

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
Clifton Wayne Henderson Property (Parcel #017)
310 Virgilina Road
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 Clifton Wayne Henderson Property (Parcel #017) is located at 310 Virgilina Road (NC 49) in Roxboro, North Carolina. The property is situated on the north side of Virgilina Road approximately 0.4 kilometers (¼ mile) east of the intersection of Virgilina Road and US 501 (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. Evidence suggesting this past usage included two sign poles and apparent vent pipe brackets. The site consists of a single-story building with a church (Temple of Deliverance in Jesus Christ) occupying the eastern half of the structure and storage in the western half. 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 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. 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. Significant electromagnetic anomalies were detected in front of the building under a concrete slab at the entrance to the church and on the west side of the building. Closer investigation with the GPR indicated that two USTs may be present under the concrete and one UST may be present on the west side of the building. The potential USTs below the concrete appear to be about 1.0 meter (3 feet) in diameter and 3.0 meters (10 feet) long. These dimensions suggest that the USTs are a nominal 3785 liters (1000 gallons) in size. The potential UST at the west side of the building appears to be about 1.0 meters (3 feet) in diameter and about 1.8 meters (6 feet) long. These dimensions suggest that the UST is a nominal 1135 liters (300 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[®] 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).

Ten direct-push holes (NN-1 through NN-10) were advanced within the proposed right-of-way to a depth of 1.2 to 3.6 meters (4 to 12 feet) as shown in Figure 2 and Attachment B. The borings were located to evaluate the area adjacent to the geophysical anomalies and proposed drop inlets within the easement (Attachment C). Borings NN-1, NN-2, and NN-3 were located to evaluate the soil conditions surrounding the geophysical anomaly at the church entrance; borings NN-4 through NN-8 were placed to assess soil conditions at proposed drop inlet locations within the right-of-way/easement; and borings NN-9 and NN-10 were placed to evaluate the soil conditions near the geophysical anomaly on the west side of the building. 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 dark brown silt. Below this unit was a mottled medium brown, reddish brown, and yellow silt/clay. Borings NN-9 and NN-10 encountered plastic clay at a depth of about 0.6 meters (2 feet). Borings NN-1 through NN-5 were terminated at a depth of 3.6 meters (12 feet). Boring NN-6 was terminated at equipment refusal at 2.4 meters (8 feet). Borings NN-7, NN-8, NN-9, and NN-10 were terminated at groundwater at a depth of 1.2 to 1.8 meters (4 to 6 feet). 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 four of the ten 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 NN-8 (640 mg/kg) and NN-9 (19 mg/kg) contained a DRO concentration above the 10 mg/kg assumed action level. The soil sample collected from boring NN-8 (47 mg/kg) contained a GRO concentration above the assumed action level.

Conclusions and Recommendations

A Preliminary Site Assessment was conducted to evaluate the Clifton Wayne Henderson Property (Parcel #017) located at 310 Virgilina Road in Roxboro, Person County, North Carolina. Ten soil borings were advanced to evaluate the soil conditions with respect to the geophysical anomalies/potential USTs and within the proposed right-of-way. 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 ten 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 NN-8 and NN-9 contained TPH concentrations identified as DRO and/or GRO above the assumed action level. Boring NN-8 is located at a proposed drop inlet in a swampy area and boring NN-9 is located near the potential UST on the west side of the building. A review of the field screening readings (Table 1) and Figure 3 suggests that the thickness of the potentially contaminated soil is about 0.6 meters (2 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 91 cubic meters (120 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
CLIFTON WAYNE HENDERSON PROPERTY (PARCEL #017)
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)
NN-1	0 - 0.6	1.63			
	0.6 - 1.2	1.46	NN-1	DRO (BQL) GRO (BQL)	10 10
	1.2 - 1.8	1.59			
	1.8 - 2.4	1.48			
	2.4 - 3.0	1.58			
NN-2	3.0 - 3.6	1.21			
	0 - 0.6	2.16			
	0.6 - 1.2	2.44	NN-2	DRO (BQL) GRO (BQL)	10 10
	1.2 - 1.8	2.39			
	1.8 - 2.4	2.17			
NN-3	2.4 - 3.0	1.75			
	3.0 - 3.6	1.27			
	0 - 0.6	1.29			
	0.6 - 1.2	1.55			
	1.2 - 1.8	1.9	NN-3	DRO (BQL) GRO (BQL)	10 10
NN-4	1.8 - 2.4	1.57			
	2.4 - 3.0	1.16			
	3.0 - 3.6	0.51			
	0 - 0.6	1.59			
	0.6 - 1.2	2.02	NN-4	DRO (BQL) GRO (BQL)	10 10
NN-5	1.2 - 1.8	1.45			
	1.8 - 2.4	1.82			
	2.4 - 3.0	1.38			
	3.0 - 3.6	1.34			
	0 - 0.6	2.07	NN-5	DRO (BQL) GRO (BQL)	10 10
NN-6	0.6 - 1.2	1.96			
	1.2 - 1.8	1.68			
	1.8 - 2.4	1.98			
	2.4 - 3.0	1.96			
NN-7	3.0 - 3.6	1.58			
	0 - 0.6	14.71			
	0.6 - 1.2	9.48			
	1.2 - 1.8	13.77			
NN-8	1.8 - 2.4	133	NN-6	DRO (BQL) GRO (BQL)	10 10
	0 - 0.6	0.18			
NN-9	0.6 - 1.2	0.54	NN-7	DRO (9.5) GRO (BQL)	10 10
	0 - 0.6	9.28			
NN-10	0.6 - 1.2	755	NN-8	DRO (640) GRO (47)	10 10
	0 - 0.6	2.74	NN-9	DRO (19) GRO (BQL)	10 10
NN-10	0.6 - 1.2	0.25			
	1.2 - 1.8	1.97			
NN-10	0 - 0.6	0.82			
	0.6 - 1.2	14	NN-10	DRO (6.9 ^J) 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.

J = Estimated value.

BOLD values are above the assumed action level.

FIGURES

J. E. GATES

M3°50'24"E
113.611

CLIFTON WAYNE HENDERSON

17

APPROXIMATE LOCATION OF USTS

ISMTL BUS

ISBLK BUS

NC 49 VIRGINIA RD.7.0 BST

LEGEND

NN-4  SOIL BORING LOCATION AND IDENTIFICATION



GRAPHIC SCALE (meters)



