November 5, 2018



Mr. Cyrus Parker, L.G., P.E. Geotechnical Engineering Unit State of N.C. Department of Transportation – Division of Highways P.O. Box 25201 Raleigh, NC 27611-5201

RE: PRELIMINARY SITE ASSESSMENT OF PARCEL 036 – Revision 1 ESP Project No. CS34.366

| WBS: | 34839.1.8 |
|----------------|--|
| TIP: | U-2579AB |
| County: | Forsyth |
| Description | Winston-Salem - Northern Beltway Eastern Section (Future I-74) From I-40 to I-40 |
| | Business/US 421 |
| Parcel No.: | 036 |
| Owner: | NCDOT |
| Address: | 4255 Kernersville Road, Winston-Salem, NC |

Dear Mr. Parker:

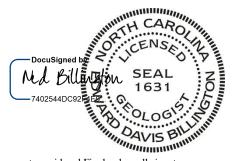
ESP Associates, Inc. (ESP) is pleased to submit this report on our Preliminary Site Assessment of the subject parcel. This work was performed in accordance with your Request for Proposal dated April 17, 2018 and our Cost Proposal dated May 3, 2018.

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 DMN/EDB/CJW



not considered Final unless all signatures are completed

ESP Associates, Inc. 7011 Albert Pick Road, Suite E, Greensboro, NC 27409 1.800.960.7317 · NC: 336.334.7724 www.espassociates.com

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- Appendix C Chain-of-Custody Form

1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is planning to construct the Winston-Salem Northern Beltway Eastern Section (Future I-74) From I-40 to I-40 Business/US 421 (Figure 1). The NCDOT requested that ESP Associates, Inc. (ESP) perform a Preliminary Site Assessment (PSA) of Parcel 036 to locate possible underground storage tanks (USTs), sample soil, and delineate potential contaminated soil.

2.0 HISTORY

This parcel has been acquired by the NCDOT and is currently occupied by a vacant furniture store. The facility is not listed in the North Carolina Department of Environmental Quality's (NCDEQ's) UST Section Registry. There are no known groundwater or soil contamination incidents associated with this facility.

3.0 SITE OBSERVATIONS

During our May 2018 field work, the site was occupied by a vacant furniture store (Figure 2). The ground in the study area was covered by asphalt pavement, concrete, and grass.

4.0 METHODS

ESP performed a geophysical study of the area designated by the NCDOT on May 21, 2018. We performed direct-push drilling and sampling of subsurface soils within the proposed easement on September 5, 2018. A photoionization detector (PID) was used to screen subsurface soils in the field and select soil samples to send for laboratory analysis.

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 about three feet (Figures 3 and 4). Location control was provided in real-time using a differential global positioning system (DGPS). We collected ground-penetrating radar (GPR) data over selected EM61 anomalies using our Sensors and Software Noggin 250 GPR system. The GPR data were collected using a line spacing of one to two feet (Figure 5).

4.2 Borings

ESP performed direct-push drilling activities within the easement of Parcel 36 using a subcontractor, SAEDACCO of Fort Mill, South Carolina. Five borings were drilled, designated B36-1 through B36-5 (Figure 3). The soil borings were advanced using a GeoProbe 7822DT drill rig. Continuous soil samples were obtained to a depth of approximately ten feet using five-foot long Macro Cores®. Soil cores varied in recovery from four to five feet. 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 sunny area for at least 5 minutes prior to measuring volatile organic compound (VOC) levels in the head space with the PID. The soil samples had PID readings of less than 10 parts per million (ppm) (Table 1).

Soil samples selected for laboratory analysis were Sample S-9 (corresponding depth of 9.0-9.5 feet) from each of Borings B36-1, B36-2, B36-3, B36-4 and Sample S-7 (7.0-7.5 feet) from Boring B36-5. For each selected sample, an approximate 10-gram soil sample was collected from the Macro-Core tube using a Terra Core 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 five borings drilled on the site.

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). The EM61 differential results indicated four anomalies (response above background) that did not correspond to known site features.

GPR data were collected over the EM61 anomalies. The GPR data collected indicated the presence of one probable UST within the study area under the concrete slab on the west side of the easternmost building (Figure 5). The probable UST is approximately 4 feet diameter by 7 feet

long and buried about 3 feet below the ground surface. We marked a square outline around the probable UST using pink marking paint (Figure 2.d).

The EM61 early time gate response and differential response are shown on the plan sheet on Figures 6 and 7, 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 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 BTEX and PAHs were below the detection limits for all samples. GRO was detected in 1 of the 5 soil samples tested but below the NCDEQ action level of 50 ppm. DRO was detected in 3 of the 5 soil samples tested but below the NCDEQ action level of 100 ppm. The highest GRO reading was 1.9 ppm in Sample S-9 (9.0-9.5 feet) from Boring B36-2. The highest DRO reading was 5.2 ppm in Sample S-9 (9.0-9.5 feet) from Boring B36-2.

6.0 CONCLUSIONS

6.1 Interpretation of Results

The results of the PSA for Parcel 036 of NCDOT Project U-2579AB indicate the presence of one abandoned UST. No petroleum hydrocarbon soil contamination at or above NCDEQ action levels was detected within the study area on Parcel 036.

6.2 Geophysics

The geophysical data indicate the location of one probable UST within the parcel. The probable UST is located under the concrete slab west of the existing building and is approximately 600 gallons in size and buried about 3 feet below the ground surface.

6.3 Soil

The results of the PID field screening readings and off-site UVF hydrocarbon analyses do not indicate the presence of contaminated soil at or above the NCDEQ action levels within the study area on Parcel 036 (Figure 8).

Report on Preliminary Site Assessment, Parcel 036, NCDOT State Project U-2579AB, Forsyth County, North Carolina

7.0 **RECOMMENDATIONS**

ESP recommends that the probable UST be closed by removal and that a UST Closure Report be submitted to NCDEQ. Other than the UST closure, no limitations on construction activities or special handling of excavated soil are recommended for Parcel 036.

