

August 23, 2007

Mr. Don Moore  
North Carolina Department of Transportation  
Geotechnical Engineering Unit  
1589 Mail Service Center  
Raleigh, North Carolina 27699-1589

Reference: Preliminary Site Assessment  
Fielding Harris Property (Parcel #049)  
Roxboro, Person County, North Carolina  
NCDOT Project R-2241A  
WBS Element 34406.1.1  
Earth Tech Project No. 100407

Dear Mr. Moore:

Earth Tech of North Carolina, Inc., (Earth Tech) has completed the Preliminary Site Assessment conducted at the above-referenced property. The work was performed in accordance with the Technical and Cost proposal dated June 6, 2007, and the North Carolina Department of Transportation's (NCDOT's) Notice to Proceed dated June 6, 2007. Activities associated with the assessment consisted of conducting a geophysical investigation, collecting soil samples for laboratory analysis, and reviewing applicable North Carolina Department of Environment and Natural Resources (NCDENR) records. The purpose of this report is to document the field activities, present the laboratory analyses, and provide recommendations regarding the property.

### **Location and Description**

The Fielding Harris Property (Parcel #049) is located in Roxboro, North Carolina. The property is situated on the south side of Virgilina Road (NC 49) approximately 60 meters (200 feet) east of the intersection of Virgilina Road and Broad Road (Figure 1). Based on information supplied by the NCDOT and the site visit, Earth Tech understands that the site may have been a former gas station, although no evidence suggesting this past usage was noted except for the appearance of one of the buildings. The site consists of three single-story buildings; one is a residence, one is an antique shop, and one is used for storage. The storage building includes an overhang that appears to be a canopy for an old pump island and a plaque near the door is marked NC Service Station 15927. A gravel parking area encompasses the front of the building. Earth Tech was advised that the proposed right-of-way and easement will affect the storage building and parking area. As a result, the NCDOT requested a Preliminary Site Assessment.

Earth Tech reviewed the North Carolina Department of Environment and Natural Resources (NCDENR) Incident Management database and no incident number was assigned to the site. Earth Tech also reviewed the UST registration database, which revealed that no tanks have been registered for the property.

## **Geophysical Survey**

Prior to Earth Tech's mobilization to the site, Pyramid Environmental conducted a geophysical survey as part of this project to evaluate if USTs were present on the proposed right-of-way/easement. The geophysical survey consisted of an electromagnetic survey using a Geonics EM61 time-domain electromagnetic induction meter to locate buried metallic objects, specifically USTs. A survey grid was laid out at the property with the X-axis oriented approximately parallel to Virgilina Road and the Y-axis oriented approximately perpendicular to Virgilina Road. The grid was located to cover the accessible portions of the proposed right-of-way. The survey lines were spaced 1.5 meters (5 feet) apart. Magnetic data was collected continuously along each survey line with a data logger. After collection, the data was reviewed in the field with graphical computer software. Following the electromagnetic survey, a ground penetrating radar (GPR) survey was conducted to further evaluate any significant metallic anomalies, if necessary.

Several anomalies were detected in the geophysical survey. With the exception of two areas, these anomalies were generally attributed to buried utility lines or conduits. A significant electromagnetic anomaly was detected at the northeast corner of the storage building. Closer investigation with the GPR indicated that two USTs may be present. The potential USTs appear to be different sizes; one about 1.0 meter (3 feet) in diameter and 3.3 to 3.6 meters (11 to 12 feet) long and the other about 1.0 meter (3 feet) in diameter and 2.1 meters (7 feet) long. These dimensions suggest that the USTs are a nominal 2080 liters (550 gallons) and 1325 liters (350 gallons) in size. The survey concluded that no other metallic USTs were present on the proposed right-of-way or easement. A detailed report of findings and interpretations is presented in Attachment A.

## **Site Assessment Activities**

On July 10, 2007, Earth Tech mobilized to the site to conduct a Geoprobe<sup>®</sup> direct push investigation to evaluate soil conditions within the proposed right-of-way and easement. Continuous sampling using direct push technology (Regional Probing of Wake Forest, North Carolina) resulted in generally good recovery of soil samples from the direct-push holes. Soil samples were collected and contained in 1.2-meter (4-foot) long acetate sleeves inside the direct push sampler. Each of these sleeves was divided in half for soil sample screening. Each 0.6-meter (2-foot) interval was placed in a resealable plastic bag and the bag was set aside for a sufficient amount of time to allow volatilization of organic compounds from the soil to the bag headspace. The probe of a flame ionization detector/photo ionization detector (FID/PID) was inserted into the bag and the reading was recorded. After terminating the sample hole, the soil sample from the depth interval with the highest FID/PID reading was submitted to Prism Laboratories, Inc., in Charlotte, North Carolina, using standard chain-of-custody procedures. The laboratory analyzed the soil samples for total

petroleum hydrocarbons (TPH) in the diesel range organics (DRO) and gasoline range organics (GRO).

Eight direct-push holes (HS-1 through HS-8) were advanced within the proposed right-of-way to a depth of 3.6 meters (12 feet) as shown in Figure 2 and Attachment B. The borings were located to evaluate the area adjacent to the geophysical anomaly and within the proposed right-of-way/easement (Attachment C). Borings HS-1 through HS-4 were located to evaluate the soil conditions surrounding the geophysical anomaly and borings HS-5 through HS-8 were placed to assess the horizontal and vertical extent of potential contamination. The lithology encountered by the direct-push samples generally was consistent throughout the site. The ground surface was covered with about 20 centimeters (8 inches) of gravel or topsoil. Below the surface treatment to a depth of about 0.6 to 1.2 meters (2 to 4 feet) was a medium to reddish brown silt. Below this unit was a mottled medium brown, reddish brown, and yellow silt/clay. All the borings were terminated at a depth of 3.6 meters (12 feet). No groundwater was encountered in any of the borings. Based on field screening, soil samples were submitted for laboratory analysis, which are summarized in Table 1.

### **Analytical Results**

Based on the laboratory reports, summarized in Table 1 and presented in Attachment D, petroleum hydrocarbon compounds identified as DRO and/or GRO were detected in two of the eight soil samples collected from the site (Figure 3). According to the North Carolina Underground Storage Tank Section's Underground Storage Tank Closure Policy dated August 24, 1998, the action level for TPH analyses is 10 milligrams per kilogram (mg/kg) for both gasoline and diesel fuel. However, that agency's "Guidelines for Assessment and Corrective Action," dated April 2001, does not allow for use of TPH analyses for confirmation of the extent of petroleum contamination or its cleanup. As a result, while TPH concentrations are no longer applicable in determining if soil contamination is present, this analysis is a legitimate screening tool. Based on the TPH action level for UST closures, the assumed action level for this report is 10 mg/kg. Soil samples collected from borings HS-4 (450 mg/kg) and HS-6 (48 mg/kg) contained a DRO concentration above the 10 mg/kg assumed action level. The soil sample collected from boring HS-4 (56 mg/kg) contained a GRO concentration above the assumed action level.

### **Conclusions and Recommendations**

A Preliminary Site Assessment was conducted to evaluate the Fielding Harris Property (Parcel #049) located near the intersection of Virgilina Road and Broad Road in Roxboro, Person County, North Carolina. Eight soil borings were advanced to evaluate the soil conditions with respect to the geophysical anomaly/potential USTs and within the proposed right-of-way/easement. The laboratory reports of the soil samples from these borings suggest that DRO and/or GRO concentrations were present above the assumed action level in two of the eight soil samples analyzed.

To evaluate the volume of soil requiring possible remediation, the soil samples with TPH concentrations above 10 mg/kg were considered. The analytical results of the soil samples suggest

that the soil from borings HS-4 and HS-6 contained TPH concentrations identified as DRO and/or GRO above the assumed action level. Boring HS-4 is located near the potential USTs and boring HS-6 is to evaluate the horizontal extent of potential contamination. A review of the field screening readings (Table 1) and Figure 3 suggests that the thickness of the potentially contaminated soil is about 1.8 meters (6 feet). In order to calculate the volume of potentially contaminated soil, a planimeter was used to obtain the surface area affected as shown on Figure 3 in square meters. This measurement was then multiplied by the potential contaminant thickness for a total volumetric calculation. Based on the planimetric measurements (151 square meters for the two areas) and contaminated soil thickness, Earth Tech estimates a total contaminated soil volume for the site to be approximately 60 cubic meters (77 cubic yards). However, this volume includes the potentially contaminated soil on both the Harris property and the existing right-of-way. The volume of potentially contaminated soil on the Harris Property only is estimated to be approximately 35 cubic meters (45 cubic yards). The volume of potentially affected soil was estimated based on the 10 mg/kg isoconcentration contour shown on Figure 3 and the planimetric measurements within that boundary. This volume is estimated from TPH analytical data, which are no longer valid for remediation of sites reported after January 2, 1998. After this date, MADEP EPH/VPH and EPA Method 8260/8270 analyses will likely be required to confirm cleanup. However, these analyses do not correlate exactly with TPH data and, as a result, the actual volume of contaminated soil may be higher or lower.

Earth Tech appreciates the opportunity to work with the NCDOT on this project. Because compounds were detected above the applicable action levels in the soil samples, Earth Tech recommends that a copy of this report be submitted to the Division of Waste Management, UST Section, in the Raleigh Regional Office. If you have any questions, please contact me at (919)854-6238.

