

Preliminary Site Assessment

**US 401 (Raeford Road) from West Hampton Oaks Drive to East of
Fairway Drive in Fayetteville**

**Parcel 330 – V/D Neal Properties LLC Property
2602 Raeford Road, Fayetteville, North Carolina**

State Project No. U-4405

WBS Element: 39049.1.1

December 16, 2016

Terracon Project No. 70167490



Prepared for:

North Carolina Department of Transportation
Raleigh, North Carolina

Prepared by:

Terracon Consultants, Inc.
Raleigh, North Carolina

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

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December 16, 2016

North Carolina Department of Transportation
Attention: Mr. Terry W. Fox, LG,
GeoEnvironmental Engineering Unit
Century Center Complex
Building B
1020 Birch Ridge Road
Raleigh, North Carolina 27610

Re: Preliminary Site Assessment (PSA)
US 401 (Raeford Road) from West Hampton Oaks Drive to East of Fairway Drive in
Fayetteville
Parcel 330 – V/D Neal Properties LLC Property
2602 Raeford Road, Fayetteville, North Carolina
State Project No. U-4405
WBS Element: 39049.1.1

Dear Mr. Fox:

Terracon Consultants, Inc. (Terracon) is pleased to submit a Preliminary Site Assessment (PSA) report for the above referenced site. This assessment was performed in accordance with our Proposal for Preliminary Site Assessment (Terracon Proposal No. P70167490) dated September 27, 2016. This report includes the findings of the investigation, and provides our conclusions and recommendations.

Terracon appreciates the opportunity to provide these services to the North Carolina Department of Transportation. If you have any questions concerning this report or need additional information, please contact us at 919-873-2211.

Sincerely,

Terracon Consultants, Inc.

Prepared by:

Ethan H. Smith
Field Geologist

Reviewed by:

Michael T. Jordan, P.G.
Environmental Department Manager

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PRELIMINARY SITE ASSESSMENT

US 401 (RAEFORD ROAD) FROM WEST HAMPTON OAKS DRIVE TO EAST OF FAIRWAY
DRIVE IN FAYETTEVILLE, CUMBERLAND COUNTY, NORTH CAROLINA
STATE PROJECT NO. U-4405
WBS ELEMENT: 39049.1.1
PARCEL 330 – V/D NEAL PROPERTIES LLC PROPERTY
2602 RAEFORD ROAD, FAYETTEVILLE, NORTH CAROLINA

1.0 INTRODUCTION

1.1 Site Description

Site Name	US 401 (Raeford Road) from West Hampton Oaks Drive to East of Fairway Drive in Fayetteville
Site Location/Address	2602 Raeford Road, Fayetteville, NC 28304 (Cumberland County Tax PIN: 0427-41-0841)
General Site Description	The site consists of a one-story commercial building that is currently operated as an Exxon gas station. The site is further improved with a paved access drive, parking areas, and pump islands.

1.2 Site History

The site is located at 2602 Raeford Road in Fayetteville, Cumberland County, North Carolina. At the time of the Preliminary Site Assessment (PSA), the site was operating as an Exxon gas station. This facility is listed as currently operating four (4) underground storage tanks (USTs) (NCDOT, 2016). According to the North Carolina Department of Environmental Quality (NCDEQ) – Division of Waste Management UST Section Registered Tank Database, the facility operates one 12,000-gallon diesel UST and three 12,000-gallon gasoline USTs that were reportedly installed in April 1988. Additionally, two 6,000-gallon gasolines USTs, one 4,000-gallon gasoline UST, and one 1,000-gallon UST were removed from the site in July 1986. The facility has been assigned Groundwater Incident #29840 that was opened on August 1, 2012 and closed on June 20, 2014. Additional details for the USTs and groundwater incident were not provided. However, during the assessment activities, six (6) groundwater monitoring wells were observed on the property. It appears that at least two (2) monitoring wells fall within the NCDOT right-of-way (ROW).

Preliminary Site Assessment

Parcel 330–V/D Neal Properties LLC Property ■ Fayetteville, North Carolina
December 16, 2016 ■ Terracon Project No. 70167490



1.3 Scope of Work

Terracon conducted the following PSA scope of work (SOW) in accordance with Terracon's proposal for PSA (Proposal No. P70167490) dated September 27, 2016. This PSA is being completed prior to planned median improvements and lane widening along US 401 (Raeford Road) in Fayetteville, North Carolina (site). The scope of work included a geophysical investigation, collection of seven soil samples, and preparation of a report documenting our investigation activities. The PSA is not intended to delineate potential impacts. The PSA was performed within the proposed ROW as indicated by NCDOT provided plan sheets.

1.4 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These services were performed in accordance with our proposal for PSA (Terracon Proposal No. P70167490) dated September 27, 2016 and were not conducted in accordance with ASTM E1903-11.

1.5 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, undetectable or not present during these services; thus, we cannot represent that the site is free of hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this PSA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use of the NCDOT. Authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the expressed written authorization of the client and Terracon.

Preliminary Site Assessment

Parcel 330–V/D Neal Properties LLC Property ■ Fayetteville, North Carolina
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2.0 FIELD ACTIVITIES

The following PSA activities are presented in the order that they were conducted in the field.

Exhibit 1 presents the topography of the site on a portion of the USGS topographic quadrangle map of Fayetteville, NC 1997. **Exhibit 2** is a site layout plan that indicates the approximate locations of the site features, soil boring locations, and analytical results.

2.1 Geophysical Survey

On October 19, October 26, and November 7, 2016, Geophysical Survey Investigations, PLLC conducted a geophysical investigation at the site in an effort to determine if unknown, metallic USTs were present beneath the proposed ROW area. The geophysical investigation included an electromagnetic (EM) induction survey using a Geonics EM61-MK2A metal detection instrument and a ground penetrating radar (GPR) survey using a Geophysical Survey Systems SIR-3000 unit.

The geophysical investigation did not reveal possible or probable metallic USTs within the investigated area, however the active (known) USTs are located immediately adjacent to the proposed ROW/Public Utility Easement (PUE) area. Probable buried lines, conduits, and vent pipes were located within the investigated area for this site. In addition to metal detection and GPR scans, NC One Call public utility locator identified several underground utility lines. A copy of the geophysical report is included in **Appendix A**.

2.2 Soil Sampling

Based on the findings of the geophysical investigation and Terracon’s site observations, Terracon provided oversight for the advancement of seven soil borings (SB-17 through SB-23) along the south and eastern portion of Parcel 330 and within the NCDOT ROW. The borings were completed by a North Carolina Certified Well Contractor (Regional Probing Services) using a truck-mount Geoprobe® 5410 direct-push drill rig.

Soil samples were collected in 4-foot, disposable, Macro-Core® sampler tubes to document soil lithology, color, moisture content, and sensory evidence of impacts. Each soil sample was screened for organic vapors using an 11.7 eV photoionization detector (PID). The PID data were collected in order to corroborate laboratory data and assist in selection of sample intervals for laboratory analysis. PID readings from the borings ranged from less than 0.1 to 57.3 parts per million (ppm).

Based on the proposed disturbance depths and discussion with the NCDOT, each of the soil borings was advanced to a depth of approximately 15 feet below land surface (bls). Seven soil

Preliminary Site Assessment

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December 16, 2016 ■ Terracon Project No. 70167490



samples, one from each boring, were collected from depths ranging between 9 to 15 feet bls and placed in laboratory provided sample containers and shipped to REDLAB/QROS, LLC – Environmental Testing for analysis by UVF. Soil samples were collected in the depth interval that was most likely to be impacted.

The drilling equipment used at the site was decontaminated prior to use and between the advancement of each boring. Non-dedicated sampling equipment was decontaminated using a Liquinox®/water wash followed by a distilled water rinse. Each of the boreholes was backfilled with hydrated bentonite pellets and investigation derived waste (IDW) was containerized in a 55-gallon DOT approved drum. The drum was staged beside the dumpster north of the Dunkin Donuts located at 2628 Raeford Road, Fayetteville, NC 28303 (Dunkin Donuts contact - Matt Ellsworth [910-920-1992] for subsequent disposal by the NCDOT).