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

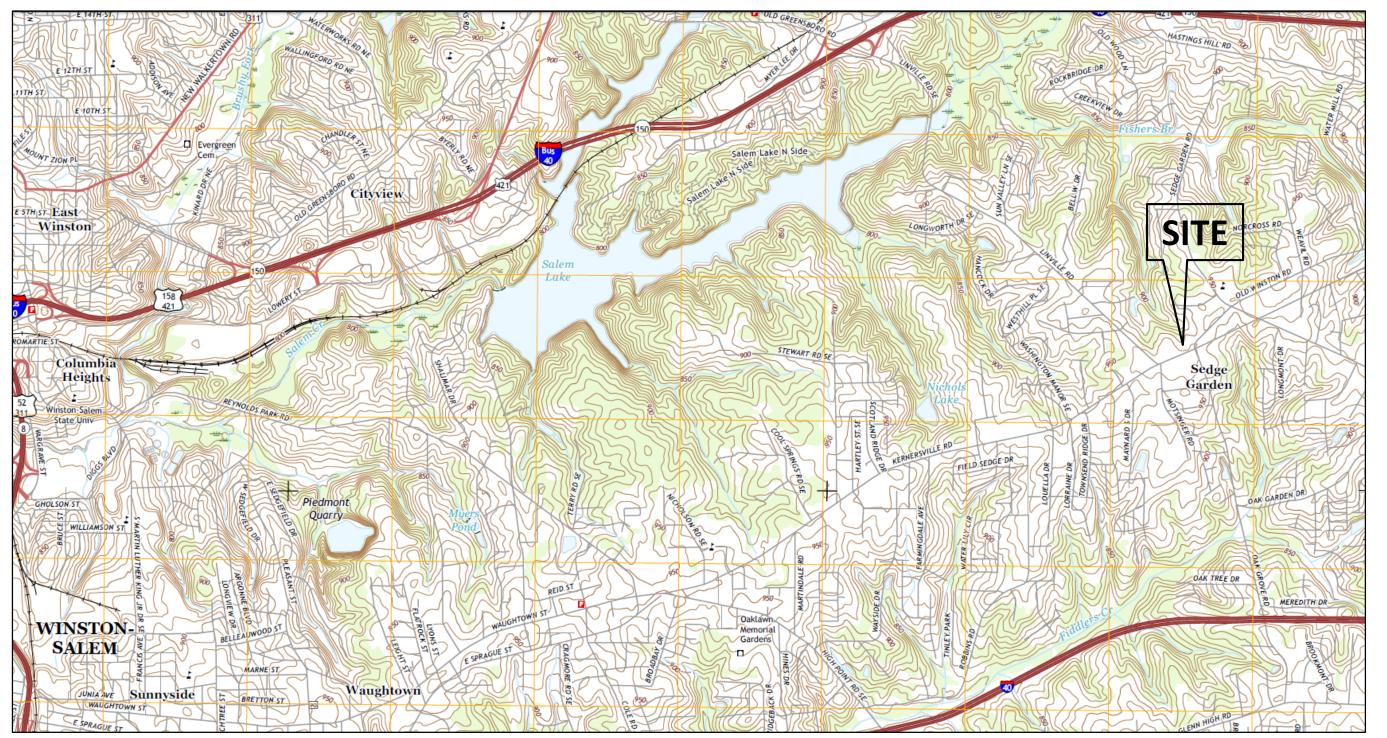
TABLE 1SOIL SAMPLE PID READINGS

| Boring | Sample Depth Range with PID > 10 ppm (feet bgs) | Maximum PID Reading (ppm) and Sample Depth (feet bgs) |
|--------|--|--|
| B36-1 | none | 2.7 (9.0-9.5) |
| B36-2 | none | 4.6 (3.0-3.5) |
| B36-3 | none | 4.5 (5.0-5.5) |
| B36-4 | none | 4.5 (3.0-3.5) |
| B36-5 | none | 3.2 (5.0-5.5) |

| 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) |
|--------|-------------------------------------|-------------------|----------------------------|----------------------------|-----------------------------|-----------------|
| B36-1 | S-9 (9.0-9.5) | 9/10/18 | <0.57 | <0.57 | <0.57 | < 0.18 |
| B36-2 | S-9 (9.0-9.5) | 9/10/18 | <0.88 | 1.9 | 5.2 | <0.28 |
| B36-3 | S-9 (9.0-9.5) | 9/10/18 | <1.2 | <1.2 | 2.5 | <0.38 |
| B36-4 | S-9 (9.0-9.5) | 9/10/18 | <0.55 | <0.55 | 0.75 | <0.18 |
| B36-5 | S-7 (7.0-7.5) | 9/10/18 | <0.56 | <0.56 | <0.56 | <0.18 |

TABLE 2SOIL SAMPLE UVF RESULTS SUMMARY

FIGURES



From: USGS US Topo 7.5 - minute map for WINSTON-SALEM EAST, NC Date: 2016, Scale: 1:24,000

| PROJECT NO. CS34.366 SCALE AS SHOWN | FIGURE 1 – PARCEL (SITE VICINITY |
|--|--|
| ^{DATE} 11/6/18 ^{BY} | U-2579AB, WINSTON SALEM – NORTHERI (FUTURE I-74) FROM I-40 TO I-4 |
| DMN | FORSYTH COUNTY, NORT |

036, NCDOT Y MAP

RN BELTWAY EASTERN SECTION -40 BUSINESS/US421 RTH CAROLINA



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



a. Photo from northeast side of site looking southwest.



c. Photo from south central side of site looking north.



b. Photo from southwest side of site looking northeast.



d. Photo of marked probable UST.

| PROJECT NO. CS34.366 | FIGURE 2 – PARCEL |
|-------------------------|---|
| AS SHOWN | SITE PHOTOG |
| DATE 11/6/18 | U-2579AB, WINSTON SALEM – NORTHERI |
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. 036, NCDOT GRAPHS