Sincerely,



Michael W. Branson, P.G.  
Project Manager



Attachments

c: Project File

**TABLE 1**  
**SOIL FIELD SCREENING AND ANALYTICAL RESULTS**  
**FIELDING HARRIS PROPERTY (PARCEL #49)**  
**ROXBORO, PERSON COUNTY, NORTH CAROLINA**  
**NCDOT PROJECT NO. R-2241A**  
**WBS ELEMENT 34406.1.1**  
**EARTH TECH PROJECT NO. 100407**

LOCATION	DEPTH (m)	FID READING (ppm)	SAMPLE ID	ANALYTICAL RESULTS (mg/kg)	ASSUMED ACTION LEVEL (mg/kg)
HS-1	0 - 0.6	0.21			
	0.6 - 1.2	0.17			
	1.2 - 1.8	0			
	1.8 - 2.4	0			
	2.4 - 3.0	1.2			
	3.0 - 3.6	3.92	HS-1	DRO (BQL) GRO (BQL)	10 10
HS-2	0 - 0.6	0.03			
	0.6 - 1.2	0.08			
	1.2 - 1.8	0.21			
	1.8 - 2.4	0.88			
	2.4 - 3.0	7.76			
	3.0 - 3.6	34	HS-2	DRO (BQL) GRO (BQL)	10 10
HS-3	0 - 0.6	0.02			
	0.6 - 1.2	0.08			
	1.2 - 1.8	0.25			
	1.8 - 2.4	0.74			
	2.4 - 3.0	1.05			
	3.0 - 3.6	2.07	HS-3	DRO (BQL) GRO (BQL)	10 10
HS-4	0 - 0.6	0.07			
	0.6 - 1.2	3.06			
	1.2 - 1.8	38			
	1.8 - 2.4	87			
	2.4 - 3.0	380			
	3.0 - 3.6	665	HS-4	<b>DRO (450)</b> <b>GRO (56)</b>	10 10
HS-5	0 - 0.6	0.21			
	0.6 - 1.2	0.19			
	1.2 - 1.8	0.46			
	1.8 - 2.4	0.68	HS-5	DRO (BQL) GRO (BQL)	10 10
	2.4 - 3.0	0.24			
	3.0 - 3.6	0.03			
HS-6	0 - 0.6	0.07			
	0.6 - 1.2	1.28			
	1.2 - 1.8	32			
	1.8 - 2.4	52			
	2.4 - 3.0	62			
	3.0 - 3.6	64	HS-6	<b>DRO (48)</b> GRO (BQL)	10 10
HS-7	0 - 0.6	0.42			
	0.6 - 1.2	0.06			
	1.2 - 1.8	0.21			
	1.8 - 2.4	0.44			
	2.4 - 3.0	0.52			
	3.0 - 3.6	0.81	HS-7	DRO (BQL) GRO (BQL)	10 10
HS-8	0 - 0.6	0.01			
	0.6 - 1.2	0.01			
	1.2 - 1.8	0.42			
	1.8 - 2.4	2.36			
	2.4 - 3.0	2.04			
	3.0 - 3.6	2.85	HS-8	DRO (BQL) GRO (BQL)	10 10

Soil samples were collected on July 10, 2007.

DRO - Diesel range organics.

GRO - Gasoline range organics.

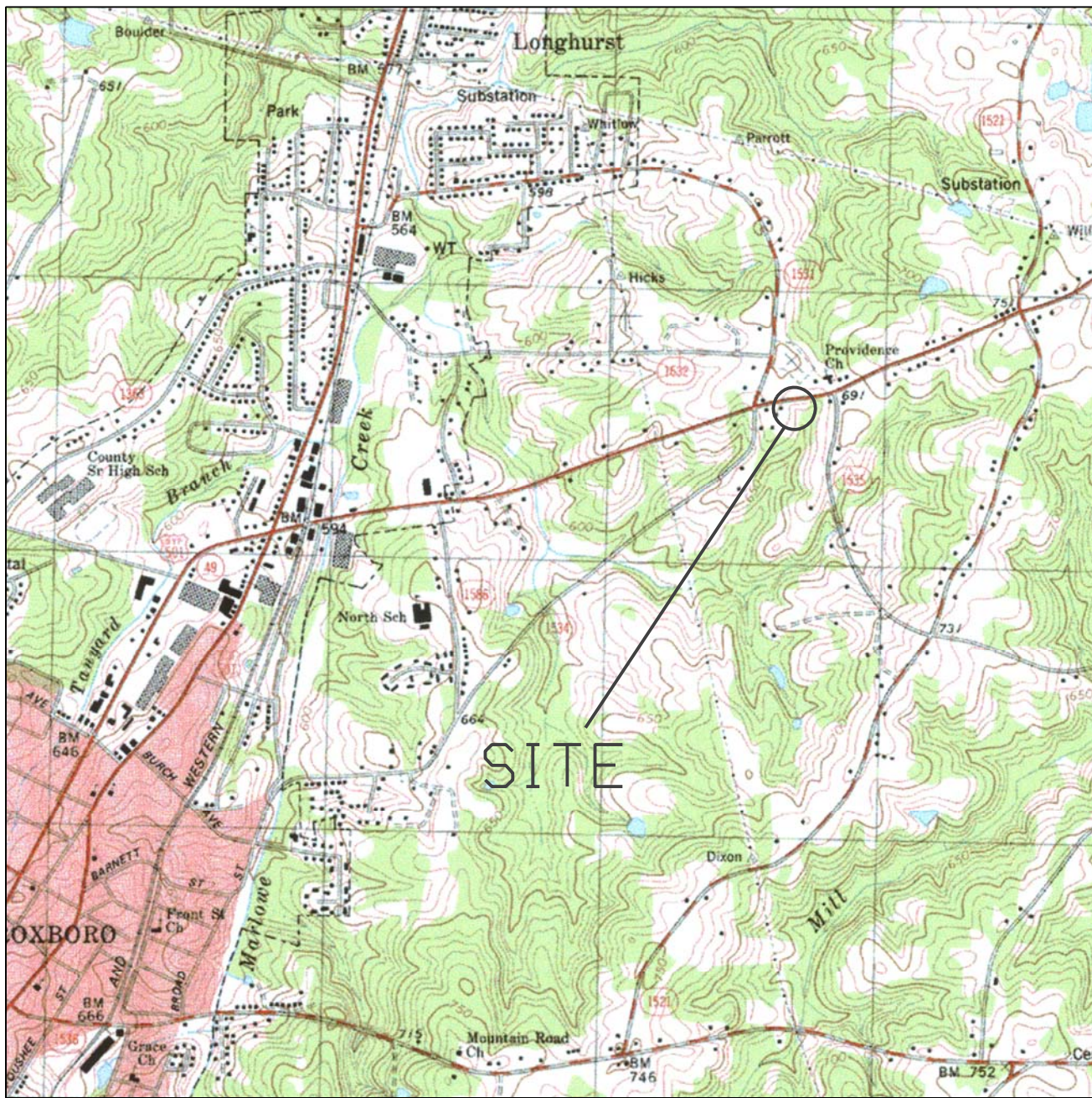
BQL - Below quantitation limit.

ppm - parts per million.

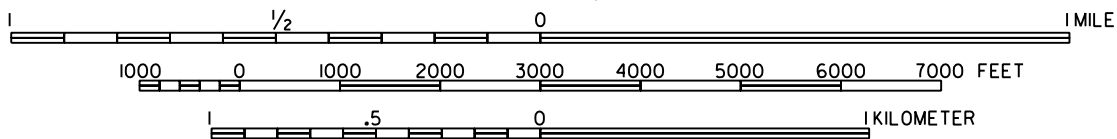
mg/kg - milligrams per kilogram.

**BOLD** values are above the assumed action level.

## **FIGURES**



SCALE 1:24,000



SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: ROXBORO, NC (1982)

