

June 5, 2020

Ashley B. Cox, Jr, LG Geotechnical Engineering Unit North Carolina Department of Transportation 1020 Birch Ridge Drive Raleigh, NC 27610

RE: PHASE II INVESTIGATION OF PARCEL 265

Texas Quick Fuel, Laxmi Food Mart, Inc. 4990 Reidsville Road, Walkertown, NC ESP Project No. GR22.325

TIP Number: R-2577A
WBS Number: 37405.1.2
County: FORSYTH

Description: US 158 from North of US 421 to SR 1965 (Belews Creek Road)

Dear Mr. Cox:

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 received on April 14, 2020, and our Cost Proposal dated April 23, 2020.

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/CRB/NAZ

TABLE OF CONTENTS

| 1.0 | INTRODUCTION | 1 |
|-----|----------------------|---|
| 2.0 | HISTORY | 1 |
| 2.1 | Ownership | 1 |
| 2.2 | NCDEQ Information | 1 |
| 3.0 | SITE OBSERVATIONS | 2 |
| 4.0 | METHODS | 2 |
| 4.1 | Geophysics | 3 |
| 4.2 | Borings | 3 |
| 4.3 | Soil Sample Protocol | 3 |
| 4.4 | Groundwater | 4 |
| 5.0 | RESULTS | 4 |
| 5.1 | Geophysics | 4 |
| 5.2 | Sample Data | 4 |
| 5.3 | Sample Observations | 4 |
| 6.0 | CONCLUSIONS | 4 |
| 7.0 | RECOMMENDATIONS | 5 |
| 8.0 | LIMITATIONS | 5 |

TABLES

| Table 1 | 1 | So | il | Samp | ole | P | ID | Rea | ding | gs |
|---------|---|----|----|------|-----|---|----|-----|------|----|
| | _ | | | | - | | | | | |

Table 2 Soil Sample UVF Results Summary

TABLE OF CONTENTS (continued)

FIGURES

| Figure 1 | Parcel 265, Laxmi Food Mart, Inc, Site Vicinity Map |
|----------|---|
| Figure 2 | Parcel 265, Laxmi Food Mart, Inc, Site Photographs |
| Figure 3 | Parcel 265, Laxmi Food Mart, Inc, EM61 Early Time Gate Data |
| Figure 4 | Parcel 265, Laxmi Food Mart, Inc, EM61 Differential Data |
| Figure 5 | Parcel 265, Laxmi Food Mart, Inc, EM61 Early Time Gate Data on Plan Sheet |
| Figure 6 | Parcel 265, Laxmi Food Mart, Inc, EM61 Differential Data on Plan Sheet |
| Figure 7 | Parcel 265, Laxmi Food Mart, Inc, Boring Locations on Plan Sheet |
| Figure 8 | Parcel 265, Laxmi Food Mart, Inc, Soil Analytical Results on Plan Sheet |
| Figure 9 | Legend for Plan Sheet Figures |

APPENDICES

| Appendix A | Soil Boring Logs |
|------------|-----------------------------------|
| Appendix B | RED Lab Laboratory Testing Report |
| Appendix C | Chain-of-Custody Form |
| Appendix D | Figure from 1997 SSE Report |

1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to widen U.S. 158 (Reidsville Road) from north of U.S. 421/I-40 Business to Belews Creek Road (S.R. 1965) in Forsyth County. The primary purpose of this project is to improve traffic operations. The NCDOT requested that ESP Associates, Inc. (ESP) perform a Phase II geoenvironmental investigation of the proposed right-of-way (ROW) and proposed temporary construction easement (E) (collectively, proposed ROW/easement) of Parcel 265 to locate possible underground storage tanks (USTs), sample soil, and delineate potential contaminated soil. Parcel 265 is located on the south side of Reidsville Road between at the intersection with Old Belews Creek Road (Figure 1).

2.0 HISTORY

2.1 Ownership

The following is the current parcel ownership, according to the Forsyth County GIS (https://www.forsyth.cc/Tax/geodata.aspx):

• Deed Date: 5/26/2005

• Current Owner: Laxmi Food Mart, Inc

• Owner's Address: 2184 Cherrywood Dr., Clemmons NC 27012

2.2 NCDEQ Information

This parcel was listed as Site 5 in the 2004 Phase 1 report that was provided by the NCDOT. We checked the following sources at the NCDEQ with the results summarized below:

- Division of Waste Management Site Locator Tool
 - o Facility #16179
 - Indicated UST Incident #30195
 - o Site Name: Caudles Tire Sales B
 - o Numerous files in Documents Link from 1997 to 1998.
- NC UST Facility Operating Permits
 - o Facility #16179 (3 USTs)
- Registered USTs Database
 - o 1 UST closed by removal on 7/15/1992
 - Facility: Caudles Discount Tire Sales
 - 3 Registered USTs installed on 9/29/1998
 - Facility: Quick Mart
 - 10,000 and 8,000-gallon gasoline USTs
 - 8,000-gallon kerosene UST
- Incident Management Database (Regional USTs)
 - o Incident: None listed

Name: Caudles Tire Sales

■ UST No.: WS-1994

Date Occurred: None listed

Closed out: 4/14/1993Contamination: No

Comment: None

o Incident: 18056

Name: Caudles Tire Sales - B

UST No.: WS-5245

Date Occurred: 7/14/1997Closed out: 12/8/1997

- Contamination: None listed (probably TPH contaminated soil from the former dispenser island that was land-farmed on the south end of the parcel).
- Comment: Samples from Pump Island Associated with Prev. Removed USTs.
- Winston-Salem Regional NCDEQ Office
 - Provided copies of the several reports that were duplicates of reports in NCDEQ
 Site Locator linked documents.
- Summary
 - o NCDEQ-held reports reference closure of USTs probably in the 1970s.
 - o The former tank pit for the UST removed in 1992 was located approximately at the north end of the current canopy. The dispenser island was located approximately 10 feet south of the former tank pit. Our closest boring is B265-3.
 - A copy of a schematic figure from the July 1997 Site Sensitivity Evaluation (SSE) report showing the relative locations of pertinent site features in included in Appendix D.

3.0 SITE OBSERVATIONS

During our May 2020 field work, the site was occupied by a petroleum station and market (Texas Quik Fuel). The ground in the study area was covered by asphalt pavement and grass. We could not locate a water meter for the site. The existing tank pit and the dispensers were located outside of the proposed ROW/easement.

4.0 METHODS

ESP performed a geophysical study of the area designated by the NCDOT on May 4, 2020. The geophysical investigation area was approximately 0.25 acres and encompassed the proposed ROW/easement. We performed direct-push drilling and sampling of subsurface soils on May 15, 2020. 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 (Figures 3 and 4). Location control was provided in real-time using a differential global positioning system (DGPS). No EM61 anomalies were observed that required additional investigation using ground-penetrating radar (GPR). We use a Noggin 250 MHz GPR to confirm the limits of the active USTs and mark a few unknown lines in the study area.

4.2 Borings

ESP performed direct-push drilling activities within the proposed ROW/easement of Parcel 265 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Eight borings were drilled, designated B265-1 through B265-8 (Figure 7). The soil borings were advanced using a GeoProbe 7822DT drill rig. Boring B265-3 was located near the previous tank pit. Borings B265-5 and B265-7 were located near proposed drop inlets. Boring B265-6 was located near the existing diesel dispenser.

Soil samples were obtained to a maximum depth of approximately 10 feet using two 5-foot long Macro-Core® tubes. Soil cores varied in recovery from 3.4 to 5.0 feet (68 to 100 percent recovery). The sampling equipment was decontaminated prior to drilling and between borings by the driller using a Liquinox® detergent solution.

4.3 Soil Sample Protocol

Representative soil samples were taken from the Macro-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 in each boring ranged from 0.4 to 1.4 parts per million (ppm) (Table 1).

Seven soil samples were selected for 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 CoreTM 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 ultraviolet fluorescence (UVF) method for benzene, toluene, ethylbenzene, and xylene (BTEX);

gasoline range organics (GRO); diesel range organics (DRO); total petroleum hydrocarbons (TPH); total aromatics; polycyclic aromatic hydrocarbons (PAHs); and benzo(a)pyrene (BaP).

4.4 Groundwater

Groundwater was not encountered in the 8 borings.

5.0 RESULTS

5.1 Geophysics

The EM61 early time gate data show the response from both shallow and deeper metallic objects (Figure 3). The differential response reduces the effect of shallow anomalies and emphasizes anomalies from larger and more deeply buried metallic objects, such as USTs (Figure 4). Our evaluation of the differential response indicated the anomalies were caused by known site features. The GPR data indicated that the known USTs did not extend outside the edges of the concrete slab over the USTs.