Soil generally consisted of clay and sand. Groundwater was not encountered in the seven borings. The soil boring logs are included in **Appendix B**. Sample locations were measured relative to site features and the locations depicted on **Exhibit 2** are approximate.

3.0 LABORATORY ANALYSES

Soil samples were submitted to QROS for analysis of the following:

- TPH-gasoline range organics (C₅-C₁₀) (GRO);
- TPH-diesel range organics (C₁₀-C₃₅) (DRO);
- Total petroleum hydrocarbons (C₅-C₃₅) (TPH);
- Benzene, toluene, ethylbenzene, and xylenes (BTEX);
- Total aromatics (C₁₀-C₃₅);
- 16 EPA Polycyclic Aromatic Hydrocarbons (16 EPA PAHs); and
- Benzo(a)pyrene (BaP).

Please refer to **Appendix C** for the laboratory analytical reports.

4.0 DATA EVALUATION

4.1 Soil Analytical Results

Laboratory analysis reported the following detections above the laboratory reporting limits in soil borings SB-17 through SB-23:

- TPH-GRO (C₅-C₁₀) was not detected above laboratory reporting limits;
- TPH-DRO (C₁₀-C₃₅) was reported between 0.32 and 32.4 milligrams per kilogram (mg/kg);
- TPH (C₅-C₃₅) was reported between 0.32 and 32.4 mg/kg;

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- BTEX was not detected above laboratory reporting limits;
- Total aromatics (C₁₀-C₃₅) was reported between 0.33 and 14.1 mg/kg;
- 16 EPA PAHs was reported between 0.07 and 0.62 mg/kg; and
- BaP was reported between 0.004 and 0.008 mg/kg.

Laboratory analysis revealed that concentrations were not detected above the NCDEQ Action Levels for TPH in soil borings SB-17 through SB-23.

Table 1 summarizes the results of the analyses of the soil samples. **Exhibit 2** depicts the boring locations and detected compounds.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The findings of this investigation are discussed below.

- The geophysical investigation did not reveal possible or probable metallic USTs, however the active (known) USTs are located immediately adjacent to the proposed ROW/PUE area. Probable buried lines, conduits, and vent pipes were located within the investigated area for this site.
- Laboratory analysis reported that concentrations were not detected above the NCDEQ Action Levels for TPH in soil borings SB-17 through SB-23.
- Terracon recommends NCDOT provide a copy of the results to the owner and/or operator of the site.
- If monitoring wells may be disturbed during construction; Terracon recommends that they be properly abandoned.
- Terracon does not recommend further assessment of the ROW at this site. However, based on detections of petroleum compounds, construction workers should be alert for potential soil and/or groundwater impacts in other locations at the site.

Preliminary Site Assessment

Parcel 330–V/D Neal Properties LLC Property ■ Fayetteville, North Carolina
December 16, 2016 ■ Terracon Project No. 70167490



6.0 REFERENCES

NCDOT, 2016. Revised GeoEnvironmental Report for Preliminary Site Assessments. “Hazardous Material Report.” August 30, 2016.

TABLES

Table 1
Summary of Soil Analytical Results
Preliminary Site Assessment
Parcel 330 - V/D Neal Properties LLC Property
Fayetteville, Cumberland County, North Carolina
Terracon Project No. 70167490

Sample ID: Sample Depth (ft bls):	SB-17 13-15	SB-18 9-11	SB-19 13-15	SB-20 13-15	SB-21 13-15	SB-22 11-13	SB-23 13-15	NCDEQ Action Level	MSCC Industrial/ Commercial
GRO (C ₅ -C ₁₀)	<1.1	<0.93	<0.96	<0.97	<0.98	<0.32	<0.36	100	NE
DRO (C ₁₀ -C ₃₅)	32.4	0.93	0.96	0.97	0.98	0.32	0.36	100	NE
TPH (C ₅ -C ₃₅)	32.4	0.93	0.96	0.97	0.98	0.32	0.36	NE	NE
BTEX	<1.1	<0.93	<0.96	<0.97	<0.98	<0.32	<0.36	NE	NE
Total Aromatics (C ₁₀ -C ₃₅)	14.1	<0.43	0.68	<0.3	<0.25	<0.13	0.33	NE	NE
16 EPA PAHs	0.62	0.05	0.07	<0.03	<0.03	<0.01	<0.02	NE	NE
Benzo(a)pyrene	0.008	0.004	0.004	<0.004	<0.004	<0.001	<0.001	NE	0.78

Notes:

Soil samples were collected on November 9, 2016.

Detected compounds are shown in the table.

Concentrations are reported in milligrams per kilogram (mg/kg).

ft bls - feet below land surface.

GRO - Gasoline Range Organics.

DRO - Diesel Range Organics.

TPH - Total Petroleum Hydrocarbons.

BTEX - Benzene, Toluene, Ethylbenzene, and Xylenes.

16 EPA PAHs - Environmental Protection Agency Polycyclic Aromatic Hydrocarbons (acenaphthene, acenaphthylene, antracene, benz[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[g,h,i]perylene, benzo[a]pyrene, chrysene, dibenz[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-c,d]pyrene, naphthalene, phenanthrene, pyrene).

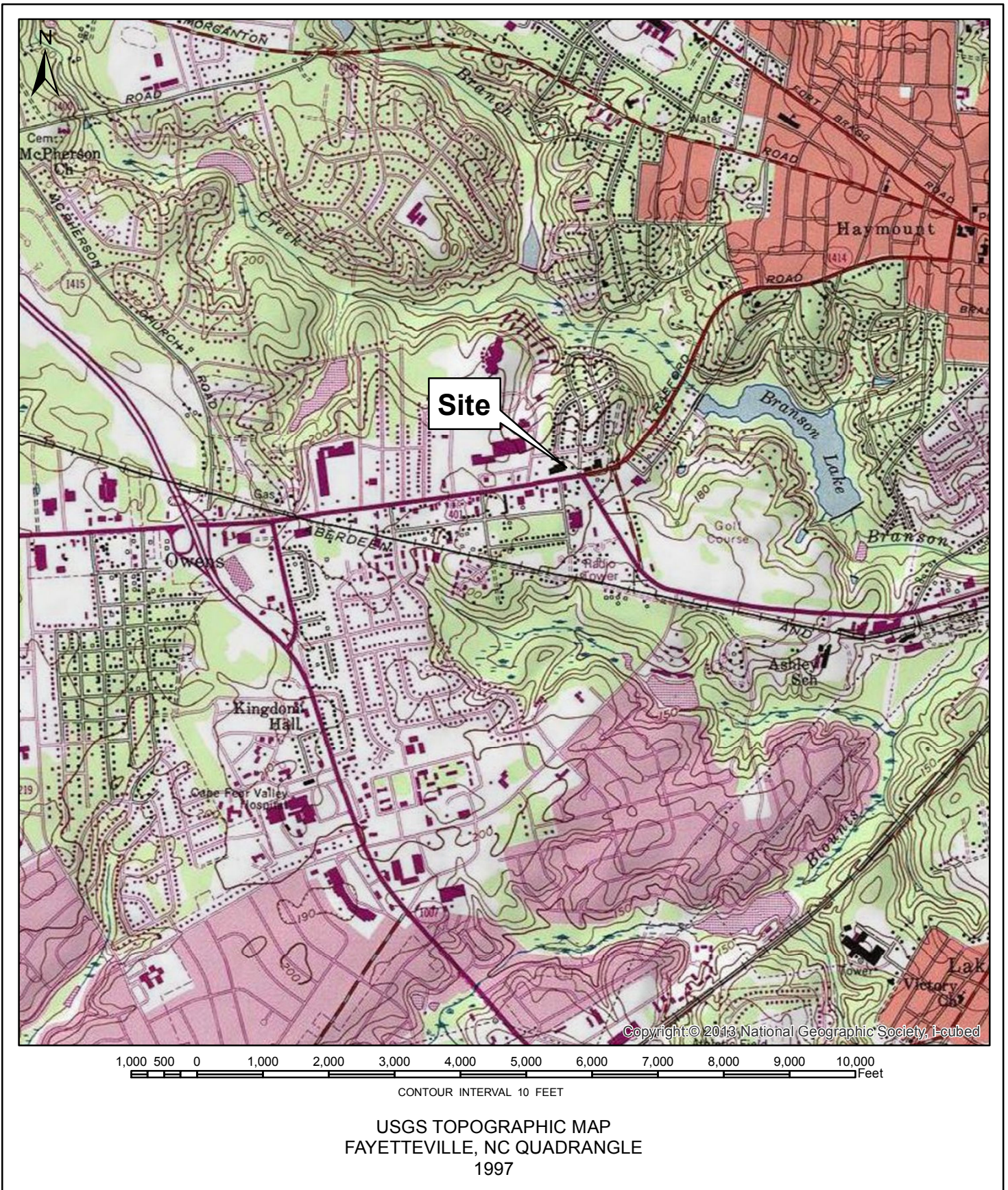
NE - Standard not established.