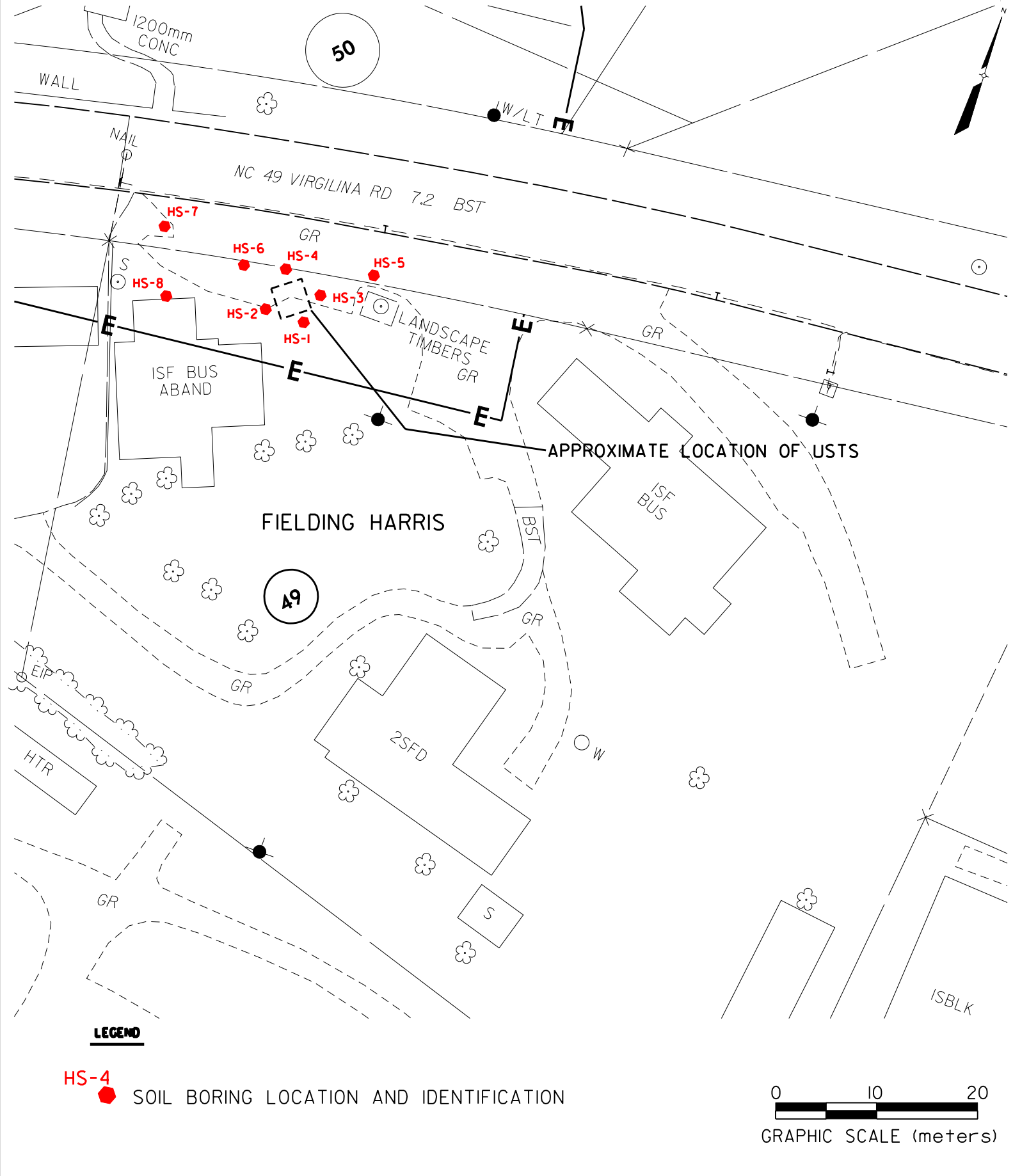


### FIGURE I VICINITY MAP

FIELDING HARRIS PROPERTY (PARCEL #049)  
ROXBORO, PERSON COUNTY, NORTH CAROLINA

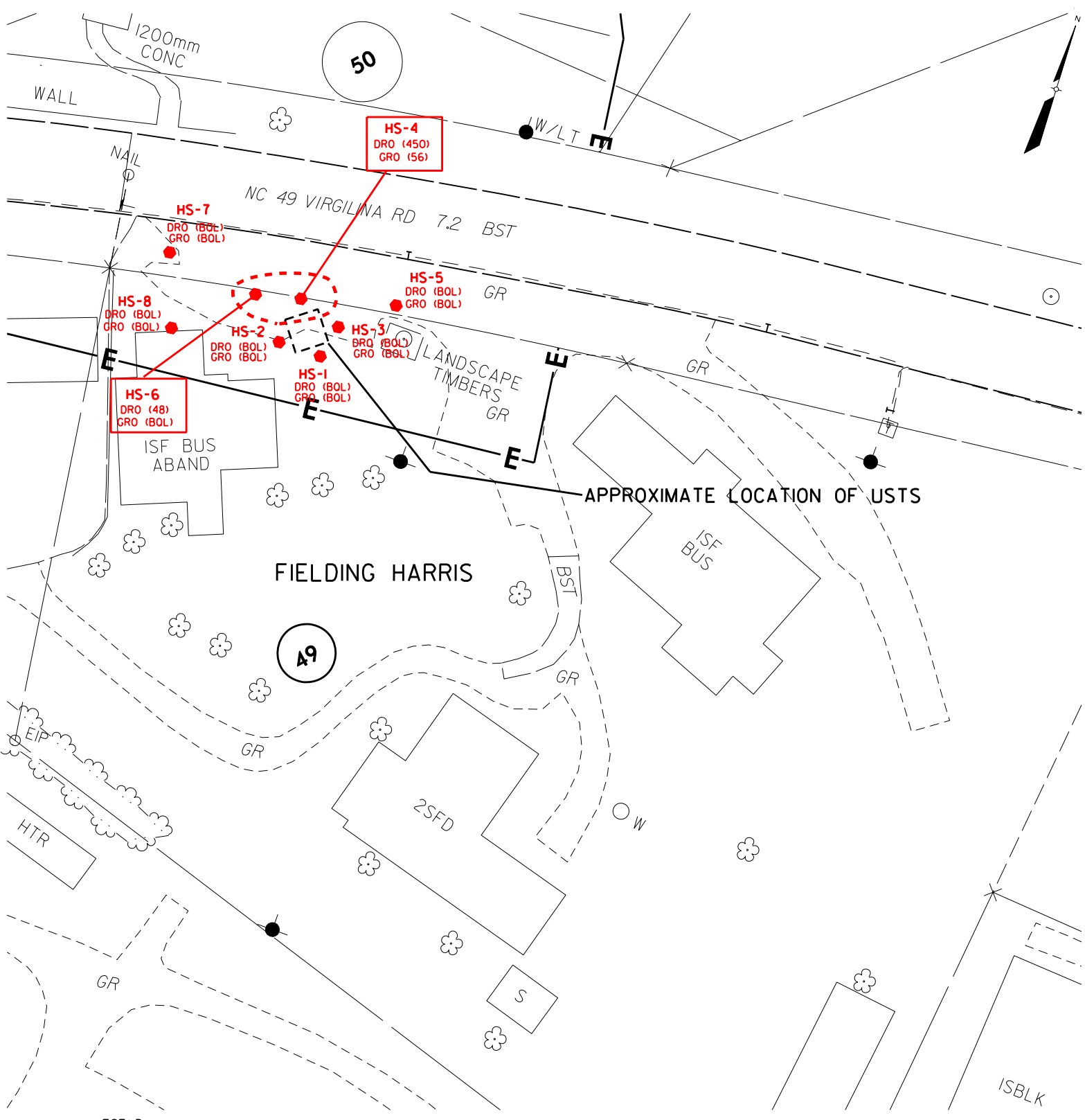
JULY 2007

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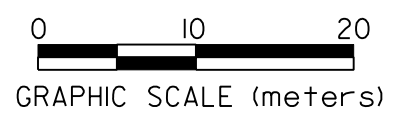
**FIGURE 2**  
**SITE MAP**  
 FIELDING HARRIS PROPERTY (PARCEL #049)  
 ROXBORO, PERSON COUNTY, NORTH CAROLINA





**LEGEND**

- SOIL SAMPLE LOCATION
- - - TPH ISOCONCENTRATION CONTOUR
- DRO (123) TPH AS DIESEL FUEL IN MG/KG
- GRO (123) TPH AS GASOLINE IN MG/KG
- BOL BELOW QUANTITATION LIMIT



**FIGURE 3**  
**ANALYTICAL RESULTS MAP**  
 FIELDING HARRIS PROPERTY (PARCEL #049)  
 ROXBORO, PERSON COUNTY, NORTH CAROLINA

JULY 2007

100407

**ATTACHMENT A**

**GEOPHYSICAL INVESTIGATION REPORT**

*EM61 & GPR SURVEYS*

**FIELDING HARRIS PROPERTY (PARCEL 49)  
Roxboro, North Carolina**

**July 16, 2007**

**Report prepared for: Michael Branson  
Earth Tech, Inc.  
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Raleigh, North Carolina 27607**

**Prepared by: \_\_\_\_\_  
Mark J. Denil, PG**

**Reviewed by: \_\_\_\_\_  
Douglas Canavello, PG**

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(336) 335-3174**

**Earth Tech of North Carolina, Inc.**  
**GEOPHYSICAL INVESTIGATION REPORT**  
**FIELDING HARRIS PROPERTY (PARCEL 49)**  
**Roxboro, North Carolina**

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## **1.0 INTRODUCTION**

Pyramid Environmental conducted geophysical investigations for Earth Tech of North Carolina, Inc. within the proposed Right-of-Way (ROW) area at the Fielding Harris property (Parcel 49) located along the south side of NC 49 (Virginia Road) near Roxboro, North Carolina. The site consists of a residential property with several buildings surrounded by grass/gravel-covered yards. The geophysical investigation was conducted during the period of June 21-27, 2007 to determine if unknown, metallic, underground storage tanks (USTs) were present beneath the proposed ROW area of the property. The work was done as part of the North Carolina Department of Transportation (NCDOT) road-widening project.

Earth Tech's representative Mr. Michael Branson, PG, provided site maps that outlined the geophysical survey area (ROW area) of the site and visited the site with a Pyramid Environmental representative prior to conducting the investigation. Photographs of the Fielding Harris property (Parcel 49) and the geophysical equipment used at this site are shown in **Figure 1**.

## **2.0 FIELD METHODOLOGY**

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the proposed ROW area of Parcel 49 using water-based marking paint and pin flags. These marks were used as X-Y coordinates for location control when collecting the geophysical data and establishing base maps for the geophysical results.

The geophysical investigation consisted of electromagnetic (EM) induction-metal detection surveys and ground penetrating radar (GPR) surveys. The EM surveys were performed on June 21, 2007, using a Geonics EM61-MK1 metal detection instrument. According to the instrument specifications, the EM61 can detect a metal drum down to a maximum depth of approximately 8 feet. The EM61 data were digitally collected along easterly-westerly parallel survey lines spaced five feet apart. The data were downloaded to a computer and reviewed in the office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

Contour plots of the EM61 bottom coil results and the EM61 differential results for Parcel 49 are presented in **Figures 2 and 3**, respectively. The bottom coil results represent the most sensitive component of the EM61 instrument and detect metal objects regardless of size. The bottom coil response can be used to delineate metal conduits or utility lines, small, isolated metal objects, and areas containing insignificant metal debris.

The differential results are obtained from the difference between the top and bottom coils of the EM61 instrument. The differential results focus on the larger metal objects such as drums and USTs and ignore the smaller insignificant metal objects.

GPR surveys were conducted on June 27, 2007 across selected EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. GPR data were digitally collected in a continuous mode along X and/or Y survey lines, spaced two to five feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. An 80 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. GPR data were collected down to a maximum depth of approximately five feet, based on an estimated two-way travel time of 9 nanoseconds per foot. The GPR data were downloaded to a field computer and later reviewed in the field and office using Radprint software. The locations of the GPR lines acquired at Parcel 49 are shown as solid purple lines in Figure 3.

Preliminary contour plots of the EM61 bottom coil and the differential results for the site were emailed to Mr. Branson during the week of July 2, 2007.

### **3.0 DISCUSSION OF RESULTS**

The majority of the EM61 bottom coil anomalies recorded at Parcel 49 are probably in response to known cultural features such as vehicles, buildings, metal poles, buried miscellaneous debris, etc. GPR data suggest the high amplitude EM61 anomaly centered near grid coordinates X=286 Y=95 is probably in response to two metallic USTs buried approximately 1.6 feet below surface. The GPR results suggest the western probable UST is approximately 7 feet long and 3 feet wide. The eastern

probable UST is approximately 11 to 12 feet long and 3 feet wide. Images of GPR survey line Y=95, which crosses the probable USTs, and a photograph showing the location of the probable USTs are presented in **Figure 4**.

GPR data suggest that the remaining EM61 anomalies are probably in response to known cultural features or to buried miscellaneous debris.

