Naphthalene  | Carbon Tetrachloride | Tetrachloroethylene | Isopropylbezene | 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Diisopropyl ether | n-Propyl Benzene | n-Butylbenzene | sec-Butylbenzene | tert-Butylbenzene | Bromodichloromethane | Chlorodibromomethane | Dibromochloromethane | 2-Hexanone    | 2-Butanone | 4-Methyl-2-pentanone | Methyl Chloride | p-Isopropyltoluene | Chloroethane | Chloroform | Benzo(a)-anthracene | 2-Methylnaphthalene | Acenaphthene | Fluorene    | Naphthalene | Phenanthrene<br>Pyrene |
|            | 8/6/2014                         | MW-1         | IAA               |           | < 1              | < 1          | < 1          | < 3            | 60.5                    | < 2          |                      |                     | < 1             | < 2                    | < 1                    | NA                | < 1              | < 1            | < 1              | < 1               | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 0.33              | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 4/8/2015                         | MW-1         | LSA               |           | < 1.0            | < 1.0        | < 1.0        | < 1.0          | 31                      | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | < 1.0             | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-1       | 7/8/2015                         | MW-1         | LSA               |           | < 1.0            | < 1.0        | < 1.0        | < 1.0          | 27                      | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | < 1.0             | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 6/1/2017                         | MW-1         | CSA               |           | <0.50            | <0.50        | <0.50        | 0.48J          | 28                      | <1.0         |                      |                     | <0.50           | 0.57                   | 0.23J                  | 0.19J             | <0.50            | <0.50          | <0.50            | <0.50             | 0.95                 | 0.26J                |                      |               | <5.0       | <5.0                 |                 | <0.50              |              | 14         | NA                  | 0.17J               | <0.30        | <1.0        | <1.0        | 0.061 0.035            |
|            | 10/3/2019                        | MW-1         | Post-CSA          | 24.8      | 15.4             | 27.4         | 47.1         | 109            | 15.2                    | 9.8          | <0.50                | <0.50               | 7.7             | 45                     | 32.5                   | 1.9               | 12.5             | 2.4            | 3.4              | <0.50             | 2.4                  | NA                   | 0.77                 | 26.2          | 7.7        | 9.7                  | 0.75            | 3.1                | 0.48J        | 20.4       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 8/6/2014                         | MW-2         | IAA               |           | < 1              | < 1          | < 1          | < 3            | 12.9                    | < 2          |                      |                     | < 1             | < 2                    | < 1                    | NA                | < 1              | < 1            | < 1              | < 1               | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | 1.1 J               | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 4/8/2015                         | MW-2         | LSA               |           | < 1.0            | < 1.0        | < 1.0        | < 1.0          | 8.8                     | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | 1.3               | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-2       | 7/8/2015                         | MW-2         | LSA               |           | < 1.0            | < 1.0        | < 1.0        | < 1.0          | 5.9                     | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | 1.3               | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 6/1/2017                         | MW-2         | CSA               |           |                  |              |              |                |                         |              |                      |                     |                 |                        |                        |                   |                  |                | Free F           | Product           |                      |                      |                      |               |            |                      |                 |                    |              |            |                     |                     |              |             |             |                        |
|            | 10/3/2019                        | MW-2         | Post-CSA          |           | 1                | 1            | 1            | 1              |                         | 1            |                      |                     |                 |                        | 1                      |                   |                  |                |                  |                   | 1                    | <u> </u>             |                      |               |            |                      |                 |                    |              |            |                     |                     | 1            | <del></del> | <u> </u>    |                        |