Detections shaded in gray exceed the North Carolina Department of Environmental Quality (NCDEQ) Action Level.

MSCC Industrial/Commercial - Maximum Soil Contaminant Concentration Levels Industrial/Commercial soil cleanup levels.

Bold: Constituent concentration reported above the method detection limit.

EXHIBITS



Project Number: 70167490
Scale: 1:24,000
Drawn By: EHS
Checked By: MTJ
Date Drawn: 11/21/16



2401 Brentwood Road, Suite 107 Raleigh, NC 27604
 Phone: (919) 873-2211 Fax: (919) 873-9555

Topographic Vicinity Map U-4405 Parcel 330 - V/D Neal Properties LLC Property 2602 Raeford Road Fayetteville, Cumberland County, NC
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EXHIBIT NO. 1

SITE DIAGRAM WITH BORING LOCATIONS AND ANALYTICAL DATA

PARCEL 330 - V/D NEAL PROPERTIES, LLC PROPERTY
2602 RAEFORD ROAD
FAYETTEVILLE, CUMBERLAND COUNTY

LEGEND

- PROPERTY LINE
- - - EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE WITH IRON PIN AND CAP MARKER
- PROPOSED EDGE OF TRAVEL
- E- PROPOSED CONSTRUCTION EASEMENT
- PUE- PROPOSED PERMANENT UTILITY EASEMENT
- PROPOSED DRAINAGE PIPING
- PROPOSED CATCH BASIN
- F C PROPOSED CUT / FILL LINE
- ⊗ BORING LOCATION

NOTES:

SOIL SAMPLES WERE COLLECTED ON NOVEMBER 9, 2016

DETECTED COMPOUNDS ARE SHOWN IN TABLE

SOIL CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

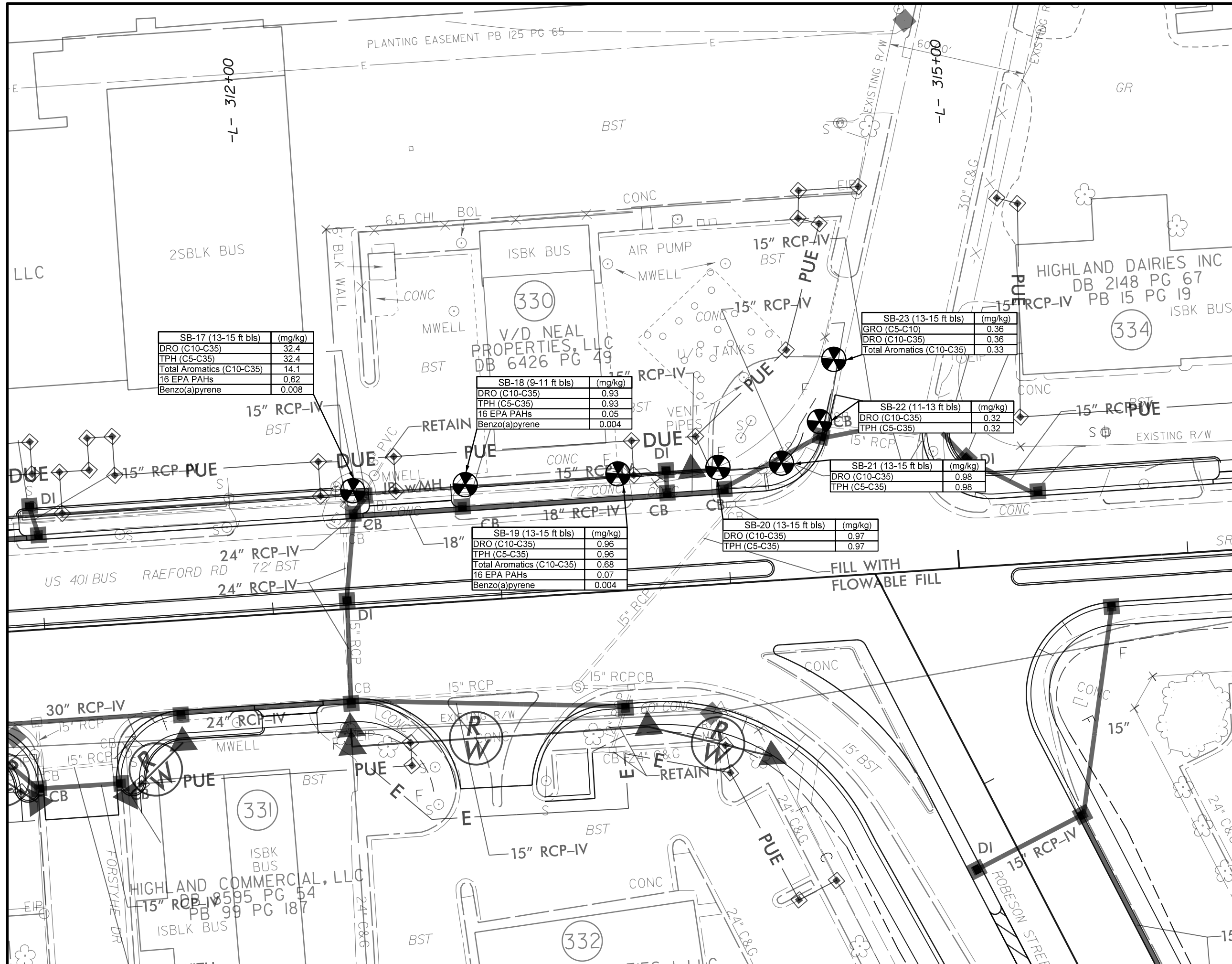
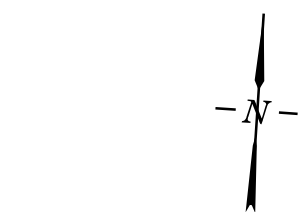
ft bls - FEET BELOW LAND SURFACE

GRO - (C5-C10) GASOLINE RANGE ORGANICS

DRO - (C10-C35) DIESEL RANGE ORGANICS

TPH - (C5-C35) TOTAL PETROLEUM HYDROCARBONS

16 EPA PAHs - ENVIRONMENTAL PROTECTION AGENCY POLYCYCLIC AROMATIC HYDROCARBONS



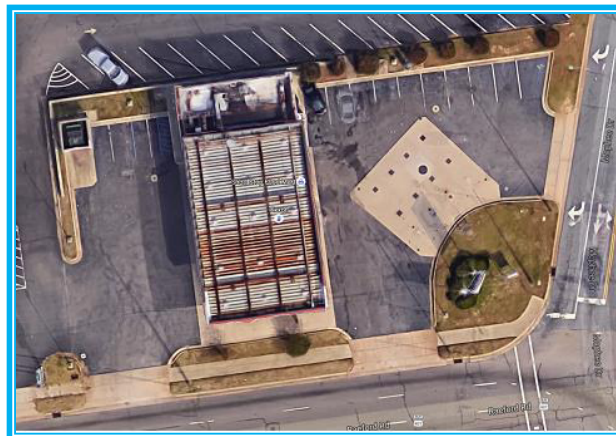
APPENDIX A

GEOPHYSICAL SURVEY REPORT

Terracon Consultants, Inc.