#### **4.0 SUMMARY & CONCLUSIONS**

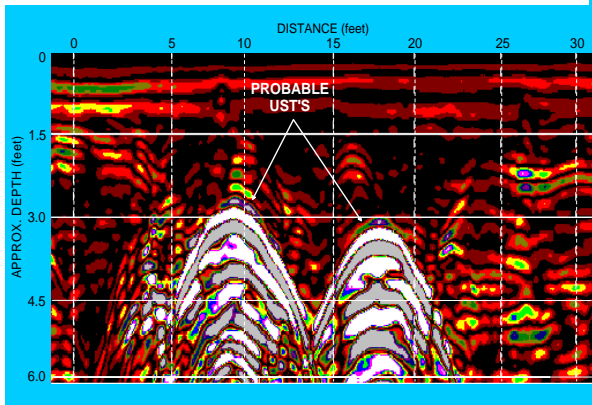
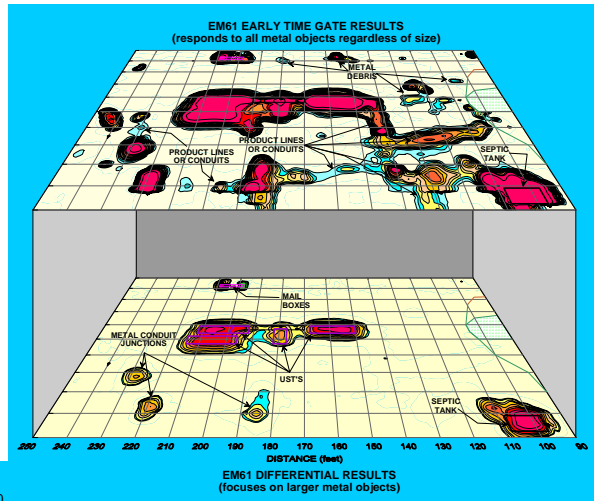
Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the Fielding Harris property (Parcel 49) located near Roxboro, North Carolina, provides the following summary and conclusions:

- The EM61 and GPR surveys provided reliable results for the detection of metallic USTs within the surveyed portions of the proposed ROW area of the site.
- The majority of the EM61 bottom coil anomalies recorded at Parcel 49 are probably in response to known cultural features such as vehicles, buildings, metal poles, buried miscellaneous debris, etc.
- GPR data suggest the high amplitude EM61 anomaly centered near grid coordinates X=286 Y=95 is probably in response to two metallic USTs buried approximately 1.6 feet below surface. Based on GPR information, the western probable UST is approximately 7 feet long and 3 feet wide. The eastern probable UST is approximately 11 to 12 feet long and 3 feet wide.

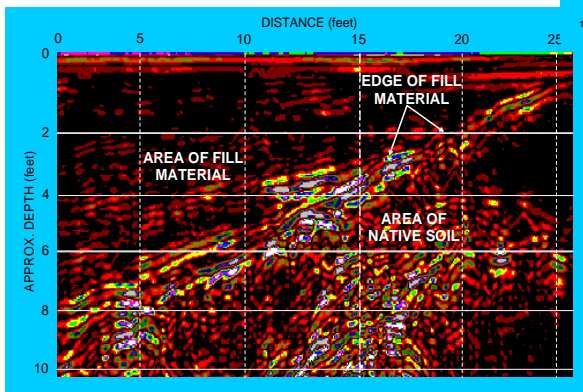
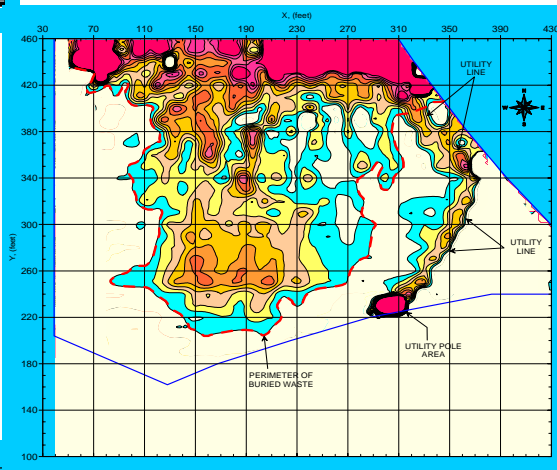
## **5.0 LIMITATIONS**

EM61 and GPR surveys have been performed and this report prepared for Earth Tech of North Carolina, Inc. in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project do not conclusively determine that all of the metallic USTs were detected but suggest the presence of two probable USTs lie within the proposed ROW of the site.





**FIGURES**  
(on the following pages)



The photo shows the Geonics EM61 metal detector that was used to conduct the metal detection survey at Parcel 49 on June 21, 2007.



The photos show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 49 on June 27, 2007.



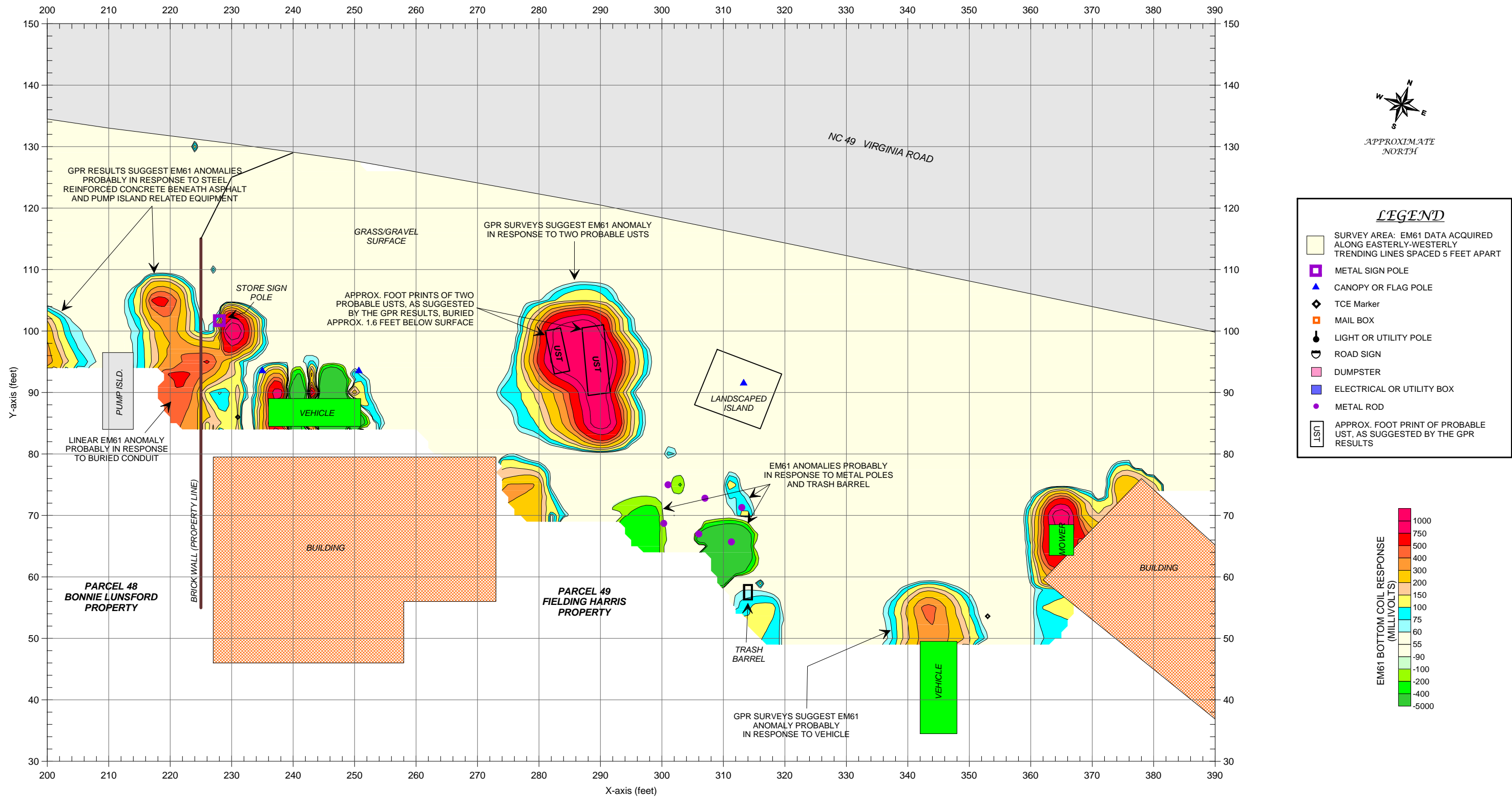
The photograph shows a portion of the geophysical survey area located at Parcel 49. The photo is viewed in a southeasterly direction.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/13/07	BY	MJD
SITE	FIELDING HARRIS PROPERTY - PARCEL 49		LAY		OPND	
CITY	ROXBORO	STATE	NORTH CAROLINA	ENG		
TITLE	GEOPHYSICAL RESULTS		PLNG	2007-163	PROJ#	

PHOTOGRAPHS OF  
GEOPHYSICAL EQUIPMENT  
& SURVEY AREA

FIGURE 1



Note: The contour plot shows the bottom coil (most sensitive) response of the EM61 instrument in millivolts (mV). The bottom coil response shows buried metallic objects regardless of size. The EM metal detection data were collected on June 21, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 27, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical results suggest the presence of two probable USTs within the proposed ROW area.