The EM61 early time gate response and differential response are shown on the plan sheet on Figures 5 and 6, respectively.

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 milligrams per kilogram (mg/kg or ppm).

5.3 Sample Observations

The results of the laboratory testing indicated that DRO was detected in 3 samples but the readings were below the NCDEQ action level of 100 ppm for DRO (Table 2). BTEX, GRO, and BaP values were below the laboratory detection limits for the 7 samples tested. PAHs were detected in one sample with a value of 0.21 ppm (Appendix B).

6.0 CONCLUSIONS

The results of the Phase II investigation for Parcel 265 of NCDOT Project R-2577A indicate that there is no evidence for abandoned USTs in the proposed ROW/easement. Laboratory testing detected DRO petroleum compounds in 3 of the 7 soil samples tested but the readings were less than the NCDEQ action level of 100 ppm for DRO. The PID readings during sampling ranged from 0.1 to 1.4 ppm.

7.0 RECOMMENDATIONS

No limitations on construction activities or special handling of excavated soil are recommended for Parcel 265. Groundwater was not encountered in the upper 10 feet in the study area. The existing tank pit and dispenser islands are outside of the proposed ROW/easement.

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

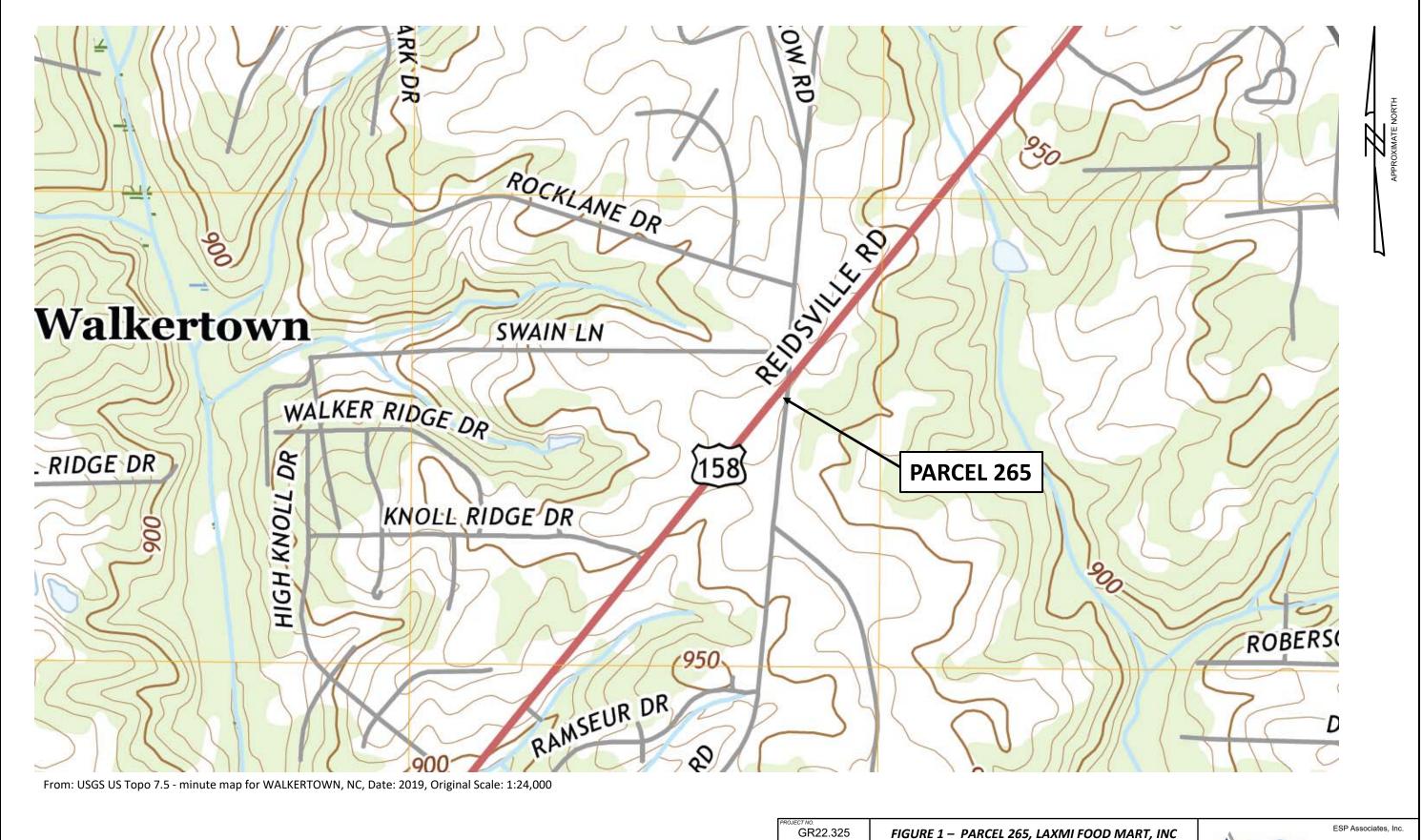
TABLE 1 SOIL SAMPLE PID READINGS

| Boring | Sample Depth Range with PID > 10 ppm (feet bgs) | Maximum PID Reading (ppm) and Sample Depth (feet bgs) |
|--------|---|--|
| B265-1 | none | 0.4 (2.0-2.5) |
| B265-2 | none | 1.4 (3.0-3.5) |
| B265-3 | none | 0.9 (1.0-1.5) |
| B265-4 | none | 0.6 (3.0-3.5) |
| B265-5 | none | 1.3 (3.0-3.5) |
| B265-6 | none | 0.5 (2.0-2.5) |
| B265-7 | none | 0.6 (3.0-3.5) |
| B265-8 | none | 0.6 (5.0-5.5) |

TABLE 2 SOIL SAMPLE UVF RESULTS SUMMARY

| Boring | Sample ID (depth in feet bgs) | Date Collected | BTEX (C6-C9) (mg/kg) | GRO (C5-C10) (mg/kg) | DRO (C10-C35) (mg/kg) | PAHs (mg/kg) |
|--------|-------------------------------------|-------------------|----------------------------|----------------------------|-----------------------------|-----------------|
| B265-2 | S3 (3.0-3.5) | 5/15/20 | < 0.5 | <0.5 | 3.9 | 0.21 |
| B265-3 | S9 (9.0-9.5) | 5/15/20 | <0.49 | <0.49 | < 0.49 | < 0.16 |
| B265-4 | S3 (3.0-3.5) | 5/15/20 | <0.54 | <0.54 | 1.1 | < 0.17 |
| B265-5 | S7 (7.0-7.5) | 5/15/20 | < 0.47 | < 0.47 | < 0.47 | < 0.15 |
| B265-6 | S6 (6.0-6.5) | 5/15/20 | < 0.47 | < 0.47 | < 0.47 | < 0.15 |
| B265-7 | S3 (3.0-3.5) | 5/15/20 | < 0.45 | < 0.45 | 0.72 | < 0.14 |
| B265-8 | S6 (6.0-6.5) | 5/15/20 | <0.34 | <0.34 | <0.34 | <0.11 |