**GEOPHYSICAL INVESTIGATION
TO LOCATE METALLIC USTS**

**V/D Neal Properties LLC Property
(Parcel 330) 2602 Raeford Road
Fayetteville, North Carolina**



November 10, 2016

Geophysical Survey Investigations, PLLC Project No. 2016-37



4 Willimantic Drive, Greensboro, NC 27455
Office Tel: (336) 286-9718
denilm@bellsouth.net

Terracon Consultants, Inc.
GEOPHYSICAL INVESTIGATION
TO LOCATE METALLIC USTS
V/D Neal Properties LLC Property
(Parcel 330) 2602 Raeford Road
Fayetteville, North Carolina

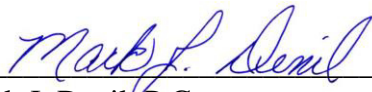
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4.0 SUMMARY & CONCLUSIONS	3
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FIGURES

Figure 1	Geophysical Equipment & Site Photographs
Figure 2	EM61-MK2A Metal Detection – Early Time Gate Results
Figure 3	EM61-MK2A Metal Detection – Differential Results

Report prepared for: Stephen J. Kerlin, PG
Terracon Consultants, Inc.
2401 Brentwood Road, Suite 107
Raleigh, North Carolina 27604

Prepared by: 
Mark J. Denil, P.G.
Geophysical Survey Investigations, PLLC

1.0 INTRODUCTION

Geophysical Survey Investigations, PLLC (GSI) conducted an electromagnetic (EM) metal detection survey, ground penetrating radar (GPR) scanning and utility line clearance search for Terracon Consultants, Inc. on October 19, October 26 and November 7, 2016 across a portion of the V/D Neal Properties LLC property (Parcel 330) located at 2602 Raeford Road in Fayetteville, North Carolina. The geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment for State Project U-4405 (WBS Element 39049.1.1) US 401 (Raeford Road) from West of SR-1409 to US 401 Business (Robeson Street).

The geophysical investigation was conducted to determine if buried, metallic, underground, storage tanks (USTs) are present beneath the proposed Right-of-Way (ROW) and PUE areas of the site. The perimeter of the ROW/PUE area is shown as a red polygon in the aerial photograph presented in **Figure 1**. Presently, an Exxon gas station and convenient store operates on this property.

Terracon representative Mr. Stephen Kerlin, PG provided guidance and site maps to Geophysical Survey Investigations, PLLC personnel prior to conducting the geophysical field work. The geophysical survey area at Parcel 330 has a maximum length and width of 190 feet and 125 feet, respectively. Please note that the ROW and PUE areas at this site were not marked or the survey markers were not visible at the time the geophysical investigation was conducted.

2.0 FIELD METHODOLOGY

The EM investigation was performed across the geophysical survey area (proposed ROW and PUE areas) using a Geonics EM61-MK2A metal detection instrument with a Trimble AG-114 GPS unit. EM61 metal detection data and GPS coordinates were digitally collected in latitude and longitude geodetic format (NAD83) using a Juniper data recorder at approximately 1.0 foot intervals along survey lines spaced approximately five feet apart. The Trackmaker NAV61MK2 software program was used with the data recorder to view the relative positions of the survey lines in real time during data acquisition.

According to the instrument specifications, the EM61-MK2A can detect a metal drum down to a maximum depth of approximately 8 to 10 feet. Objects less than one foot in size can be detected to a maximum depth of 4 or 5 feet. The EM61 and GPS data were downloaded to a computer and processed in the field using the Trackmaker61MK2 and Surfer for Windows software programs. GPS coordinates were converted during data processing to Universal Transverse Mercator (UTM) coordinates (in feet) which are used as location control in this report.

GPR scans were performed along northerly-southerly and easterly-westerly directions spaced primarily 3 to 5 feet apart across selected EM61 differential anomalies and areas containing steel reinforced concrete using the Geophysical Survey Systems SIR-3000 unit equipped with a 400 MHz antenna. GPR data were viewed in real time in a continuous mode using a vertical scan of 512 samples, at a sampling rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were viewed to a maximum investigating depth of approximately 5.0 feet based on an estimated two-way travel time of 8.0 nanoseconds per foot.

Following the UST investigation, areas around the proposed Terracon soil borings were scanned with the GPR unit and a DitchWitch 910 utility locator for buried utility line clearance and no further discussion regarding the utility clearance work will be made in this report. Photographs of the geophysical equipment used for the investigation and of the site are presented in Figure 1.

3.0 DISCUSSION OF RESULTS

Contour plots of the EM61 early time gate results and the EM61 differential results are presented in **Figures 2 and 3**, respectively. The early time gate results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The early time gate response can be used to delineate metallic conduits or utility lines, small, isolated, metal objects and areas containing insignificant metal debris. The differential results are obtained from the difference between the early time gate channel and late time gate channel of the EM61 instrument. The differential results focus on the larger metal objects such as drums and UST-size objects and ignore the smaller, insignificant, metal objects or debris.

The linear, EM61 early time gate anomalies intersecting UTM coordinates 2262858-E 12730142-N, 2262873-E 12730143-N, 2262990-E 12730148-N, and 2263009-E 12730142-N are probably in response to buried lines or conduits. GPR data suggest the large EM61 anomaly centered near coordinates 2262914-E 12730137-N is in response to steel reinforced concrete and buried conduits. GPR data suggest that the high amplitude, EM61 anomalies centered near coordinates 2262996-E 12730184-N are in response to the vent pipes, bollards, and the steel reinforced concrete UST pad. The active (known) USTs are located immediately adjacent to the proposed ROW/PUE area and centered near coordinates 2262977-E 12730198-N. Please note that GPR scans across the UST pad suggest that the active USTs are nonmetallic in composition.

GPR scans suggest the remaining EM61 differential anomalies are in response to utility line-related equipment or miscellaneous, metal objects/debris. The EM61 and GPR investigation suggests the proposed ROW/PUE area does not contain metallic USTs. Please refer to Figures 2 and 3 for additional (detailed) information regarding the geophysical findings at this site.

4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the geophysical survey area at the V/D Neal Properties LLC property (Parcel 330) located at 2602 Raeford Road in Fayetteville, North Carolina provides the following summary and conclusions:

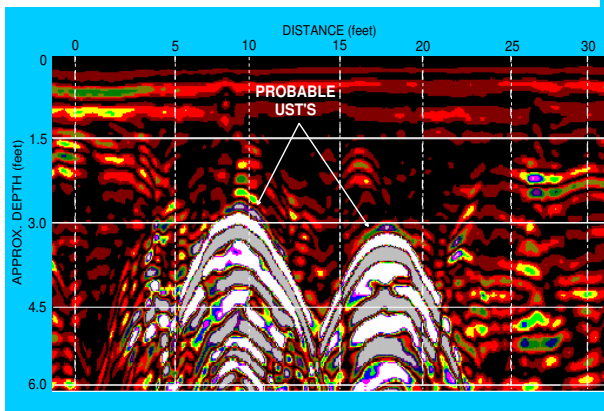
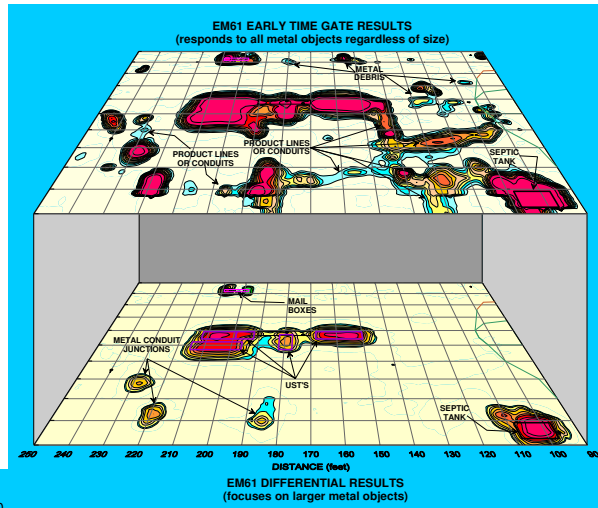
- The combination of EM61 and GPR surveys provided reliable results for the detection of metallic USTs across the survey area within the depth interval of 0 to 6 feet.
- The linear, EM61 early time gate anomalies intersecting UTM coordinates 2262858-E 12730142-N, 2262873-E 12730143-N, 2262990-E 12730148-N, and 2263009-E 12730142-N are probably in response to buried lines or conduits.
- GPR data suggest that the high amplitude EM61 anomalies centered near coordinates 2262996-E 12730184-N are in response to the vent pipes and the steel reinforced concrete

UST pad. The active (known) UST's are located immediately adjacent to the proposed ROW/PUE area and centered near coordinates 2262977-E 12730198-N.