E A R T H T E C H

FIGURE 2
SITE MAP

CLIFTON WAYNE HENDERSON PROPERTY (PARCEL #017)
ROXBORO, PERSON COUNTY, NORTH CAROLINA

JULY 2007

100407

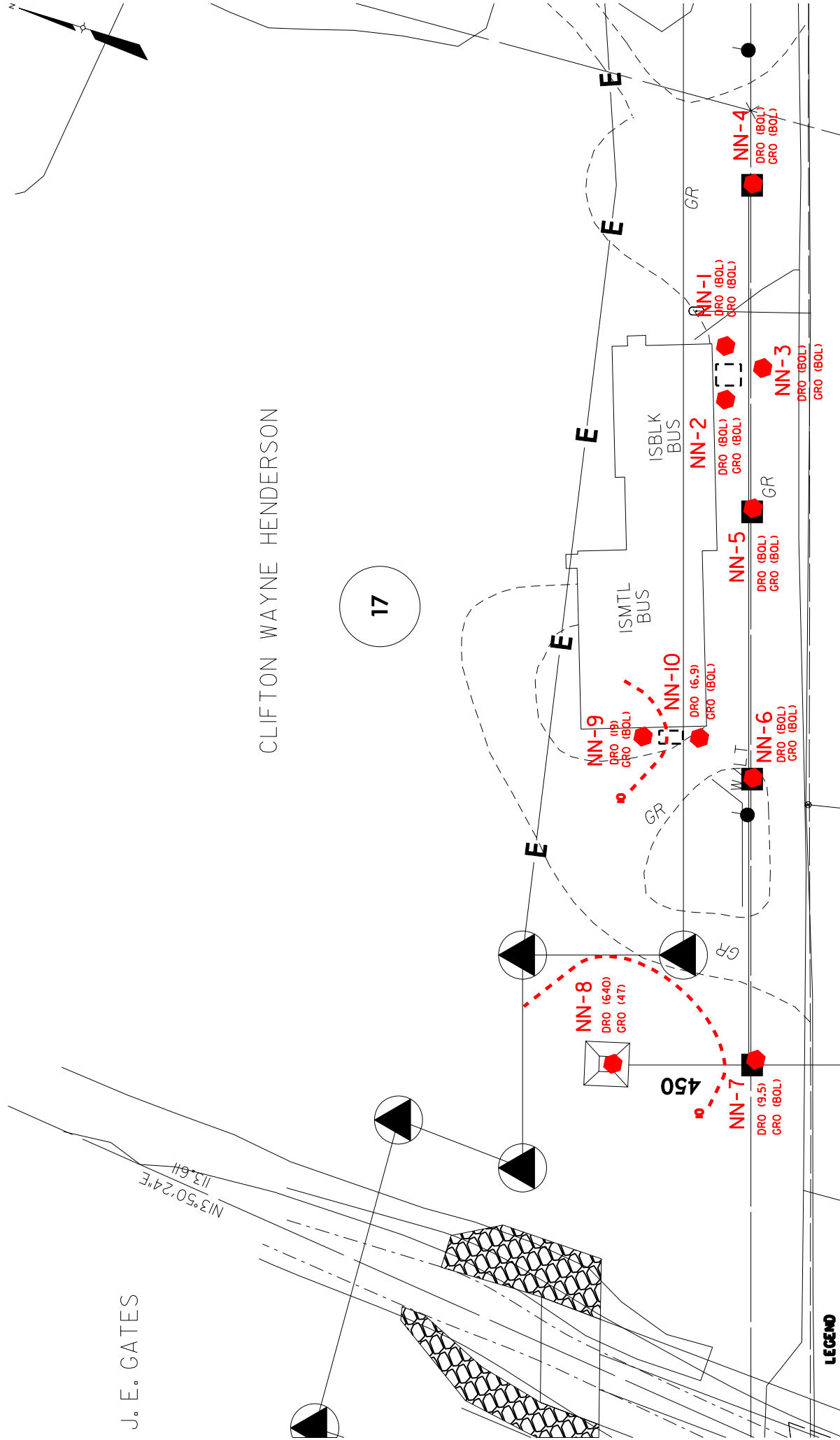
J. E. GATES

CLIFTON WAYNE HENDERSON

17

M13°50'24"E
113.611

NC 49 VIRGINIA RD.7.0 BST



- LEGEND**
- NN-4 SOIL BORING LOCATION AND IDENTIFICATION
 - TPH ISOCONCENTRATION CONTOUR
 - DFO (123) TPH AS DIESEL FUEL IN MG/KG
 - GRO (123) TPH AS GASOLINE IN MG/KG
 - BOL BELOW QUANTIFICATION LIMIT

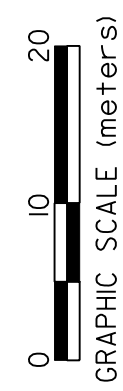


FIGURE 3

ANALYTICAL RESULTS MAP
 CLIFTON WAYNE HENDERSON PROPERTY (PARCEL #017)
 ROXBORO, PERSON COUNTY, NORTH CAROLINA



E A R T H T E C H

JULY 2007

100407

ATTACHMENT A

GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**CLIFTON WAYNE HENDERSON (PARCEL 17)
Roxboro, North Carolina**

July 16, 2007

**Report prepared for: Mike Branson
Earth Tech, Inc.
701 Corporate Center Drive, Suite 475
Raleigh, North Carolina 27607**

**Prepared by: _____
Mark J. Denil, PG**

**Reviewed by: _____
Douglas Canavello, PG**

**PYRAMID ENVIRONMENTAL & ENGINEERING, P.C.
700 NORTH EUGENE ST.
GREENSBORO, NC 27401
(336) 335-3174**

Earth Tech of North Carolina, Inc.
GEOPHYSICAL INVESTIGATION REPORT
CLIFTON WAYNE HENDERSON PROPERTY (PARCEL 17)
Roxboro, North Carolina

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| Figure 2 | EM61 Bottom Coil Results |
| Figure 3 | EM61 Differential Results |
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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 Clifton Wayne Henderson property (Parcel 17) located along the north side of NC 49 (Virginia Road) in Roxboro, North Carolina. The site consists of an active church surrounded by a grass-covered field and a gravel/grass covered parking area. 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 Clifton Wayne Henderson property (Parcel 17) 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 17 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 investigations 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 17 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 reconnaissance was conducted in the area behind the church which contained a significant amount of surface objects and debris. 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 and the GPR recon area at Parcel 17 are shown as solid purple lines and a solid purple polygon 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 linear EM61 anomaly along the edge of NC 49 is probably in response to buried utility lines. GPR data suggest the linear EM61 anomalies intersecting grid coordinates X=150 Y=55 and X=240

Y=95 are possible in response to buried conduits. GPR data suggest the EM61 anomalies located within the western portion of the site, from grid line X=10 to X=140, are probably in response to short conduits and/or buried miscellaneous debris. GPR data suggest the high amplitude anomaly centered near grid coordinates X=278 Y=32, is probably in response to two metallic USTs buried approximately 1.4 and 1.6 feet below surface. The GPR results suggest the USTs are approximately 10 feet long and 3 feet wide.