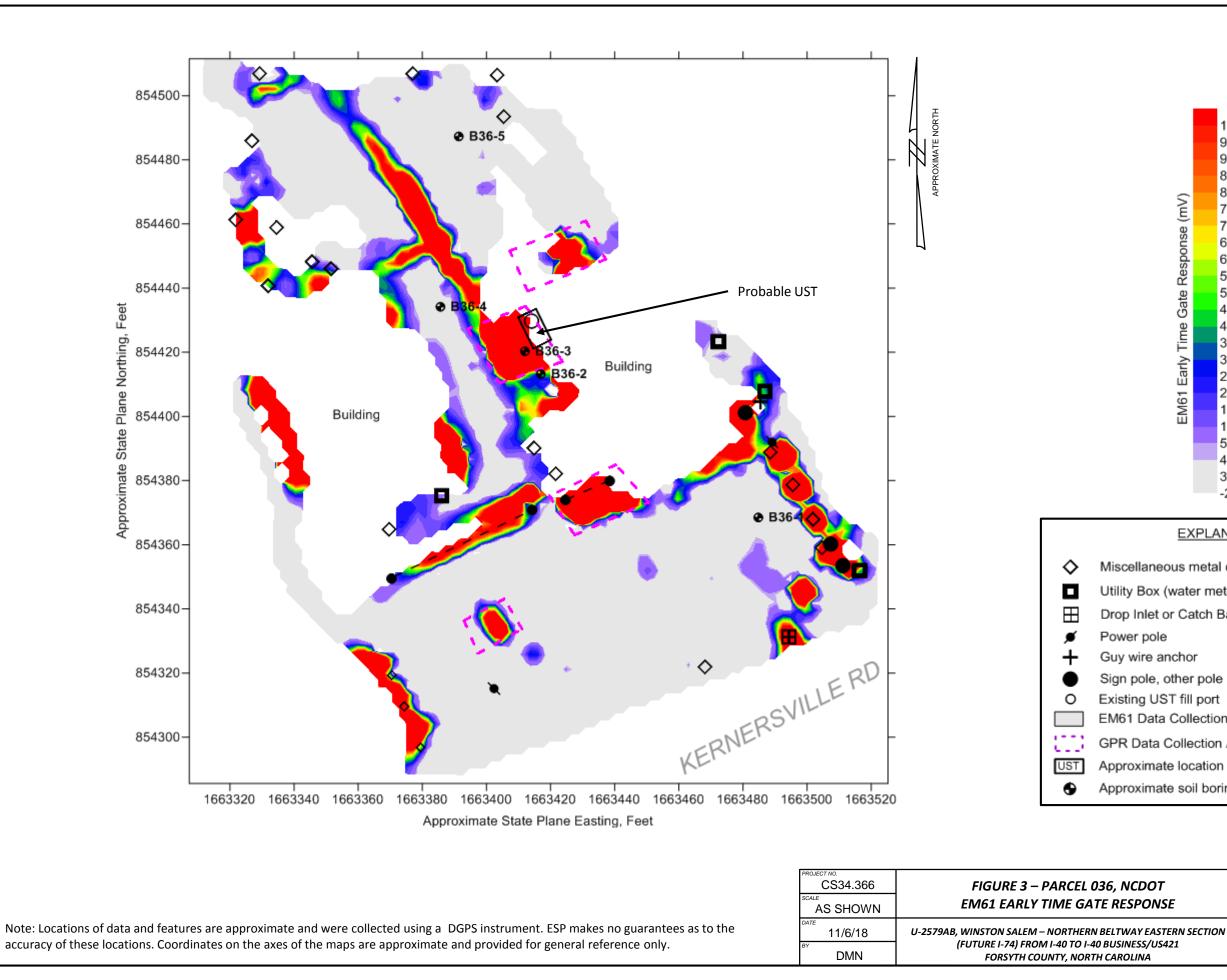
RN BELTWAY EASTERN SECTION I-40 BUSINESS/US421 RTH CAROLINA

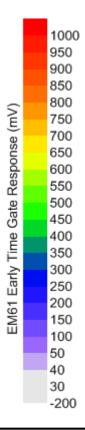


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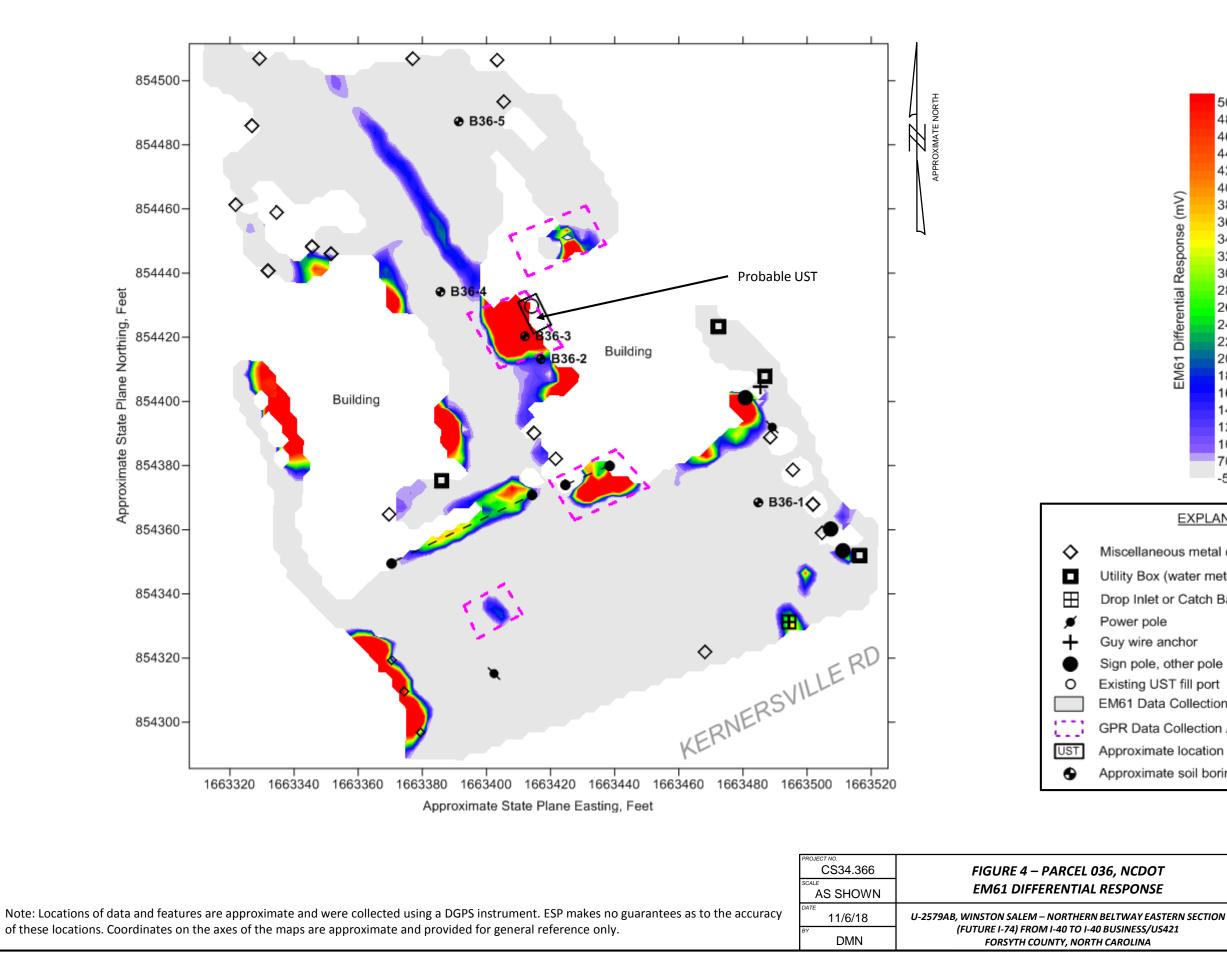
EXPLANATION

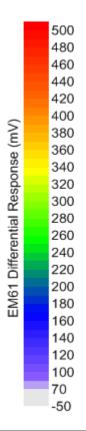
- Miscellaneous metal object (pipe, debris, etc.)
- Utility Box (water meter, electrical outlet, etc.)
- Drop Inlet or Catch Basin
- Power pole
- Guy wire anchor
- Sign pole, other pole
- Existing UST fill port
- EM61 Data Collection Areas
- GPR Data Collection Areas
- Approximate location of probable UST
- Approximate soil boring location





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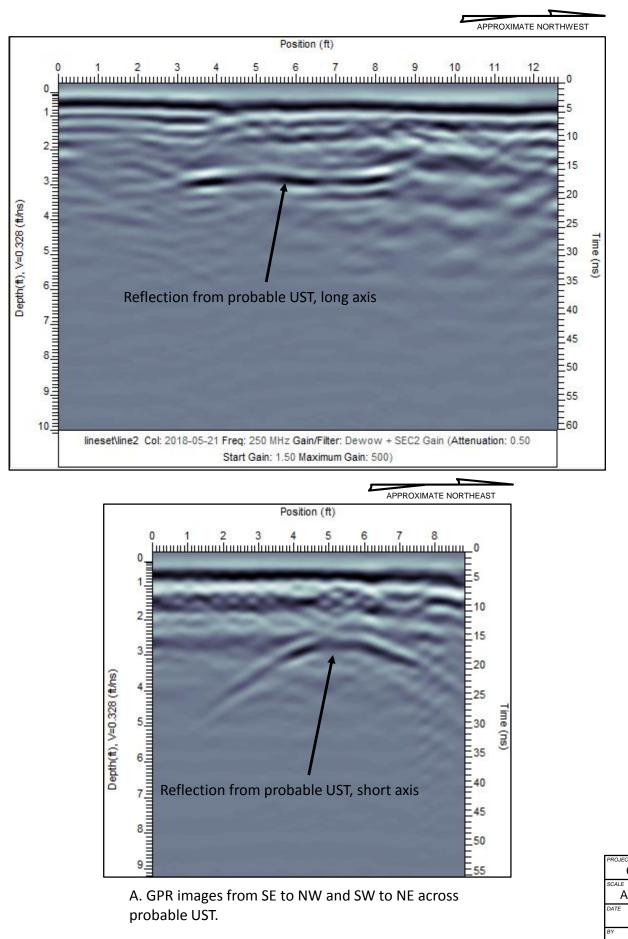


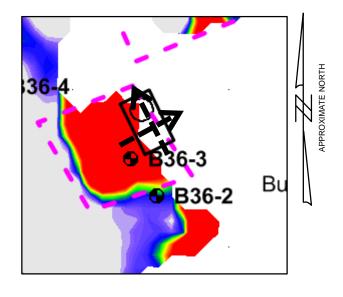
EXPLANATION

- Miscellaneous metal object (pipe, debris, etc.)
- Utility Box (water meter, electrical outlet, etc.)
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- Guy wire anchor
- Sign pole, other pole
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- EM61 Data Collection Areas
- GPR Data Collection Areas
- Approximate location of probable UST
- Approximate soil boring location