- The EM61 and GPR investigation suggests the proposed ROW/PUE area does not contain metallic USTs.

5.0 LIMITATIONS

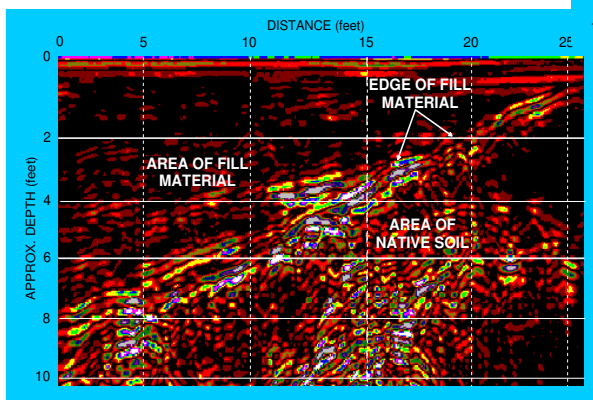
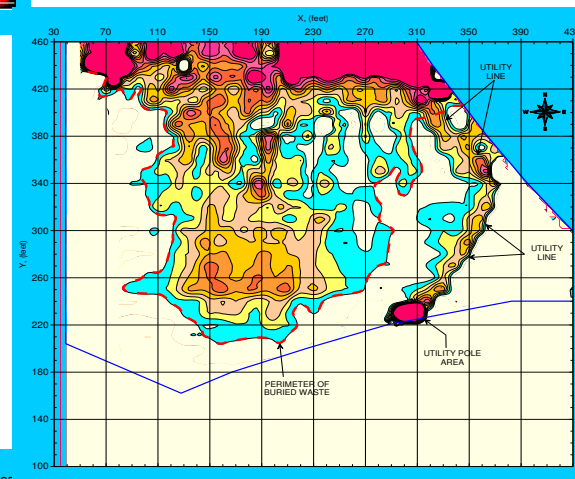
EM61 and GPR surveys have been performed and this report prepared for Terracon Consultants, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the geophysical surveys are non-unique and may not represent actual subsurface conditions. Some of the EM61 and GPR anomalies interpreted as possible/probable USTs, utility lines, conduits, steel reinforced concrete, or miscellaneous, metal debris may be attributed to other surface or subsurface features and/or interference from cultural features.



REPORT FIGURES

(on the following pages)

Figures shown on this page are for
esthetic purposes only and are not
related to the site discussed in this report





