

December 9, 2009

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

Reference: Preliminary Site Assessment
WF Intermediate Real Estate LLC Property (Parcel #171)
7815 Valley Boulevard (US 321)
Blowing Rock, Watauga County, North Carolina
NCDOT Tip No. R-2237C
WBS Element 34402.1.1
AECOM Project No. 60143190

Dear Mr. Caldwell:

AECOM Technical Services of North Carolina, Inc., (AECOM) 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 November 2, 2009, and the North Carolina Department of Transportation's (NCDOT's) Notice to Proceed dated November 2, 2009. 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 WF Intermediate Real Estate LLC Property (Parcel #171) is located at 7815 Valley Boulevard (US 321) in Blowing Rock, Watauga County, North Carolina. The property is situated at the northeastern intersection of Valley Boulevard and Sunset Drive (Figure 1). Based on information supplied by the NCDOT and the site visit, AECOM understands that the site is an active gas station/convenience store (Scotchman #103) where five known underground storage tanks (USTs) are present. These USTs include three 8,000-gallon gasoline tanks, one 4,000-gallon diesel fuel tank, and one 4,000-gallon kerosene tank. The structures on the property consist of one block building with an asphalt parking lot in front. The USTs are located in front of the building (Figure 2). The NCDOT has advised that the right-of-way/easement will affect the entire property and it will be a total take. Because of the presence of the USTs, the NCDOT requested a Preliminary Site Assessment. The scope of work as defined in the Request for Technical and Cost Proposal was to evaluate the site with respect to the presence of known and

unknown USTs and assess where contamination exists on the property. An estimate of the quantity of impacted soil was to be provided.

AECOM reviewed the North Carolina Department of Environment and Natural Resources (NCDENR) Incident Management database and no Incident Number has been assigned to the property. AECOM also reviewed the UST registration database to obtain UST ownership information. According to the database, the USTs on the property were operated under Facility Number 0-005104. The operator and owner of the tanks are listed as follows:

Owner

RI CS5 LLC
600 La Terrazo Blvd
Escondido, California 92025
(760) 741-2111

Operator

Scotchman 103
7815 Valley Blvd
Blowing Rock, North Carolina 28605
(910) 395-5300

Geophysical Survey

Prior to AECOM's mobilization to the site, Pyramid Environmental conducted a geophysical survey as part of this project to evaluate if USTs, other than those known and identified, 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 Valley Boulevard and the Y-axis oriented approximately perpendicular to Valley Boulevard. The grid was located to cover the accessible portions of the proposed right-of-way. The survey lines were spaced 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 such a survey was considered necessary.

Access was available to all areas of the proposed right-of-way/easement on the property and several anomalies were detected with the geophysical survey. Some of these anomalies were attributed to buried utility lines or conduits, or vehicles. However, several of the anomalies were consistent with USTs. Based on the geophysical signatures and site observations, the anomalies in front of the building have been classified as known USTs because of registration and the presence of fill ports and vent pipes, and one of the anomalies was classified as a probable UST because of the presence of a fill port. The probable UST is located at the rear of the building and is consistent in size and location to a heating oil UST. A detailed report of findings and interpretations is presented in Attachment A. The locations of the anomalies are shown in Figure 2.

Site Assessment Activities

On November 18, 2009, AECOM mobilized to the site to conduct a Geoprobe[®] direct push investigation to evaluate soil conditions within the proposed right-of-way/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 4-foot long acetate sleeves inside the direct push sampler. Each of these sleeves was divided into 2-foot long sections for soil sample screening. Each 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 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).

Twelve direct-push holes (SN-1 through SN-12) were advanced throughout the accessible portions of the property to depths ranging from 2 to 12 feet as shown in Figure 2 and Attachment B. The borings were located to evaluate the entire property; however, no access was available for drilling equipment for the rear of the building and no borings could be advanced in the area of the probable heating oil UST (Attachment C). Borings SN-1 through SN-6 were located to evaluate the soil conditions in the UST area, borings SN-7 and SN-8 were placed to evaluate soil conditions in the pump island area, and borings SN-9 through SN-12 were positioned to evaluate the horizontal extent of potential contamination. The lithology encountered by the direct-push samples indicated reworked soils in that no stratigraphic unit was consistent throughout the site. The ground surface was covered with about 3 inches of asphalt/gravel or topsoil. Below the surface to a depth of 4 to 8 feet was either a medium to dark brown silt/clay/gravel or a medium to dark gray sand/clay. Below this lithology was a medium to dark brown sand/clay. With the exception of borings SN-1 and SN-12, all the borings were terminated at a depth of 8 feet where groundwater was encountered. Borings SN-1 and SN-12 were terminated at 2 and 12 feet, respectively, as the result of equipment refusal on bedrock. Groundwater was encountered in all the borings at a depth of 7 to 8 feet except SN-12 where no groundwater was observed. Based on field screening, soil samples were submitted for laboratory analysis, which are summarized in Table 1. Following the completion of each boring, it was backfilled in accordance with 15A NCAC 2C.