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| PROJECT NO. CS34.366 | FIGURE 5 – PARCEL (|
|-------------------------|--|
| AS SHOWN | GPR IMAGES OF PRO |
| DATE 11/6/18 | U-2579AB, WINSTON SALEM – NORTHERN |
| DMN | (FUTURE I-74) FROM I-40 TO I-4 FORSYTH COUNTY, NOR1 |

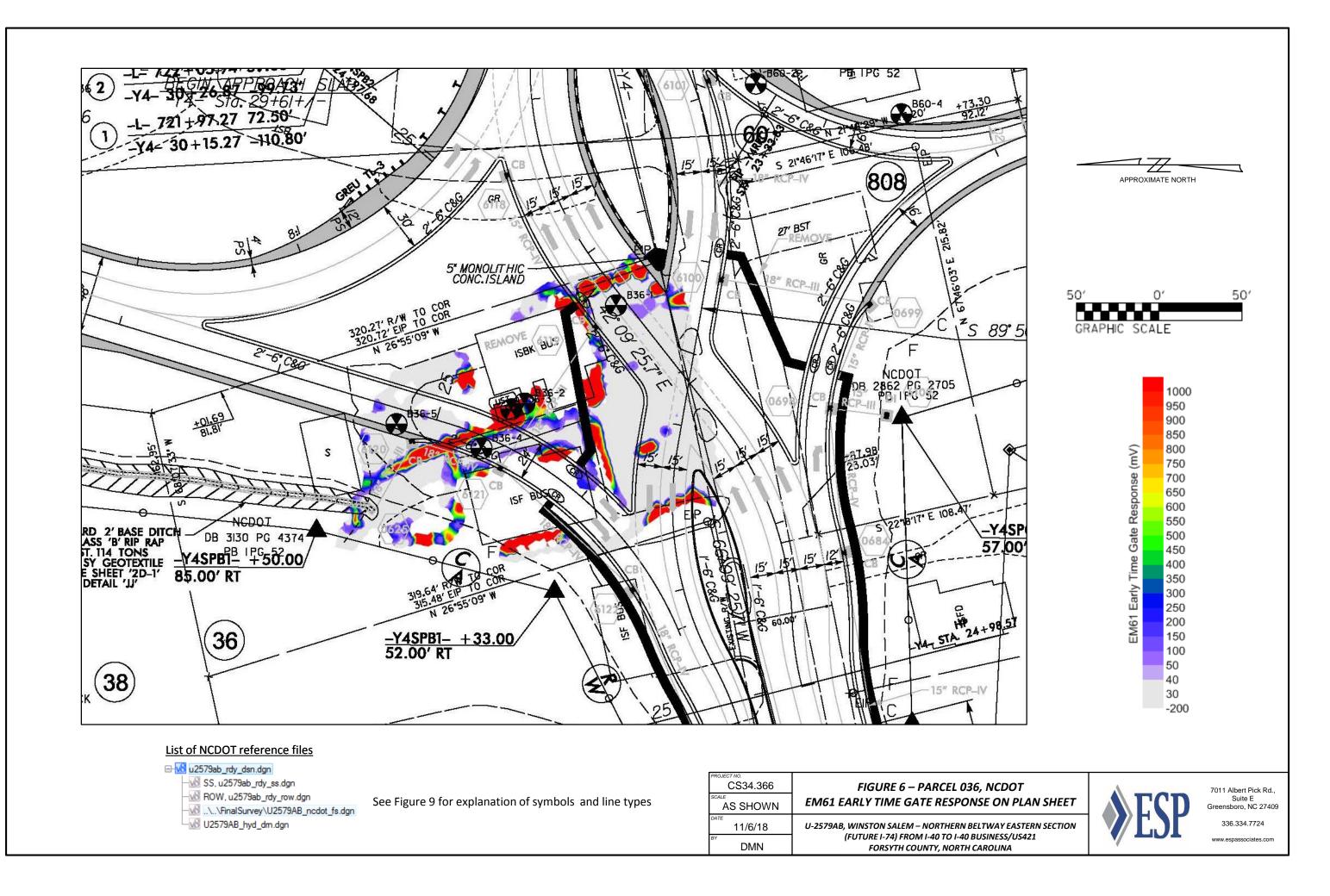
B. Portion of Figure 3 showing approximate locations of GPR cross-sections (dashed black lines with arrows).