DITCHWITCH UTILITY LOCATOR

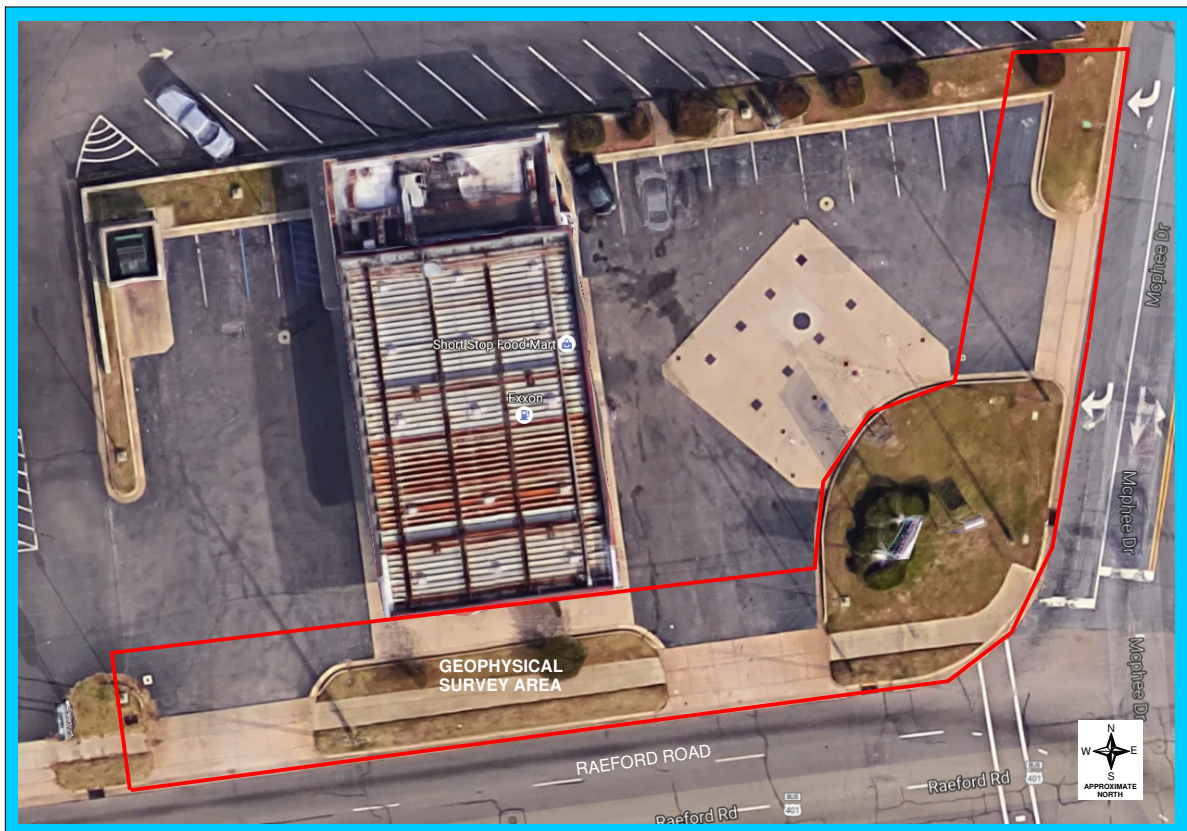


EM61 METAL DETECTOR

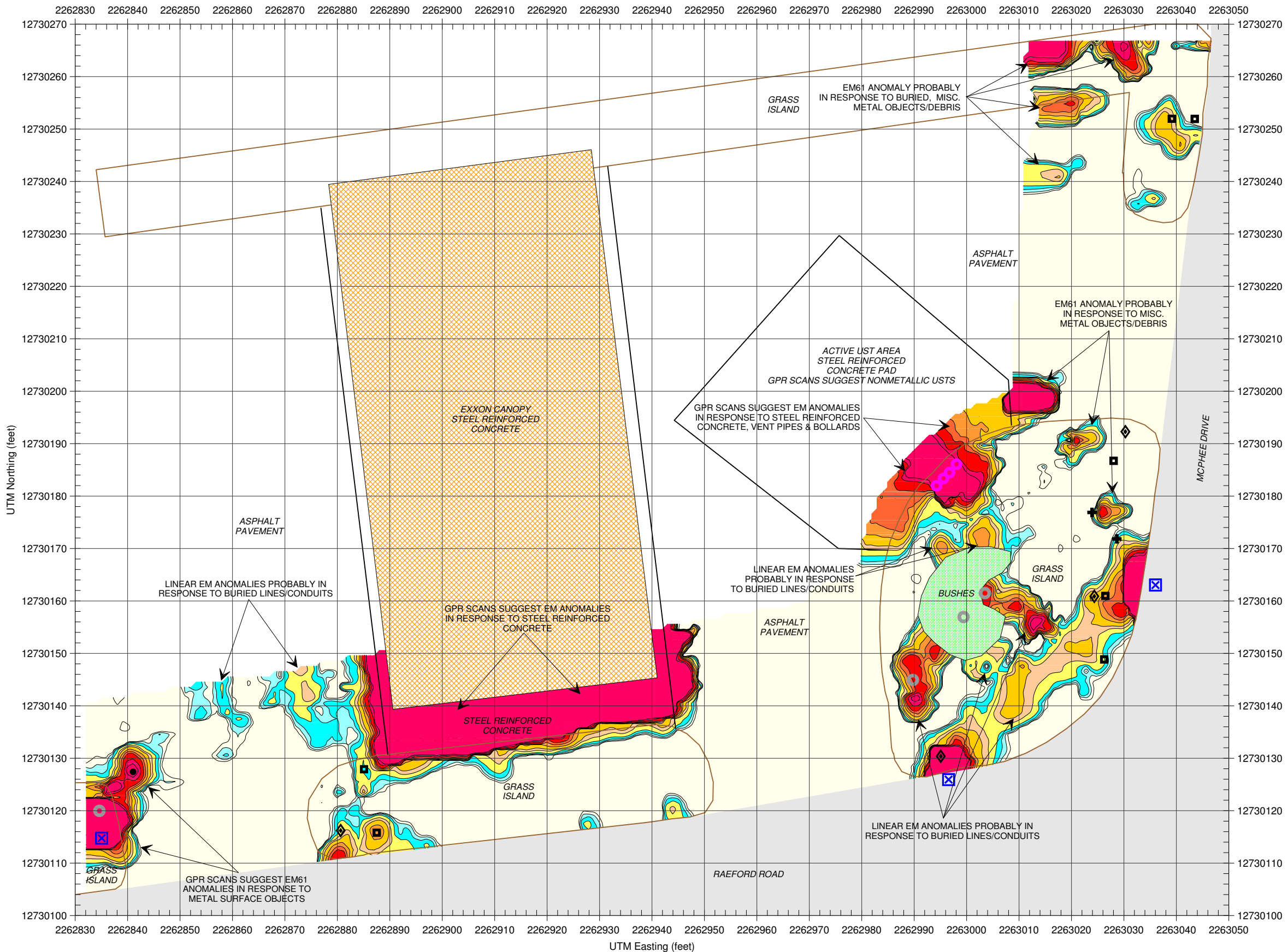


GROUND PENETRATING RADAR UNIT

The photographs show the DitchWitch 910 utility line locator, the Geonics EM61-MK2A metal detector and the GSSI SIR-3000 ground penetrating radar (GPR) unit that were used to conduct the geophysical investigation across the area of interest at Parcel 330.



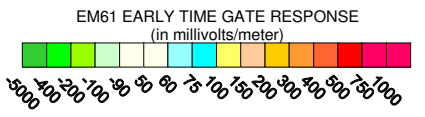
The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at the V/D Neal Properties LLC property (Parcel 330) located along Raeford Road in Fayetteville, North Carolina.



The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at Parcel 330.

LEGEND

- SURVEY AREA: EM61 ACQUIRED ALONG LINES SPACED APPROX. 5 FEET APART
- RAEFORD ROAD OR MCPHEE DRIVE
- MONITORING WELL COVER
- + GUY WIRE
- UTILITY LINE RELATED BOXES
- METAL POLES
- X STORM SEWER GRATE
- O BOLLARDS
- ◆ METAL SIGN
- ◇ UTILITY POLE
- UST VENT PIPE & BOLLARD
- CONCRETE CURBING



The contour plot shows the early time gate (most sensitive) response of the Geonics EM61-MK2A metal detection instrument in millivolts (mV). The early time gate response shows buried, metallic objects regardless of size. The EM61 survey was conducted on October 19, 2016. Ground penetrating radar (GPR) scans were conducted across selected EM61 anomalies and areas containing reinforced concrete on October 26, 2016 using a Geophysical Survey Systems SIR 3000 instrument with a 400 MHz antenna.

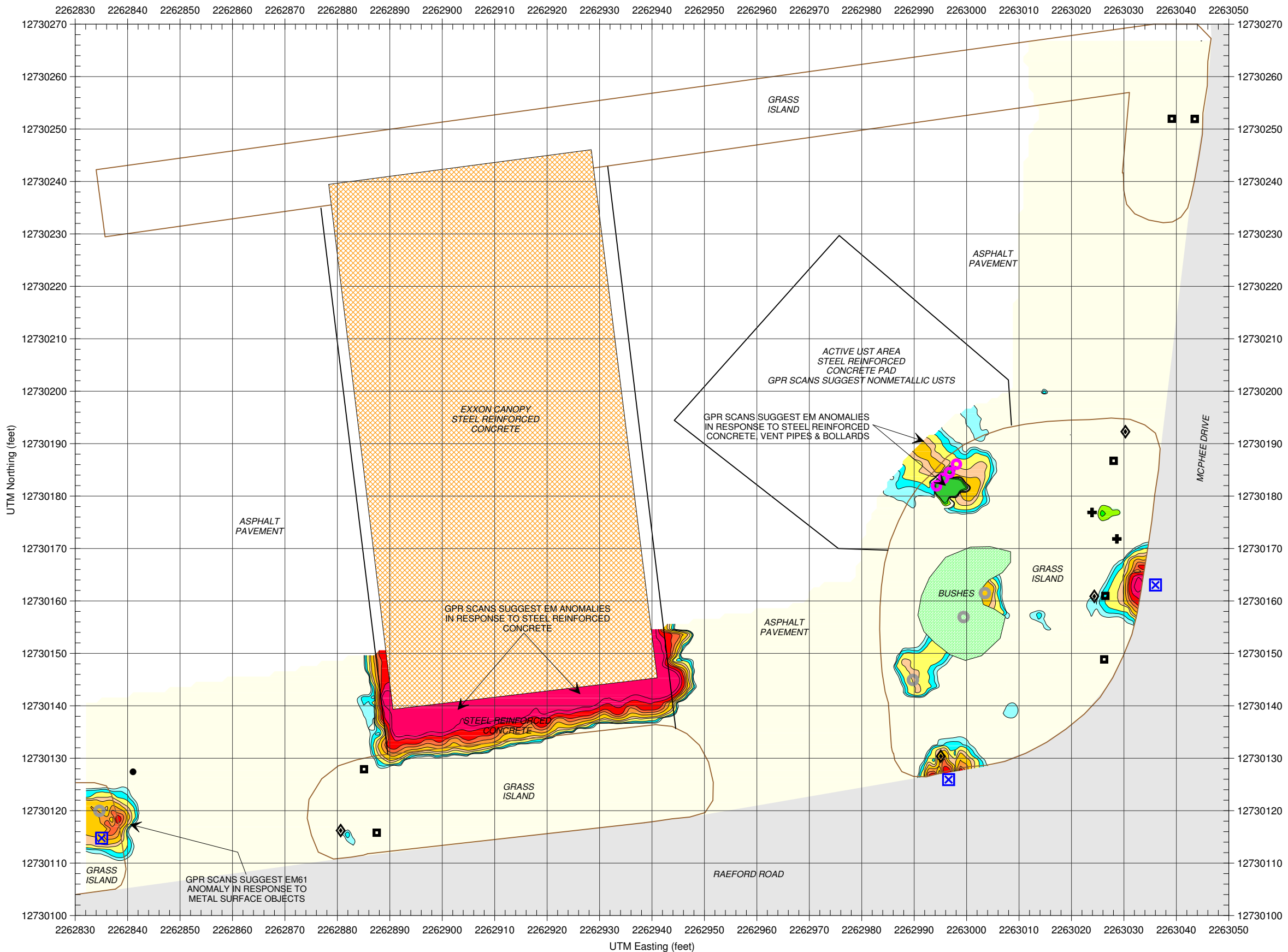
**EM61-MK2A METAL DETECTION
(EARLY TIME GATE RESULTS)**

Terracon Consultants, Inc.
V/D Neal Properties LLC Property
Parcel 330
Fayetteville, North Carolina

GEOPHYSICAL
SURVEY INVESTIGATIONS

11/10/16 336-286-9718 FIGURE 2

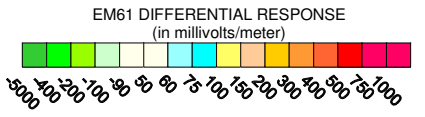




The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at Parcel 330.

