

Preliminary Site Assessment

**US 221 South of US 74 Business (Charlotte Road) to North of
SR 1366 (Roper Loop Road)
Parcel 115 – Darrill Burnett
365 East Mountain Street, North Carolina**

State Project No. R-2233BB

WBS Element: 34400.1.S5

December 1, 2017

Terracon Project No. 71177323

Prepared for:

North Carolina Department of Transportation
Raleigh, North Carolina

Prepared by:

Terracon Consultants, Inc.
Charlotte, North Carolina

terracon.com

Terracon

Environmental



Facilities



Geotechnical



Materials

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December 1, 2017

North Carolina Department of Transportation
Attention: Mr. Craig Haden
GeoEnvironmental Engineering Unit
Century Center Complex
Building B
1020 Birch Ridge Drive
Raleigh, North Carolina 27610

Re: Preliminary Site Assessment (PSA)
US 221 South of US 74 Business (Charlotte Road) to North SR 1366 (Roper Loop Road)
Parcel 115 – Darrill Burnett
365 East Mountain Street, Rutherfordton, North Carolina
State Project No. R-2233BB
WBS Element: 34400.1.S5

Dear Mr. Haden:

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. P71177323) dated June 2, 2017. 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 (NCDOT). 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:

S. Alex Chinery, E.I.
Senior Staff Environmental Engineer

DocuSigned by:

S. Alex Chinery

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Reviewed by:

Christopher L. Corbitt, P.G.
Senior Geologist

DocuSigned by:

Christopher L. Corbitt

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PRELIMINARY SITE ASSESSMENT

US 221 SOUTH OF US 74 BUSINESS (CHARLOTTE ROAD) TO NORTH SR 1366 (ROPER LOOP ROAD)

RUTHERFORDTON, RUTHERFORD COUNTY, NORTH CAROLINA

STATE PROJECT NO. R-2233BB

WBS ELEMENT: 34400.1.S5

PARCEL 115 – DARRILL BURNETT

365 EAST MOUNTAIN STREET, RUTHERFORDTON, NORTH CAROLINA

1.0 INTRODUCTION

1.1 Site Description

Site Name	US 221 South of US 74 Business (Charlotte Road) to North SR 1366 (Roper Loop Road) in Rutherfordton
Site Location/Address	365 East Mountain Street, Rutherfordton, NC 27834 (Rutherford County Tax PIN: 1606563)
General Site Description	The site consists of a commercial building that is currently operating as a vehicle maintenance and tire repair shop.

1.2 Site History

The site is located at 365 East Mountain Street in Rutherfordton, Rutherford County, North Carolina (site). At the time of the PSA, the site was improved with a one-story commercial building identified as Tri City Tire Service. According to the property owner, the facility operates as an automotive maintenance facility and tire repair shop. Northern and western portions of the site are cleared and contain wooden debris piles and stored equipment.

1.3 Scope of Work

Terracon conducted the following Preliminary Site Assessment (PSA) scope of work in accordance with Terracon's Proposal No. P71177323 dated June 2, 2017. This PSA is being completed prior to planned roadway improvements along US Highway 221 in Rutherfordton, North Carolina. The scope of work included a geophysical investigation, collection of seven soil samples and preparation of a report documenting the investigation activities. The PSA is not intended to delineate potential impacts. The PSA was performed within the proposed right-of-way (ROW) as indicated by North Carolina Department of Transportation (NCDOT) provided plan sheets.

Preliminary Site Assessment

Parcel 115 – Darrill Burnett ■ Rutherfordton, North Carolina
December 1, 2017 ■ Terracon Project No. 71177323



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 Terracon Proposal No. P71177323 dated June 2, 2017 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.

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 Rutherfordton North, NC 2002. **Exhibit 2** is a site layout plan that depicts the approximate locations of the site features and soil boring locations.

2.1 Geophysical Survey

On July 29 and August 3, 2017, Geophysical Survey Investigations, conducted a geophysical investigation at the site in an effort to evaluate and detect potentially unknown, metallic underground storage tanks and buried utilities beneath the proposed ROW area. The geophysical investigation included an electromagnetic (EM) induction survey using a Geonics EM61-MK2A metal detection instrument with a Hemisphere A101 GPS unit and a ground penetrating radar (GPR) survey using a Geophysical Survey Systems SIR-3000 unit equipped with a 400 MHz antenna.

The geophysical investigation did not detect evidence of unknown metallic USTs across the survey area within the depth interval of zero to eight feet below land surface (bls). The metal detection and GPR scans identified several underground utility lines and miscellaneous buried metal debris. 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 (B-115-1 through B-115-7) within Parcel 115. The borings were completed by Innovative Environmental Technologies, a North Carolina Certified Well Contractor using a track-mounted AMS 9500-VTR[®] direct-push drill rig.

Soil samples were collected in 5-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 0.9 parts per million (ppm) to 1.8 ppm.

Based on the proposed disturbance depths and discussions with the NCDOT, each of the soil borings was advanced to a depth of approximately 15 feet bls. Seven soil samples, one from each boring, were collected from depths ranging between 5 to 15 feet bls, placed in laboratory provided

Preliminary Site Assessment

Parcel 115 – Darrill Burnett ■ Rutherfordton, North Carolina
December 1, 2017 ■ Terracon Project No. 71177323



sample containers and sent to RED Lab, LLC (RED) for UVF analysis of gasoline range organics (GRO) and diesel range organics (DRO). Soil samples were collected in the depth interval that was most likely to be impacted based on PID readings and field observations.

Soils generally consisted of reddish brown silty clay and sandy clay. Groundwater was not encountered in the on-site 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.

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).

3.0 DATA EVALUATION

3.1 Soil Analytical Results

Laboratory analyses reported the following constituent detections in soil borings B-115-2, B-115-4, B-115-5 and B-115-6.

Boring B-115-2:

- n DRO (0.52 milligrams per kilogram [mg/kg])

Boring B-115-4:

- n DRO (7.6 mg/kg)
- n PAHs (0.41 mg/kg)

Boring B-115-5:

- n DRO (8.1 mg/kg)
- n PAHs (0.43 mg/kg)

Boring B-115-6:

- n DRO (1.0 mg/kg)

The identified constituents were detected at concentrations below their respective NCDEQ regulatory action levels (50 mg/kg for GRO and 100 mg/kg for DRO). **Table 1** summarizes the results of the UVF analyses of the soil samples.

Preliminary Site Assessment

Parcel 115 – Darrill Burnett ■ Rutherfordton, North Carolina
December 1, 2017 ■ Terracon Project No. 71177323



4.0 CONCLUSIONS AND RECOMMENDATIONS

The findings of this investigation are discussed below.

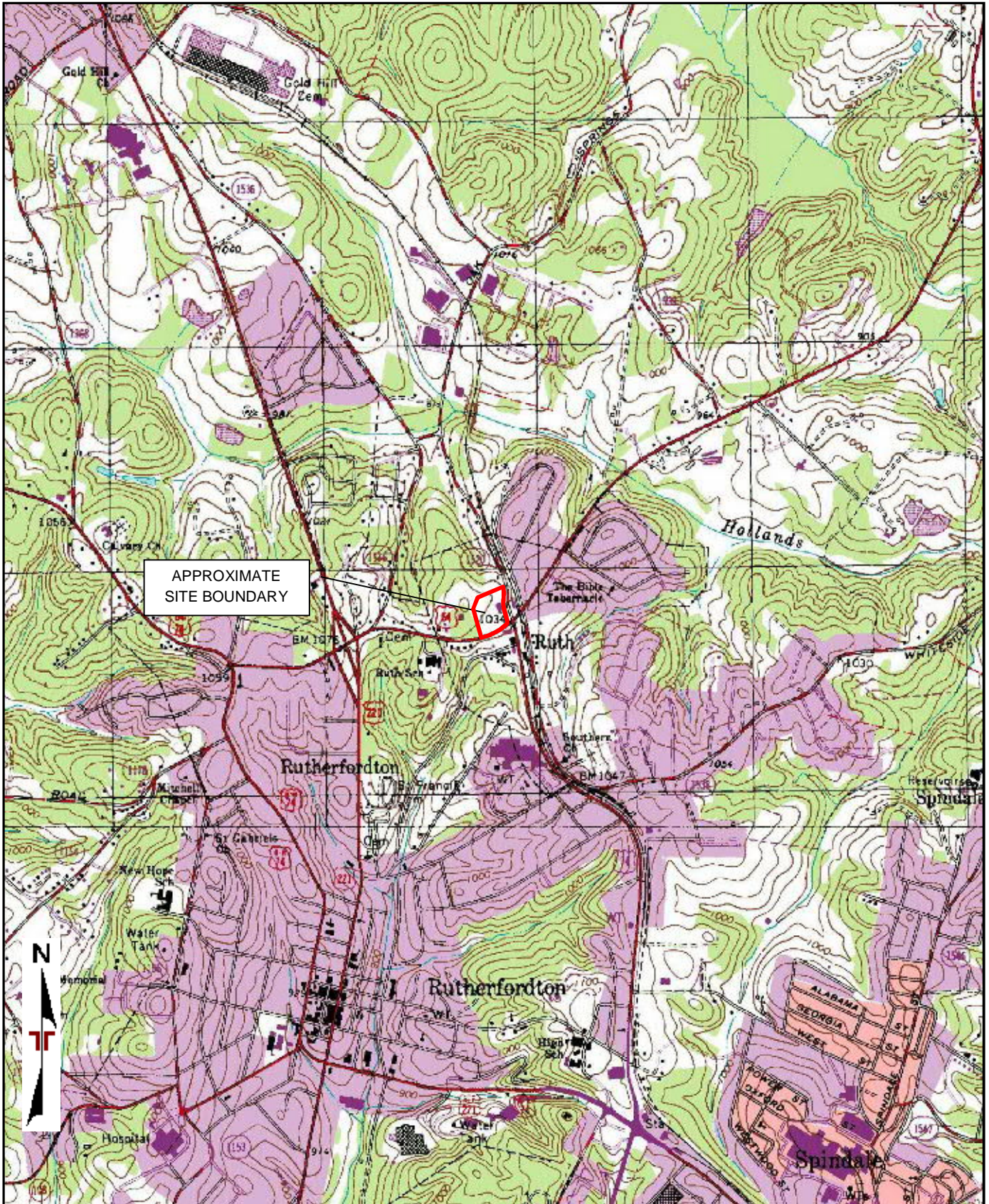
- n The geophysical investigation did not reveal evidence of unknown metallic USTs within the survey area at a depth interval of zero to eight feet bls.
- n Laboratory analyses did not identify petroleum constituents above regulatory action levels in on-site soil borings B-115-1 through B-115-7, however petroleum compounds were detected in boring B-115-2, B-115-4, B-115-5 and B-115-6 above their respective laboratory reporting limits.
- n Terracon does not recommend further assessment of this site at this time. The detection of petroleum constituents (below regulatory standards) in one of the borings is an indication that future roadway construction activities at the site could encounter petroleum impacted soils within other areas of the ROW.