FIGURES



AS SHOWN

5/29/2020

CRP/EDB

SESP

SITE VICINITY MAP

NCDOT PROJECT R-2577A

US 158 FROM NORTH OF US 421 TO SR 1965

FORSYTH COUNTY, NORTH CAROLINA

7011 Albert Pick Rd., Suite E Greensboro, NC 27409

www.espassociates.com



A. Photograph from north end of parcel, looking south. Diesel dispenser in foreground.



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



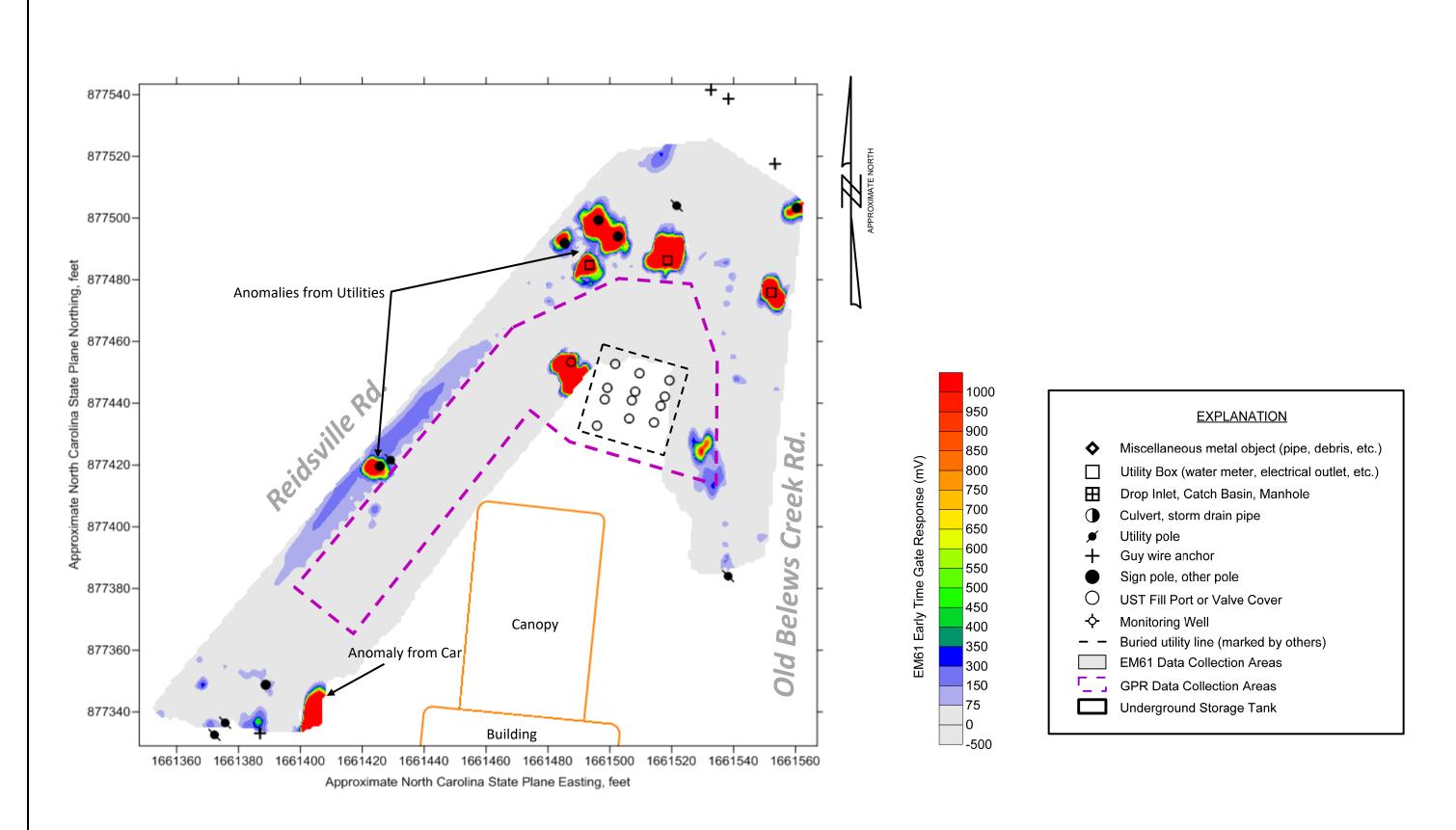
B. Photograph from southeast end of parcel, looking north.



D. Photograph of tank bed, looking south.

| GR22.325 SCALE N/A | FIGURE 2 – PARCEL 265, LAXMI FOOD MART, INC SITE PHOTOGRAPHS |
|--------------------|---|
| 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |

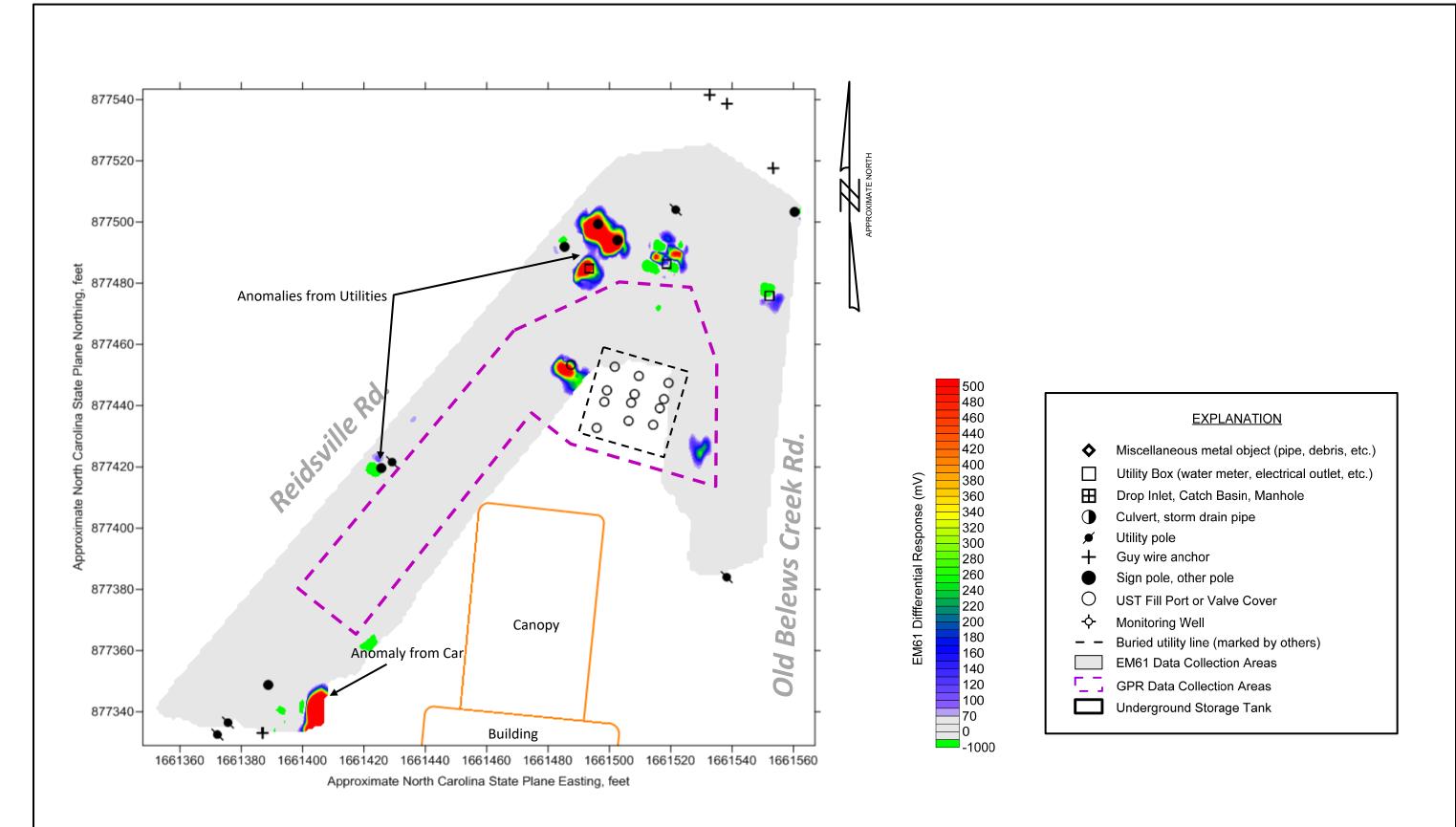




| Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the |
|--|
| accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only. |

| PROJECT | GR22.325 | FIGURE 3 – PARCEL 265 , LAXMI FOOD MART, INC |
|----------|-----------|---|
| SCALE AS | S SHOWN | EM61 EARLY TIME GATE DATA |
| DATE | 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| BY (| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |

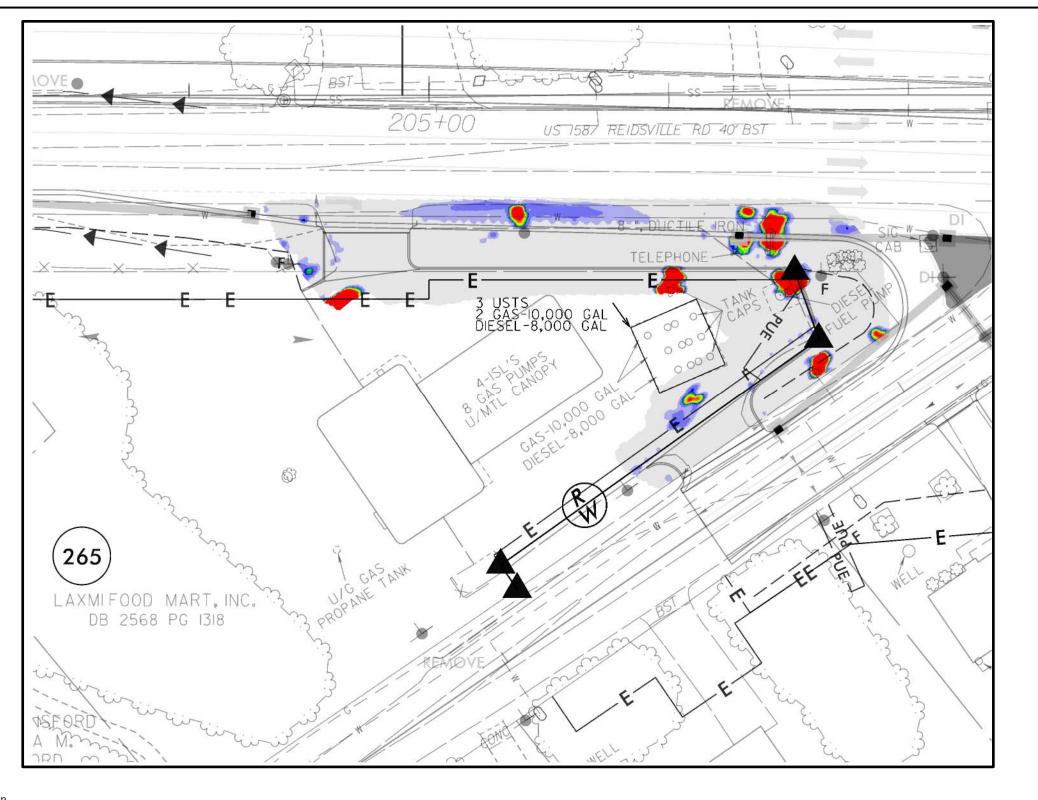


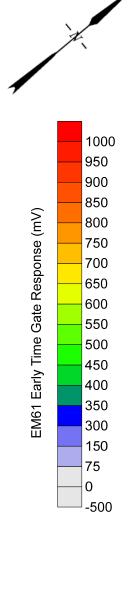


Note: Locations of data and features are approximate and were collected using a DGPS instrument. ESP makes no guarantees as to the accuracy of these locations. Coordinates on the axes of the maps are approximate and provided for general reference only.

| PROJECT NO. GR22.325 | FIGURE 4 – PARCEL 265 , LAXMI FOOD MART, INC |
|----------------------|---|
| AS SHOWN | EM61 DIFFERENTIAL DATA |
| 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |







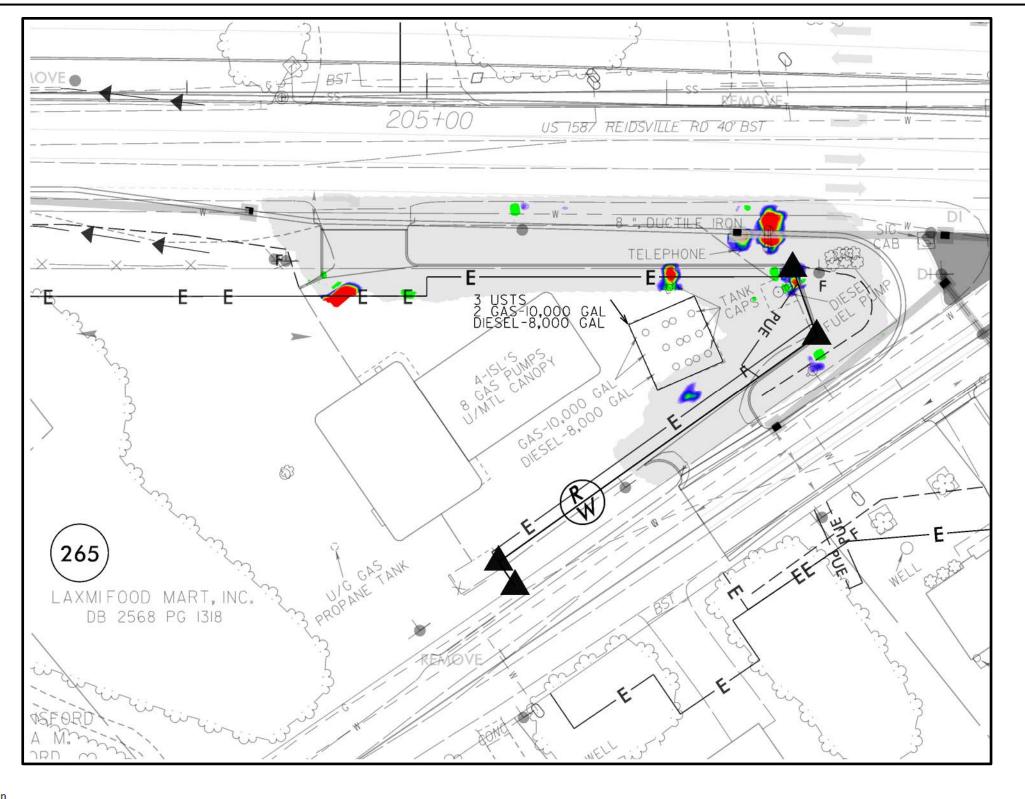
⊟· R-2577A_Geo_env.dgn

- R-2577A_hyd_drn.dgn
- R2577A_ncdot_fs.dgn
- R-2577A_rdy_dsn.dgn
- R-2577A_rdy_dsn_guardrail.dgn
- -- R-2577A_rdy_HISTORIC.dgn
- R-2577A_rdy_map_owner_no.dgn
- R-2577A_rdy_row.dgn
- R-2577A_rdy_row_AG.dgn
- R-2577A_rdy_row_SB.dgn
- R-2577A_rdy_ss.dgn

See Figure 9 for explanation of symbols and line types

| | GR22.325 | FIGURE 5 – PARCEL 265 , LAXMI FOOD MART, INC |
|--|-----------|---|
| | 1" = 40' | EM61 EARLY TIME GATE DATA ON PLAN SHEET |
| | 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| | CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |





R-2577A_Geo_env.dgn

- R-2577A_hyd_drn.dgn
- R2577A_ncdot_fs.dgn
- -
 R-2577A_rdy_dsn.dgn
- R-2577A_rdy_dsn_driveways.dgn
- R-2577A_rdy_dsn_guardrail.dgn
- R-2577A_rdy_map_owner_no.dgn
- R-2577A_rdy_row.dgn
- R-2577A_rdy_row_AG.dgn
- R-2577A_rdy_row_SB.dgn
- R-2577A_rdy_ss.dgn

See Figure 9 for explanation of symbols and line types

| GR22.325 | FIGURE 6 – PARCEL 265 , LAXMI FOOD MART, INC |
|-----------|---|
| 1" = 40' | EM61 DIFFERENTIAL DATA ON PLAN SHEET |
| 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |



500 480 460

440 420 400

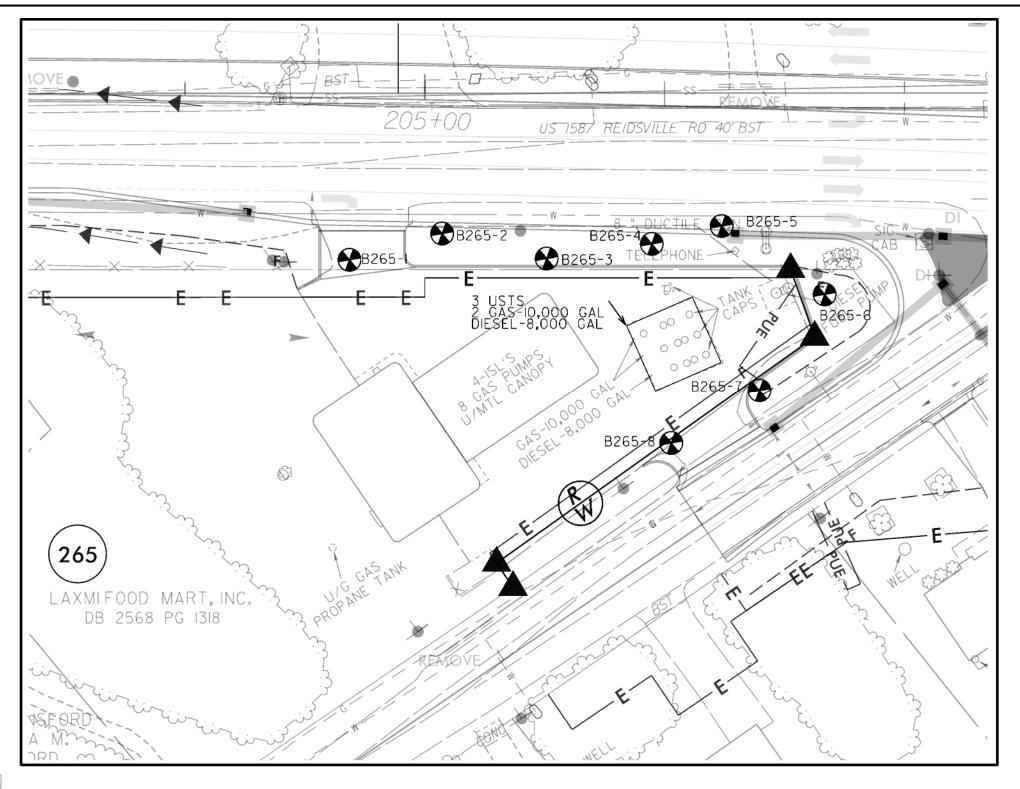
380

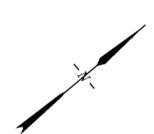
360

70

-1000

EM61 Differential Response (mV)