GPR surveys also suggest the presence of a probable, large diameter conduit or a possible small UST centered near grid coordinates X=168 Y=56 and buried approximately 1.0 feet below surface. The probable conduit or possible UST is approximately 6 feet long and 3 feet wide. Images of GPR survey lines across the probable and possible USTs and photographs showing the locations of the probable and possible 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

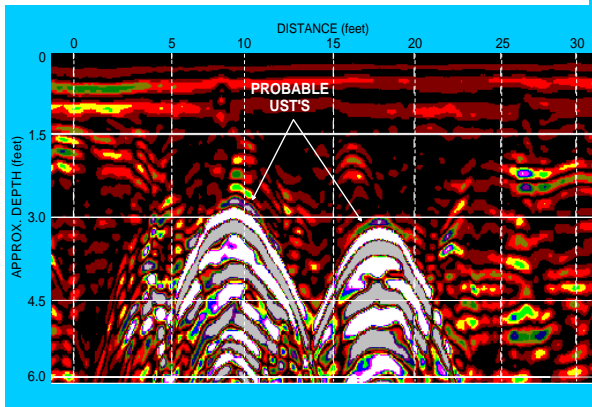
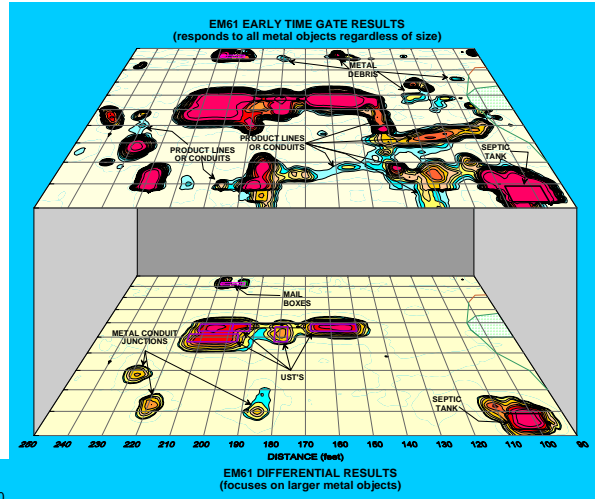
Our evaluation of the EM61 and GPR data collected across the proposed ROW area at the Clifton Wayne Henderson property (Parcel 17) located in Roxboro, North Carolina, provides the following summary and conclusions:

- 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.
- GPR data suggest the EM61 anomalies located within the western portion of the site, from grid line X=10 to X=140, are probably in response to short conduits and/or buried miscellaneous debris.

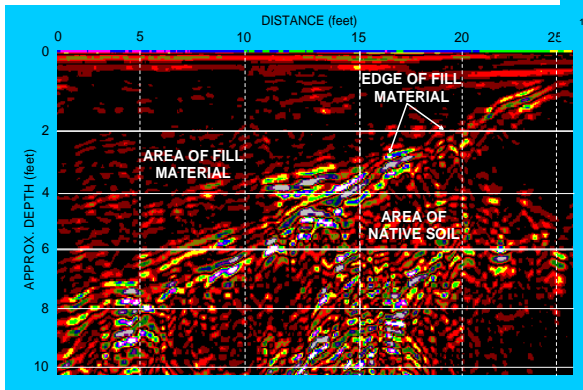
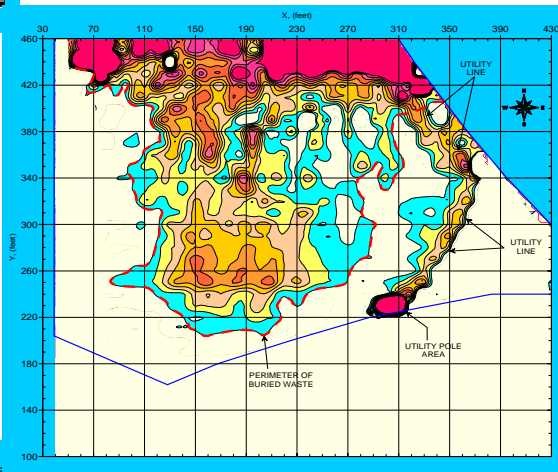
- GPR data suggest the high amplitude anomaly centered near grid coordinates X=278 Y=32, is probably in response to two metallic USTs buried approximately 1.4 and 1.6 feet below surface. The GPR results suggest the USTs are approximately 10 feet long and 3 feet wide.
- GPR surveys also suggest the presence of a probable, large diameter conduit or a possible small UST centered near grid coordinates X=168 Y=56 and buried approximately 1.0 feet below surface. The probable conduit or possible UST is approximately 6 feet long and 3 feet wide.
- GPR data suggest that the remaining EM61 anomalies are probably in response to known cultural features or to buried miscellaneous debris.

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 and one possible UST were detected within the proposed ROW area 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 17 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 17 on June 27, 2007.

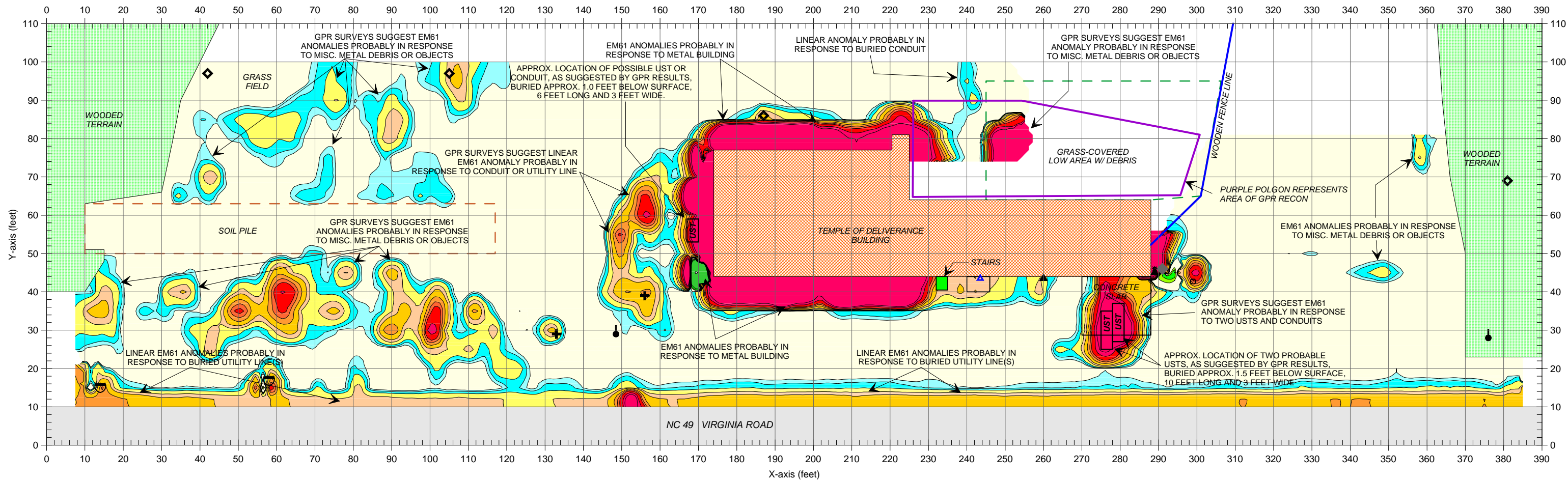


The photo shows a portion of the geophysical survey area located at Parcel 17. The photo is viewed in a northwesterly direction.



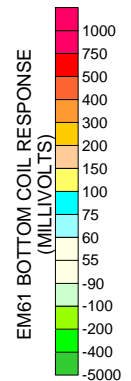
CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/13/07	BY	MJD
SITE	CLIFTON HENDERSON PROPERTY - PARCEL 17		LAY		OPND	
CITY	ROXBORO	STATE	NORTH CAROLINA	ENG		
TITLE	GEOPHYSICAL RESULTS		PLNG	2007-163	PROJ	

PHOTOGRAPHS OF
GEOPHYSICAL EQUIPMENT
& SURVEY AREA



LEGEND

	SURVEY AREA: EM61 DATA ACQUIRED ALONG EASTERLY-WESTERLY TRENDING LINES SPACED 5 FEET APART
	GAS METER
	WATER PIPE
	TCE Marker
	METAL POLE
	GUY WIRE
	LIGHT OR UTILITY POLE
	WATER METER OR VALVE COVER
	ROAD SIGN
	DRAIN VENT PIPE
	APPROX. FOOT PRINT OF POSSIBLE OR PROBABLE UST, AS SUGGESTED BY THE GPR RESULTS



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.