FIGURES

EXHIBIT 1 - TOPOGRAPHIC MAP

EXHIBIT 2A – SITE DIAGRAM WITH SOIL BORING LOCATIONS

**EXHIBIT 2B – SITE DIAGRAM WITH SOIL BORING LOCATIONS
AND ANALYTICAL DATA**



TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY
 QUADRANGLES INCLUDE: RUTHERFORDTON NORTH, NC (1/1/2002) and RUTHERFORDTON SOUTH, NC (1/1/1993).

Project Manager:	SAC
Project No.:	71177323
Drawn by:	SAC
Scale:	1"=2,000'
Checked by:	CLC
File Name:	PARCEL115
Approved by:	CLC
Date:	SEPT. 2017

Terracon
 2020 Starita Rd Ste E
 Charlotte, NC 28206-1298

TOPOGRAPHIC VICINITY MAP

Parcel 115 – Darrill Burnett
 365 East Mountain Street
 Rutherfordton, NC

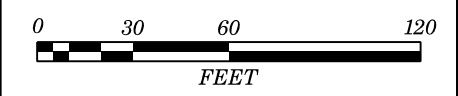
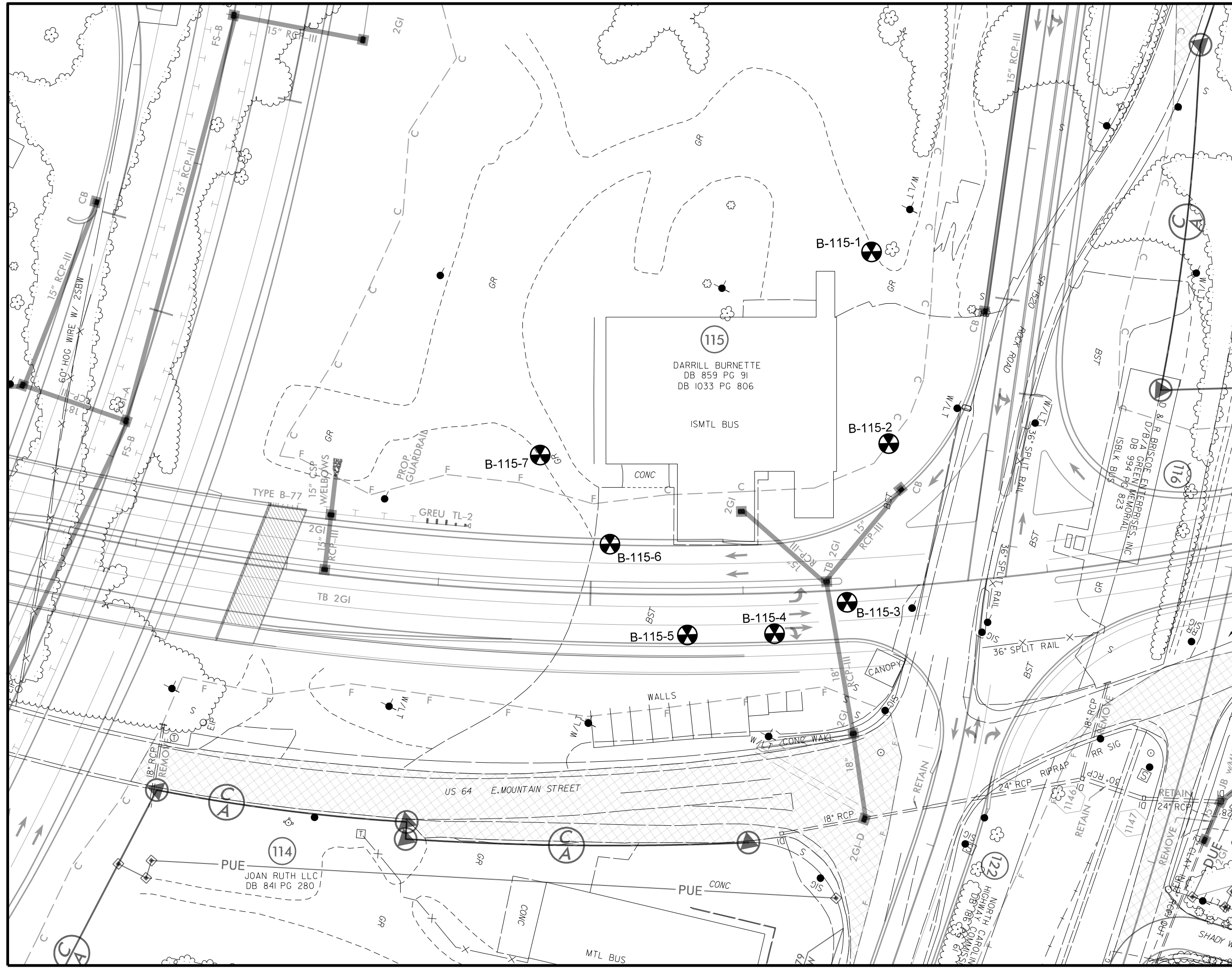
Exhibit	1
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SITE DIAGRAM WITH BORING LOCATIONS

PARCEL 115
DARRILL BURNETT PROPERTY
 365 E. MOUNTAIN STREET
 RUTHERFORDTON, RUTHERFORD COUNTY

LEGEND

- PROPERTY LINE
- - - EXISTING RIGHT OF WAY LINE
- ⊗ PROPOSED CONTROL OF ACCESS LINE WITH CONCRETE MARKER
- - - EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF TRAVEL
- F — C PROPOSED CUT / FILL LINE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE PIPING
- PUE — PROPOSED PERMANENT UTILITY EASEMENT
- ⊗ BORING LOCATION