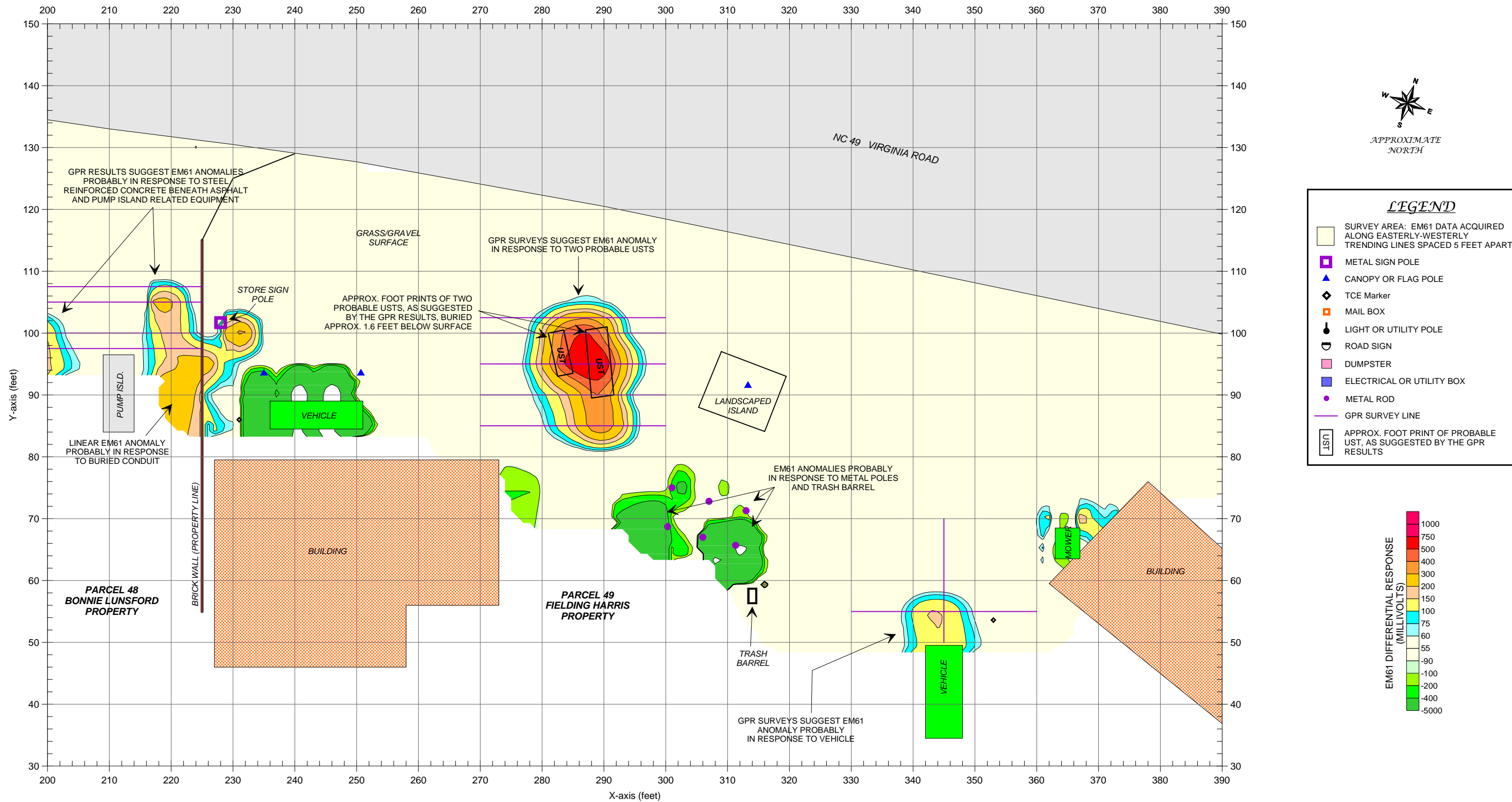


CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/12/07	DRWN	MJD
SITE	FIELDING HARRIS PROPERTY - PARCEL 49		LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		DATE	2007-163	FIGURE	

GRAPHIC SCALE IN METERS

### EM61 BOTTOM COIL RESULTS

FIGURE 2



Note: The contour plot shows the differential response between the bottom and top coils of the EM61 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 data were collected on June 21, 2007 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on June 27, 2007 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

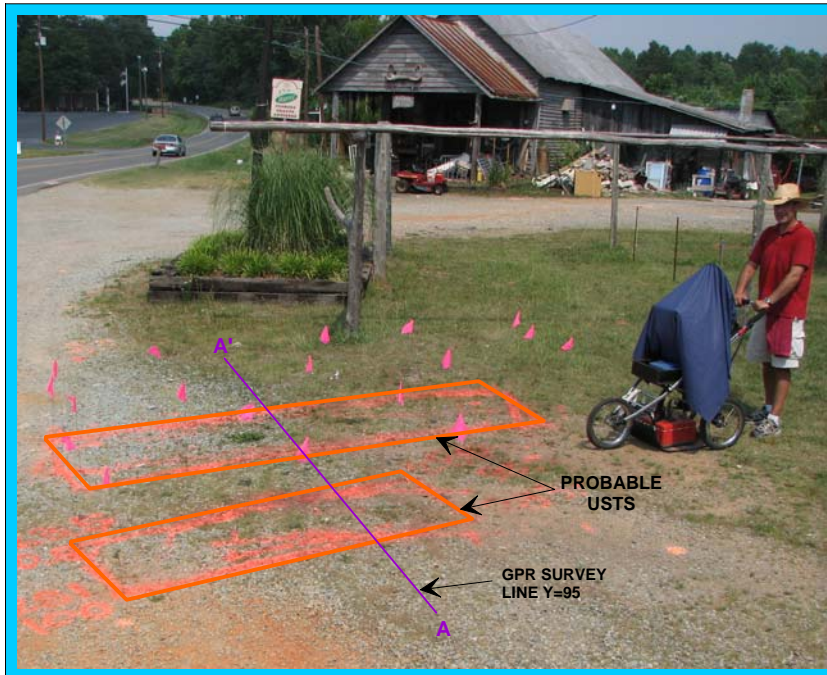
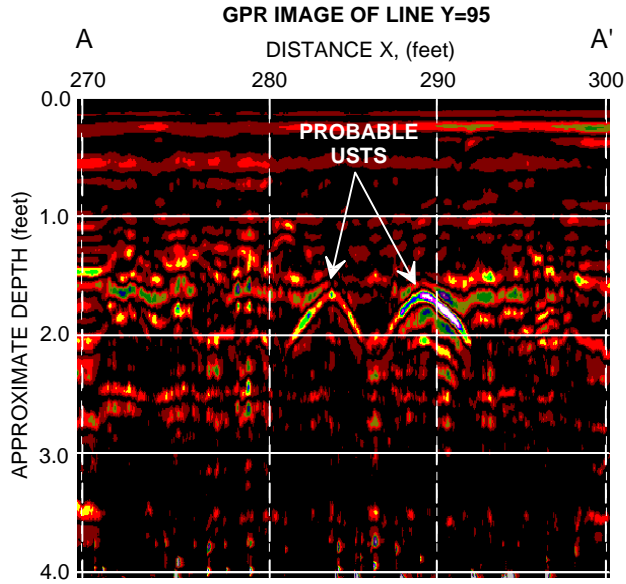
The geophysical results suggest the presence of two probable USTs within the proposed ROW area.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/12/07	DRWN	MJD
SITE	FIELDING HARRIS PROPERTY - PARCEL 49		LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG		
TITLE	GEOPHYSICAL RESULTS		JNO	2007-163	FIGURE	

EM61 DIFFERENTIAL RESULTS

FIGURE 3



The GPR image obtained along a portion of survey line Y=95 shows two hyperbolic anomalies centered near lines X=84 and X=89 that are probably in response to metallic USTs buried approximately 1.6 feet below surface. Based on the GPR data, the first probable UST is approximately 7 feet long and 3 feet wide and the other is 11 feet long and 3 feet wide. The location of the probable USTs and GPR survey line Y=95 are shown in the above photograph. The photograph is veiwed in an easterly direction.

**ATTACHMENT B**

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-1  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.21		MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			0.17		AS ABOVE, DRY, NO ODOR.
			0.21		AS ABOVE, DRY, NO ODOR.
10.0			0.30		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			1.20		AS ABOVE, DRY, NO ODOR.
			3.92		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0					
20.0					

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-2  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.03		MEDIUM TO REDDISH BROWN SILT/CLAY, DRY, NO ODOR.
			0.08		AS ABOVE, DRY, NO ODOR.
			0.21		AS ABOVE, DRY, NO ODOR.
10.0			0.88		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			7.76		AS ABOVE, DRY, NO ODOR.
			34		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
20.0					



# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-3  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.02		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			0.08		AS ABOVE, DRY, NO ODOR.
			0.25		AS ABOVE, DRY, NO ODOR.
			0.74		AS ABOVE, DRY, NO ODOR.
10.0			1.05		AS ABOVE, DRY, NO ODOR.
			2.07		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0					
20.0					

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-4  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			0.07		MEDIUM BROWN SILT/CLAY, DRY, NO ODOR.	
				3.06		AS ABOVE, DRY, NO ODOR.
				38		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
				87		AS ABOVE, DRY, NO ODOR.
				380		AS ABOVE, DRY, SLIGHT ODOR.
10.0						
				665		AS ABOVE, DRY, SLIGHT ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0						
20.0						

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-5  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.21		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			0.19		AS ABOVE, DRY, NO ODOR.
			0.46		AS ABOVE, DRY, NO ODOR.
			0.68		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
10.0			0.24		AS ABOVE, DRY, NO ODOR.
			0.03		AS ABOVE, DRY, NO ODOR.
15.0					
20.0					

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-6  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			0.07		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.	
				1.28		AS ABOVE, DRY, NO ODOR.
				32		AS ABOVE, DRY, NO ODOR.
				52		AS ABOVE, DRY, NO ODOR.
				62		AS ABOVE, DRY, NO ODOR.
10.0						
				64		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0						
20.0						

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-7  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.42		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			0.06		AS ABOVE, DRY, NO ODOR.
			0.21		AS ABOVE, DRY, NO ODOR.
10.0			0.44		AS ABOVE, DRY, NO ODOR.
			0.52		AS ABOVE, DRY, NO ODOR.
			0.81		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
20.0					

# TEST BORING REPORT

**PROJECT** HARRIS PROPERTY (PARCEL 49)  
**CLIENT** NCDOT (R-2241A)  
**PROJECT NUMBER** 100407 (34406.1.1)  
**CONTRACTOR** REGIONAL PROBING  
**EQUIPMENT** GEOPROBE

**BORING NUMBER** HS-8  
**PAGE** 1  
**ELEVATION** \_\_\_\_\_  
**DATE** JULY 10, 2007  
**DRILLER** OPPER  
**PREPARED BY** BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.01		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			0.01		AS ABOVE, DRY, NO ODOR.
			0.42		AS ABOVE, DRY, NO ODOR.
10.0			2.36		AS ABOVE, DRY, NO ODOR.
			2.04		AS ABOVE, DRY, NO ODOR.
			2.85		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
15.0					
20.0					