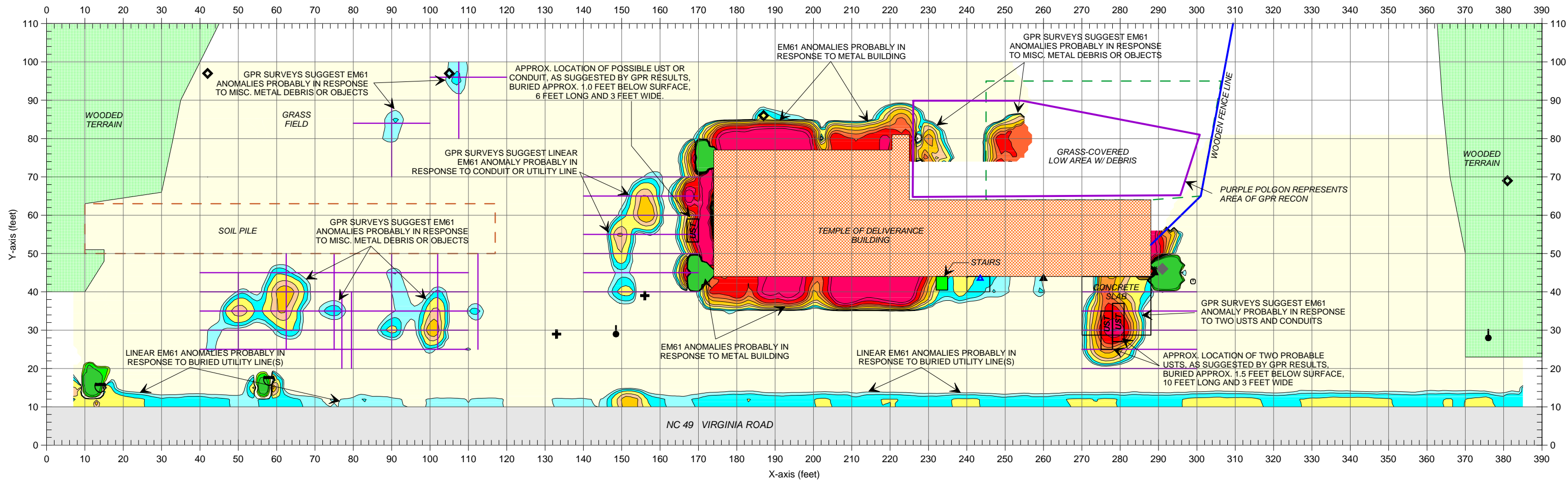
The geophysical results suggest the presence of two probable USTs and one possible UST within the proposed ROW.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.	DATE	07/02/07	DRWN	MJD
SITE	CLIFTON HENDERSON PROPERTY - PARCEL 17	LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	ANO	2007-163	FIGURE	

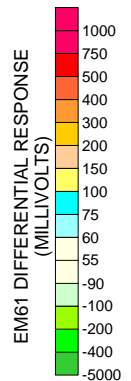
EM61
BOTTOM COIL
RESULTS

FIGURE 2



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG EASTERLY-WESTERLY TRENDING LINES SPACED 5 FEET APART
- GAS METER
- WATER PIPE
- TCE Marker
- METAL POLE
- GUY WIRE
- LIGHT OR UTILITY POLE
- WATER METER OR VALVE COVER
- ROAD SIGN
- DRAIN VENT PIPE
- GPR SURVEY LINE
- APPROX. FOOT PRINT OF POSSIBLE OR PROBABLE UST, AS SUGGESTED BY THE GPR RESULTS



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 UST's 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.

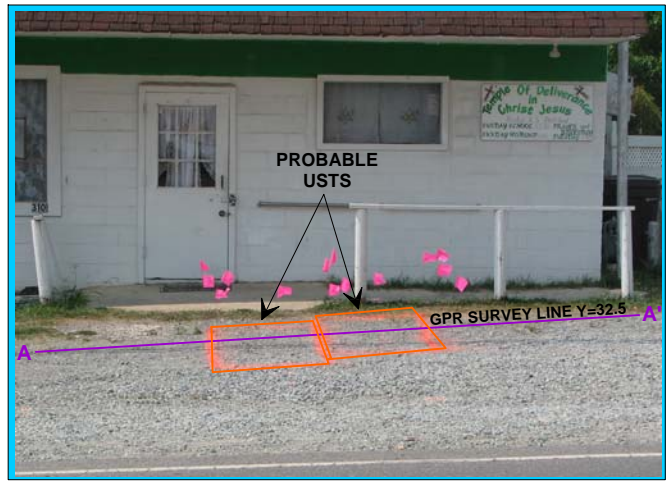
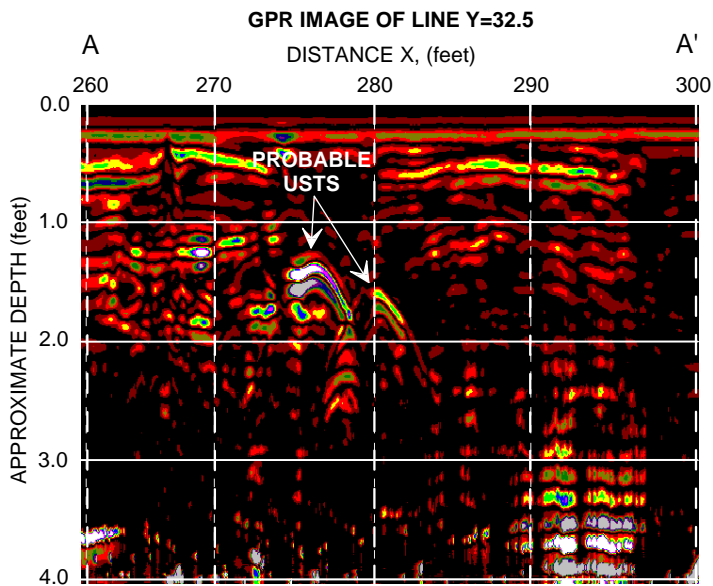
The geophysical results suggest the presence of two probable USTs and one possible UST within the proposed ROW.