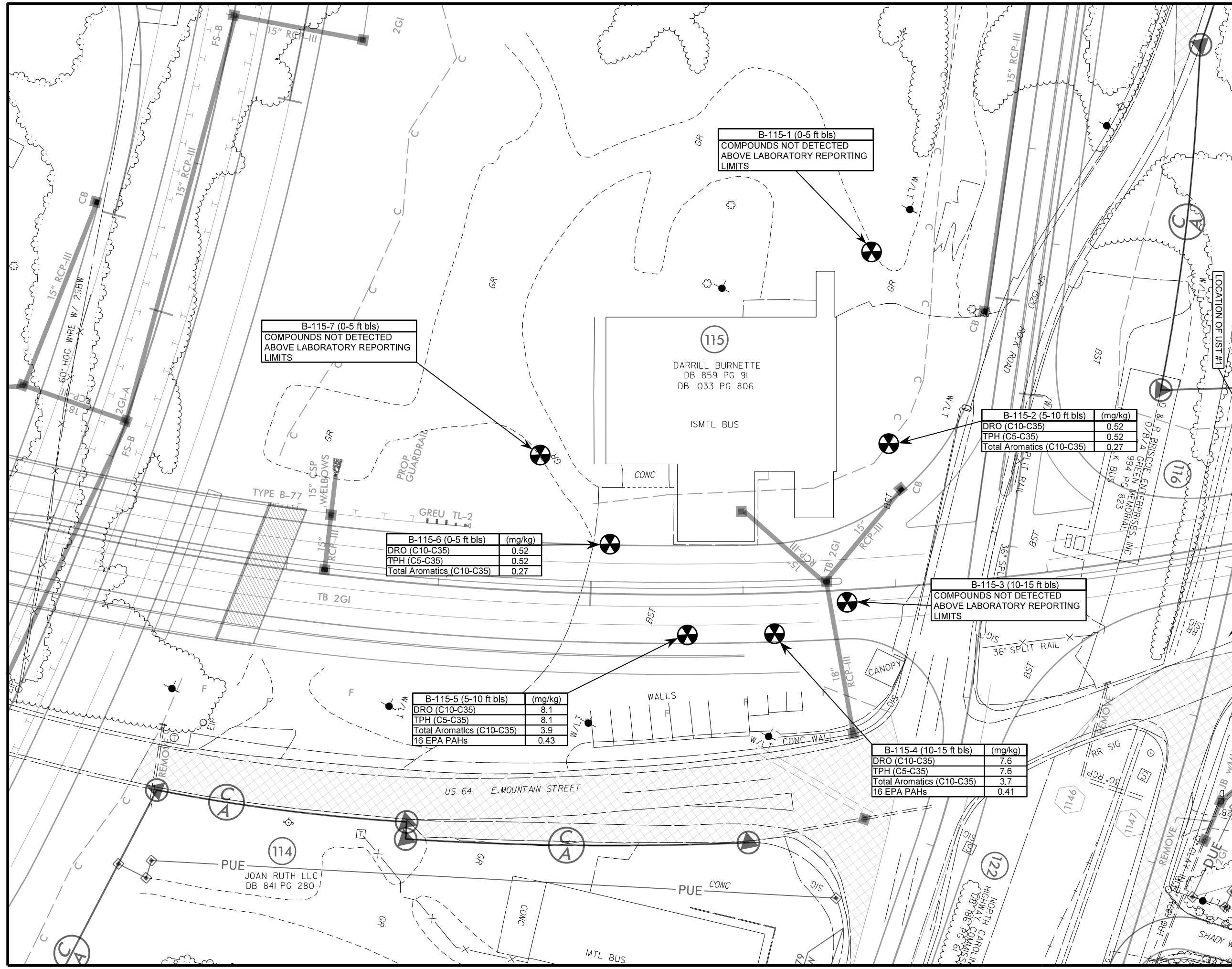
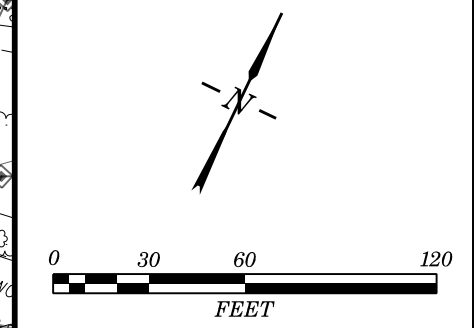


PARCEL 115
DARRILL BURNETT PROPERTY
 365 E. MOUNTAIN STREET
 RUTHERFORDTON, RUTHERFORD COUNTY

LEGEND

- PROPERTY LINE
- EXISTING RIGHT OF WAY LINE
- ⊗ PROPOSED CONTROL OF ACCESS LINE WITH CONCRETE MARKER
- - - EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF TRAVEL
- F C PROPOSED CUT / FILL LINE
- PROPOSED CATCH BASIN
- PROPOSED DRAINAGE PIPING
- PUE PROPOSED PERMANENT UTILITY EASEMENT
- ⊗ BORING LOCATION

NOTES:
 SOIL SAMPLES WERE COLLECTED ON AUGUST 14, 2017
 DETECTED COMPOUNDS ARE SHOWN IN TABLE
 SOIL CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAMS (mg/kg)
 ft bls - FEET BELOW LAND SURFACE
 DRO (C10-C35) - DIESEL RANGE ORGANICS
 TPH (C5-C35) - TOTAL PETROLEUM HYDROCARBONS
 16 EPA PAHs - ENVIRONMENTAL PROTECTION AGENCY POLYCYCLIC AROMATIC HYDROCARBONS
 LABORATORY ANALYTICAL RESULTS DID NOT REPORT CONTAMINANTS OF CONCERN AT CONCENTRATIONS IN EXCESS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY (NCDEQ) ACTION LEVELS AND / OR CLEAN-UP STANDARDS.



B-115-1 (0-5 ft bls)
 COMPOUNDS NOT DETECTED ABOVE LABORATORY REPORTING LIMITS

B-115-7 (0-5 ft bls)
 COMPOUNDS NOT DETECTED ABOVE LABORATORY REPORTING LIMITS

B-115-6 (0-5 ft bls)	(mg/kg)
DRO (C10-C35)	0.52
TPH (C5-C35)	0.52
Total Aromatics (C10-C35)	0.27

B-115-5 (5-10 ft bls)	(mg/kg)
DRO (C10-C35)	8.1
TPH (C5-C35)	8.1
Total Aromatics (C10-C35)	3.9
16 EPA PAHs	0.43

B-115-2 (5-10 ft bls)	(mg/kg)
DRO (C10-C35)	0.52
TPH (C5-C35)	0.52
Total Aromatics (C10-C35)	0.27

B-115-3 (10-15 ft bls)
 COMPOUNDS NOT DETECTED ABOVE LABORATORY REPORTING LIMITS

B-115-4 (10-15 ft bls)	(mg/kg)
DRO (C10-C35)	7.6
TPH (C5-C35)	7.6
Total Aromatics (C10-C35)	3.7
16 EPA PAHs	0.41

TABLES

TABLE 1 - FIELD SCREENING RESULTS

SUMMARY

TABLE 2 – SOIL SAMPLING ANALYTICAL RESULTS

SUMMARY (UVF)

Table 1
 Summary of Field Screening Results
 Preliminary Site Assessment
 Parcel 115 - Darrill Burnett
 Rutherfordton, Rutherford County, North Carolina
 Terracon Project No. 71177323

Sample ID	Screened Interval	PID Value
B-115-1	0-5	1.6*
	5-10	1.2
	10-15	1.2
B-115-2	0-5	1.4
	5-10	1.5*
	10-15	1.3
B-115-3	0-5	1.2
	5-10	1.4
	10-15	1.6*
B-115-4	0-5	1.3
	5-10	1.3
	10-15	1.4*
B-115-5	0-5	1.3
	5-10	1.5*
	10-15	1.4
B-115-6	0-5	1.8*
	5-10	1.4
	10-15	1.5
B-115-7	0-5	1.8*
	5-10	1.6
	10-15	0.9

Notes:

Soil screening was conducted on August 14, 2017.

*indicates sampled interval.

Concentrations are reported in parts per million (ppm).

Table 2
 Summary of Soil Analytical Results
 Preliminary Site Assessment
 Parcel 115 - Darrill Burnett
 Rutherfordton, Rutherford County, North Carolina
 Terracon Project No. 71177323

Sample ID:	B-115-1	B-115-2	B-115-3	B-115-4	B-115-5	B-115-6	B-115-7	TPH Action Level
Sample Depth (ft bls):	0-5	5-10	10-15	10-15	5-10	0-5	0-5	
UVF Analysis								
BTEX (C6-C9)	<0.63	<0.52	<0.6	<0.57	<0.59	<0.5	<0.6	NE
GRO (C5-C10)	<0.63	<0.52	<0.6	<0.57	<0.59	<0.5	<0.6	50
DRO (C10-C35)	<0.63	0.52	<0.6	7.6	8.1	1	<0.6	100
TPH (C5-C35)	<0.63	0.52	<0.6	7.6	8.1	1	<0.6	NE
Total Aromatics	<0.13	0.27	<0.12	3.7	3.9	0.55	<0.12	NE
16 EPA PAHs	<0.2	<0.17	<0.19	0.41	0.43	<0.16	<0.19	NE
BaP	<0.025	<0.021	<0.024	<0.023	<0.023	<0.02	<0.024	NE

Notes:

Soil samples were collected on August 14, 2017.

Detected compounds are shown in the table.

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

ft bls - feet below land surface.

Bold: Constituent concentration reported above the method detection limit.

APPENDIX A
GEOPHYSICAL SURVEY REPORT

Terracon Consultants, Inc.

**GEOPHYSICAL INVESTIGATION
TO LOCATE METALLIC USTS**

**Darrill Burnett Property
(Parcel 115) 365 East Mountain Street
Rutherford County, North Carolina**



November 27, 2017

Geophysical Survey Investigations, PLLC Project No. 2017-22



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

Terracon Consultants, Inc.
GEOPHYSICAL INVESTIGATION
TO LOCATE METALLIC USTS
Darrill Burnett Property
(Parcel 115) 365 East Mountain Street
Rutherford County, North Carolina

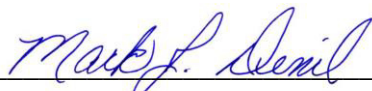
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FIGURES

Figure 1	Geophysical Equipment & Site Photographs
Figure 2	EM61-MK2A Metal Detection – Early Time Gate Results
Figure 3	EM61-MK2A Metal Detection – Differential Results
Figure 4	NCDOT Map – EM61 Early Time Gate Results
Figure 5	NCDOT Map – EM61 Differential Results

Report prepared for: Christopher L. Corbitt, PG
Terracon Consultants, Inc.
2020 Starita Road, Suite E
Charlotte, North Carolina 28206

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 July 29 and August 3, 2017 across the accessible portions of the Darrill Burnett property (Parcel 115) located at 365 East Mountain Street in Rutherford County, North Carolina. The geophysical investigation was performed as part of the North Carolina Department of Transportation (NCDOT) preliminary site assessment for State Project R-2233BB (WBS Element 34400.1.S1) US 221 south of US 74 Business (Charlotte Rd) to north of SR 1366.