**ATTACHMENT C**

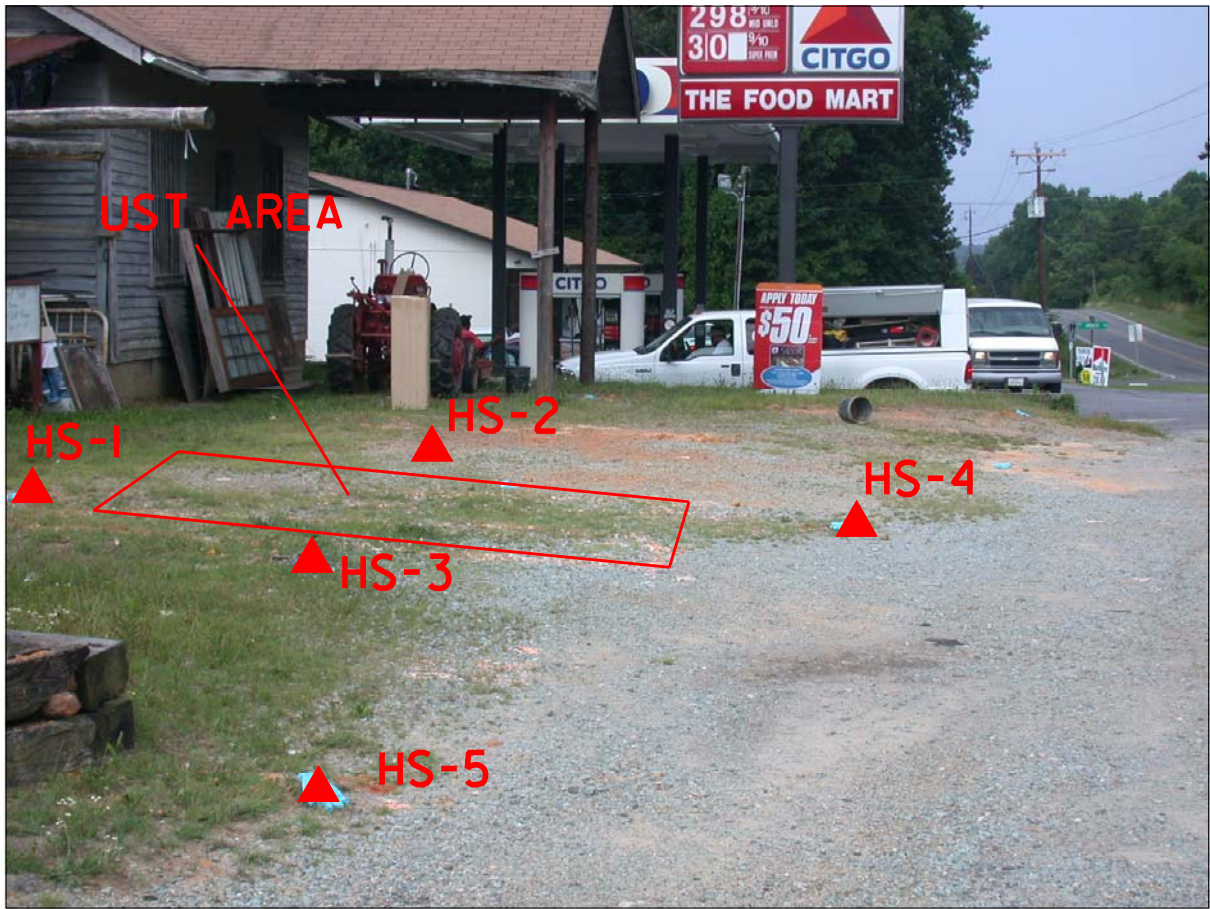


PHOTO 1 - BORINGS AT HARRIS PROPERTY LOOKING WEST FROM PARKING LOT

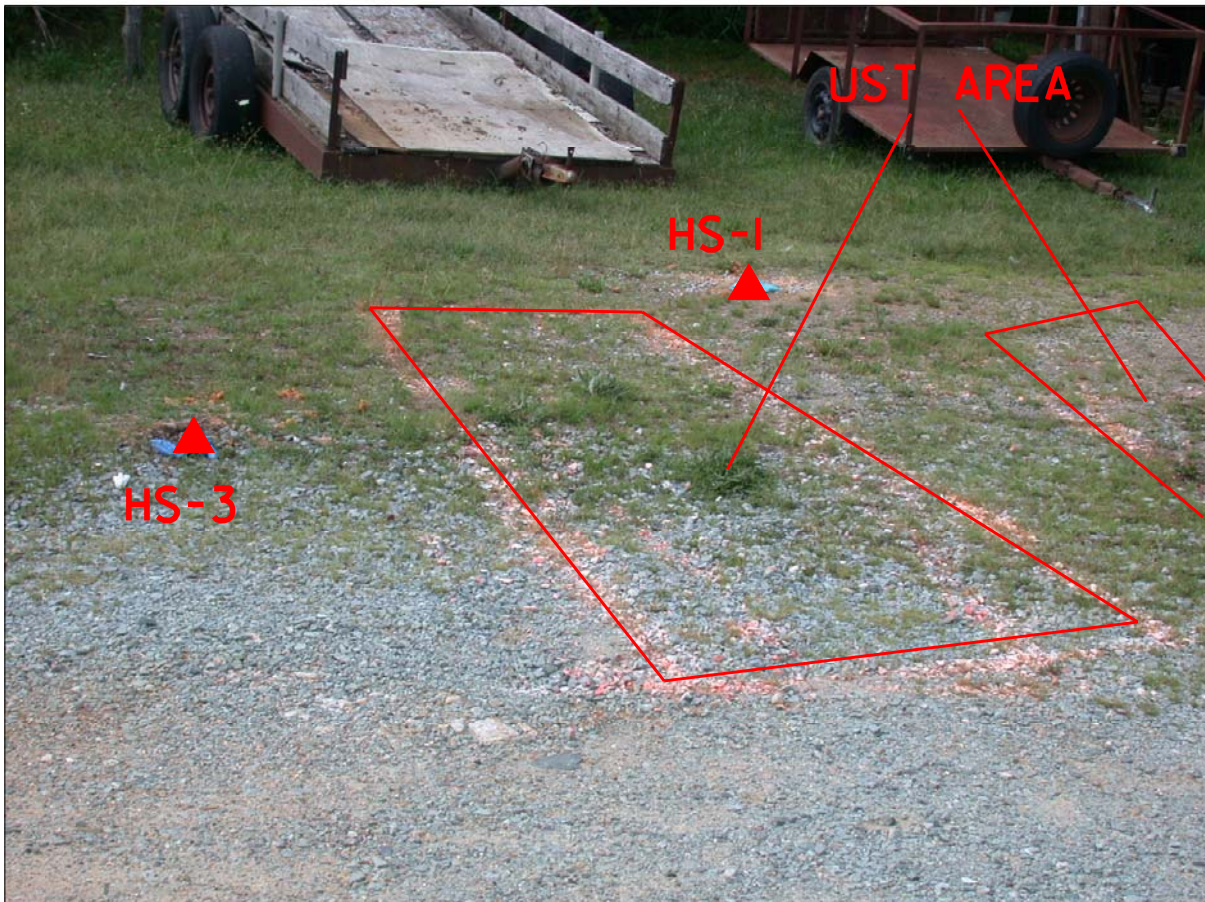


PHOTO 2 - BORINGS AT HARRIS PROPERTY LOOKING SOUTH FROM STREET



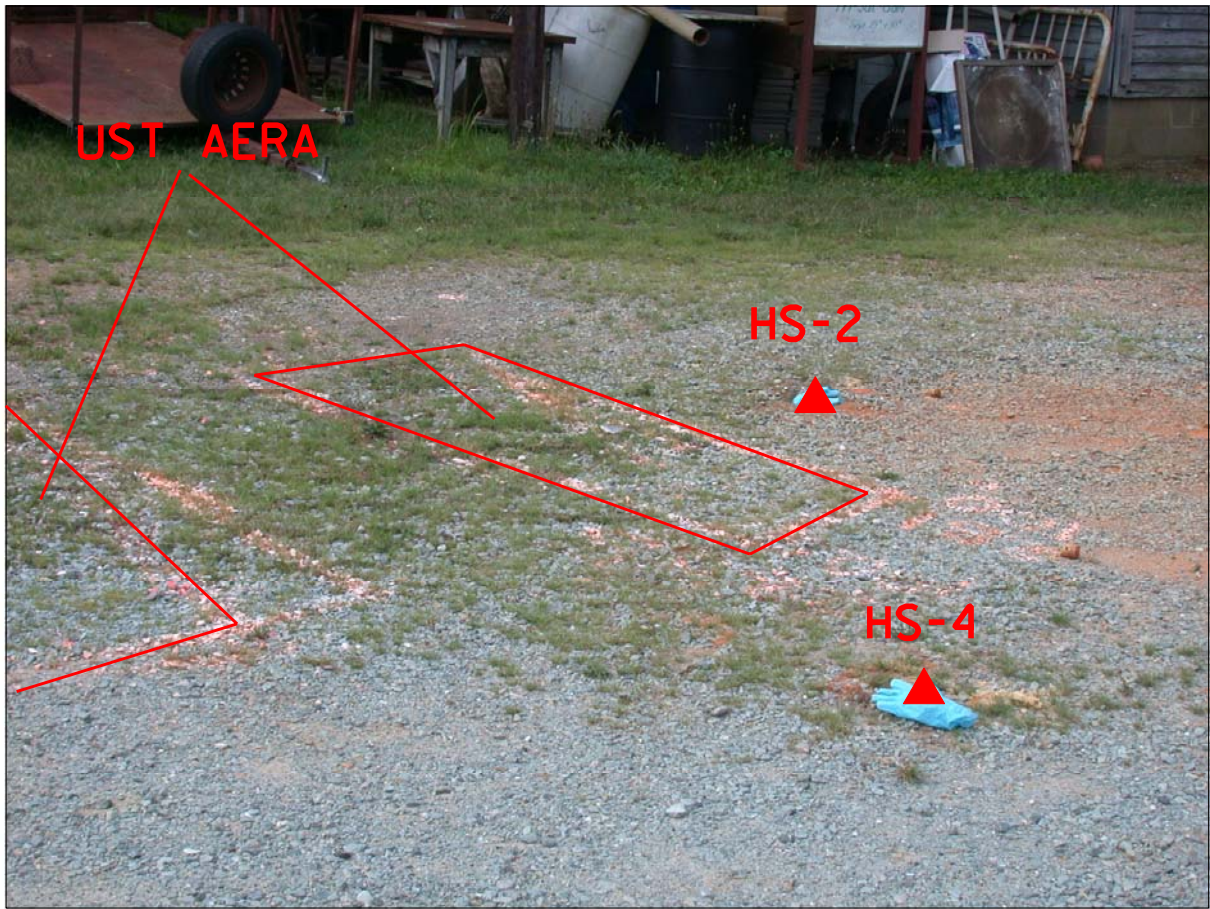


PHOTO 3 - BORINGS AT HARRIS PROPERTY LOOKING SOUTH FROM STREET

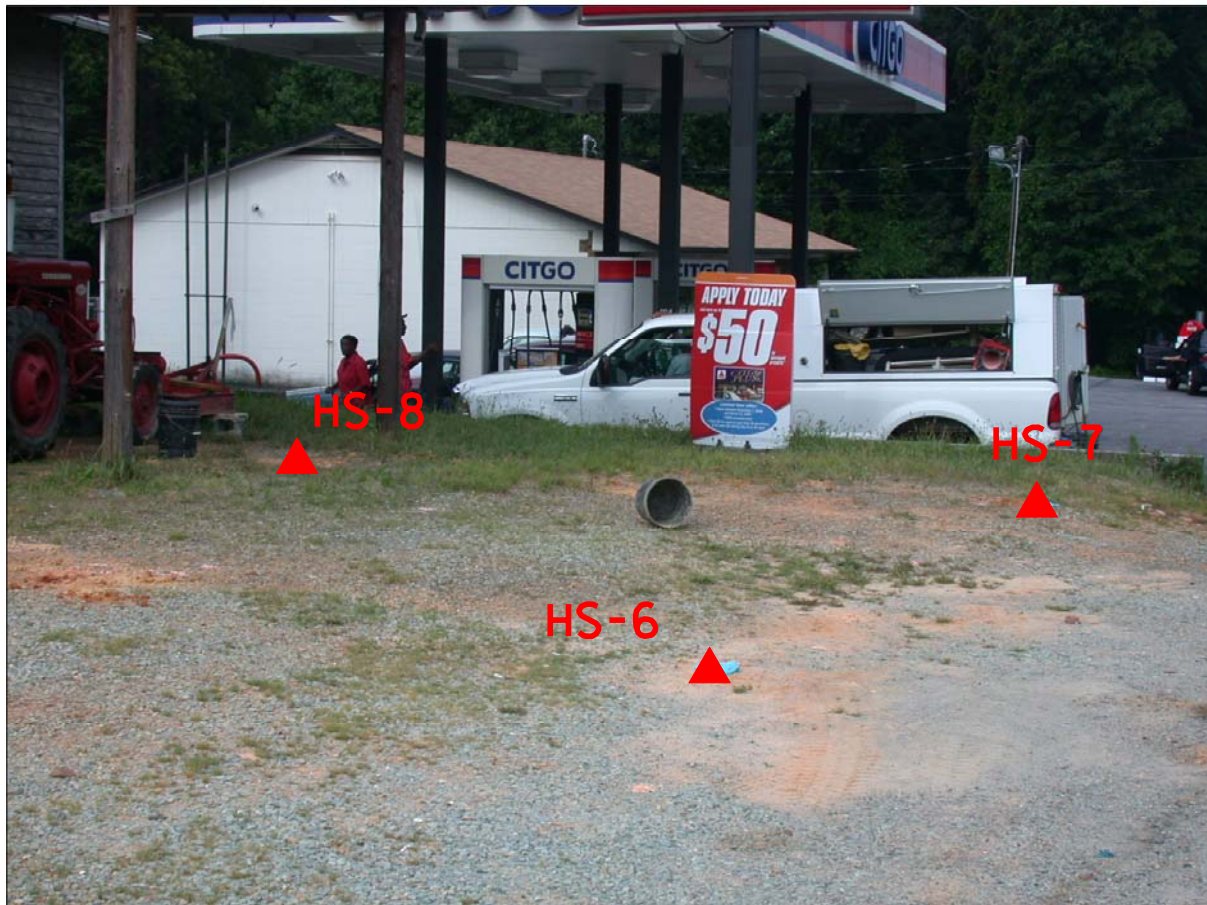


PHOTO 4 - BORINGS AT HARRIS PROPERTY LOOKING SOUTHWEST FROM STREET



PHOTO 5 - BORINGS AT HARRIS PROPERTY LOOKING EAST FROM PROPERTY LINE

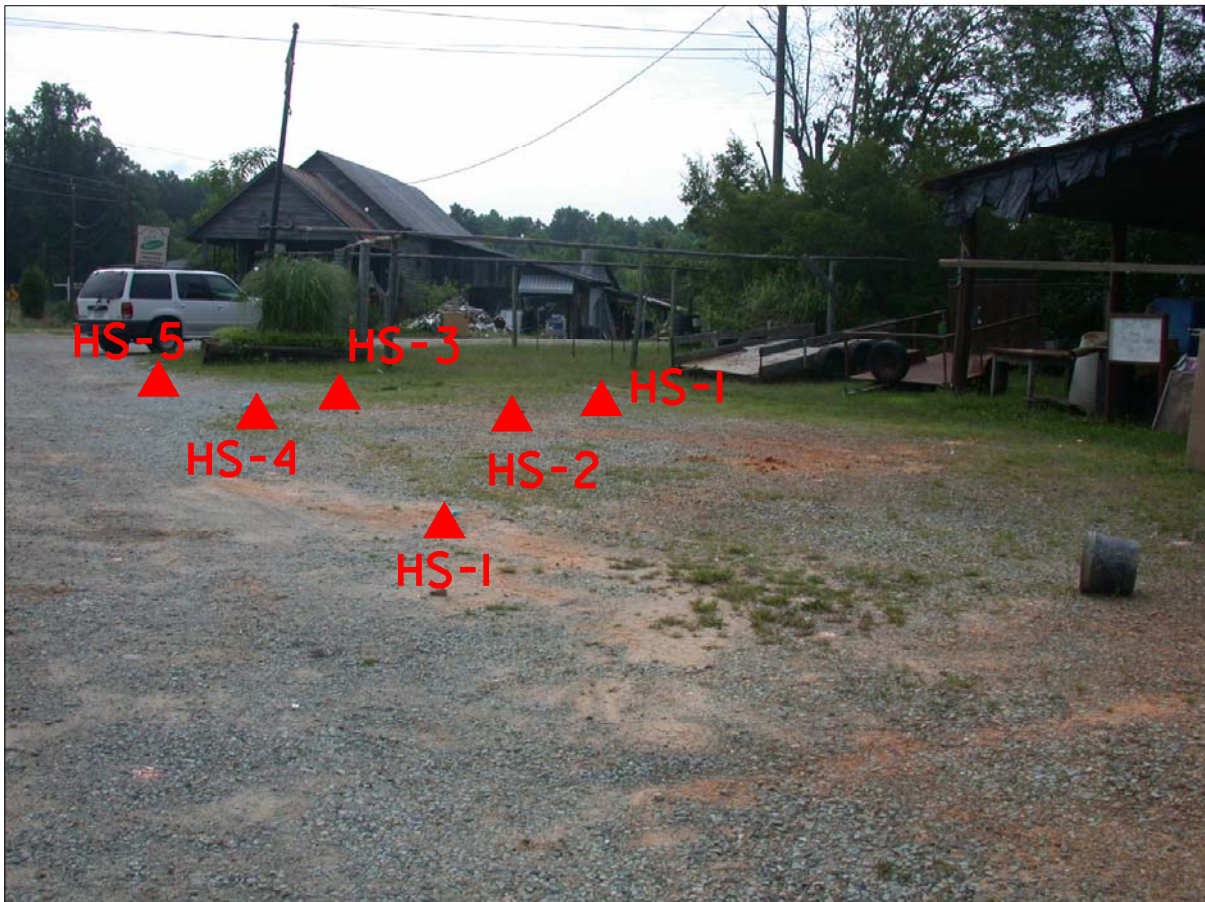


PHOTO 6 - BORINGS AT HARRIS PROPERTY LOOKING EAST FROM PROPERTY LINE

**ATTACHMENT D**



**PRISM**  
LABORATORIES, INC.

## Case Narrative

**Date:** 07/26/07  
**Company:** N. C. Department of Transportation  
**Contact:** Mike Branson  
**Address:** c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

**Client Project ID:** NCDOT - Harris  
**Prism COC Group No:** G0707275  
**Collection Date(s):** 07/10/07  
**Lab Submittal Date(s):** 07/11/07  
  
**Client Project Name Or No:** WBS# 34406.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 11 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

**Semi Volatile Analysis**

No Anomalies Reported

**Volatile Analysis**

No Anomalies Reported

**Metals Analysis**

N/A

**Wet Lab and Micro Analysis**

N/A

Please call if you have any questions relating to this analytical report.

<b>Date Reviewed by:</b> <u>Robbi A. Jones</u>	<b>Project Manager:</b> <u>Angela D. Overcash</u>
<b>Signature:</b> <u><i>Robbi A. Jones</i></u>	<b>Signature:</b> _____
<b>Review Date:</b> <u>07/26/07</u>	<b>Approval Date:</b> <u>07/26/07</u>

**Data Qualifiers Key Reference:**

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-1  
 Prism Sample ID: 186795  
 COC Group: G0707275  
 Time Collected: 07/10/07 7:20  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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**Percent Solids Determination**

Percent Solids	84.2	%			1	SM2540 G	07/19/07 15:02	ddixon	
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**Diesel Range Organics (DRO) by GC-FID**

Diesel Range Organics (DRO)	BRL	mg/kg	8.3	2.0	1	8015B	07/21/07 16:15	jvogel	Q25224
-----------------------------	-----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 50.05g / 2 mL 3550B 07/20/07 17:00 wconder P18962

Surrogate	% Recovery	Control Limits