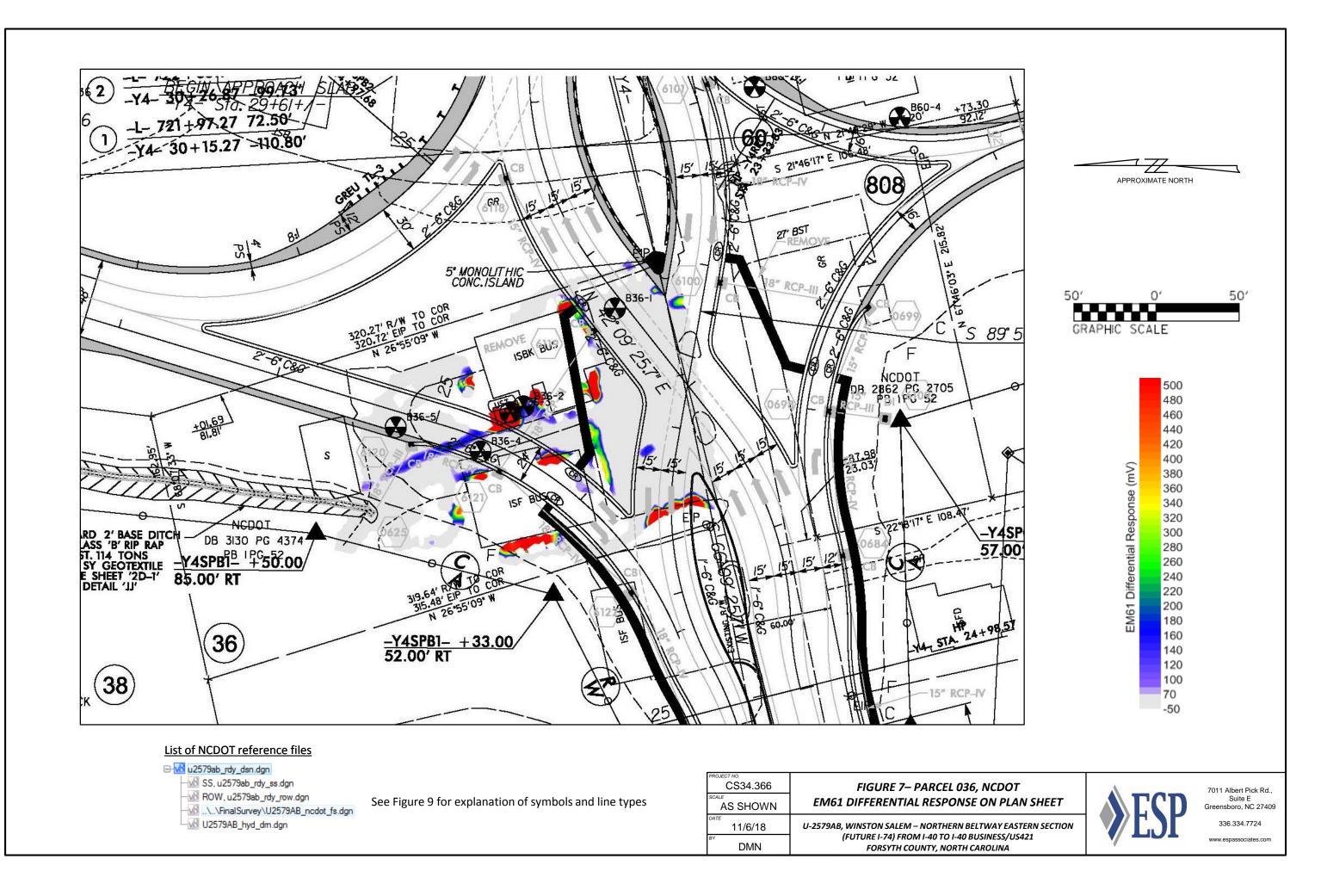
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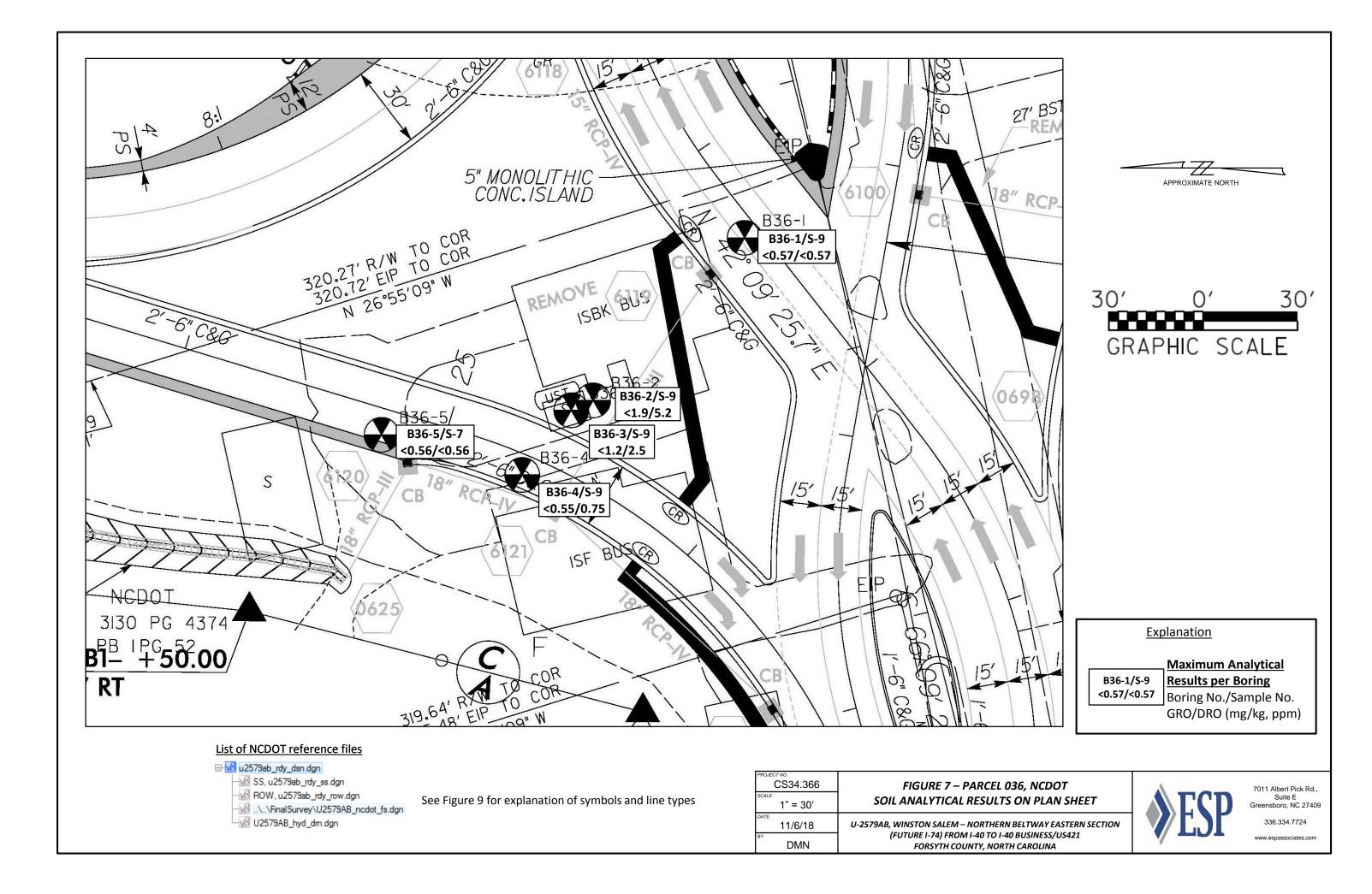
RN BELTWAY EASTERN SECTION -40 BUSINESS/US421 TH CAROLINA