LEGEND

- SURVEY AREA: EM61 ACQUIRED ALONG LINES SPACED APPROX. 5 FEET APART
- RAEFORD ROAD OR MCPHEE DRIVE
- MONITORING WELL COVER
- + GUY WIRE
- UTILITY LINE RELATED BOXES
- METAL POLES
- ⊠ STORM SEWER GRATE
- BOLLARDS
- ◆ METAL SIGN
- ◇ UTILITY POLE
- UST VENT PIPE & BOLLARD
- CONCRETE CURBING



Note: The contour plot shows the differential response between the top coil and the late time gate channel of the Geonics EM61-MK2A metal detection instrument in millivolts (mV). The differential response focuses on larger, buried, metallic objects such as drums and USTs and ignores smaller miscellaneous, buried, metal debris. The EM61 survey was conducted on October 19, 2016. Ground penetrating radar (GPR) scans were conducted across selected EM61 anomalies and areas containing reinforced concrete on October 26, 2016 using a Geophysical Survey Systems SIR 3000 unit with a 400 MHz antenna.

**EM61-MK2A METAL DETECTION
(DIFFERENTIAL RESULTS)**

Terracon Consultants, Inc.
V/D Neal Properties LLC Property
Parcel 330
Fayetteville, North Carolina



APPENDIX B

SOIL BORING LOGS

Lithology Log



Boring ID: SB-17

Project Number: 70167490		Start Date/Time: 11/16/16 1000		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 11/16/16 1010		<input type="checkbox"/> Hand Auger	<input checked="" type="checkbox"/> DPT						
Weather: 60, overcast		Boring Diameter: 2"		<input checked="" type="checkbox"/> Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 ft		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: Na		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Truck Mount Gasprobe 5410		Well Installed: No		<input type="checkbox"/> Rock Core							
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID ppm/ppb	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	12/12	-	<0.1					GM	(0-1) ASPHALT + FILL. black/tn. dry		
1-3	24/24	-	<0.1					GM	(1-3) SAA. moist		
3-5	24/24	-	<0.1					CL	(3-5) CLAY. tan. medium plasticity. moist		
5-7	24/24	-	0.3					CL	(5-7) CLAY. tan/gry/red. mottled. high plasticity. moist		
7-9	24/24	-	1.1					CL	(7-9) SAA		
9-11	24/24	-	1.9					CL	(9-11) SAA		
11-13	24/24	-	2.1					CL	(11-13) SAA		
13-15	24/24	-	3.7					SM	(13-15) SAND. pink/tan/gry moist	Sample QROS	
boring terminated at 15 ft bls											

Notes:

Lithology Log



Boring ID: SB-18

Project Number: 70167490		Start Date/Time: 11/2/16 1025		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 11/9/16 1035		<input type="checkbox"/> Hand Auger	X DPT						
Weather: 00, overcast		Boring Diameter: 2"		X Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 fms		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: Na		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Truck Mount Geoprobe 5410		Well Installed: No									
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm/ppb)	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	1/12	-	<0.1					SM	(0-1) SAND - fine gravel tan. dry		
1-3	12/24	-	<0.1					SC	(1-3) SANDY CLAY. red/tan. moist		
3-5	24/24	-	0.1					CL	(3-5) CLAY tan. stiff moist		
5-7	24/24	-	0.4					CL	(5-7) CLAY gray/red/tan. mottled. moist		
7-9	24/24	-	0.8					CL	(7-9) SAA		
9-11	24/24	-	7.5					CL	(9-11) SAA	Sample QROS at 1045	
11-13	24/24	-	4.4					CL	(11-13) SAA		
13-15	24/24	-	4.4					CL	(13-15) SAA		
boring terminated at 15 fms											

Notes:

Lithology Log



Boring ID: SB-19

Project Number: 70167490		Start Date/Time: 11/9/16 1100		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 11/9/16 1110		<input type="checkbox"/> Hand Auger	<input checked="" type="checkbox"/> DPT						
Weather: 100, overcast		Boring Diameter: 2"		<input checked="" type="checkbox"/> Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 ftbls		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: Na		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Truck Mount Geoprobe 5410		Well Installed: No		<input type="checkbox"/> Rock Core							
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID ppm / ppb	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	12/12	-	0.1					SM	(0-1) SAND. orange/ tan. dry		
1-3	24/24	-	4.2					SM	(1-3) SAND. tan. moist fine grained		
3-5	24/24	-	2.6					SM	(3-5) SAA		
5-7	24/24	-	1.7					CL	(5-7) CLAY. tan. moist medium plasticity		
7-9	24/24	-	4.3					CL	(7-9) CLAY. gray/ tan/ red. moist		
9-11	24/24	-	0.2					CL	(9-11) SAA		
11-13	24/24	-	3.7					CL	(11-13) SAA		
13-15	24/24	-	9.7					CL	(13-15) SAA noticeable odor	Sample QRES 1115	
Boring terminated at 15 ftbls											

Notes:

ppm: parts per million

ppb: parts per billion

NA= Not applicable

bls = below land surface

Lithology Log



Boring ID: SB-20

Project Number: 70167490		Start Date/Time: 1/9/16 1125		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 1/9/16 1135		<input type="checkbox"/> Hand Auger	X DPT						
Weather: 60, overcast		Boring Diameter: 2"		X Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 ftls		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: NA		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Juck Mast, Geoprobe 5410		Well Installed: NO				<input type="checkbox"/> Rock Core					
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm) ppb	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	6/12	-	0.1					SM	(0-1) SAND. tan. fine. dry		
1-3	12/24	-	4.5					SM	(1-3) SAA		
3-5	24/24	-	14.0					CL	(3-5) CLAY. red. stiff moist		
5-7	24/24	-	5.9					CL	(5-7) SAA. noticeable odor		
7-9	24/24	-	8.9					CL	(7-9) SAA. noticeable odor		
9-11	24/24	-	15.0					CL	(9-11) SAA. noticeable odor		
11-13	24/24	-	47.1					SC	(11-13) SANDY CLAY. tan/orange. moist noticeable petroleum odor		
13-15	24/24	-	57.3					SC	(13-15) SAA. petroleum odor	Sample QROS at 1140	
									boring terminated at 15 ftls		

Notes:

ppm: parts per million

ppb: parts per billion

NA= Not applicable

bls = below land surface

Lithology Log



Boring ID: SB-21

Project Number: 70167490		Start Date/Time: 1/9/16 1155		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 1205		<input type="checkbox"/> Hand Auger	X DPT						
Weather: 60, overcast		Boring Diameter: 2"		X Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 ft		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: No		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Truck Mount Geoprobe 5410		Well Installed: No		<input type="checkbox"/> Rock Core							
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppb)	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S.	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	12/12	-	0.2					SM	(0-1) SAND. tan/orange. dry		
1-3	24/24	-	<0.1					CL	(1-3) CLAY. red. medium plasticity. moist		
3-5	24/24	-	<0.1					CL	(3-5) SAA		
5-7	24/24	-	2.7					CL	(5-7) SAA		
7-9	24/24	-	7.7					CL	(7-9) CLAY. tan/gray/red. mottled. moist. noticeable smell		
9-11	24/24	-	4.3					CL	(9-11) SAA		
11-13	24/24	-	2.6					CL	(11-13) SAA		
13-15	24/24	-	14.7					SM	(13-15) SAND. tan/gray. moist. medium grained. noticeable petroleum odor	Sample QROS at 1210	
Boring terminated at 15 ft bls											

Notes:

Lithology Log



Boring ID: SB-22

Project Number: 70167490	Start Date/Time: 11/07/16 1220	Sample Method	Drilling Method
Site Location: Fayetteville, NC	End Date/Time: 11/9/16 1230	<input type="checkbox"/> Hand Auger	<input checked="" type="checkbox"/> DPT
Weather: CO, overcast	Boring Diameter: 2"	<input checked="" type="checkbox"/> Macro-Core	<input type="checkbox"/> HSA
Logged By: EHS	Total Depth: 15 fbls	<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary
Drilling Sub: Regional Probing Services	Water Level: NA	<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary
Drill Rig: TRUCK MOUNT GEOPHYSICAL 5910	Well Installed: NO		<input type="checkbox"/> Rock Core

Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID (ppm)	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	12 1/2	-	0.1					SM	(0-1) SAND tan/dry		
1-3	24/24	-	0.2					CL	(1-3) CLAY red. moist low plasticity		
3-5	24/24	-	2.7					CL	(3-5) SNA		
5-7	24/24	-	9.6					CL	(5-7) SAA		
7-9	24/24	-	11.9					CL	(7-9) SAA		
9-11	24/24	-	22.9					CL	(9-11) CLAY gray/tan/red mottled. moist. noticeable odor		
11-13	24/24	-	29.6					CL	(11-13) SAA	Sample QRS at 1235	
13-15	24/24	-	28.5					SC	(13-15) SANDY CLAY. Red/orang. tan. moist. noticeable smell noticeable petroleum odor		
									Boring terminated at 15 fbls		

Notes:

Lithology Log



Boring ID: **5B-23**

Project Number: 70167490		Start Date/Time: 11/9/16 1235		Sample Method		Drilling Method					
Site Location: Fayetteville, NC		End Date/Time: 11/9/16 1245		<input type="checkbox"/> Hand Auger	<input checked="" type="checkbox"/> DPT						
Weather: 120, overcast		Boring Diameter: 2"		<input checked="" type="checkbox"/> Macro-Core	<input type="checkbox"/> HSA						
Logged By: EHS		Total Depth: 15 ftbls		<input type="checkbox"/> Split Spoon	<input type="checkbox"/> Mud Rotary						
Drilling Sub: Regional Probing Services		Water Level: NA		<input type="checkbox"/> Shelby Tube	<input type="checkbox"/> Air Rotary						
Drill Rig: Truck Mount Gasprobe 5410		Well Installed: No		<input type="checkbox"/> Rock Core							
Depth (ft bls)	Recovery (inches)	Blow Counts (n)	PID ppm / ppb	CH ₄	CO ₂	O ₂	H ₂ S	U.S.C.S	(Depth interval) Color, MAIN COMPONENT, minor component(s), structure, moisture, angularity, odor, staining	Lab Sample: ID, analysis, time	Drilling method, tooling, depth
0-1	12/12	-	<0.1					SM	(0-1) SAND, tan, dry "3 in of ASPHALT"		
1-3	24/24	-	<0.1					CL	(1-3) CLAY, red, low plasticity moist		
3-5	24/24	-	4.3					CL	(3-5) SAA		
5-7	24/24	-	1.9					CL	(5-7) CLAY, mottled gray/tan/red, moist		
7-9	24/24	-	5.8					CL	(7-9) SAA		
9-11	24/24	-	23.1					CL	(9-11) SAN, noticeable petroleum odor		
11-13	24/24	-	11.9					CL	(11-13) SAA		
13-15	24/24	-	37.4					SC	(13-15) SANDY CLAY, red/orange/tan, fine grained noticeable petroleum odor	sample QROS at 1250	
Boring terminated at 15 ftbls											

Notes:

ppm: parts per million

ppb: parts per billion

NA= Not applicable

bls = below land surface

APPENDIX C

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



Hydrocarbon Analysis Results

Client: TERRACON
Address: 2401 BRENTWOOD ROAD
 RALEIGH NC

Samples taken Tuesday, November 8, 2016
Samples extracted Tuesday, November 8, 2016
Samples analysed Monday, November 14, 2016

Contact: STEVE KERLIN

Operator HENDRIX

Project: #70167490

											H09382		
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	SB-11	8.0	<0.2	<0.2	0.2	0.2	<0.08	<0.006	<0.001	24.9	26.2	49	Deg.PHC (FCM) (P) 44.6%
s	SB-12	39.4	<0.98	<0.98	3.8	3.8	3.1	0.33	<0.004	0	76.6	23.4	Deg.PHC (FCM) 74.5%
s	SB-13	11.4	<0.29	<0.29	0.29	0.29	<0.11	<0.009	<0.001	0	42.8	57.2	V.Deg.PHC (FCM) (P) 57.1%
s	SB-17	44.8	<1.1	<1.1	32.4	32.4	14.1	0.62	0.008	0	78.1	21.9	V.Deg.PHC (FCM) 75.9%
s	SB-18	37.1	<0.93	<0.93	0.93	0.93	<0.43	0.05	0.004	0	41.5	58.5	Residual.PHC (FCM) (P) 44.7%
s	SB-19	38.2	<0.96	<0.96	0.96	0.96	0.68	0.07	0.004	0	40.3	59.7	Residual.PHC (FCM) (P) 39.9%
s	SB-20	38.8	<0.97	<0.97	0.97	0.97	<0.3	<0.03	<0.004	0	33.8	66.2	V.Deg.PHC (FCM) 49.9%
s	SB-21	39.4	<0.98	<0.98	0.98	0.98	<0.25	<0.03	<0.004	0	44.9	55.1	V.Deg.PHC (FCM) 63%
s	SB-22	12.7	<0.32	<0.32	0.32	0.32	<0.13	<0.01	<0.001	0	44.3	55.7	V.Deg.PHC (FCM) 66.6%
s	SB-23	14.3	<0.36	<0.36	0.36	0.36	0.33	<0.02	<0.001	0	74.5	25.5	V.Deg.PHC (FCM) 72.9%
			Initial Calibrator QC check			OK	Final FCM QC Check			OK	91.2 %		

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

Batch 22

Client Name: Terracon
 Address: 2408 Harrison Hite Ct, 8401 Brentwood Rd, Raleigh, NC
 Contact: Steve Kerlin
 Project Ref.: 70167490
 Email: Steve.Kerlin@Terracon.com
 Phone #: (919) 802-5091
 Collected by: Ethan Smith

RED LAB
 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 Date/Time	TAT Requested		Matrix (S/W)	Sample ID	UVF	GC BTEX	Total Wt.	Tare Wt.	Sample Wt.
	24 Hour	48 Hour							
11/8/16 0925		✓	S	SB-01	✓		50.8	45.0	5.8
11/8/16 0955		✓	S	SB-02	✓		51.5	44.7	6.8
11/8/16 1015		✓	S	SB-03	✓		51.4	44.7	6.7
11/8/16 1045		✓	S	SB-04	✓		52.1	45.5	6.6
11/8 1105		✓	S	SB-05	✓		50.9	44.9	6.0
11/8 1130		✓	S	SB-06	✓		50.6	45.2	5.4
11/8 1240		✓	S	SB-07	✓		50.7	45.0	5.7
11/8 1255		✓	S	SB-08	✓		52.2	44.9	7.3
11/8 1320		✓	S	SB-09	✓		51.1	45.0	6.1
11/8 1350		✓	S	SB-10	✓		51.6	45.0	6.6
11/8 1405		✓	S	SB-11	✓		50.6	44.8	5.8
11/8 1440		✓	S	SB-12	✓		51.4	44.8	6.6
11/8 1500		✓	S	SB-13	✓		52.0	45.0	7.0
11/9 1015		✓	S	SB-17	✓		50.7	44.9	5.8
11/9 1045		✓	S	SB-18	✓		51.6	44.6	7.0
11/9 1115		✓	S	SB-19	✓		51.2	44.4	6.8
11/9 1140		✓	S	SB-20	✓		51.4	44.7	6.7
11/9 1210		✓	S	SB-21	✓		51.8	45.2	6.6
11/9 1235		✓	S	SB-22	✓		50.9	44.6	6.3
11/9 1235		✓	S	SB-23	✓		50.5	44.9	5.6

Comments:

RED Lab USE ONLY

Relinquished by: Ethan Smith Date/Time: 11/16 1615 Accepted by: Shadrach Date/Time: 11/14 9:30

Relinquished by: _____ Date/Time: _____ Accepted by: _____ Date/Time: _____

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