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 geophysical survey area (approximate ROW & PUE areas) is shown as a red polygon in the aerial photograph presented in **Figure 1**. Presently, Tri City Tire Service along with several other businesses operate on this property. At the time of data acquisition, the northern, southern and western portions of the property contain numerous vehicles, equipment, tires and wood processing activities which reduced the accessibility of the survey area. The southeastern portion of the site has a brick retaining wall that runs adjacent to East Mountain Street and Rock Road which indicates that fill material, having an approximate thickness of 4 to 8 feet, has been placed on this property prior to the construction of the tire service garage building.

Terracon representative Mr. Christopher L. Corbitt, 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 115 has a maximum length and width of 400 feet and 350 feet, respectively. Please note that the ROW and PUE areas at this site were not marked in the field 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 Hemisphere A101 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 7.0 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 1357667-E 12847620-N, 1357726-E 12847744-N and 1357855.894-E 12847864-N are probably in response to buried lines, conduits and/or the brick retaining wall. GPR data suggest the EM61 differential anomalies centered near coordinates 1357765-E 12847991-N, 1357779-E 12847995-N and 1357810-E 12847938-N are in response to buried, miscellaneous, metal debris or small objects. GPR data suggest that the EM61 differential anomalies centered near grid coordinates 1357698-E 12847945-N and 1357605-E 12847898-N are in response to the building, equipment or steel reinforced concrete. Similarly, GPR scans suggest the series of EM differential anomalies intersecting coordinates 1357790-E 12847725-N, 1357829-E 12847753-N and 1357854-E 12847782-N are in response to vehicles and equipment present during data acquisition.

The remaining EM61 anomalies are probably in response to the buildings, vehicles, equipment and other known surface objects. The EM61 and GPR investigation suggests the geophysical survey area (the accessible portions of the proposed ROW/PUE area) does not contain metallic USTs. However, due to the 4 to 8 feet of fill material that is present in the southeastern portion of the site, the geophysical investigation, which had a maximum investigating depth of 8 feet, may not have detected metallic objects that lie below the fill layer. Please refer to Figures 2 and 3 for additional (detailed) information regarding the geophysical findings at this site. The EM61 results are also shown on NCDOT base maps in **Figures 4 and 5**.

4.0 SUMMARY & CONCLUSIONS

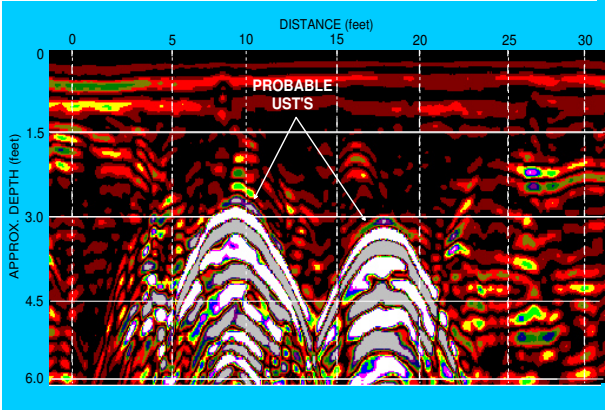
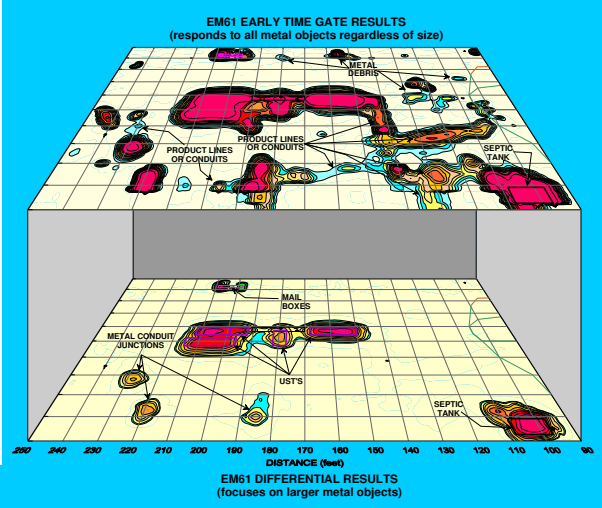
Our evaluation of the EM61 and GPR data collected across the geophysical survey area at the Darrill Burnett property (Parcel 115) located at 365 East Mountain Street in Rutherford County, North Carolina provides the following summary and conclusions:

- 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 8 feet.
- The linear, EM61 early time gate anomalies intersecting UTM coordinates 1357667-E 12847620-N, 1357726-E 12847744-N and 1357855.894-E 12847864-N are probably in response to buried lines, conduits and/or the brick retaining wall.
- GPR data suggest the EM61 differential anomalies centered near coordinates 1357765-E 12847991-N, 1357779-E 12847995-N and 1357810-E 12847938-N are probably in response to buried, miscellaneous metal debris or small objects.
- The remaining EM61 anomalies are probably in response to the buildings, steel reinforced concrete, vehicles, equipment and other known surface objects.
- The EM61 and GPR investigation suggests the accessible portions of the proposed ROW/PUE area does not contain metallic USTs. However, due to the 4 to 8 feet of fill material that is present in the southeastern portion of the site, the geophysical investigation, which had a maximum investigating depth of 8 feet, may not have detected metallic objects that lie below the fill layer.

5.0 LIMITATIONS

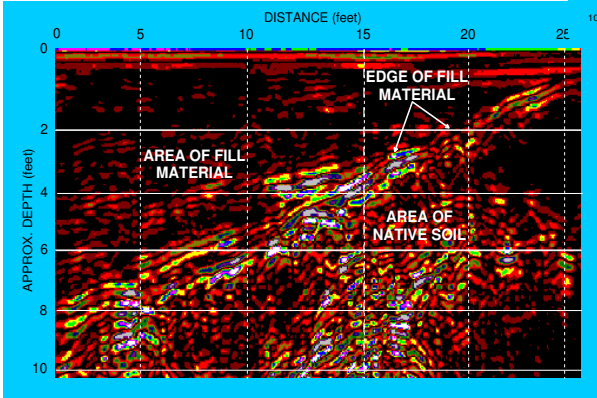
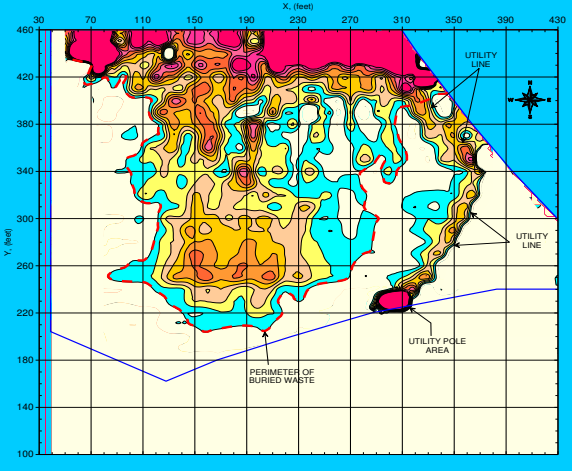
EM61 and GPR surveys have been performed and this report prepared for Terracon Consultants, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the geophysical surveys are non-unique and may not represent actual subsurface conditions. Some of the EM61 and GPR anomalies interpreted as possible/probable

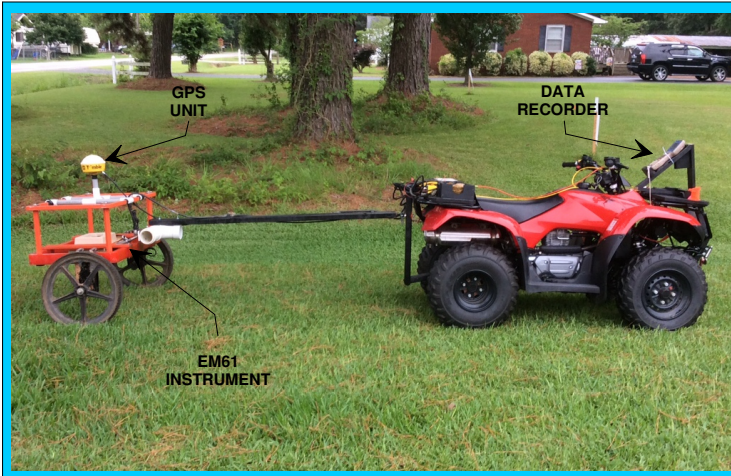
USTs, utility lines, conduits, steel reinforced concrete, or miscellaneous, metal debris may be attributed to other surface or subsurface features and/or interference from cultural features.



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





EM61 METAL DETECTOR

The photograph shows the Geonics EM61-MK2A metal detector, a Hemisphere A101 GPS unit, a Juniper data recorder, and a Honda Recon ATV which were used to conduct the metal detection survey across the Burnett property.

GROUND PENETRATING RADAR UNIT

The photograph shows the Geophysical Survey Systems SIR-3000 ground penetrating radar (GPR) unit equipped with a 400 MHz antenna that were used to conduct the GPR scanning across selected portions of the site.



DITCHWITCH UTILITY LOCATOR

The photograph shows the DitchWitch 910 utility locator which was used to detect buried lines across the proposed boring locations.