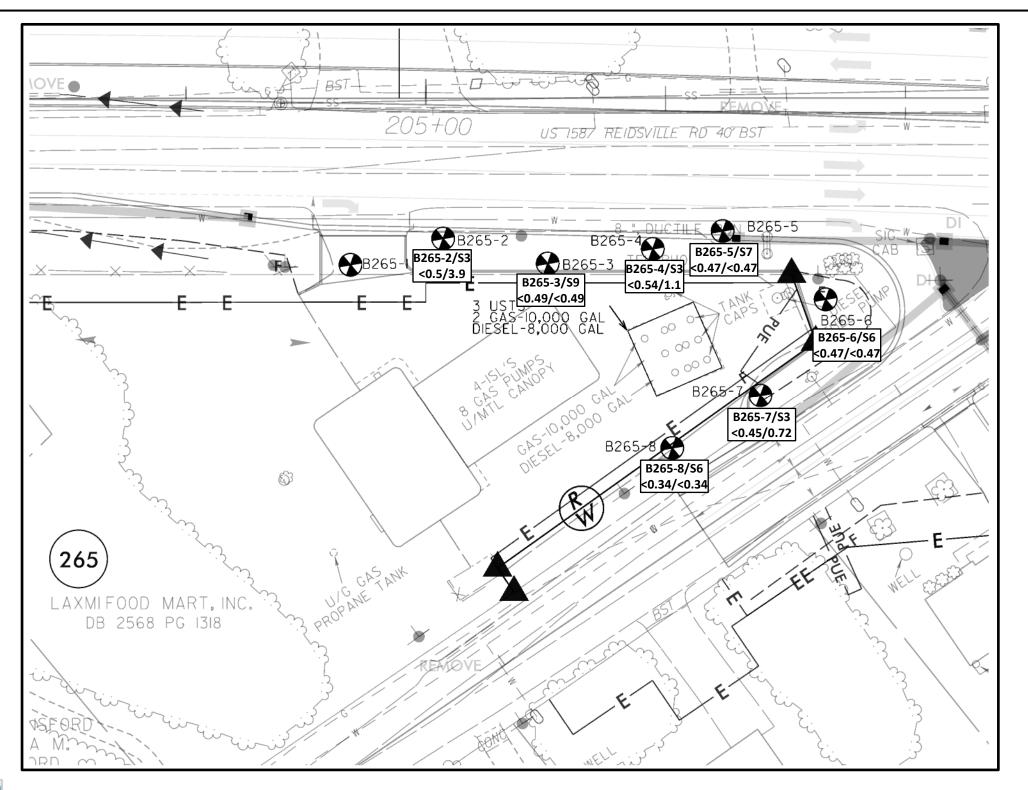
⊟-<mark>w</mark> R-2577A_Geo_env.dgn

- R-2577A_hyd_drn.dgn
- R2577A_ncdot_fs.dgn
- R-2577A_rdy_dsn.dgn
- -W R-2577A_rdy_dsn_guardrail.dgn
- R-2577A_rdy_HISTORIC.dgn
- R-2577A_rdy_map_owner_no.dgn
- R-2577A_rdy_row.dgn
- -
 R-2577A_rdy_row_AG.dgn
- R-2577A_rdy_row_SB.dgn
- R-2577A_rdy_ss.dgn

See Figure 9 for explanation of symbols and line types

| GR22.325 | FIGURE 7 – PARCEL 265 , LAXMI FOOD MART, INC |
|-----------|---|
| 1" = 40' | BORING LOCATIONS ON PLAN SHEET |
| 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |







Explanation

Maximum Analytical

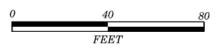
B265-2/S3
Results per Boring

<0.5/3.9
Boring No./Sample No.

Boring No./Sample No. GRO/DRO (mg/kg, ppm)

⊟-MR-2577A_Geo_env.dgn

- R-2577A_hyd_drn.dgn
- -
 R2577A_ncdot_fs.dgn
- R-2577A_rdy_dsn.dgn
- -₩ R-2577A_rdy_dsn_driveways.dgn
- R-2577A_rdy_dsn_guardrail.dgn
- R-2577A_rdy_HISTORIC.dgn
- R-2577A_rdy_map_owner_no.dgn
- R-2577A_rdy_row.dgn
- -
 R-2577A_rdy_row_AG.dgn
- R-2577A_rdy_row_SB.dgn
- R-2577A_rdy_ss.dgn



See Figure 9 for explanation of symbols and line types

| GR22.325 | FIGURE 8 – PARCEL 265 , LAXMI FOOD MART, INC |
|-----------|---|
| 1" = 40' | SOIL ANALYTICAL RESULTS ON PLAN SHEET |
| 5/29/2020 | NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 |
| CRP/EDB | FORSYTH COUNTY, NORTH CAROLINA |