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| Small Aine * iron Pin and Cap Marker * UG Power Line LOS B (S.U.E.*) UG Sanitary Sew Foundation * ROADS AND RELATED FEATURES: UG Power Line LOS B (S.U.E.*) UG Sanitary Sew Cemetery * * * WG Power Line LOS B (S.U.E.*) WG Sanitary Sew Building * * * * WG Power Line LOS B (S.U.E.*) WG Sanitary Sew School * * * * * * Above Ground Sc Church * * * * * * * SS Forced Main I Church * * * * * * * * SS Forced Main I Church * * * * * * * * SS Forced Main I Dam * * * * * * * * SS Forced Main I HYDROLOGY: * * * * * * * * * * * * * * * | | Proposed Permanent Easement with | | | | , |
| Area Outline Existing Edge of Pavement UG Power Line LOS D (S.U.E.*) Above Ground Sc Cemetery Existing Edge of Pavement SS Forced Main I SS Forced Main I Building Froposed Slope Stakes Fill Froposed Slope Stakes Fill SS Forced Main I Church Proposed Slope Stakes Fill Froposed Guardrail Existing Edgehone Pole O HYDROLOGY: Proposed Guardrail Froposed Guardrail IIIIII Pole with E Stream or Body of Water Existing Cable Guiderail IIIIII Pole with E Hydro, Pool or Reservoir Froposed Caube Guiderail IIIIIII Pole with E Building Froposed Cable Guiderail IIIIIIII Pole with E Building Froposed Cable Guiderail IIIIIIIII Pole with E Proposed Cable Guiderail IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | | > | | | |
| Cemetery SS Forced Main I Building Fraposed Slope Stakes Cut SS Forced Main I School Fraposed Slope Stakes Cut SS Forced Main I Church Proposed Slope Stakes Cut SS Forced Main I Proposed Slope Stakes Fill Proposed Curb Ramp Existing Telephone Pole O MINDROLOGY: Stream or Body of Water Proposed Guardrail Telephone Cable Note MISCELLANEOUS: Stream or Body of Water Existing Cable Guiderail Telephone Cable LOS B (S.U.E.*) Utility Located OF Jurisdictional Stream ISE I Proposed Cable Guiderail Utility Traffic Sign Buffer Zone 1 Existing Cable Guiderail Force Utility Traffic Sign Buffer Zone 2 Existing Tree Single Tree Utility Traffic Sign Spring VEGETATION: Single Shrub G G Telephone Conduit LOS D (S.U.E.*) Utility Conduct Actor Wetland * Woods Line * G Genenvironmenter AG Tank; Water, Buffer Optics Cable LOS C (S.U.E.*) * * AG Tank; Water, Genenvironmenter Genenvironmenter Genenvironmenter Buffer Zone 1 | | | | | | |
| Camery Existing Curb Fisting Curb SS Forced Main I Building Proposed Slope Stakes Cut Image: State S | | Existing Edge of Pavement | | U/G Power Line LOS D (S.U.E.*) | ·• | |
| Building Proposed Slope Stokes Cut Fishing Telephone Pole SS Forced Main I School Proposed Slope Stokes Fill Proposed Slope Stokes Fill Proposed Telephone Pole MISCELLANEOUS: HYDROLOGY: Proposed Guiderail Proposed Guiderail II Utility Pole II Hydro, Pool or Reservoir Proposed Cub B Guiderail Froposed Cub B Guiderail II Utility Coated Oc Jurisdictional Stream II Proposed Cub B Guiderail III Utility Coated Oc Buffer Zone 1 Froposed Cub B Guiderail III Utility Unknown U UG Telephone Cable LOS B (S.U.E.*) Utility Unknown U Buffer Zone 2 Fiz 2 VEGETATION: Single Tree III Ud Telephone Codult LOS B (S.U.E.*) Ud G Telephone Codult LOS B (S.U.E.*) Ud G Telephone Codult LOS D (S.U.E.*) III du data Guadraid Wetland Hedge Woods Line III Woods Line IIII du data Guadraid IIII du data Guadraid IIII du data Guadraid IIIIIIII du data Guadraid IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | Entering Cone | | TELEPHONE: | | |
| School Proposed Slope Stakes Fill Proposed Slope Stakes Fill Proposed Telephone Pole O Church Proposed Curb Ramp III Proposed Curb Ramp III Utility Pole Dam HYDROLOGY: Proposed Guardrail III Utility Pole III Stream or Body of Water Proposed Guardrail IIII Utility Pole IIII Utility Pole Jurisdictional Stream Jurisdictional Stream Jurisdictional Stream Jurisdictional Stream IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | Proposed Slope Stakes Cut | £ | Existing Telephone Pole | . | |
| Church Proposed Curb Ramp Image: Construction of the construction | | Proposed Slope Stakes Fill | Ľ | | | 55 Forcea Main I |
| Dam Existing Metal Guardrail Image: Construction of Body of Water Image: Construction of Body of Body of Water Image: Construction of Body of B | Church | Proposed Curb Ramp | CR | | . n | MISCELLANEOUS: |
| AmpRoducts: Proposed Guardrail Image: Construction of the serve in the ser | | Existing Metal Guardrail | <u> </u> | | . m | Utility Pole — |
| Sheath of Body of Water Existing Cable Guiderail Image: Cable Guiderail <t< td=""><td></td><td>Proposed Guardrail</td><td></td><td></td><td></td><td>Utility Pole with B</td></t<> | | Proposed Guardrail | | | | Utility Pole with B |
| Hydro, Pool or Keservoir Proposed Cable Guiderail Image: Cable Guiderail < | - | Existing Cable Guiderail | <u> </u> | | | Utility Located Ob |
| Jurisdictional Stream _js Equality Symbol Image: Construction of the | | Proposed Cable Guiderail | | | | Utility Traffic Sian |
| Buffer Zone 1 Buffer Zone 2 Pavement Removal Pavem | | Equality Symbol | • | | | |
| Flow Arrow VEGETATION: U/G Telephone Conduit LOS B (S.U.E.*) U/G Telephone Conduit LOS B (S.U.E.*) Disappearing Stream Single Tree I/G Telephone Conduit LOS C (S.U.E.*) A/G Tank; Water, Spring I/G Telephone Conduit LOS D (S.U.E.*) I/G Te | | Pavement Removal | | | | |
| Flow Arrow Single Tree Single Tree UG Telephone Conduit LOS D (S.U.E.*) AG Tank; Water, Disappearing Stream Single Shrub o UG Telephone Conduit LOS D (S.U.E.*) AG Tank; Water, Vetland Hedge Woods Line Woods Line UG Fiber Optics Cable LOS D (S.U.E.*) Image: Conduit LOS D (S.U.E.*) | | VEGETATION: | | | | Underground Stor |
| Spring Single Shrub Image: Single Shrub Image | | Single Tree | ÷ | | | 5 |
| Wetland + Proposed Lateral, Tail, Head Ditch Woods Line Woods Line - W | | | | | | |
| Proposed Lateral, Tail, Head Ditch Woods Line Image: Contraction of the contrest of the contraction of the contraction of the contraction of t | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | |
| Proposed Lateral, Tail, Head Ditch Fiber Optics Cable LOS C (S.U.E.*) Fider of Information | | - | - <u></u> | | | |
| | | | | | | |
| | raise sump — | | | | | |

| PROJECT NO. CS34.366 | FIGURE 8 |
|-------------------------|--|
| scale N/A | LEGEND FOR PLAN SHE |
| DATE 11/6/18 | U-2579AB, WINSTON SALEM – NORTHERN B |
| DMN | (FUTURE I-74) FROM I-40 TO I-40 E FORSYTH COUNTY, NORTH |

| PROJECT | REFERENCE NO. SHEET NO. |
|---------------------------------|-------------------------|
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| ole | Ø |
| Sie | 0 |
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| nt | • |
| Line LOS B (S.U.E*) | |
| Line LOS C (S.U.E*) | |
| Line LOS D (S.U.E*) | |
| nd Water Line | A/G Water |
| | |
| | |
| | |
| | 8 |
| ble Hand Hole | E |
| ole LOS B (S.U.E.*) | n |
| ole LOS C (S.U.E.*) | nn |
| ble LOS D (S.U.E.*) | Tr |
| Optic Cable LOS B (S.U.E.*) | |
| Optic Cable LOS C (S.U.E.*) | |
| | |
| Optic Cable LOS D (S.U.E.*) | N N NO |
| | |
| | ♦ |
| | ¢ |
| ne LOS B (S.U.E.*) | • |
| ne LOS C (S.U.E.*) | |
| | |
| ne LOS D (S.U.E.*) | A/G Gos |
| nd Gas Line | A70 005 |
| WER: | |
| ver Manhole | |
| ver Cleanout | - |
| | ۲ |
| y Sewer Line | |
| nd Sanitary Sewer | |
| Nain Line LOS B (S.U.E.*) | |
| Nain Line LOS C (S.U.E.*) | |
| Nain Line LOS D (S.U.E.*) | |
| | |
| DUS: | |
| | • |
| with Base | |
| ed Object | 0 |
| Signal Box | 5 |
| | _ |
| own U/G Line LOS B (S.U.E.*) | |
| Vater, Gas, Oil | |
| d Storage Tank, Approx. Loc. —— | |
| Vater, Gas, Oil | |
| nental Boring | |
| e LOS A (S.U.E.*) | Θ |
| According to Utility Records — | - |
| mation | E.O.I. |
| | 2.0.1. |
| | |