o-Terphenyl	120	48 - 130

**Sample Weight Determination**

Weight 1	4.96	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.43	g			1	GRO	07/17/07 0:00	lbrown	

**Gasoline Range Organics (GRO) by GC-FID**

Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	0.62	50	8015B	07/18/07 1:24	hwagner	Q25096
-------------------------------	-----	-------	-----	------	----	-------	---------------	---------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	105	55 - 129

**Sample Comment(s):**

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

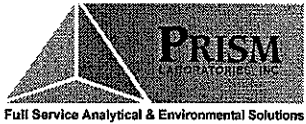
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-2  
 Prism Sample ID: 186796  
 COC Group: G0707275  
 Time Collected: 07/10/07 7:40  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	83.9	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.3	2.0	1	8015B	07/21/07 16:52	jvogel	Q25224
Sample Preparation:			49.97g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						o-Terphenyl	118	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	4.90	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.89	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.62	50	8015B	07/18/07 1:55	hwagner	Q25096
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						aaa-TFT	111	55 - 129	

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*J- Estimated value between the Reporting Limit and the MDL*

*The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.*

*All results are reported on a dry-weight basis*

Angela D. Overcash, V.P. Laboratory Services

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# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-3  
 Prism Sample ID: 186797  
 COC Group: G0707275  
 Time Collected: 07/10/07 7:50  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	83.6	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.4	2.0	1	8015B	07/21/07 17:29	lvogel	Q25224
Sample Preparation:				50g	/	2 mL	3550B	07/20/07 17:00	wconder P18962
				<b>Surrogate</b>			<b>% Recovery</b>	<b>Control Limits</b>	
				o-Terphenyl			103	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	5.31	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.19	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.62	50	8015B	07/18/07 2:26	hwagner	Q25096
				<b>Surrogate</b>			<b>% Recovery</b>	<b>Control Limits</b>	
				aaa-TFT			96	55 - 129	