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 nine of the twelve soil samples collected from the site (Figure 3). Soil samples from all the borings except SN-8, SN-9, and SN-12 contained DRO or GRO concentrations above the method quantitation

limit. 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. The DRO concentrations and/or GRO concentrations in the soil sample from borings SN-1, SN-2, SN-4, SN-5, SN-6, SN-7, SN-10, and SN-11 were present at concentrations above the 10 mg/kg assumed action level.

Conclusions and Recommendations

A Preliminary Site Assessment was conducted to evaluate the WF Intermediate Real Estate LLC Property (Parcel #171) located at 8487 Valley Boulevard in Blowing Rock, Watauga County, North Carolina. Twelve soil borings were advanced to evaluate the soil conditions throughout the site. 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 eight of the twelve 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 SN-1, SN-2, SN-4, SN-5, SN-6, SN-7, SN-10, and SN-11 contained TPH concentrations identified as DRO and GRO above the assumed action level. A review of the field screening readings (Table 1) and Figure 3 suggests that the thickness of the potentially contaminated soil ranges from about 2 to 8 feet. When comparing the contamination thickness to the boring locations, the plume shown in Figure 3 can be equally divided into three distinct portions of equal area; 1) the eastern third has a contamination thickness of 2 feet, 2) the central third has a contamination thickness of 8 feet, and 3) the western third has a contamination thickness of 4 feet. AECOM measured the affected area by using CADD software, which indicated a total section of about 6,831 ft². As a result, each third has an area of about 2,277 ft². For the 2-foot thick contamination area, this calculates to a volume of 169 cubic yards; for the 8-foot thick contamination area, this calculates to a volume of 675 cubic yards; and for the 4-foot thick contamination area this calculates to a volume of 337 cubic yards, and. The total calculated volume for the site is 1,181 cubic yards. 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.

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AECOM appreciates the opportunity to work with the NCDOT on this project. Because compounds were detected above the applicable action levels in the soil samples, AECOM recommends that a copy of this report be submitted to the Division of Waste Management, UST Section, in the Winston-Salem 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
WF INTERMEDIATE REAL ESTATE LLC PROPERTY (PARCEL #171)
BLOWING ROCK, WATAUGA COUNTY, NORTH CAROLINA
NCDOT PROJECT NO. R-2237C
WBS ELEMENT 34402.1.1
AECOM PROJECT NO. 60143190