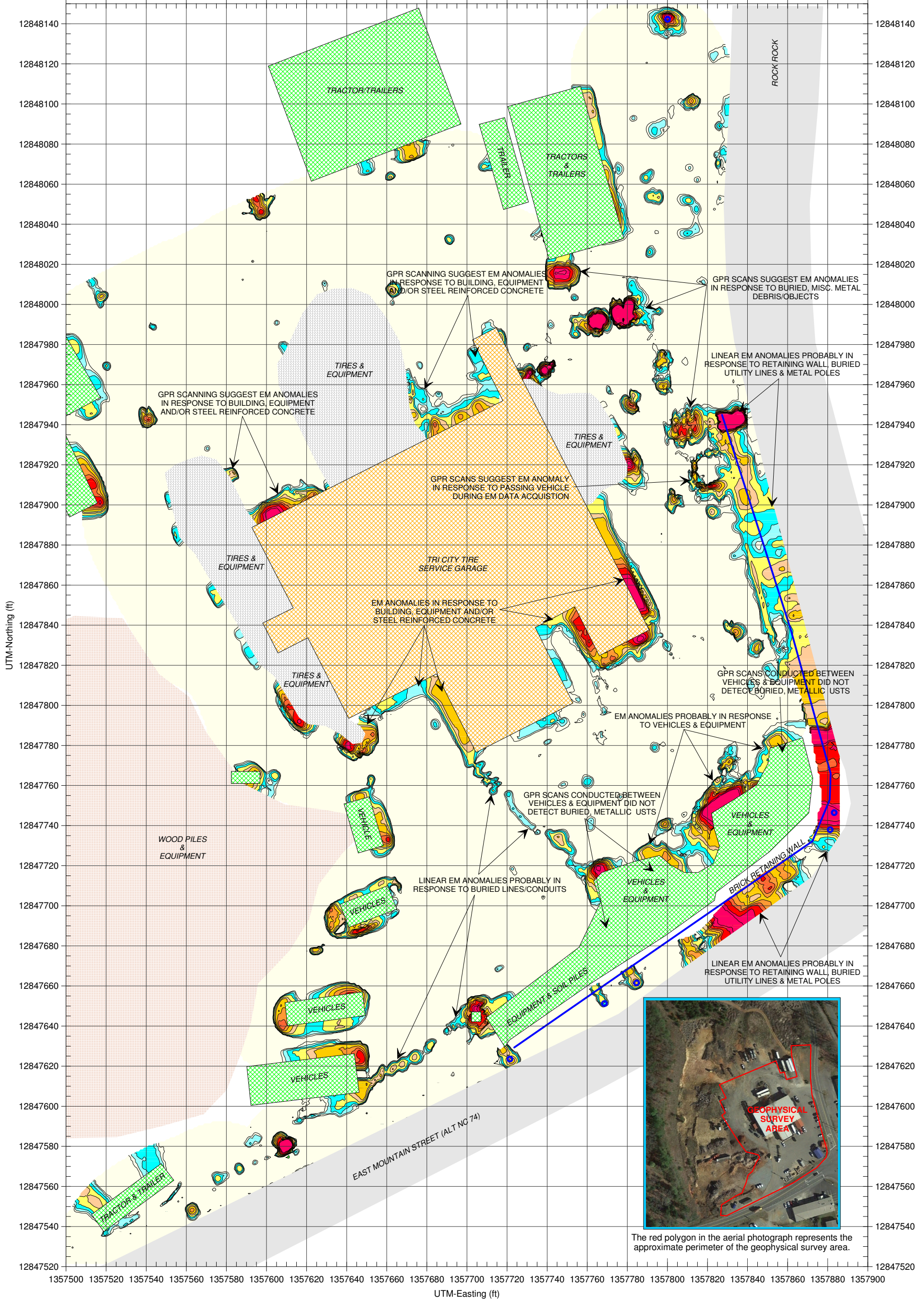


GEOPHYSICAL SURVEY AREA

The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area at the Darrill Burnett property (Parcel 115) located at the intersection of East Mountain Street and Rock Road, near Rutherfordton, North Carolina. The geophysical investigation was conducted on July 29 and August 3, 2017.

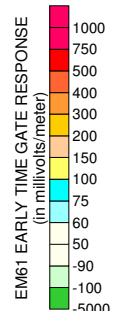


1357500 1357520 1357540 1357560 1357580 1357600 1357620 1357640 1357660 1357680 1357700 1357720 1357740 1357760 1357780 1357800 1357820 1357840 1357860 1357880 1357900



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

LEGEND	
	SURVEY AREA: EM61 ACQUIRED ALONG LINES SPACED APPROX. 5 FEET APART
	BUILDING
	TRACTORS, TRAILERS OR VEHICLES
	TIRES & MISC. EQUIPMENT
	DIRT OR WOOD PILES
	METAL SIGN POLE
	BRICK RETAINING WALL



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, lines and conduits regardless of size. GPR scans were conducted across selected EM61 anomalies and steel reinforced concrete using a Geophysical Survey Systems SIR 3000 instrument with a 400 MHz antenna. The geophysical investigation was conducted on July 29 and August 3, 2017.

GEOPHYSICAL
SURVEY INVESTIGATIONS
336-286-9718 www.geo-survey.com

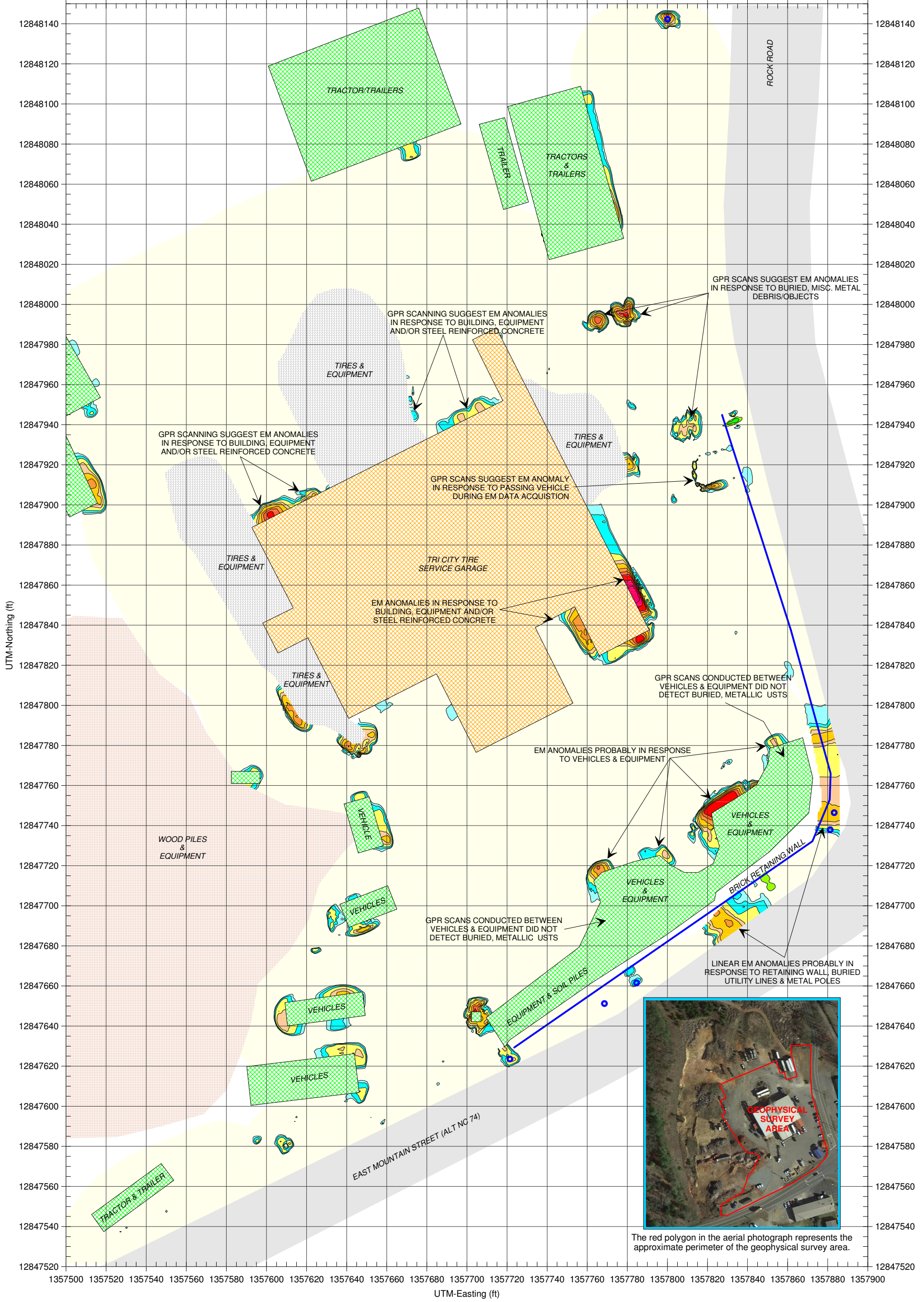
Terracon Consultants, Inc.
Darrill Burnett Property
(Parcel 115) 365 E. Mountain Street
Rutherford County, North Carolina

EM61-MK2A METAL DETECTION
(EARLY TIME GATE RESULTS)

11/27/17

FIGURE 2

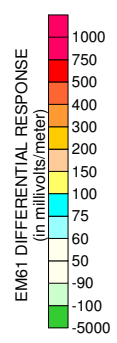
1357500 1357520 1357540 1357560 1357580 1357600 1357620 1357640 1357660 1357680 1357700 1357720 1357740 1357760 1357780 1357800 1357820 1357840 1357860 1357880 1357900



UTM-Northing (ft)

UTM-Easting (ft)

LEGEND	
	SURVEY AREA: EM61 ACQUIRED ALONG LINES SPACED APPROX. 5 FEET APART
	BUILDING
	TRACTORS, TRAILERS OR VEHICLES
	TIRES & MISC. EQUIPMENT
	DIRT OR WOOD PILES
	METAL SIGN POLE
	BRICK RETAINING WALL



Note: The contour plot shows the differential response between the early time gate and the late time gate channels 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, metal debris. Ground penetrating radar (GPR) scans were conducted across selected EM61 anomalies and areas containing reinforced concrete using a Geophysical Survey Systems SIR 3000 unit with a 400 MHz antenna. The geophysical investigation was conducted on July 29 and August 3, 2017.