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*J- Estimated value between the Reporting Limit and the MDL.*

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*All results are reported on a dry-weight basis*

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402  
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 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-4  
 Prism Sample ID: 186798  
 COC Group: G0707275  
 Time Collected: 07/10/07 8:10  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	89.7	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	450	mg/kg	39	9.5	5	8015B	07/23/07 14:01	jvogel	Q25224
Sample Preparation:				50g /	2 mL	3550B	07/20/07 17:00	wconder	P18962
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						o-Terphenyl	M #	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	4.42	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.59	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	56	mg/kg	5.6	0.58	50	8015B	07/18/07 2:57	hwagner	Q25096
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						aaa-TFT	110	55 - 129	

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*J- Estimated value between the Reporting Limit and the MDL*

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*All results are reported on a dry-weight basis*

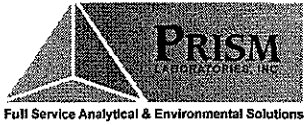
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NC Certification No. 402  
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# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-5  
 Prism Sample ID: 186799  
 COC Group: G0707275  
 Time Collected: 07/10/07 8:30  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	82.5	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	2.1	1	8015B	07/21/07 18:43	lvogel	Q25224
Sample Preparation:			50.03g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						o-Terphenyl	77	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	4.82	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.27	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	0.63	50	8015B	07/18/07 3:28	hwagner	Q25096
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						aaa-TFT	103	55 - 129	

**Sample Comment(s):**

*BRL = Below Reporting Limit*

*J- Estimated value between the Reporting Limit and the MDL*

*The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.*

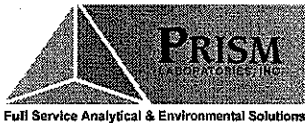
*All results are reported on a dry-weight basis*

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402  
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 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-6  
 Prism Sample ID: 186800  
 COC Group: G0707275  
 Time Collected: 07/10/07 8:40  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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**Percent Solids Determination**

Percent Solids	89.4	%			1	SM2540 G	07/19/07 15:02	ddixon	
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**Diesel Range Organics (DRO) by GC-FID**

Diesel Range Organics (DRO)	48	mg/kg	7.9	1.9	1	8015B	07/21/07 19:20	jvogel	Q25224
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Sample Preparation: 49.85g / 2 mL 3550B 07/20/07 17:00 wconder P18962

Surrogate	% Recovery	Control Limits
o-Terphenyl	116	48 - 130

**Sample Weight Determination**

Weight 1	4.88	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.64	g			1	GRO	07/17/07 0:00	lbrown	

**Gasoline Range Organics (GRO) by GC-FID**

Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	0.58	50	8015B	07/18/07 4:00	hwagner	Q25096
-------------------------------	-----	-------	-----	------	----	-------	---------------	---------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	90	55 - 129

**Sample Comment(s):**

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-7  
 Prism Sample ID: 186801  
 COC Group: G0707275  
 Time Collected: 07/10/07 9:00  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	73.7	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.5	2.3	1	8015B	07/21/07 19:58	jvogel	Q25224
Sample Preparation:			49.83g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						o-Terphenyl	88	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	5.06	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.73	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	0.71	50	8015B	07/19/07 16:01	hwagner	Q25151
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						aaa-TFT	81	55 - 129	

**Sample Comment(s):**

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

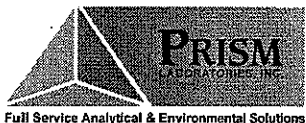
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Laboratory Report

07/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1  
 Sample Matrix: Soil

Client Sample ID: HS-8  
 Prism Sample ID: 186802  
 COC Group: G0707275  
 Time Collected: 07/10/07 9:10  
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Percent Solids Determination</b>									
Percent Solids	88.7	%			1	SM2540 G	07/19/07 15:02	ddixon	
<b>Diesel Range Organics (DRO) by GC-FID</b>									
Diesel Range Organics (DRO)	BRL	mg/kg	7.9	1.9	1	8015B	07/21/07 20:34	jvogel	Q25224
Sample Preparation:			50.03g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						o-Terphenyl	98	48 - 130	
<b>Sample Weight Determination</b>									
Weight 1	4.48	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.05	g			1	GRO	07/17/07 0:00	lbrown	
<b>Gasoline Range Organics (GRO) by GC-FID</b>									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	0.59	50	8015B	07/19/07 16:32	hwagner	Q25151
						<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>	
						aaa-TFT	100	55 - 129	

**Sample Comment(s):**

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.

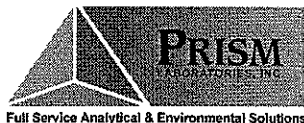
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Level II QC Report

7/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1

COC Group Number: G0707275  
 Date/Time Submitted: 7/11/07 16:10

## Gasoline Range Organics (GRO) by GC-FID, method 8015B

### Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q25096

### Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	44.55	50	mg/kg	89	67-116	Q25096

### Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186665 Gasoline Range Organics (GRO)	59.9	50	mg/kg	97	57-113	Q25096

### Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186665 Gasoline Range Organics (GRO)	60.45	50	mg/kg	98	57-113	1	0 - 23	Q25096

## Gasoline Range Organics (GRO) by GC-FID, method 8015B

### Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q25151

### Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	50	50	mg/kg	100	67-116	Q25151

### Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186801 Gasoline Range Organics (GRO)	43.4	50	mg/kg	87	57-113	Q25151

### Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186801 Gasoline Range Organics (GRO)	44.05	50	mg/kg	88	57-113	1	0 - 23	Q25151



NC Certification No. 402  
 SC Certification No. 99012  
 NC Drinking Water Cert. No. 37735

# Level II QC Report

7/26/07

N. C. Department of Transportation  
 Attn: Mike Branson  
 c/o Earth Tech Remediation  
 701 Corporate Center Dr. Ste 475  
 Raleigh, NC 27607

Project ID: NCDOT - Harris  
 Project No.: WBS# 34406.1.1

COC Group Number: G0707275  
 Date/Time Submitted: 7/11/07 16:10

## Diesel Range Organics (DRO) by GC-FID, method 8015B

### Method Blank

	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q25224

### Laboratory Control Sample

	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	46.9	40	mg/kg	117	53-118	Q25224

### Matrix Spike

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
186801 Diesel Range Organics (DRO)	42.2	40	mg/kg	106	52-119	Q25224

### Matrix Spike Duplicate

Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
186801 Diesel Range Organics (DRO)	41.6	40	mg/kg	104	52-119	1	0 - 25	Q25224

#-See Case Narrative



Full Service Analytical & Environmental Solutions  
 449 Springbrook Road • P.O. Box 240548 • Charlotte, NC 28224-0548  
 Phone: 704/529-6384 • Fax: 704/525-0409

Client Company Name: FEARIN RECK  
 Report To/Contact Name: MIKE BEARSON  
 Reporting Address: 701 CORCORAN CENTER DR.  
STE 475 RALEIGH NC 27607  
 Phone: 919 854 6238 Fax: (919) 919 854 6259  
 Email: (No) Email Address Mike.Bearson@earthlink.net  
 EDD Type: PDF  Excel  Other   
 Site Location Name: HARRIS  
 Site Location Physical Address: Box 2820

# CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: NC DOT - HARRIS  
 Project Name: NC DOT - HARRIS  YES  NO  N/A  
 Short Hold Analysis: (Yes)  (No)  UST Project: (RCS) (No)  
 \*Please ATTACH any project specific reporting (QC LEVEL I III III IV) provisions and/or QC Requirements  
 Invoice To: NC DOT  
 Address: \_\_\_\_\_

Purchase Order No./Billing Reference: URS 34406.1.1  
 Requested Due Date  1 Day  2 Days  3 Days  4 Days  5 Days  
 "Working Days"  6-9 Days  Standard 10 days  Rush Work Must Be Pre-Approved  
 Samples received after 15:00 will be processed next business day.  
 Turnaround time is based on business days, excluding weekends and holidays.  
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

**LAB USE ONLY**  
 Samples INTACT upon arrival?  YES  NO  N/A  
 Received ON WET ICE? Temp 4.92  
 PROPER PRESERVATIVES indicated?  
 Received WITHIN HOLDING TIMES?  
 CUSTODY SEALS INTACT?  
 VOLATILES rec'd W/OUT HEADSPACE?  
 PROPER CONTAINERS used?

**TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL**  
 Certification: NELAC  USACE  FL  NC  X  
 SC  OTHER  N/A  
 Water Chlorinated: YES  NO   
 Sample Iced Upon Collection: YES  NO

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
H5-1	7/10/07	0720	Soil	CG	3	4oz/VOA	MeOH	DRUG		186795
H5-2	7/10/07	0740	Soil	CG	3	4oz/VOA	MeOH			186796
H5-3	7/10/07	0750	Soil	CG	3	4oz/VOA	MeOH			186797
H5-4	7/10/07	0810	Soil	CG	3	4oz/VOA	MeOH			186798
H5-5	7/10/07	0830	Soil	CG	3	4oz/VOA	MeOH			186799
H5-6	7/10/07	0840	Soil	CG	3	4oz/VOA	MeOH			186800
H5-7	7/10/07	0900	Soil	CG	3	4oz/VOA	MeOH			186801
H5-8	7/10/07	0910	Soil	CG	3	4oz/VOA	MeOH			186802

Sampler's Signature: M. Bearson Sampled By (Print Name): M. Bearson Affiliation: Earth Reck  
**PRESS DOWN FIRMLY - 3 COPIES**

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By (Signature): M. Bearson Date: 8/10/07 Military/Hours: 1130  
 Relinquished By (Signature): Alex Lassiter Date: 7-11-07 Military/Hours: 1320  
 Relinquished By (Signature): David Morris Date: 7/10/07 Military/Hours: 1435

Method of Shipment:  Fed Ex  UPS  Hand-delivered  Prism Field Service  Other  
 NPDES:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  VA  NC  SC  TN  KY  OH  PA  DE  MD  DC  
 DRINKING WATER:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 SOLID WASTE:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 CERCLA:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 RCRA:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 LANDFILL:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 OTHER:  NC  SC  TN  VA  WV  KY  OH  PA  DE  MD  DC  
 COC Group No: 65707375

Additional Comments: 1/NOICE REPORT  
Under Blanket PO  
relinquished by David Morris & 7/10/07 e.1610  
Rec'd by [Signature]  
7/10/07 ORIGINAL

\*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)  
 (SEE REVERSE FOR TERMS & CONDITIONS)