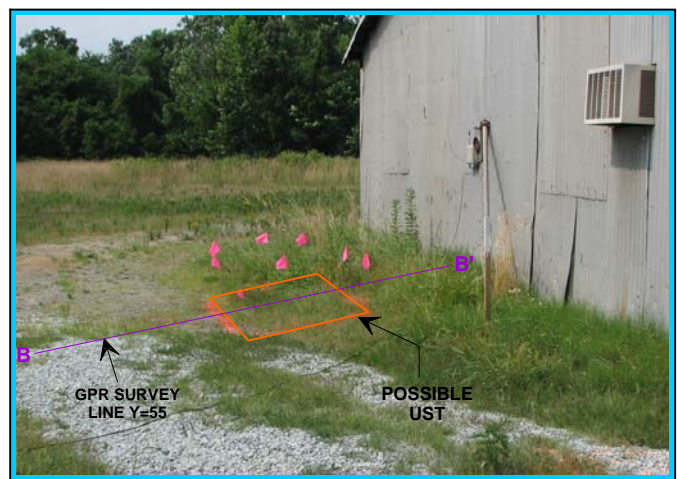
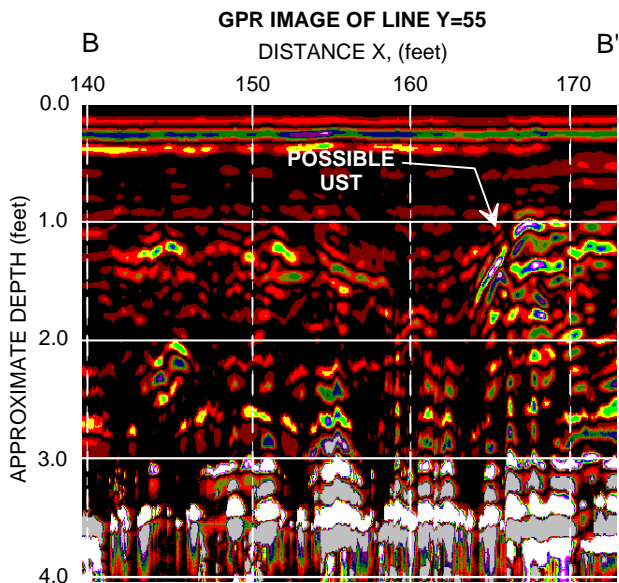
CLIENT	EARTH TECH OF NORTH CAROLINA, INC.	DATE	07/02/07	DRWN	MJD
SITE	CLIFTON HENDERSON PROPERTY - PARCEL 17	LAY		CHKD	
CITY	ROXBORO	STATE	NORTH CAROLINA	DWG	
TITLE	GEOPHYSICAL RESULTS	NO.	2007-163	FIGURE	

EM61 DIFFERENTIAL RESULTS

FIGURE 3



The GPR image obtained along a portion of survey line Y=32.5 shows two hyperbolic anomalies centered near coordinate X=78 that are probably in response to metallic USTs or wide diameter conduits buried approximately 1.4 and 1.6 feet below surface. Based on the GPR data, the USTs appear to be 10 feet long and 3 feet wide. The location of the probable USTs and GPR survey line Y=32.5 are shown in the above photograph. The photograph is veiwed in a northerly direction.



The GPR image obtained along a portion of survey line Y=55 shows a hyperbolic anomaly centered near coordinate X=166 that may possibly be in response to a metallic UST or wide diameter conduit buried approximately 1.0 feet below surface. Based on the GPR data, the possible UST or conduit appears to be 6 feet long and 3 feet wide. The location of the possible UST or conduit and GPR survey line Y=55 are shown in the above photograph. The photograph is veiwed in a northerly direction.



CLIENT	EARTH TECH OF NORTH CAROLINA, INC.		DATE	07/13/07	BY	MJD
SITE	CLIFTON HENDERSON PROPERTY - PARCEL 17		LAY		OPND	
CITY	ROXBORO	STATE	NORTH CAROLINA	ENIG		
TITLE	GEOPHYSICAL RESULTS		NO.	2007-163	PROJ#	

PROBABLE OR POSSIBLE UST LOCATIONS

FIGURE 4

ATTACHMENT B

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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			1.63		4" GRAVEL, MEDIUM TO DARK BROWN SILT, DRY, NO ODOR.
			1.46		AS ABOVE, DRY, NO ODOR.
			1.59		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
10.0			1.48		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			1.58		AS ABOVE WITH INCREASIIING CLAY, DRY, NO ODOR.
			1.21		AS ABOVE, BECOMONG MOSTLY CLAY, DRY, NO ODOR.
15.0					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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
			2.16		4" GRAVEL, MEDIUM TO DARK BROWN SILT, DRY, NO ODOR.
			2.44		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
5.0			2.39		AS ABOVE, DRY, NO ODOR.
			2.17		AS ABOVE, DRY, NO ODOR.
			1.75		AS ABOVE WITH INCREASIIING CLAY, DRY, NO ODOR.
10.0			1.27		AS ABOVE, DRY, NO ODOR.
					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
15.0					
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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			1.29		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT, DRY, NO ODOR.
			1.55		AS ABOVE, DRY, NO ODOR.
			1.90		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
10.0			1.57		AS ABOVE, DRY, NO ODOR.
			1.16		AS ABOVE, DRY, NO ODOR.
			0.51		AS ABOVE, DRY, NO ODOR.
15.0					BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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			1.59		4" GRAVEL, MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS. AS ABOVE, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR.
			2.02		
10.0			1.45		AS ABOVE, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR.
15.0			1.82		MEDIUM BROWN, MEDIUM-GRAINED SAND, DRY, NO ODOR. BORING TERMINATED AT 12 FEET. NO GROUNDWATER ENCOUNTERED.
20.0			1.38		
			1.34		

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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			2.07		4" GRAVEL, MEDIUM BROWN MEDIUM- TO COARSE-GRAINED SAND, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			1.96		AS ABOVE, DRY, NO ODOR.
			1.68		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/SAND, DRY, NO ODOR.
10.0					
			1.98		AS ABOVE, DRY, NO ODOR.
			1.96		AS ABOVE, DRY, NO ODOR.
15.0					
			1.58		AS ABOVE, DRY, NO ODOR.
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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			14.71		MULTICOLORED, MULTILAYERED FILL MATERIAL, DRY, NO ODOR.
			9.48		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT, DRY, NO ODOR.
			13.77		MEDIUM BROWN TO TAN CLAY, MOIST, NO ODOR.
			133		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
					REFUSAL AT 8 FEET. NO GROUNDWATER ENCOUNTERED.
10.0					
15.0					
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-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
			9.28		MEDIUM BROWN SILT FILL MATERIAL, DRY, NO ODOR.
			7.55		MISCELLANEOUS DEBRIS AND SILT, WET AT 4 FEET, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
5.0					BORING TERMINATED AT 4 FEET. GROUNDWATER ENCOUNTERED AT 4 FEET.
10.0					
15.0					
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-9
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			2.74		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			0.25		AS ABOVE, DRY, NO ODOR.
			1.97		MEDIUM TO OLIVE GREEN PLASTIC CLAY, WET AT 6 FEET, NO ODOR.
10.0					
15.0					
20.0					

TEST BORING REPORT

PROJECT HENDERSON PROPERTY (PARCEL 17)
CLIENT NCDOT (R-2241A)
PROJECT NUMBER 100407 (34406.1.1)
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER NN-10
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
			0.82		MOTTLED MEDIUM BROWN, RED BROWN, AND YELLOW SILT/CLAY, DRY, NO ODOR.
			14		MEDIUM TO OLIVE GREEN PLASTIC CLAY, WET AT 4 FEET, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
5.0					BORING TERMINATED AT 4 FEET. GROUNDWATER ENCOUNTERED AT 4 FEET.
10.0					
15.0					
20.0					