| | | CONVENTION | | na, division of highwa AN SHEET SYMB(| | | |
|---|------------|--|------------------------|---|---------------|--|-----------------|
| BOUNDARIES AND PROPERT | Y: | Note: Not to | | LU.E. = Subsurface Utility Engineering | | WATER: | |
| State Line — | | KAILKUADS: | | | | Water Manhole | - ® |
| County Line — | | Standard Gauge | CSX TRANSPORTATION | Hedge ——————————————————————————————————— | | Water Meter | - 0 |
| ownship Line | | RR Signal Milepost — | MILEPOST 35 | | | Water Valve | - ⊗ |
| City Line | | Switch — | SWITCH | Orchard — | | Water Hydrant | - 🗞 |
| eservation Line | | RR Abandoned | | Vineyard — | - Vineyard | U/G Water Line LOS B (S.U.E*) | |
| Property Line — | | RR Dismantled | | EXISTING STRUCTURES: | | U/G Water Line LOS C (S.U.E*) | |
| xisting Iron Pin | | | | MAJOR: | | U/G Water Line LOS D (S.U.E*) | _ |
| Computed Property Corner | | RIGHT OF WAY & PROJECT C | ONTROL: | Bridge, Tunnel or Box Culvert | CONC | Above Ground Water Line | A/G Water |
| roperty Monument | | Secondary Horiz and Vert Control Point | • | Bridge Wing Wall, Head Wall and End Wall | —) conc ww (| Above Ground Waler Line | |
| arcel/Sequence Number | | Primary Horiz Control Point — | 0 | MINOR: | | TV: TV Pedestal ———————————————————————————————————— | (2) |
| xisting Fence Line | ×××- | Primary Horiz and Vert Control Point | • | Head and End Wall | CONC HW | TV Tower | |
| roposed Woven Wire Fence | | Exist Permanent Easment Pin and Cap ——— | \Diamond | Pipe Culvert — | -=== | | _ |
| Proposed Chain Link Fence | | New Permanent Easement Pin and Cap — | • | Footbridge — | · > | U/G TV Cable Hand Hole | |
| roposed Barbed Wire Fence | | Vertical Benchmark ———— | Ě | Drainage Box: Catch Basin, DI or JB | СВ | U/G TV Cable LOS B (S.U.E.*) | |
| xisting Wetland Boundary | | Existing Right of Way Marker | $\overline{\triangle}$ | Paved Ditch Gutter | | U/G TV Cable LOS C (S.U.E.*) | |
| roposed Wetland Boundary | | Existing Right of Way Line | | Storm Sewer Manhole — | · | U/G TV Cable LOS D (S.U.E.*) | |
| roposed Wetland Boundary ———————————————————————————————————— | | New Right of Way Line | | Storm Sewer - | s | U/G Fiber Optic Cable LOS B (S.U.E.*) — | |
| | | New Right of Way Line with Pin and Cap— | ₽ | | | U/G Fiber Optic Cable LOS C (S.U.E.*) — | — — — FV FQ— - |
| xisting Endangered Plant Boundary — | | New Right of Way Line with Fin and Cap— | | UTILITIES: | | U/G Fiber Optic Cable LOS D (S.U.E.*) | |
| kisting Historic Property Boundary | | New Right of Way Line with Concrete or Granite RW Marker | | POWER: | | GAS: | |
| nown Contamination Area: Soil | | New Control of Access Line with | | Existing Power Pole | - • | Gas Valve | - 💠 |
| otential Contamination Area: Soil ——— | | Concrete C/A Marker | | Proposed Power Pole | | Gas Meter | - 6 |
| nown Contamination Area: Water | | Existing Control of Access | —— (\$) —— | Existing Joint Use Pole | | U/G Gas Line LOS B (S.U.E.*) | - |
| otential Contamination Area: Water —— | | New Control of Access | | Proposed Joint Use Pole | | U/G Gas Line LOS C (S.U.E.*) | |
| ontaminated Site: Known or Potential — | — XX XX | Existing Easement Line | ——Ē—— | Power Manhole — | | U/G Gas Line LOS D (S.U.E.*) | |
| BUILDINGS AND OTHER CU | LTURE: | New Temporary Construction Easement – | ——Е—— | Power Line Tower | | Above Ground Gas Line | A/G Gos |
| as Pump Vent or U/G Tank Cap ——— | o | New Temporary Drainage Easement —— | TDF | Power Transformer — | - 🛮 | | |
| ign ———— | | New Permanent Drainage Easement — | —— PDE —— | U/G Power Cable Hand Hole | - | SANITARY SEWER: | |
| Vell — | | New Permanent Drainage / Utility Easement | ——DUE—— | H-Frame Pole | | Sanitary Sewer Manhole | - ⊕ |
| mall Mine | ─ × | New Permanent Utility Easement | —— PUE —— | U/G Power Line LOS B (S.U.E.*) | | Sanitary Sewer Cleanout ———————————————————————————————————— | - (|
| oundation — | | New Temporary Utility Easement ——— | | U/G Power Line LOS C (S.U.E.*) | | U/G Sanitary Sewer Line ————— | |
| rea Outline | | New Aerial Utility Easement | —— TUE —— | U/G Power Line LOS D (S.U.E.*) | | Above Ground Sanitary Sewer — | A/G Sanitary Se |
| demetery | | New Aerial Utility Easement | ——— AUE——— | | | SS Forced Main Line LOS B (S.U.E.*) —— | |
| uilding — | _ ~~ | ROADS AND RELATED FEATUR | DEC. | TELEPHONE: | | SS Forced Main Line LOS C (S.U.E.*) —— | |
| chool — | | Existing Edge of Pavement | | Existing Telephone Pole - | | SS Forced Main Line LOS D (S.U.E.*) | rss |
| hurch — | | Existing Curb — | | Proposed Telephone Pole - | | | |
| am — | | | | Telephone Manhole | - • | MISCELLANEOUS: | |
| TYDROLOGY: | | Proposed Slope Stakes Cut | | Telephone Pedestal | - п | Utility Pole — | |
| tream or Body of Water — | | Proposed Slope Stakes Fill | | Telephone Cell Tower | | Utility Pole with Base — | |
| lydro, Pool or Reservoir — | | Proposed Curb Ramp | | U/G Telephone Cable Hand Hole — | | Utility Located Object — | - ⊙ |
| urisdictional Stream | | Existing Metal Guardrail | | U/G Telephone Cable LOS B (S.U.E.*) | | Utility Traffic Signal Box — | - B |
| uffer Zone 1 ——————————————————————————————————— | | Proposed Guardrail ———————————————————————————————————— | | U/G Telephone Cable LOS C (S.U.E.*) | | Utility Unknown U/G Line LOS B (S.U.E.*) | |
| uffer Zone 2 ——————————————————————————————————— | | Existing Cable Guiderail | | U/G Telephone Cable LOS D (S.U.E.*) | | U/G Tank; Water, Gas, Oil — | - |
| low Arrow | | Proposed Cable Guiderail | | U/G Telephone Conduit LOS B (S.U.E.*) | | Underground Storage Tank, Approx. Loc. — | UST |
| isappearing Stream — | | Equality Symbol —————— | • | U/G Telephone Conduit LOS C (S.U.E.*) | | A/G Tank; Water, Gas, Oil — | |
| pring — | | Pavement Removal —————— | \bowtie | U/G Telephone Conduit LOS D (S.U.E.*) | | Geoenvironmental Boring | - 😸 |
| Vetland ———————————————————————————————————— | | VEGETATION: | | U/G Fiber Optics Cable LOS B (S.U.E.*) | | U/G Test Hole LOS A (S.U.E.*) | • |
| | | Single Tree | - & | | | Abandoned According to Utility Records — | • |
| Proposed Lateral, Tail, Head Ditch ——— | | Single Shrub | - 0 | U/G Fiber Optics Cable LOS C (S.U.E.*) | | | AATOK |

GR22.325
GR22.325
N/A

DATE
5/29/2020
GY
CRP/EDB

FIGURE 9 LEGEND FOR PLAN SHEET FIGURES

NCDOT PROJECT R-2577A US 158 FROM NORTH OF US 421 TO SR 1965 FORSYTH COUNTY, NORTH CAROLINA



APPENDIX A SOIL BORING LOGS

| | FSP | | | FIELD BORING LOG | BORING NO. |
|------------|----------------------|----------------------|-------------------------------|--|----------------------|
| V / | | NODOT D | 05774 Db | | D265 1 |
| | IECT NAME: ATION: | | -2577A Phase Corner of Par | | B265-1 |
| | OF BORING | | Direct Pus | | 1 of 1 |
| DRILL | LING FIRM: | | SAEDACC | DATE FINISHED: 5/15/20 TOTAL DEPTH: | |
| DRILL | | | Brian Ewin GeoProbe 72 | | N/A ft |
| | _RIG: | | | 2DT LOGGED BY: R. Pastrana COMMENT: | |
| DЕРТН (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' -0.4' - Asphalt 0.4' - 0.8' - ABC Stone | Core 1 Rec 4.3'/5.0' |
| | | | | 0.8' - 10.0' - Red-Brown, Sandy SILT, Micaceous, Moist | |
| 1 | S-1 | 1.0-1.5 | 0.3 | | |
| | | | | | |
| 2 | S-2 | 2.0-2.5 | 0.4 | | - |
| | | | | | |
| 3 | S-3 | 3.0-3.5 | 0.2 | | |
| J | 3-3 | 3.0-3.5 | 0.2 | | |
| | | | | | |
| 4 | S-4 | 4.0-4.5 | 0.3 | | |
| | | | | | |
| 5 | S-5 | 5.0-5.5 | 0.2 | 5.0' - Grading to Brown, Mottled | Core 2 Rec 4.8'/5.0' |
| V | | | | | |
| | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.1 | | - |
| | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.1 | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.2 | | |
| | | 0.0 0.0 | 0.2 | | |
| | | | | | |
| 9 | S-9 | 9.0-9.5 | 0.2 | | |
| | | | | | |
| 10 | | | | | |
| | | | | | |
| 44 | | | | | |
| 11 | | | | | |
| | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| | | | | | |
| | | | | | |
| 14 | - | | | | |
| | | | | | |
| 4- | ļ | | | | |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|------------|---------------|----------------------|-------------------------|--|----------------------|
| DDQ. | LUI | NCDOT R | ·2577A Phase | | B265-2 |
| LOCA | | | | e of West entrance | D203-2 |
| | OF BORING | | Direct Pus | | 1 of 1 |
| | .ING FIRM: | | SAEDACC | | |
| DRILL | | | Brian Ewin | | |
| DRILL | | | GeoProbe 72 | 2DT LOGGED BY: R. Pastrana COMMENT: | |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| - | | | | 0.0' -0.5' - Asphalt 0.5' - 1.2' - ABC Stone | Core 1 Rec 4.3'/5.0' |
| | | | | U.S - 1.2 - ADC Stolle | <u> </u> |
| 1 | S-1 | 1.0-1.5 | 0.6 | 1.2' - 10.0' - Red-Brown, Sandy SILT, Dry | |
| | | | | 1.2 - 10.0 - Ned-blown, Sandy Sich, Dry | |
| 2 | S-2 | 2.0-2.5 | 0.8 | | |
| 0 | | 0005 | 1 | | |
| 3 | S-3 | 3.0-3.5 | 1.4 | | |
| 4 | S-4 | 4.0-4.5 | 0.5 | | |
| | | | | | |
| | | | | | |
| 5 | S-5 | 5.0-5.5 | 0.5 | | Core 2 Rec 4.7'/5.0' |
| | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.6 | | |
| | | | | | |
| | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.4 | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.4 | | |
| | 3-0 | 0.0-0.5 | 0.4 | | |
| 9 | S-9 | 9.0-9.5 | 0.7 | | |
| | | | | | |
| 10 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| | | | | | |
| 10 | | | | | |
| 12 | | | | | _ |
| | | | | | |
| 13 | | | | | - |
| | | | | | |
| | | | | | |
| 14 | | | | | |
| | | | | | |
| | | | | | |

| | ESP | | | FIELD BORING LOG | BORING NO. |
|----------------|---------------|----------------------|----------------------------|---|----------------------|
| PROJ | 14 14 14 14 | NCDOT R- | 2577A Phase | | B265-3 |
| LOCA | TION: | On edge of | Asphalt near | NW Corner of Canopy | |
| | OF BORING | | Direct Pusl | | |
| | ING FIRM: | | SAEDACC | | |
| DRILL DRILL | | | Brian Ewing GeoProbe 72 | | |
| | | | | EGGGED BT. 11.1 astralia GGWWEITT | · |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' -0.4' - Asphalt 0.4' - 1.3' - ABC Stone | Core 1 Rec 4.6'/5.0' |
| 1 | S-1 | 1.0-1.5 | 0.9 | 1.3' - 7.0' - Red-Brown, Clayey SILT, Moist | |
| 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 | 0.6 | | |
| 5 | S-5 | 5.0-5.5 | 0.3 | | Core 2 Rec 4.3'/5.0' |
| 6 | S-6 | 6.0-6.5 | 0.4 | | |
| 7 | S-7 | 7.0-7.5 | 0.2 | 7.0' -10.0' - Red-Brown, Sandy SILT, Moist | |
| 8 | S-8 | 8.0-8.5 | 0.3 | | |
| 9 | S-9 | 9.0-9.5 | 0.3 | | |
| 10 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| | | | | | |
| 14 | | | | | |
| | | | | | |