GEOPHYSICAL
SURVEY INVESTIGATIONS

336-286-9718 www.geo-survey.com

Terracon Consultants, Inc.
Darrill Burnett Property
(Parcel 115) 365 E. Mountain Street
Rutherford County, North Carolina

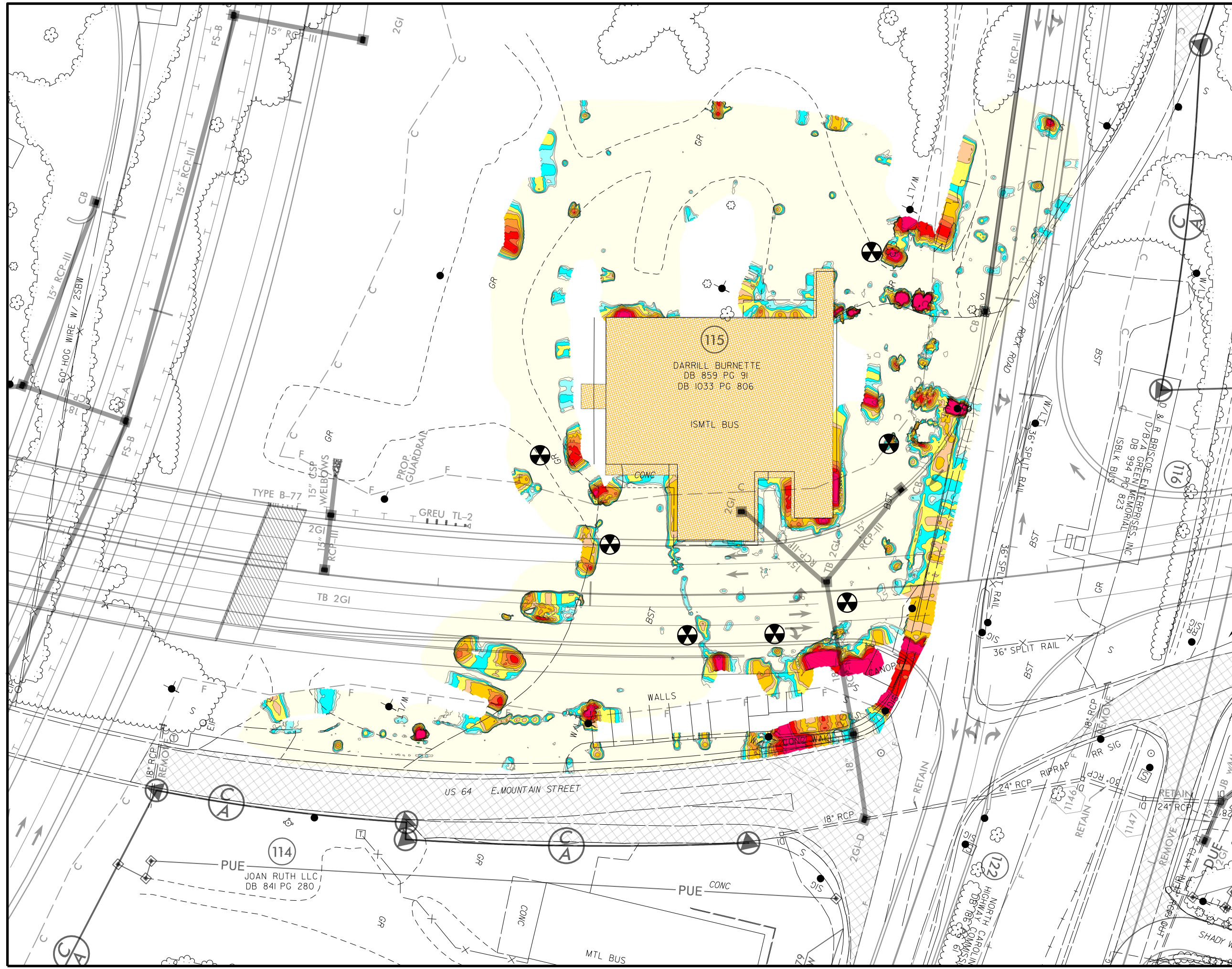
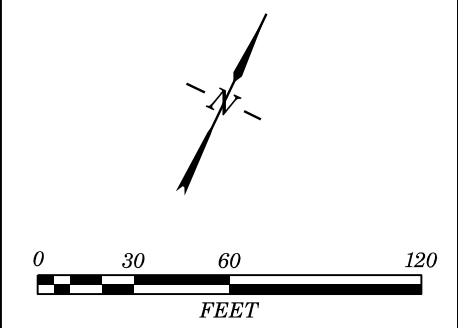
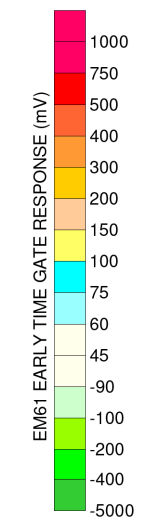
EM61-MK2A METAL DETECTION
(DIFFERENTIAL RESULTS)

11/27/17 FIGURE 3

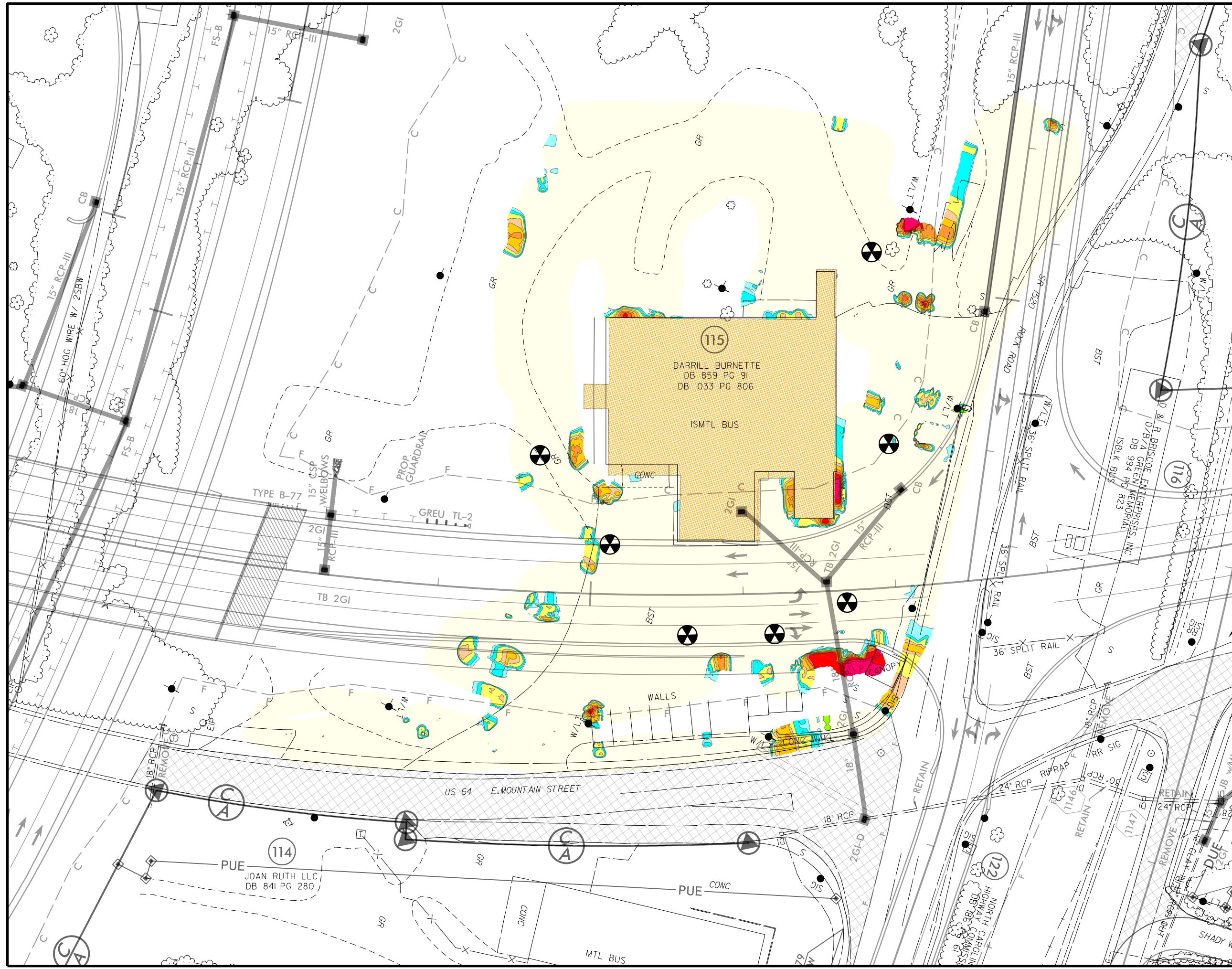
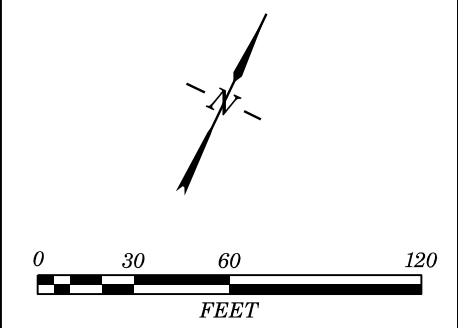
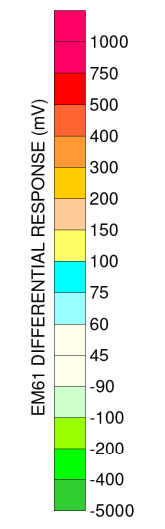


The red polygon in the aerial photograph represents the approximate perimeter of the geophysical survey area.