ATTACHMENT C



PHOTO 1- BORINGS AT HENDERSON PROPERTY LOOKING NORTH FROM STREET



PHOTO 2 - BORING AT HENDERSON PROPERTY LOOKING WEST FROM DRIVEWAY



PHOTO 3 - BORING AT HENDERSON PROPERTY LOOKING WEST FROM DRIVEWAY

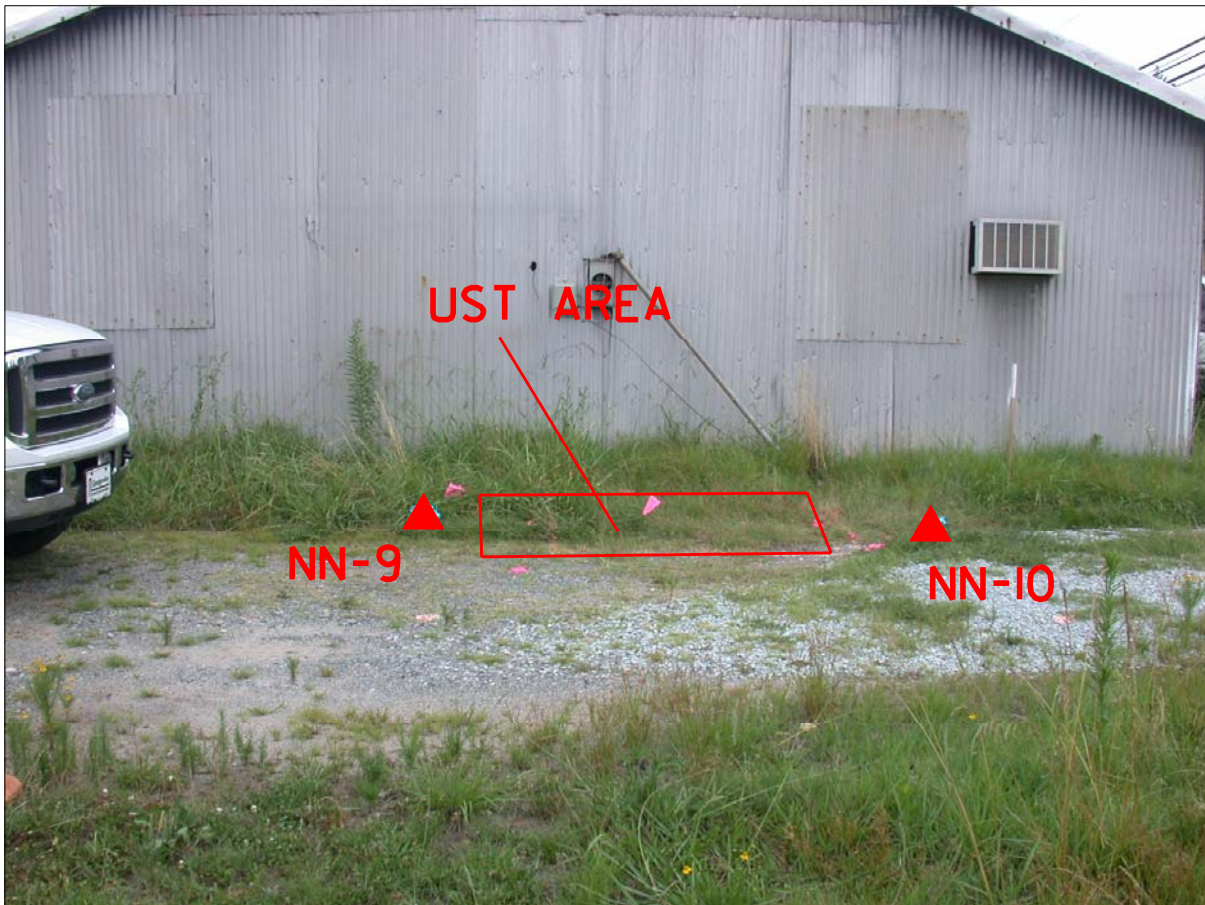


PHOTO 4 - BORINGS AT HENDERSON PROPERTY LOOKING EAST FROM DRIVEWAY

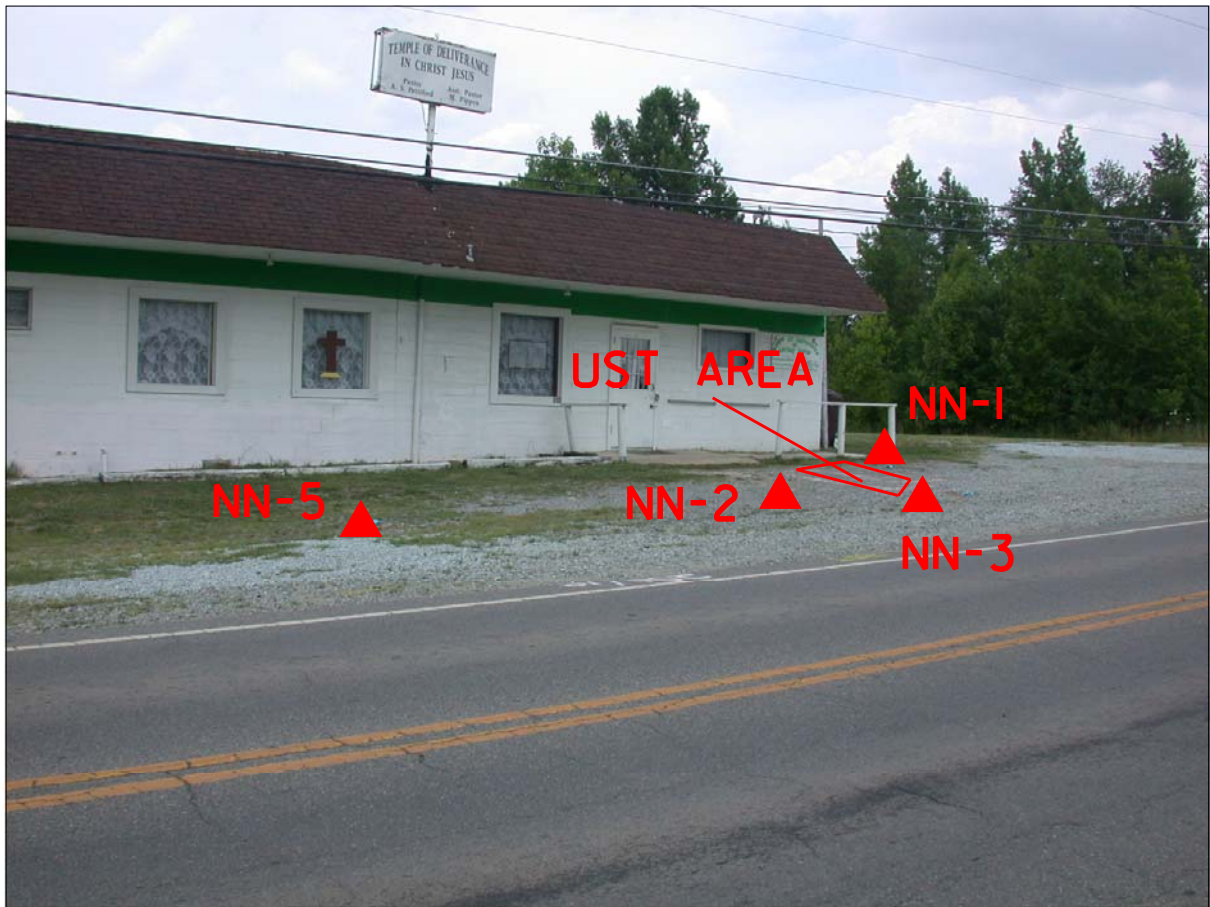


PHOTO 5 - BORINGS AT HENDERSON PROPERTY LOOKING NORTH FROM STREET

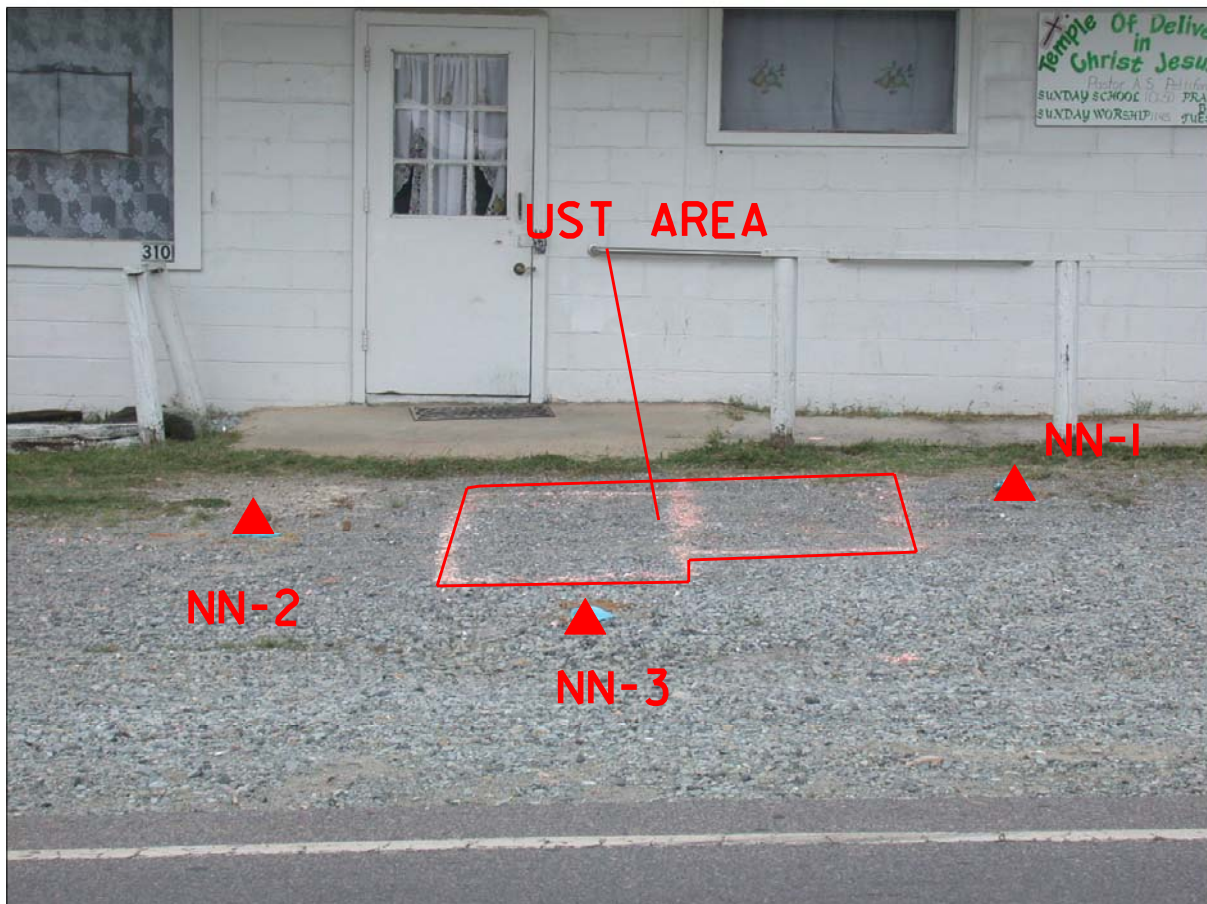
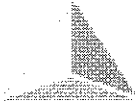


PHOTO 6 - BORINGS ON HENDERSON PROPERTY LOOKING NORTH FROM STREET



PHOTO 7 - BORING ON HENDERSON PROPERTY LOOKING NORTH FROM STREET

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 - WBS# 34406.1.1
Prism COC Group No: G0707276
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 12 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.

Date Reviewed by: Paula A. Gilleland

Project Manager: Angela D. Overcash

Signature: Paula A. Gilleland

Signature: Angela D. Overcash

Review Date: 07/26/07

Approval Date: 07/26/07

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 - WBS# 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-1
 Prism Sample ID: 186803
 COC Group: G0707276
 Time Collected: 07/10/07 10:15
 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	85.2	%			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	8.2	2.0	1	8015B	07/21/07 21:12	lvogel	Q25224
-----------------------------	-----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 49.81 g / 2 mL 3550B 07/20/07 17:00 wconder P18962

Surrogate	% Recovery	Control Limits
o-Terphenyl	99	48 - 130

Sample Weight Determination

Weight 1	6.12	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.11	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	0.61	50	8015B	07/19/07 17:03	hwagner	Q25151
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Surrogate	% Recovery	Control Limits
aaa-TFT	93	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 - WBS# 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-2
 Prism Sample ID: 186804
 COC Group: G0707276
 Time Collected: 07/10/07 10:30
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	80.2	%			1	SM2540 G	07/19/07 15:02	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	2.1	1	8015B	07/21/07 21:49	jvogel	Q25224
Sample Preparation:			49.85 g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		95	48 - 130	