15

| | FSP | | | FIELD BORING LOG | BORING NO. |
|----------------|---------------|----------------------|---------------------------|---|----------------------|
| DD0.1 | LUI | NCDOT R | -2577A Phase | | B265-4 |
| | TION: | | of Known US | | |
| TYPE | OF BORING | | Direct Pus | | 1 of 1 |
| | .ING FIRM: | | SAEDACC | | |
| DRILL DRILL | | | Brian Ewin GeoProbe 72 | | |
| | | | | | · |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' -0.4' - Asphalt 0.4' - 1.0' - ABC Stone | Core 1 Rec 4.5'/5.0' |
| 1 | S-1 | 1.0-1.5 | 0.3 | 1.0' - 4.0' - Red-Brown, Clayey SILT, Moist to Dry | |
| | S-1 | 1.0-1.5 | 0.3 | 1.0 - 4.0 - Red-Blowil, Clayey Sill i, Moist to Diy | |
| 2 | S-2 | 2.0-2.5 | 0.4 | | |
| 3 | S-3 | 3.0-3.5 | 0.6 | | |
| 4 | S-4 | 4.0-4.5 | 0.1 | 4.0' - 10.0' - Red-Brown, Sandy SILT, Moist to Dry | |
| | | | | | |
| 5 | S-5 | 5.0-5.5 | 0.3 | | Core 2 Rec 5.0'/5.0' |
| | | | | | |
| | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.4 | | |
| | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.3 | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.3 | | |
| | | | | | - |
| 9 | S-9 | 9.0-9.5 | 0.2 | | |
| | | | | | |
| 10 | | | | | |
| | | | | | |
| 11 | | | | | |
| | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| 10 | | | | | |
| | | | <u> </u> | | |
| 14 | | | | | |
| | | | | | |
| | | | | | |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|------------|---------------|----------------------|-------------------------|---|----------------------|
| 7 | LUI | NCDOT R | ·2577A Phase | | B265-5 |
| LOCA | | Northwest | Corner of Par | PROJ. NO.: <u>GR22.325</u> | D203-3 |
| | OF BORING | | Direct Pus | | 1 of 1 |
| DRILL | ING FIRM: | | SAEDACC | | 10.0 ft |
| DRILL | | | Brian Ewin | | |
| DRILL | . RIG: | | GeoProbe 72 | 2DT LOGGED BY: R. Pastrana COMMENT: | |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' - 0.2' - Topsoil 0.2' - 2.0' - Red-Brown, Silty CLAY, Moist | Core 1 Rec 3.6'/5.0' |
| | | | | 0.2 - 2.0 - Rea-Brown, Only OLAT, Worst | |
| 1 | S-1 | 1.0-1.5 | 0.4 | | |
| | | | | | |
| 2 | S-2 | 2.0-2.5 | 0.5 | 2.0' - 10.0' - Red-Brown, Sandy SILT, Moist to Dry | <u> </u> |
| 3 | S-3 | 3.0-3.5 | 1.3 | | |
| | | | | | |
| 4 | | | | | |
| | | | | | |
| 5 | S-5 | 5.0-5.5 | 0.5 | 5.0' - Grading to Brown, Some Mica | Core 2 Rec 5.0'/5.0' |
| | | | | | |
| | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.8 | | |
| | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.9 | | |
| | | | | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.5 | | _ |
| | | | | | |
| 9 | S-9 | 9.0-9.5 | 0.6 | | |
| | | | | | |
| | | | | | |
| 10 | | | | | _ |
| | | | | | |
| 11 | | | | | |
| | | | | | |
| - | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| 10 | | | | | |
| | | | | | |
| 14 | | | | | <u> </u> |
| | | | | | |
| | | | | | · |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|------------|----------------------|----------------------|---------------------------|---|----------------------|
| V / | | NODOT D | 05774 Db | | D265 6 |
| | IECT NAME: ATION: | | -2577A Phase | PROJ. NO.: GR22.325 g Area / 10' into Grass, near Diesel Dispenser | B265-6 |
| | OF BORING | | Direct Pus | | 1 of 1 |
| DRILL | LING FIRM: | | SAEDACC | DATE FINISHED: 5/15/20 TOTAL DEPTH: | |
| DRILL | | | Brian Ewin GeoProbe 72 | | |
| | _RIG: | | | 2DT LOGGED BY: R. Pastrana COMMENT: | |
| DЕРТН (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' - 0.3' - Topsoil 0.3' - 5.5' - Red-Brown, Silty CLAY, Moist | Core 1 Rec 3.4'/5.0' |
| 1 | S-1 | 1.0-1.5 | 0.1 | | |
| | | | | | |
| 2 | S-2 | 2.0-2.5 | 0.5 | | |
| | | | | | |
| 3 | S-3 | 3.0-3.5 | 0.3 | | |
| | 0-3 | 0.0-0.0 | 0.0 | | |
| | | | | | |
| 4 | | | | | |
| | | | | | <u> </u> |
| 5 | S-5 | 5.0-5.5 | 0.4 | | Core 2 Rec 5.0'/5.0' |
| | | | | 5.5' -10.0' - Red-Brown to Brown, Sandy SILT, Moist | |
| 6 | S-6 | 6.0-6.5 | 0.4 | | |
| | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.2 | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.3 | | |
| | | | | | - |
| 9 | S-9 | 9.0-9.5 | 0.1 | | |
| 9 | 0-9 | 9.0-9.5 | 0.1 | | |
| | | | | | |
| 10 | | | | | |
| | | | | | |
| 11 | | | | | _ |
| | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| | | | | | |
| 14 | | | | | |
| 14 | | | | | |
| 45 | | | | | |