|            | 8/6/2014                         | MW-3         | IAA               |           | < 1              | < 1          | <1           | < 3            | 10.5                    | < 2          |                      |                     | <1              | < 2                    | < 1                    | NA                | <1               | < 1            | < 1              | <1                | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 0.33              | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 4/8/2015                         | MW-3         | LSA               |           | < 1.0            | 2.5          | 1.6          | 7.2            | 12                      | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | 15                | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-3       | 7/8/2015                         | MW-3         | LSA               |           | 6.1              | 34           | 18           | 90             | 12                      | <2           |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | <1                | < 1.0            | < 1.0          | < 1.0            | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 6/1/2017                         | MW-3         | CSA               |           |                  |              |              |                |                         |              |                      |                     |                 |                        |                        |                   |                  |                | Free P           | Product           |                      |                      |                      |               |            |                      |                 |                    |              |            |                     |                     |              |             |             |                        |
|            | 10/3/2019                        | MW-3         | Post-CSA          |           | - 1              | . 1          | - 1          | - 2            | 1.4                     |              |                      |                     | - 1             | <i>,</i> )             | . 1                    | - 1               | - 1              | . 1            | . 1              | - 1               | NIA                  | NIA                  |                      |               | NIA        | NIA                  |                 | NIA                |              | NIA        | < 0.15              |                     |              |             |             |                        |
|            | 10/14/2014                       | MW-4         | IAA               |           | < 1<br>< 1.0     | < 1<br>< 1.0 | < 1<br>< 1.0 | < 3<br>< 1.0   | 1.4<br><1.0             | < 2<br>< 5.0 |                      |                     | < 1<br>< 1.0    | < 2<br>< 5.0           | < 1<br>< 1.0           | < 1<br>< 1.0      | < 1<br>< 1.0     | <1             | < 1<br>< 1.0     | <1<br><1.0        | NA<br>NA             | NA<br>NA             |                      |               | NA<br>NA   | NA<br>NA             |                 | NA<br>NA           |              | NA<br>NA   | < 5.0               | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-4       | 4/8/2015                         | MW-4<br>MW-4 | LSA<br>LSA        |           | < 1.0            | < 1.0        | < 1.0        | < 1.0          | < 1.0                   | < 5.0        |                      |                     | < 1.0           | < 5.0                  | < 1.0                  | < 1.0             | < 1.0            | < 1.0          |                  | < 1.0             | NA                   | NA                   |                      |               | NA         | NA                   |                 | NA                 |              | NA         | < 5.0               | NA<br>NA            | NA<br>NA     | NA<br>NA    | NA          | NA NA                  |
| 10100 -    | 7/8/2015<br>6/1/2017             | MW-4         | CSA               |           | < 1.0            | < 1.0        | < 1.0        | <1.50          | 1.2                     | < 1.0        |                      |                     | < 1.0           | < 3.0<br>0.39J         | < 1.0                  | < 1.0             |                  | < 1.0          |                  | < 1.0             | <0.50                | <0.50                |                      |               | <5.0       | <5.0                 |                 | <0.50              |              | 6.4        | NA                  | 0.095J              |              |             | NA<br><1.0  | 0.14 <1.0              |
|            | 10/3/2019                        | MW-4         | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <1.5           | 0.4                     | <0.50        | <0.50                | <0.50               | <0.50           | < 0.50                 | <0.50                  | <0.50             | <0.50            | <0.50          |                  | <0.50             | 0.20J                | + +                  | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | 7.7        | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-5       | 10/3/2019                        | MW-5         | Post-CSA          | <10       | <0.50            | < 0.50       | <0.50        | <1.5           | 0.31J                   | <0.50        |                      | 0.13J               | <0.50           | < 0.50                 | < 0.50                 | <0.50             | < 0.50           | <0.50          |                  | < 0.50            | 0.17J                |                      | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | 15.4       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-6       | 10/3/2019                        | MW-6         | Post-CSA          | <10       | < 0.50           | <0.50        | <0.50        | <0.50          | 0.34J                   | < 0.50       |                      | 0.24J               | <0.50           | < 0.50                 | <0.50                  | <0.50             | <0.50            | < 0.50         |                  | < 0.50            | 0.47J                |                      | <0.50                | <5.0          | <2.5       | <2.5                 | < 0.50          | <0.50              | < 0.50       | 31.8       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 6/1/2017                         | MW-7         | CSA               |           | 0.25J            | 0.34J        | 0.15J        | 1.68J          | 5.6                     | <1.0         |                      |                     | <0.50           | 0.59                   | 0.98                   | 3.3               | <0.50            | 0.25J          |                  | < 0.50            | <0.50                | <0.50                |                      |               | <5.0       | <5.0                 |                 | <0.50              |              | 1.4        | NA                  | 0.46J               | <0.30        | 0.084J      |             | 0.10 <1.0              |