8 HEET FIGURES

RN BELTWAY EASTERN SECTION -40 BUSINESS/US421 RTH CAROLINA



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

336.334.7724

www.espassociates.com

APPENDIX A SOIL BORING LOGS

| | FSP | | BORING NO. | | |
|------------------------|---------------|----------------------|--|---|--|
| | IECT NAME: | NCD Front parkin | OOT U-2579A | FIELD BORING LOG NB PSA PROJ. NO.: CS34.366 | B36-1 |
| TYPE DRILI DRILI | OF BORING | | Direct Pus SAEDACC Brian Ewin eoprobe 782 | D DATE FINISHED: 9/5/18 TOTAL DEPTH: g SAMPLE METHOD: 5' Macro Core DEPTH TO GW: | 10.0 ft Dry ft |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | ~ <u>_</u> | | 0.0-0.5Asphalt0.5-8.1Red-brown sandy, silty clay | Core 1 Rec 4.0'/5.0' |
| 1 | S-1 | 1.0-1.5 | 1.5 | | |
| 2 | S-2 | 2.0-2.5 | 2.3 | | |
| 3 | S-3 | 3.0-3.5 | 2.1 | | |
| 4 | S-4 | No Rec | N/A | | Core 2 Rec 5.0'/5.0' |
| 5 | S-5 | 5.0-5.5 | 2.3 | | |
| 6 | S-6 | 6.0-6.5 | 2.0 | | |
| 7 | S-7 | 7.0-7.5 | 1.7 | | |
| 8 | S-8 | 8.0-8.5 | 2.1 | 8.1-10.0 Orange-red clayey silt | |
| 9 (| S-9 | 9.0-9.5 | 2.7 | | |
| <u>10</u> | | Sam | le selected | for laboratory analysis | |
| 11 | | | | | |
| | | | | | |
| | | | | | |
| 14 | | | | | |
| 15 | | | | | |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|---|---------------|----------------------|--|---|----------------------|
| | | NCD Near UST | OT U-2579/ | | B36-2 |
| LOCATION: TYPE OF BORING DRILLING FIRM: DRILLER: DRILL RIG: | | | Direct Pus SAEDACC Brian Ewin eoprobe 782 | D DATE FINISHED: 9/5/18 TOTAL DEPTH G SAMPLE METHOD: 5' Macro Core DEPTH TO GW | /: Dry ft |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| D | о О | N B | | 0.0-0.3Asphalt0.3-2.0Brown sandy, clayey, silt | Core 1 Rec 5.0'/5.0' |
| 1 | S-1 | 1.0-1.5 | 2.3 | | |
| 2 | S-2 | 2.0-2.5 | 4.4 | 2.0-8.8 Orange-red silty clay | |
| 3 | S-3 | 3.0-3.5 | 4.6 | | |
| 4 | S-4 | 4.0-4.5 | 3.7 | | Core 2 Rec 5.0'/5.0' |
| _5 | S-5 | 5.0-5.5 | 3.5 | | |
| 6 | S-6 | 6.0-6.5 | 2.3 | | |
| 7 | S-7 | 7.0-7.5 | 4.1 | | |
| 8 | S-8 | 8.0-8.5 | 2.6 | 8.8-10.0 Orange-brown sandy, clayey silt | |
| 9 (| S-9 | 9.0-9.5 | 2.5 | | |
| 10 | | Samp | le selected | for laboratory analysis | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |

| | FSP | | | FIELD BORING LOG | BORING NO. |
|------------|---------------------------------|----------------------|--|--|----------------------|
| | ECT NAME: | NCD Near UST | OT U-2579/ | | B36-3 |
| TYPE | OF BORING LING FIRM: LER: | : | Direct Pus SAEDACC Brian Ewin eoprobe 782 | D DATE FINISHED: 9/5/18 TOTAL DEPTH: SAMPLE METHOD: 5' Macro Core DEPTH TO GW: | 10.0 ft |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | REMARKS |
| | | | | 0.0-0.5 Concrete 0.5-9.0 Orange-brown sandy, clayey silt | Core 1 Rec 4.0'/5.0' |
| 1 | S-1 | 1.0-1.5 | 3.1 | | |
| _2 | S-2 | 2.0-2.5 | 4.0 | | |
| 3 | S-3 | 3.0-3.5 | 2.9 | | |
| 4 | S-4 | No Rec | N/A | | Core 2 Rec 5.0'/5.0' |
| _5 | S-5 | 5.0-5.5 | 4.5 | | |
| 6 | S-6 | 6.0-6.5 | 3.7 | | |
| 7 | S-7 | 7.0-7.5 | 3.9 | | |
| 8 | S-8 | 8.0-8.5 | 2.8 | | |
| 9 (| S-9 | 9.0-9.5 | 3.2 | 9.0-10.0 Orange-brown sandy silt | |
| 10 | | Samp | le selected | or laboratory analysis | |
| 11 | | | | | |
| 12 | | | | | |
| | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |

| | FCP | | | FIFI | D BORING LOG | | BORING NO. |
|----------------|----------------------|----------------------|-------------------------|--------------------|---|-------------|----------------------|
| | LJI | | OT 11 0570 | | | | |
| | IECT NAME: ATION: | Behind build | OT U-2579 | AB PSA | PROJ. NO.: CS34.366 | | B36-4 |
| | OF BORING | | Direct Pus | sh | DATE STARTED: 9/5/18 | SHEET | . 1 of 1 |
| DRILLING FIRM: | | SAEDACCO | | | DATE FINISHED: 9/5/18 | TOTAL DEPTH | |
| DRILL | | | Brian Ewir | - | SAMPLE METHOD: 5' Macro Core | DEPTH TO GW | |
| _ | _ RIG: | 1 | eoprobe 782 | | LOGGED BY: D. Nance | COMMENT | |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | | FIELD CLASSIFICATION AND PHYSICAL DESCRIPTION | | REMARKS |
| a | | | | 0.0-0.5 0.5-5.5 | Asphalt Orange-brown to tan clayey, sandy silt | | Core 1 Rec 5.0'/5.0' |
| | S-1 | 4045 | 4.1 | | | | |
| _1 | 3-1 | 1.0-1.5 | 4.1 | | | | |
| a | | | | | | | |
| 2 | S-2 | 2.0-2.5 | 3.1 | | | | |
| a | | | | | | | |
| 3 | S-3 | 3.0-3.5 | 4.5 | | | | |
| - Ŭ | | | | | | | |
| • | | | | | | | |
| 4 | S-4 | 4.0-4.5 | 2.2 | | | | Core 2 Rec 4.5'/5.0' |
| | | | | | | | |
| 5 | S-5 | 5.0-5.5 | 2.3 | 5.5-9.0 | Orange to tan silty sand | | |
| | | | | | | | |
| | S-6 | 0005 | 3.6 | | | | |
| 6 | 3-0 | 6.0-6.5 | 3.0 | | | | |
| | | | | | | | |
| 7 | S-7 | 7.0-7.5 | 2.4 | | | | |
| · | | | | | | | |
| 8 | S-8 | 8.0-8.5 | 3.3 | | | | |
| • | | | | | | | |
| · | | | | | | | |
| 9 (| S-9 | 9.0-9.5 | 3.6 | 9.0-9.5 | Gray silty sand | | |
| | | | | | | | |
| 10 | | Sam | le selected | for laboratory | / analysis | | |
| · | | | | | | | |
| 11 | | | | | | | |
| | | | | | | | |
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| 12 | | | | | | | |
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| 15 | | | | | | | |

| S FSP | | | BORING NO. | | | | | |
|--------------|-------------------------|----------------------|-------------------------------------|--------------------|---|--------------------------------------|--|----------------------|
| | ECT NAME: | NCE Behind build | DOT U-2579/ | | D BORII | PROJ. NO.: <u>CS34.3</u> | 66 | B36-5 |
| TYPE | OF BORING LING FIRM: | | Direct Pus SAEDACC Brian Ewin | 0 | DATE STARTE DATE FINISHE SAMPLE METHO | D: 9/5/18 | SHEET: TOTAL DEPTH: DEPTH TO GW: | 8.0 ft |
| DRILI | RIG: | | eoprobe 782 | 22 DT | | Y: D. Nance | COMMENT: | |
| DEPTH (ft) | SAMPLE NO. | SAMPLE DEPTH (ft) | PID READING (ppm) | | | LASSIFICATION AND CAL DESCRIPTION | | REMARKS |
| | | | | 0.0-0.4 0.4-8.0 | Asphalt Orange-tan to w | hite silty sand | | Core 1 Rec 3.5'/5.0' |
| | S-1 | 1.0-1.5 | 2.7 | | | | | |
| | | | | | | | | |
| 2 | S-2 | 2.0-2.5 | 1.6 | | | | | |
| 3 | S-3 | 3.0-3.5 | 1.9 | | | | | |
| a | | | | | | | | |
| 4 | S-4 | No Rec | N/A | | | | | Core 2 Rec 3.0'/5.0' |
| _5 | S-5 | 5.0-5.5 | 3.2 | | | | | |
| • | | | | | | | | |
| 6 | S-6 | 6.0-6.5 | 2.1 | | | | | |
| 7 (| S-7 | 7.0-7.5 | 1.1 | | | | | Refusal at 8.0' |
| | | | | | | | | |
| 8 | | Sam | ple selected | for laboratory | analysis | | | |
| | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| | | | | | | | | |
| 11 | | | | | | | | |
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| 14 | | | | | | | | |
| | | | | | | | | |
| 15 | | | | | | | | |