<u>Sample Weight Determination</u>									
Weight 1	7.18	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.54	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.65	50	8015B	07/19/07 17:34	hwagner	Q25151
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		104	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.

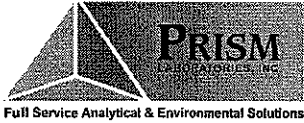
All results are reported on a dry-weight basis

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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-3
 Prism Sample ID: 186805
 COC Group: G0707276
 Time Collected: 07/10/07 11:00
 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	80.8	%			1	SM2540 G	07/20/07 12:00	ddixon	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.7	2.1	1	8015B	07/23/07 15:25	jvogel	Q25224
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Sample Preparation: 49.97 g / 2 mL 3550B 07/20/07 17:00 wconder P18962

Surrogate	% Recovery	Control Limits
o-Terphenyl	89	48 - 130

Sample Weight Determination

Weight 1	6.48	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.46	g			1	GRO	07/17/07 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	0.64	50	8015B	07/19/07 18:06	hwagner	Q25151
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Surrogate	% Recovery	Control Limits
aaa-TFT	97	55 - 129

Sample Comment(s):

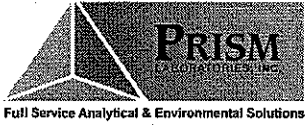
BRL = Below Reporting Limit

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



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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-4
 Prism Sample ID: 186806
 COC Group: G0707276
 Time Collected: 07/10/07 11:15
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.6	%			1	SM2540 G	07/20/07 12:00	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.6	2.1	1	8015B	07/23/07 15:59	jvogel	Q25224
Sample Preparation:			49.89 g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
			Surrogate				% Recovery	Control Limits	
			o-Terphenyl				92	48 - 130	
Sample Weight Determination									
Weight 1	5.70	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.39	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	0.64	50	8015B	07/19/07 18:37	hwagner	Q25151
			Surrogate				% Recovery	Control Limits	
			aaa-TFT				97	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.