| MW-7       | 10/3/2019                        | MW-7         | Post-CSA          | <10       | < 0.50           | <0.50        | <0.50        | <1.5           | 10.1                    |              | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | 3.5               | <0.50            | <0.50          |                  | <0.50             | <0.50                | <u> </u>             | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | 2.7        | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 6/1/2017                         | MW-8         | CSA               |           | 0.23J            | 0.28J        | 0.18J        | 1.5            | 17                      | <1.0         |                      |                     | <0.50           | <0.50                  | 0.96                   | 7.4               | <0.50            | <0.50          | <0.50            | <0.50             | <0.50                | <0.50                |                      |               | <5.0       | <5.0                 |                 | <0.50              |              | 5.4        | NA                  | 0.10J               | <0.30        | <1.0        | <1.0        | 0.054 <1.0             |
| MW-8       | 10/3/2019                        | MW-8         | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <0.50          | 7.2                     | <0.50        | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | 0.65              | <0.50            | <0.50          | <0.50            | <0.50             | 0.33J                | <0.50                | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | 12.1       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-9       | 6/1/2017                         | MW-9         | CSA               |           | 0.53             | 0.45J        | 0.13J        | 6.64J          | 17                      | <1.0         |                      |                     | <0.50           | 0.52                   | 0.16J                  | 14                | <0.50            | <0.50          | <0.50            | <0.50             | 0.47J                | <0.50                |                      |               | 2.8J       | 6.8                  |                 | <0.50              |              | 12         | NA                  | <1.0                | <0.30        | <1.0        | 0.16J       | 0.071 <1.0             |
| 10100-5    | 10/3/2019                        | MW-9         | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <0.50          | 0.46J                   | <0.50        | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | 0.21J             | <0.50            | <0.50          | <0.50            | <0.50             | <0.50                | <0.50                | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | 1.8        | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-10      | 6/1/2017                         | MW-10        | CSA               |           | 9.6              | 76           | 68           | 310            | <2.0                    | 24           |                      |                     | 11              | 150                    | 40                     | <2.0              | 26               | 15             | 6.6              | <2.0              | <2.0                 | <2.0                 |                      |               | <20        | <20                  |                 | 4.4                |              | 6.2        | NA                  | 26                  | <0.30        | <1.0        | 15          | <0.050 1.4             |
| MW-11      | 6/1/2017                         | MW-11        | CSA               |           | 94               | 480          | 180          | 880            | 6.5                     | 66           |                      |                     | 32              | 440                    | 120                    | <5.0              | 78               | 60             | <5.0             | <5.0              | <5.0                 | <5.0                 |                      |               | <50        | <50                  |                 | 18                 |              | 3.5J       | NA                  | 59                  | 1.7J         | 4.0J        | 38          | 4.6 4.5                |
|            | 10/3/2019                        | MW-11        | Post-CSA          |           | -                |              | •            |                |                         |              |                      |                     |                 |                        |                        |                   |                  |                | Free P           | Product           |                      |                      |                      |               |            |                      |                 | -                  |              |            |                     |                     |              |             |             |                        |