- LEGEND**
- PROPERTY LINE
 - EXISTING RIGHT OF WAY LINE
 - ⊙ ⊙ PROPOSED CONTROL OF ACCESS LINE WITH CONCRETE MARKER
 - - - EXISTING EDGE OF PAVEMENT
 - PROPOSED EDGE OF TRAVEL
 - F C PROPOSED CUT / FILL LINE
 - PROPOSED CATCH BASIN
 - PROPOSED DRAINAGE PIPING
 - PUE PROPOSED PERMANENT UTILITY EASEMENT
 - ⊗ BORING LOCATION



- LEGEND**
- PROPERTY LINE
 - EXISTING RIGHT OF WAY LINE
 - ⊙ PROPOSED CONTROL OF ACCESS LINE WITH CONCRETE MARKER
 - - - EXISTING EDGE OF PAVEMENT
 - PROPOSED EDGE OF TRAVEL
 - F C PROPOSED CUT / FILL LINE
 - PROPOSED CATCH BASIN
 - PROPOSED DRAINAGE PIPING
 - PUE PROPOSED PERMANENT UTILITY EASEMENT
 - ⊗ BORING LOCATION



**APPENDIX B
BORING LOGS**

SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett
PROJECT NO. 71177323

SOIL BORING I.D. B-115-1
DATE(S) DRILLED: August 14, 2017

PROJECT LOCATION: 365 East Mountain Street
Rutherfordton, North Carolina

DRILLING CONTR: Innovative Environmental Technologies
DRILL METHOD: Direct Push
BORING DIAMETER: 2 inches

CLIENT: North Carolina Department of Transportation
LOGGED BY: S. Alex Chinery

SAMPLING METHOD/INTERVAL: GP (5-Foot)
REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.6		5.0	
					5.5	
					6.0	
					6.5	red/brown sandy clay
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.2		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.2		15.0	BORING TERMINATED AT 15 FEET BGS
					15.5	
					16.0	

DRILLING METHODS
AR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE
GP - GEOPROBE
* - Sample collected for analysis
ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-2
PROJECT NO. 71177323	DATE(S) DRILLED: August 14, 2017
PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	
DRILLING CONTR: Innovative Environmental Technologies	
DRILL METHOD: Direct Push	
BORING DIAMETER: 2 inches	
CLIENT: North Carolina Department of Transportation	
SAMPLING METHOD/INTERVAL: GP (5-Foot)	
LOGGED BY: S. Alex Chinery	
REMARKS: BGS = below grade surface	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.4		5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.5		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.3		15.0	
					15.5	
					16.0	

dark brown/red silty clay

BORING TERMINATED AT 15 FEET BGS

<p>DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING HA - HAND AUGER HSA - HOLLOW STEM AUGER MD - MUD DRILLING RC - ROCK CORING WR - WATER ROTARY</p>	<p>SAMPLING METHODS SS - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE</p> <p>* - Sample collected for analysis ND = <1 ppm</p>
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SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-3
PROJECT NO. 71177323	DATE(S) DRILLED: August 14, 2017
PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	DRILLING CONTR: Innovative Environmental Technologies
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches
CLIENT: North Carolina Department of Transportation	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.2		5.0	dark red/brown silty clay
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.4		10.0	red/brown sandy clay
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.6		15.0	BORING TERMINATED AT 15 FEET BGS
					15.5	
					16.0	

<p>DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING HA - HAND AUGER HSA - HOLLOW STEM AUGER MD - MUD DRILLING RC - ROCK CORING WR - WATER ROTARY</p>	<p>SAMPLING METHODS SS - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE</p> <p>* - Sample collected for analysis ND = <1 ppm</p>
--	--



SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-4
PROJECT NO. 71177323	DATE(S) DRILLED: August 14, 2017

PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	DRILLING CONTR: Innovative Environmental Technologies
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches

CLIENT: North Carolina Department of Transportation	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.3		5.0	dark red/brown silty clay
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.3		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.4		15.0	BORING TERMINATED AT 15 FEET BGS
					15.5	
					16.0	

DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING HA - HAND AUGER HSA - HOLLOW STEM AUGER MD - MUD DRILLING RC - ROCK CORING WR - WATER ROTARY	SAMPLING METHODS SS - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-5
PROJECT NO: 71177323	DATE(S) DRILLED: August 14, 2017
PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	
CLIENT: North Carolina Department of Transportation	DRILLING CONTR: Innovative Environmental Technologies
LOGGED BY: S. Alex Chinery	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches
	SAMPLING METHOD/INTERVAL: GP (5-Foot)
	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	red/brown silty clay
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.3		5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.5		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.4		15.0	
					15.5	
					16.0	

BORING TERMINATED AT 15 FEET BGS

DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING HA - HAND AUGER HSA - HOLLOW STEM AUGER MD - MUD DRILLING RC - ROCK CORING WR - WATER ROTARY	SAMPLING METHODS SS - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-6
PROJECT NO: 71177323	DATE(S) DRILLED: August 14, 2017

PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	DRILLING CONTR: Innovative Environmental Technologies
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches

CLIENT: North Carolina Department of Transportation	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.8		5.0	light orange/brown silty clay
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.4		10.0	red/brown sandy clay
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	1.5		15.0	BORING TERMINATED AT 15 FEET BGS
					15.5	
					16.0	

DRILLING METHODS	SAMPLING METHODS
AR - AIR ROTARY	SS - SPLIT SPOON
CFA - CONTINUOUS FLIGHT AUGER	ST - SHELBY TUBE
DC - DRIVEN CASING	GP - GEOPROBE
HA - HAND AUGER	
HSA - HOLLOW STEM AUGER	
MD - MUD DRILLING	* - Sample collected for analysis
RC - ROCK CORING	ND = <1 ppm
WR - WATER ROTARY	



SOIL BORING LOG

PROJECT NAME: Parcel 115 -Darrill Burnett	SOIL BORING I.D. B-115-7
PROJECT NO. 71177323	DATE(S) DRILLED: August 14, 2017
PROJECT LOCATION: 365 East Mountain Street Rutherfordton, North Carolina	DRILLING CONTR: Innovative Environmental Technologies
	DRILL METHOD: Direct Push
	BORING DIAMETER: 2 inches
CLIENT: North Carolina Department of Transportation	SAMPLING METHOD/INTERVAL: GP (5-Foot)
LOGGED BY: S. Alex Chinery	REMARKS: BGS = below grade surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
					0.0	red/brown sandy clay
					0.5	
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
0-5.0		NA	1.8		5.0	
					5.5	
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
5.0-10.0		NA	1.6		10.0	
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
10.0-15.0		NA	0.9		15.0	
					15.5	
					16.0	

BORING TERMINATED AT 15 FEET BGS

<p>DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING HA - HAND AUGER HSA - HOLLOW STEM AUGER MD - MUD DRILLING RC - ROCK CORING WR - WATER ROTARY</p>	<p>SAMPLING METHODS SS - SPLIT SPOON ST - SHELBY TUBE GP - GEOPROBE * - Sample collected for analysis ND = <1 ppm</p>
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APPENDIX C
LABORATORY ANALYTICAL REPORT AND CHAIN OF
CUSTODY



Hydrocarbon Analysis Results

Client: TERRACON CONSULTANTS
Address: 2020 E STARITA RD
 CHARLOTTE, NC 28206

Samples taken Monday, August 14, 2017
Samples extracted Monday, August 14, 2017
Samples analysed Wednesday, August 16, 2017