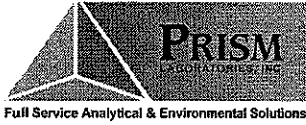
All results are reported on a dry-weight basis

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 - WBS# 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-5
 Prism Sample ID: 186807
 COC Group: G0707276
 Time Collected: 07/10/07 11:30
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	75.3	%			1	SM2540 G	07/20/07 12:00	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.3	2.3	1	8015B	07/23/07 17:12	jvogel	Q25224
Sample Preparation:			50.06 g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		122	48 - 130	
Sample Weight Determination									
Weight 1	6.54	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.82	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	0.69	50	8015B	07/19/07 19:09	hwagner	Q25151
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		94	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.

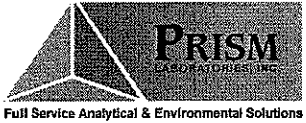
All results are reported on a dry-weight basis

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 - WBS# 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-6
 Prism Sample ID: 186808
 COC Group: G0707276
 Time Collected: 07/10/07 12:00
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.2	%			1	SM2540 G	07/20/07 12:00	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.9	2.2	1	8015B	07/23/07 16:35	jvogel	Q25224
Sample Preparation:			50.01 g	/	2 mL	3550B	07/20/07 17:00	wonder	P18962
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	91	48 - 130	
<u>Sample Weight Determination</u>									
Weight 1	4.05	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.84	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	0.66	50	8015B	07/19/07 19:40	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	114	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-7
 Prism Sample ID: 186809
 COC Group: G0707276
 Time Collected: 07/10/07 12:15
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.8	%			1	SM2540 G	07/20/07 12:00	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	9.5	mg/kg	8.9	2.2	1	8015B	07/24/07 7:48	jvogel	Q25224
Sample Preparation:			49.69 g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		129	48 - 130	
<u>Sample Weight Determination</u>									
Weight 1	6.00	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	5.61	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	0.66	50	8015B	07/19/07 20:11	hwagner	Q25151
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		93	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



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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-8
 Prism Sample ID: 186810
 COC Group: G0707276
 Time Collected: 07/10/07 12:30
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.2	%			1	SM2540 G	07/20/07 12:00	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	640	mg/kg	200	9.8	5	8015B	07/24/07 8:58	jvogel	Q25224
Sample Preparation:				50.3 g	/	2 mL	3550B	07/20/07 17:00	wconder P18962
				Surrogate			% Recovery	Control Limits	
				o-Terphenyl			123	48 - 130	
Sample Weight Determination									
Weight 1	5.29	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	4.74	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	47	mg/kg	5.8	0.60	50	8015B	07/19/07 20:43	hwagner	Q25151
				Surrogate			% Recovery	Control Limits	
				aaa-TFT			101	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



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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-9
 Prism Sample ID: 186811
 COC Group: G0707276
 Time Collected: 07/10/07 12:45
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	78.3	%			1	SM2540 G	07/20/07 12:00	ddixon	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	19	mg/kg	8.9	2.2	1	8015B	07/24/07 8:21	jvogel	Q25224
Sample Preparation:				50.1 g /	2 mL	3550B	07/20/07 17:00	wonder	P18962
				Surrogate		% Recovery		Control Limits	
				o-Terphenyl		124		48 - 130	
<u>Sample Weight Determination</u>									
Weight 1	6.01	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.01	g			1	GRO	07/17/07 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	0.66	50	8015B	07/19/07 21:15	hwagner	Q25151
				Surrogate		% Recovery		Control Limits	
				aaa-TFT		71		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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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 - WBS#
 34406.1.1
 Project No.: WBS# 34406.1.1
 Sample Matrix: Soil

Client Sample ID: NN-10
 Prism Sample ID: 186812
 COC Group: G0707276
 Time Collected: 07/10/07 13:00
 Time Submitted: 07/11/07 16:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	83.8	%			1	SM2540 G	07/20/07 12:00	ddixon	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	6.9 J	mg/kg	9.2	2.2	1	8015B	07/23/07 17:50	jvoget	Q25224
Sample Preparation:			45.18 g	/	2 mL	3550B	07/20/07 17:00	wconder	P18962
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	122	48 - 130	
Sample Weight Determination									
Weight 1	5.13	g			1	GRO	07/17/07 0:00	lbrown	
Weight 2	6.11	g			1	GRO	07/17/07 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	0.62	50	8015B	07/19/07 21:46	hwagner	Q25151
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	80	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.

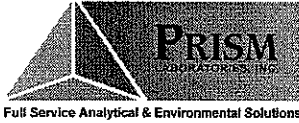
All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
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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 - WBS#
 Project No.: 34406.1.1
 WBS# 34406.1.1

COC Group Number: G0707276
 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				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

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

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Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/529-0409

Client Company Name: EA274 Text

Reporting Address: 201 Corporate Center Dr.

5 E 475 Raleigh NC 27607

Phone: 919 854 6230 Fax: (919) 998 5462 59

Email: (919) 998 5462 59 Email Address: MIKE.BRAUNSON@PRISMLABORATORIES.COM

EDD Type: PDF Excel Other

Site Location Name: _____

Site Location Physical Address: _____

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: _____

Short Hold Analysis: (Yes) (No)

*Please ATTACH any project specific reporting (QC LEVEL III III IV) provisions and/or QC Requirements

Invoice To: PCDOT

Address: _____

UST Project: (Yes) (No)

Purchase Order No./Billing Reference: CUBS # 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: INFACT upon arrival? YES NO N/A

Received ON WET ICE? Temp: 5°C

PROPER PRESERVATIVES indicated?

Received WITHIN HOLDING TIMES?

CUSTODY SEALS: INFACT?

VOLATILES rec'd w/OUT HEADSPACE?

PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

Water Chlorinated: YES NO N/A

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				
NU-1	7/10/07	1015	Soil	CG	3	4oz/box	MeOH	✓		186303
NU-2	7/10/07	1030	Soil	CG	3	4oz/box	MeOH	✓		186304
NU-3	7/10/07	1100	Soil	CG	3	4oz/box	MeOH	✓		186305
NU-4	7/10/07	1115	Soil	CG	3	4oz/box	MeOH	✓		186306
NU-5	7/10/07	1130	Soil	CG	3	4oz/box	MeOH	✓		186307
NU-6	7/10/07	1200	Soil	CG	3	4oz/box	MeOH	✓		186308
NU-7	7/10/07	1215	Soil	CG	3	4oz/box	MeOH	✓		186309
NU-8	7/10/07	1230	Soil	CG	3	4oz/box	MeOH	✓		186310
NU-9	7/10/07	1245	Soil	CG	3	4oz/box	MeOH	✓		186311
NU-10	7/10/07	1300	Soil	CG	3	4oz/box	MeOH	✓		186312

Sampler's Signature: M. Braunson Sampled By (Print Name): M. Braunson Affiliation: EA274 Text

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. Braunson Received By (Signature): EA274 Text

Relinquished By (Signature): EA274 Text Received By (Signature): EA274 Text

Relinquished By (Signature): EA274 Text Received For Prism Laboratories By: EA274 Text

Relinquished By (Signature): EA274 Text Date: 7/11/07 Military/Hours: 1330

Relinquished By (Signature): EA274 Text Date: 7/11/07 Military/Hours: 1435

Method of Shipment: Hand-Delivered Note: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Method of Shipment: Hand-Delivered Note: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

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Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

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