APPENDIX B

RED LAB LABORATORY TESTING REPORT

| Q | ED | | | | | | | | | | _ | ſ | <u>QROS</u> |
|-------------|---|------------------|-------------------|-------------------|--------------------|-------------------|---------------------------------|----------------|----------------------|------------------|--------------|----------|--|
| | | | | Hydroca | arbon An | alysis Ro | esults | | | | | | |
| Address: | ESP ASSOCIATES, INC. 7011 ALBERT PICK ROAD SUITE E GREENSBORO NC 27409 | | | | | | | | Sa Sampl Sampl | | acted | | Monday, September 10, 2018 Monday, September 10, 2018 Wednesday, September 12, 201 |
| Contact: | DILLON NANCE | | | | | | | | | Op | erator | | NICK HENDRIX |
| | | | | | | | | | | - | | | |
| Project: | U-2579 AB | | | | | | | | | | | | |
| | | | | | | | | | | | | | U0090 |
| 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 | | 5 | HC Fingerprint Match |
| | | | | | | | | | | C5 - C10 | C10 - C18 | C18 | |
| S | B54-1 (S-9) | 20.3 | <0.51 | <0.51 | <0.51 | <0.51 | <0.1 | <0.16 | <0.02 | 0 | 0 | 0 | PHC not detected |
| S | B54-2 (S-8) | 18.2 | <0.45 | <0.45 | 1.3 | 1.3 | 1.2 | <0.15 | <0.018 | 0 | 62.8 | 37.2 | V.Deg.PHC 71.2%,(FCM),(BO) |
| S | B54-3 (S-9) | 32.9 | <0.82 | <0.82 | 10 | 10 | 5.1 | <0.26 | <0.033 | 9.9 | 71.1 | 19 | Deg.PHC 73.6%,(FCM) |
| S | B54-4 (S-7) | 25.5 | <0.64 | <0.64 | <0.64 | <0.64 | <0.13 | <0.2 | <0.025 | 0 | 0 | 0 | PHC not detected |
| S | B54-5 (S-9) | 11.6 | <0.29 | <0.29 | <0.29 | <0.29 | <0.06 | <0.09 | <0.012 | 0 | 0 | 0 | ,(FCM) |
| S | B36-5 (S-7) | 22.2 | <0.56 | <0.56 | <0.56 | <0.56 | <0.11 | <0.18 | <0.022 | 0 | 73.3 | 26.7 | Residual HC,(BO),(P) |
| S | B36-4 (S-9) | 21.9 | <0.55 | <0.55 | 0.75 | 0.75 | 0.72 | <0.18 | <0.022 | 0 | 74.1 | 25.9 | Residual HC,(BO),(P) |
| S | B36-3 (S-9) | 47.2 | <1.2 | <1.2 | 2.5 | 2.5 | <0.24 | <0.38 | <0.047 | 0 | 100 | 0 | Deg.Diesel 45.3%,(FCM) |
| S | B36-2 (S-9) | 35.0 | <0.88 | 1.9 | 5.2 | 7.1 | 3 | <0.28 | <0.035 | 49.8 | 43.9 | 6.2 | Deg.Fuel 74.3%,(FCM) |
| S | B36-1 (S-9) | 23.0 | <0.57 | <0.57 | <0.57 | <0.57 | <0.11 | <0.18 | <0.023 | 0 | 27.9 | 72.1 | Residual HC,(BO) |
| | Initial | Calibrator | QC check | OK | | | | | Final F | CM QC | Check | OK | 101.1 |
| obreviation | on values in mg/kg for soil samples and m ns :- FCM = Results calculated using Func rift : (SBS)/(LBS) = Site Specific or Library | lamental Calib | ration Mode | : % = confide | nce of hydroc | arbon identific | ation : (PFM) = | = Poor Finge | erprint Match | י ר = (T) = 1 | Turbid : (| P) = Par | ticulate detected |

APPENDIX C CHAIN-OF-CUSTODY FORM

| Client Name: | ESP Aggricules, FAC |
|---------------|--|
| Address: | FOILAIbert Pick Rd: Ste E Greensler, NC 27409 |
| Contact: | Dillon Nonce |
| Project Ref.: | 11-2579AB |
| Email: | d.nance@espassociates.com |
| Phone #: | 336-404-3117 |
| Collected by: | D. Nance |



RAPID ENVIRONMENTAL DIAGNOSTICS

CHAIN OF CUSTODY AND ANALYTICAL

REQUEST FORM

RED Lab, LLC 5598 Marvin K Moss Lane MARBIONC Bldg, Suite 2003 Wilmington, NC 28409

Each sample will be analyzed for BTEX, GRO, DRO, TPH, PAH total aromatics and BaP

| Sample Collection TAT R | | quested | Matrix | Samp | D D | UVF | GC BTEX | X Total Wt. | Tare Wt. | Sample Wt. |
|-------------------------|-----------|---------|--------|----------------|-------------|----------|-----------|-------------|----------------|------------|
| Date/Time | 24 Hour | 48 Hour | (S/W) | - | | | | | | |
| 9/10/18 | | V | 5 | B36-5 5- | 7 | V | | 50.5 | 44.2 | 6.3 |
| 1 | |) | 1 | B36-4 5- | 9 | 1 | | 50.5 | 44.1 | 6.4 |
| | | | | B36-3 5-1 | | | | 530 | 44.1 | 8.9 |
| | | | | B36-2 5-0 | | | | 48.4 | 44.0 | 4.4 |
| | | | | B36-1 5-9 | | | | 50,4 | 44.3 | 61 |
| | | | | B60-4 5-1 | | | | 51.2 | 44.3 | 6.9 |
| | | | | B60-3 5-7 | | | | 51.7 | 44.4 | 7.3 |
| | | | | B60-2 5-8 | | | | 49.6 | 44.3 | 5.3 |
| | | | | B60-1 5-1 | | | | 51.2 | 44.5 | 6.7 |
| | | | | 850-5 6- | 8 | | | 50,5 | 44.3 | 6.2 |
| | | | | B50-4 5-10 | | | | 49.3 | 44.0 | 5.3 |
| | | | | B50-3 5-9 | | | | 46.0 | 44.0 | 2.6 |
| | | | | 850-2 5-0 | | | | 50.7 | 44.2 | 2.6 |
| | | | | B50-1 5-9 | | | | 49.9 | 43.9 | 6.0 |
| | | | | B51-5 5-9 | | | | 49.5 | 44.0 | 5.5 |
| | | | | B51-4 5-9 | , | | | 50.3 | 44.0 | 6.3 |
| | | | | 1351-3 5-9 | | | | 47.1 | 44.3 | 2.8 |
| | | | 1 | B61-2 5-9 | | | | 48.2 | 44.2 | 40 |
| V | | V | | BEI-1 5-9 | | V | | 53.7 | 44.0 | 9.7 |
| omments: | ost sa | nples u | nderwa | largely shaffe | | (sentati | 20 | R | ED Lab USE | ONLY |
| | uished by | | | e/Time | Accepted by | | Date/Time | 1 | 5 | |
| DiNa | | | 9/10/ | j | N/ | 1 9/1 | Date/Time | 1 | (\mathbf{a}) | |
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| Kenne | | | - Sur | | | | | 1 | \smile | |