| | FCP | | | FIELD BORING LOG | BORING NO. |
|----------------|--------------------|----------------------|---------------------------|--|----------------------|
| V / | LJI | NCDOT B | 25774 Dhaca | | B265-7 |
| | ECT NAME: TION: | | 2577A Phase of East Entra | | D203-1 |
| | OF BORING | | Direct Pus | | 1 of 1 |
| | .ING FIRM: | | SAEDACC | | |
| DRILL DRILL | | | Brian Ewin GeoProbe 72 | | |
| | | | | LOGGED BT. R. Pastialia COMMENT. | |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0' - 1.0' - Topsoil and Gravel Mix | Core 1 Rec 4.2'/5.0' |
| | | | | 4 OL COL Dad Davier to Davier Clause City Trans Micro Maint | |
| 1 | | | | 1.0' - 6.0' - Red-Brown to Brown, Clayey Silt, Trace Mica, Moist | |
| | | | | | |
| 2 | S-2 | 2.0-2.5 | 0.1 | | _ |
| | | | | | |
| 3 | S-3 | 3.0-3.5 | 0.6 | | <u>-</u> |
| | | | | | |
| 4 | C 4 | 4045 | 0.1 | | |
| .4 | S-4 | 4.0-4.5 | 0.1 | | |
| | | | | | |
| 5 | | | | | Core 2 Rec 5.0'/5.0' |
| | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.2 | 6.0' - 10.0' - Red-Brown to Brown, Sandy SILT, Trace Mica, Moist | |
| | | | | | |
| 7 | | | | | |
| 1 | | | | | |
| | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.5 | | _ |
| | | | | | |
| 9 | S-9 | 9.0-9.5 | 0.3 | | |
| | | | | | |
| 10 | | | | | |
| . 10 | | | | | |
| | | | | | |
| 11 | | | | | _ |
| | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| | | | | | |
| | | | | | |
| 14 | | | | | |
| | | | | | |
| 4- | | | - | | |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|----------------|---------------|----------------------|-------------------------|--|----------------------|
| PROJ | ECT NAME: | NCDOT R-2 | 2577A Phase | | B265-8 |
| LOCA | | | of East Entra | | |
| | OF BORING | <u> </u> | Direct Pus | | T: 1 of 1 |
| DRILL DRILL | ING FIRM: | | SAEDACC Brian Ewin | | |
| DRILL | | | GeoProbe 72 | | |
| | ī | | | EGGED B1. 11. 1 astrana GOWINIEN | |
| DEРТН (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND | REMARKS |
|)EP | SAN | SAN | REA (p | PHYSICAL DESCRIPTION | |
| | | | | 0.0' - 1.0' - Topsoil and Gravel Mix | Core 1 Rec 4.3'/5.0' |
| | | | | | |
| 1 | S-1 | 1.0-1.5 | 0.5 | 1.0' - 2.5' - Tan-Brown, Clayey SAND, Moist | |
| - | | | | | |
| - | | | | | |
| 2 | S-2 | 2.0-2.5 | 0.3 | | |
| _ | | | | 2.5' - 4.0' - Red-Brown, Silty CLAY, Moist | |
| 3 | S-3 | 3.0-3.5 | 0.2 | | |
| - | | 0.0 0.0 | 0.2 | | |
| - | | | | | - |
| 4 | S-4 | 4.0-4.5 | 0.3 | 4.0' - 10.0' - Red-Brown to Brown, Sandy SILT, Moist | |
| - | | | | | |
| _ | 0.5 | 5.0-5.5 | 0.6 | | Core 2 Rec 5.0'/5.0' |
| _5 | S-5 | 5.0-5.5 | 0.6 | | Core 2 Rec 5.075.0 |
| - | | | | | |
| 6 | S-6 | 6.0-6.5 | 0.4 | 6.0' - grading to with Trace Mica, Moist | |
| - | | | | | |
| - | | | | | |
| 7 | S-7 | 7.0-7.5 | 0.4 | | |
| - | | | | | |
| 8 | S-8 | 8.0-8.5 | 0.1 | | |
| _ | | | | | |
| - | | | | | |
| 9 | S-9 | 9.0-9.5 | 0.5 | | <u>-</u> |
| - | | | | | |
| 10 | | | | | |
| | | | | | |
| - | | | | | |
| 11 | | | | | |
| - - | | | | | |
| 12 | | | | | |
| | | | | | |
| - | | | | | |
| 13 | | | | | |
| | | | | | |
| 1.1 | | | | | |
| 14 | | | | | <u>-</u> |
| - | | | | | |
| 15 | | | | | - |

APPENDIX B RED LAB LABORATORY TESTING REPORT







Samples taken

Samples extracted

Samples analysed

Friday, May 15, 2020

Friday, May 15, 2020

Monday, May 18, 2020

Hydrocarbon Analysis Results

Client: ESP

Address: 7011 Albert Pick Rd

Ste E

Greensboro, NC 27409

Contact: Ned Billington Operator Harry Wooten

Project: GR22.325

| | | | | | | | | | | | | | F03640 |
|--------|-------------|---------------|-------------------|-------------------|--------------------|-------------------|---------------------------------|----------------|---------|---------|--------|------------|-----------------------|
| Matrix | Sample ID | Dilution used | BTEX (C6 - C9) | GRO (C5 - C10) | DRO (C10 - C35) | TPH (C5 - C35) | Total Aromatics (C10-C35) | 16 EPA PAHs | BaP | | Ratios | | HC Fingerprint Match |
| | | | | | | | | | | % light | % mid | % heavy | |
| s | B265-2 , S3 | 20.2 | <0.5 | <0.5 | 3.9 | 3.9 | 1.9 | 0.21 | <0.02 | 0 | 93 | 7 | Road Tar 96.3%,(FCM) |
| S | B265-3 , S9 | 19.6 | <0.49 | <0.49 | <0.49 | <0.49 | <0.1 | <0.16 | <0.02 | 0 | 0 | 0 | PHC not detected,(BO) |
| s | B265-4 , S3 | 21.6 | <0.54 | <0.54 | 1.1 | 1.1 | 0.46 | <0.17 | <0.022 | 0 | 97.6 | 2.4 | Deg Fuel 90.6%,(FCM) |
| s | B265-5 , S7 | 19.0 | <0.47 | <0.47 | <0.47 | <0.47 | <0.09 | <0.15 | <0.019 | 0 | 0 | 0 | PHC not detected,(BO) |
| s | B265-6 , S6 | 19.0 | <0.47 | <0.47 | <0.47 | <0.47 | <0.09 | <0.15 | <0.019 | 0 | 0 | 0 | PHC not detected,(BO) |
| s | B265-7 , S3 | 18.0 | <0.45 | <0.45 | 0.72 | 0.72 | 0.35 | <0.14 | <0.018 | 0 | 86.2 | 13.8 | V.Deg.PHC 90%,(FCM) |
| S | B265-8 , S6 | 13.6 | <0.34 | <0.34 | <0.34 | <0.34 | <0.07 | <0.11 | <0.014 | 0 | 0 | 0 | ,(FCM),(BO) |
| | leisial C | alibrator (| OC abaak | OK | | | | | Final F | | Charle | Old | 96.8 |

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode: % = confidence for sample fingerprint match to library

(SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result: (PFM) = Poor Fingerprint Match: (T) = Turbid: (P) = Particulate present

APPENDIX C CHAIN-OF-CUSTODY FORM

| Client Name: | ES1 | 0 | T | | | | | Ta : : | | | |
|--------------------------|--|--|--|--|----------|-----------------|--------------|---------------|---|----------------|--|
| | Greenslavo Ned Billingto GR22. 325 | | 1 | | | | | RED Lab | | | |
| Address: | | | | | | | | 1 | arvin K Mos | | |
| Contact: Ned Billiage | | | REDLAB | | | | | | MARBIONC Bldg, Suite 2003 | | |
| Project Ref.: GR 22. 325 | | | | | | | | | Wilmington, NC 28409 | | |
| Email: | GRZZ. | 763 | - | | | | | Each UVF s | ample will be | e analyzed for | |
| Phone #: | 1000 | | - | | | | | | , GRO, DRO, T and BaP. Stan | PH, PAH total | |
| THORE W. | , | | CHAIN OF CUSTODY AND ANALYTICAL REQUEST FORM | | | | | Analyses a | 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. | | |
| Collected by: | | | | | | | | trans DCF | | | |
| | | | | | | | | M analytes in | | | |
| Sample Collection | | | Analysis Type | | | 1.7to. 45" | | | | | |
| Date/Time | 24 Hour | 48 Hour | UVF | GC | Initials | · · | Sample ID | Total Wt. | Tare Wt. | Sample Wt. | |
| 5/15/20 | | | V | | 893 | 13265-2,5 | 3 7 | 54.7 | 43.8 | 10.9 | |
| | | | | | | 8265.3,5 | 9 | 56.7 | 44.5 | 11.2 | |
| | | | | | | B265-4, 5 | 3 | 53.8 | 43.7 | 10.2 | |
| | | | | | | B265-5, S | ファイ | 56.3 | 44.7 | 11.6 | |
| | | | | | | B265-6,5 | 6 | 56.5 | 44.9 | 11.6 | |
| | | | | | | | 3 | 56.9 | 447 | 12.2 | |
| V | | 4 | A | | A | B265-8, 5 | 6 J | 56.3 | 45.0 | 11.3 | |
| | | | | | | | | | | | |
| | | | | ļ | | | | | | | |
| | • | | | | | | | | | | |
| | | | | | | | | | | | |
| | | į. | | | | | | | | | |
| | 8 | | | 1 | | | | | | | |
| | | | | | | 1 | | | | | |
| | | | | <u> </u> | | | | | | | |
| | A Partie | Principal de la companya de la compa | | | | | | | | | |
| 2.77 1.46 | | W 1 | | 2 | š. | | | | | | |
| | 7.4 | | | | 2 | | | | | | |
| | | | | A STATE OF THE STA | | | | | | | |
| | | | | Age . | 14.00 | | | | | | |
| COMMENTS/REQUE | | 6° 40' | hin to a | The second second | 7/10 | TARGET GC/UVF A | NALYTES: | | | | |
| * Report brac | leaded so | ample s | separ | ately | | | | | | | |
| Relinquished by | | | | 100 | Accep | ired by | Date/Time | | RED Lab USE ONLY | | |
| 901120 | | | 1/5/20 | 1 h | Comming | | B/18/20 1300 | (D) | | | |
| Relinquished by | | | | | Accep | ted by | Date/Time | | | | |
| | | | | | | | | Ref. No | Ref. No HO2 | | |
| | | | | · | | | | 111011110 | 1,0 5 | | |

APPENDIX D FIGURE FROM 1997 SSE REPORT