Contact: ALEX CHINERY

Operator PANTESCO

Project: # 71177323

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
										C5 - C10	C10 - C18	C18	
s	B-115-1	25.0	<0.63	<0.63	<0.63	<0.63	<0.13	<0.2	<0.025	0	0	0	PHC not detected
s	B-115-2	21.0	<0.52	<0.52	0.52	0.52	0.27	<0.17	<0.021	0	78.8	21.2	Deg Fuel 74.3%,(FCM)
s	B-115-3	23.9	<0.6	<0.6	<0.6	<0.6	<0.12	<0.19	<0.024	0	93.3	6.7	Residual HC,(PFM),(OCR)
s	B-115-4	22.8	<0.57	<0.57	7.6	7.6	3.7	0.41	<0.023	0	81.6	18.4	Road Tar 77.3%,(FCM)
s	B-115-5	23.4	<0.59	<0.59	8.1	8.1	3.9	0.43	<0.023	0	84.8	15.2	Road Tar 94.7%,(FCM)
s	B-115-6	20.2	<0.5	<0.5	1	1	0.55	<0.16	<0.02	0	77.1	22.9	Deg.PHC 75.4%,(FCM),(BO)
s	B-115-7	24.1	<0.6	<0.6	<0.6	<0.6	<0.12	<0.19	<0.024	0	85.9	14.1	Residual HC
s	B-117-1	18.8	<0.47	<0.47	0.93	0.93	0.63	<0.15	<0.019	0	83.1	16.9	Deg Fuel 76.2%,(FCM),(BO)
s	B-117-2	20.3	<0.51	<0.51	0.51	0.51	0.36	<0.16	<0.02	0	72.4	27.6	V.Deg.PHC 65.8%,(FCM),(BO)
s	B-117-3	20.5	<0.51	<0.51	<0.51	<0.51	<0.1	<0.16	<0.02	0	0	0	PHC not detected,(BO),(P)

Initial Calibrator QC check **OK**

Final FCM QC Check **OK**

101.8 %

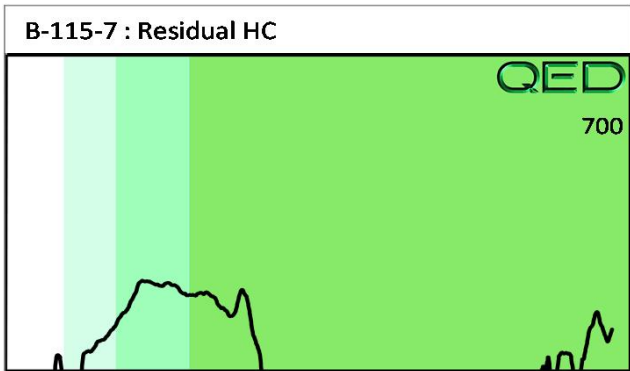
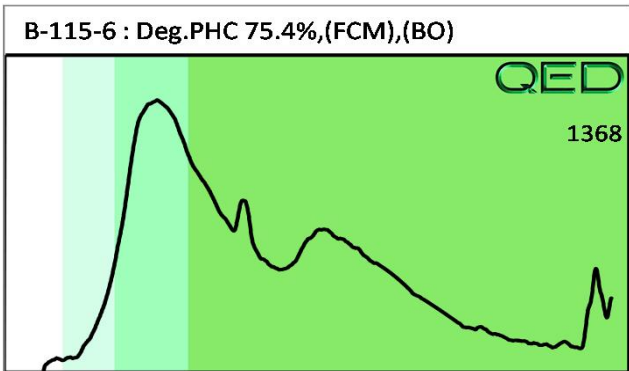
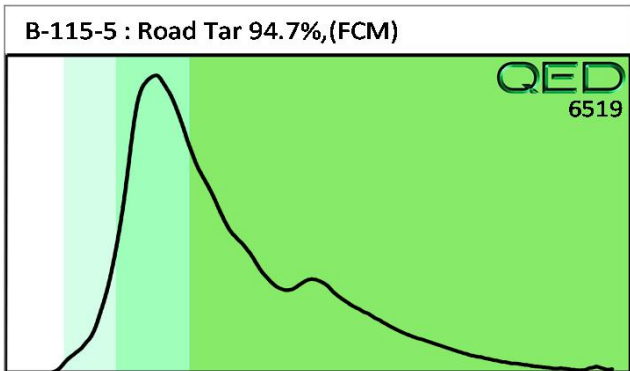
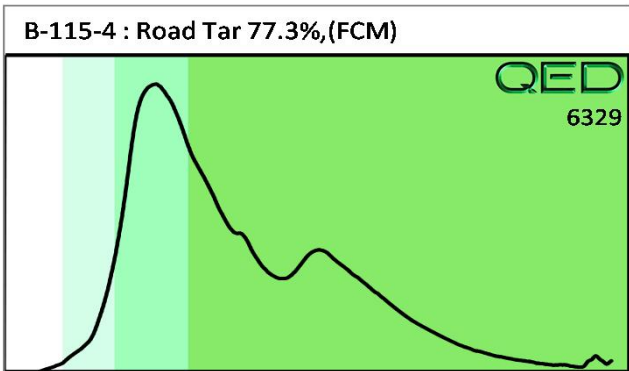
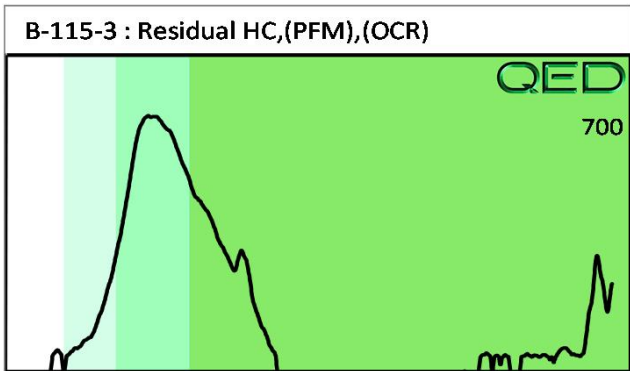
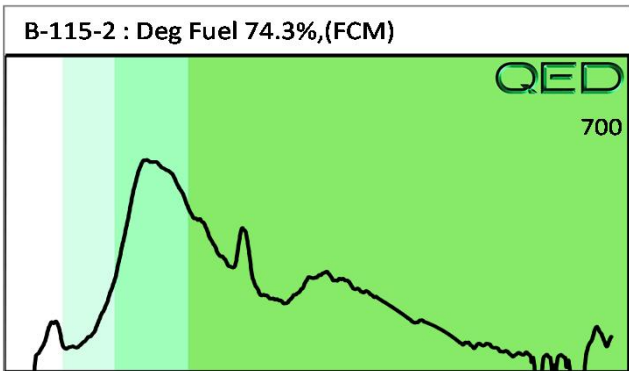
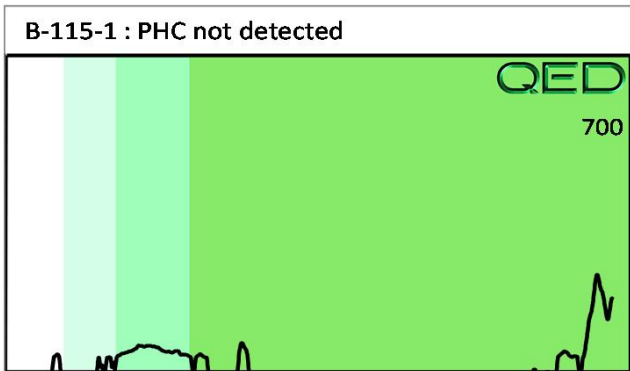
Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values uncorrected for moisture or stone content. Fingerprints provide a tentative hydrocarbon identification.

Abbreviations :- FCM = Results calculated using Fundamental Calibration Mode : % = confidence of hydrocarbon identification : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate detected

B = Blank Drift : (SBS)/(LBS) = Site Specific or Library Background Subtraction applied to result : (BO) = Background Organics detected : (OCR) = Outside cal range : (M) = Modified Result.

% Ratios estimated aromatic carbon number proportions : HC = Hydrocarbon : PHC = Petroleum HC : FP = Fingerprint only.

Data generated by HC-1 Analyser



Client Name: TERACON CONSULTANTS
 Address: 2020 E STRAITTA ROAD
 CHARLOTTE, NC 28226
 Contact: ALEX CHINERY
 Project Ref.: ~~304~~ 71177323
 Email: alex.chinery@teracon.com
 Phone #: 704-535-6072
 Collected by: ALEX CHINERY

RED LAB

RAPID ENVIRONMENTAL DIAGNOSTICS
 CHAIN OF CUSTODY AND ANALYTICAL
 REQUEST FORM

326th St
 RED Lab, LLC
 5598 Marvin K Moss Lane
 MARIIONC 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							
8/14/17; 13:05		X	S	B-115-1	X		55.3	44.9	109.164
13:09		X		B-115-2	X		56.9	44.5	12.4
13:26		X		B-115-3	X		55.1	44.3	10.9
13:22		X		B-115-4	X		56.5	45.1	11.4
13:19		X		B-115-5	X		56.2	45.1	11.1
13:39		X		B-115-6	X		57.3	44.4	12.9
13:13		X		B-115-7	X		55.3	44.5	10.8
15:10		X		B-117-1	X		59.5	44.7	13.8
15:13		X		B-117-2	X		57.4	44.6	12.8
15:05		X		B-117-3	X		56.9	44.2	12.7
15:06		X		B-118-1	X		56.0	44.1	11.9
16:19		X		B-118-2	X		56.6	44.8	11.8
16:17		X		B-118-3	X		57.9	44.8	13.1
16:15		X		B-118-4	X		56.9	44.3	12.6
16:12		X		B-118-5	X		57.3	45.1	12.2
16:22		X		B-118-6	X		56.9	45.2	11.7

Comments: Relinquished by: ALEX TERACON Date/Time: 8/14/17; Accepted by: [Signature] Date/Time: 8.16.17 130

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