| MW-12D     | 6/14/2016                        | MW-12D       | CSA               |           | <0.50            | <0.50        | <0.50        | <1.50          | 0.93                    | <1.0         |                      |                     | <0.50           | <0.50                  | <0.50                  | <0.50             | <0.50            | <0.50          | <0.50            | <0.50             | <0.50                | <0.50                |                      |               | <5.0       | <5.0                 |                 | <0.50              |              | 2.3        | NA                  | <5.0                | <5.0         | <5.0        | <5.0        | <5.0 <5.0              |
|            | 10/3/2019                        | MW-12D       | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <0.50          | 1.1                     | <0.50        | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | <0.50             | <0.50            | <0.50          | <0.50            | <0.50             | 0.17J                | <0.50                | <0.50                | <0.50         | <0.50      | <0.50                | <0.50           | <0.50              | <0.50        | 7.8        | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-13      | 10/3/2018                        | MW-13        | Post-CSA          |           | <0.5             | <0.5         | <0.5         | <1.5           | <0.5                    | <0.5         |                      |                     | <0.5            | <0.5                   | <0.5                   | <0.5              | <0.5             | <0.5           | <0.5             | <0.5              | <0.5                 | <0.5                 |                      |               | <0.5       | <0.5                 |                 | <0.5               |              | <0.5       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 10/3/2019                        | MW-13        | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <0.50          | <0.50                   | <0.50        | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | <0.50             | <0.50            | <0.50          | <0.50            | <0.50             | <0.50                | <0.50                | <0.50                | <5.0          | <2.5       | <2.5                 | <0.50           | <0.50              | <0.50        | <0.50      | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| MW-14      | 10/3/2018                        | MW-14        | Post-CSA          |           | <5               | <5           | <5           | <15            | 297                     | <5           |                      |                     | <5              | <5                     | <5                     | <5                | <5               | <5             | <5               | <5                | <5                   | <5                   |                      |               | <5         | <5                   |                 | <5                 |              | 17.8       | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
|            | 10/3/2019                        | MW-14        | Post-CSA          | <10       | <0.50            | <0.50        | <0.50        | <0.50          | 26.7                    | <0.50        | <0.50                | <0.50               | <0.50           | <0.50                  | <0.50                  | <0.50             | <0.50            | <0.50          |                  | <0.50             | <0.50                |                      |                      | <5.0          | <2.5       | <2.5                 | <0.50           |                    | <0.50        | 4.9        | NA                  | NA                  | NA           | NA          | NA          | NA NA                  |
| 2L Standar |                                  |              |                   | 6,000     | 1                | 600          | 600          | 500            | 20                      | 6            | NE                   | 0.7                 | 70              | 400                    | 400                    | 70                | 70               | 70             | 70               | 70                | NE                   | NE                   | 0.4                  | 40            | NE         | NE                   | 5               | NE                 | NE           | 70         | 0.05                | 30                  | 80           | 300         | 6           | 200 200                |
|            | s contamination                  | level        |                   | 6,000,000 | 5,000            | 260,000      | 84,500       | 85,500         | 20,000                  | 6,000        | NE                   | 700                 | 25,000          | 28,500                 | 25,000                 | 70,000            | 30,000           | 6,900          | 8,500            | 15,000            | NE                   | NE                   | 400                  | 40,000        | NE         | NE                   | 5,000           | NE                 | NE           | 70,000     | 4.7                 | 12,500              | 2,120        | 990         | 6,000       | 410 200                |
| Results in | ug/L                             |              |                   |           |                  |              |              |                |                         |              |                      |                     |                 |                        |                        |                   |                  |                |                  |                   |                      |                      |                      |               |            |                      |                 |                    |              |            |                     |                     |              |             |             |                        |

Concentrations in bold exceeded the 2L Standard

Concentrations in bold and italics exceeded the GCL

NA= Not Analyzed

J = Estimated Value

NE= Not Established

Facility ID #: 0-001979

Figure D-6 2019 MR - Summary of groundwater sampling results