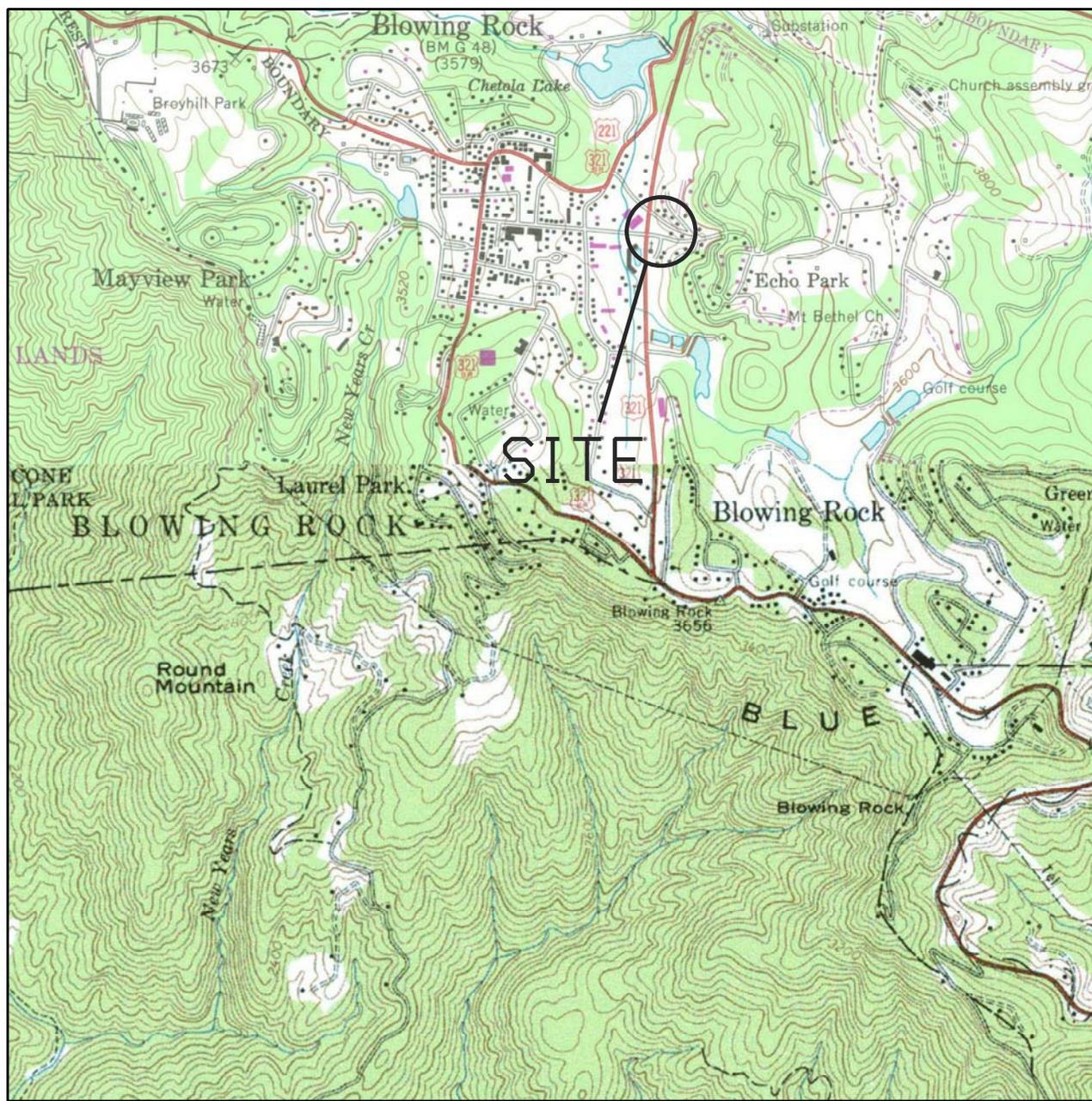
LOCATION	DEPTH (ft)	FID READING (ppm)	SAMPLE ID	ANALYTICAL RESULTS (mg/kg)	ASSUMED ACTION LEVEL (mg/kg)
SN-1	0 - 2	330	SN-1	DRO (43) GRO (120)	10 10
SN-2	0 - 2	318			
	2 - 4	141,400	SN-2	DRO (410) GRO (4,300)	10 10
	4 - 6	315,000			
	6 - 8	69,300			
SN-3	0 - 2	0.86			
	2 - 4	0.91			
	4 - 6	1.41			
	6 - 8	5.57	SN-3	DRO (9.7) GRO (BQL)	10 10
SN-4	0 - 2	15.61			
	2 - 4	54			
	4 - 6	351			
	6 - 8	478	SN-4	DRO (BQL) GRO (19)	10 10
SN-5	0 - 2	103			
	2 - 4	51			
	4 - 6	133			
	6 - 8	11,200	SN-5	DRO (34) GRO (26)	10 10
SN-6	0 - 2	422			
	2 - 4	52,400	SN-6	DRO (500) GRO (3,500)	10 10
	4 - 6	43,100			
	6 - 8	19,100			
SN-7	0 - 2	2,967			
	2 - 4	254			
	4 - 6	1,202			
	6 - 8	3,342	SN-7	DRO (22) GRO (140)	10 10
SN-8	0 - 2	0.93			
	2 - 4	7.85	SN-8	DRO (BQL) GRO (BQL)	10 10
	4 - 6	0.99			
	6 - 8	0.76			
SN-9	0 - 2	0.81			
	2 - 4	0.81	SN-9	DRO (BQL) GRO (BQL)	10 10
	4 - 6	0.75			
	6 - 8	0.74			
SN-10	0 - 2	4.25			
	2 - 4	1.13			
	4 - 6	17.46			
	6 - 8	44	SN-10	DRO (9.4) GRO (16)	10 10
SN-11	0 - 2	94			
	2 - 4	26			
	4 - 6	8,104	SN-11	DRO (BQL) GRO (27)	10 10
	6 - 8	74			
SN-12	0 - 2	0.72			
	2 - 4	0.73			
	4 - 6	0.68			
	6 - 8	0.75	SN-12	DRO (BQL) GRO (BQL)	10 10
	8 - 10	0.67			
	10 - 12	0.68			

Soil samples were collected on November 18, 2009.

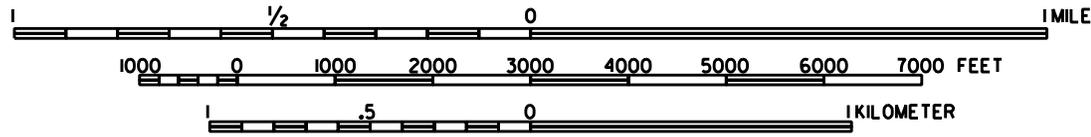
DRO - Diesel range organics.
GRO - Gasoline range organics.
BQL - Below quantitation limit.
ppm - parts per million.
mg/kg - milligrams per kilogram.



FIGURES



SCALE 1:24,000

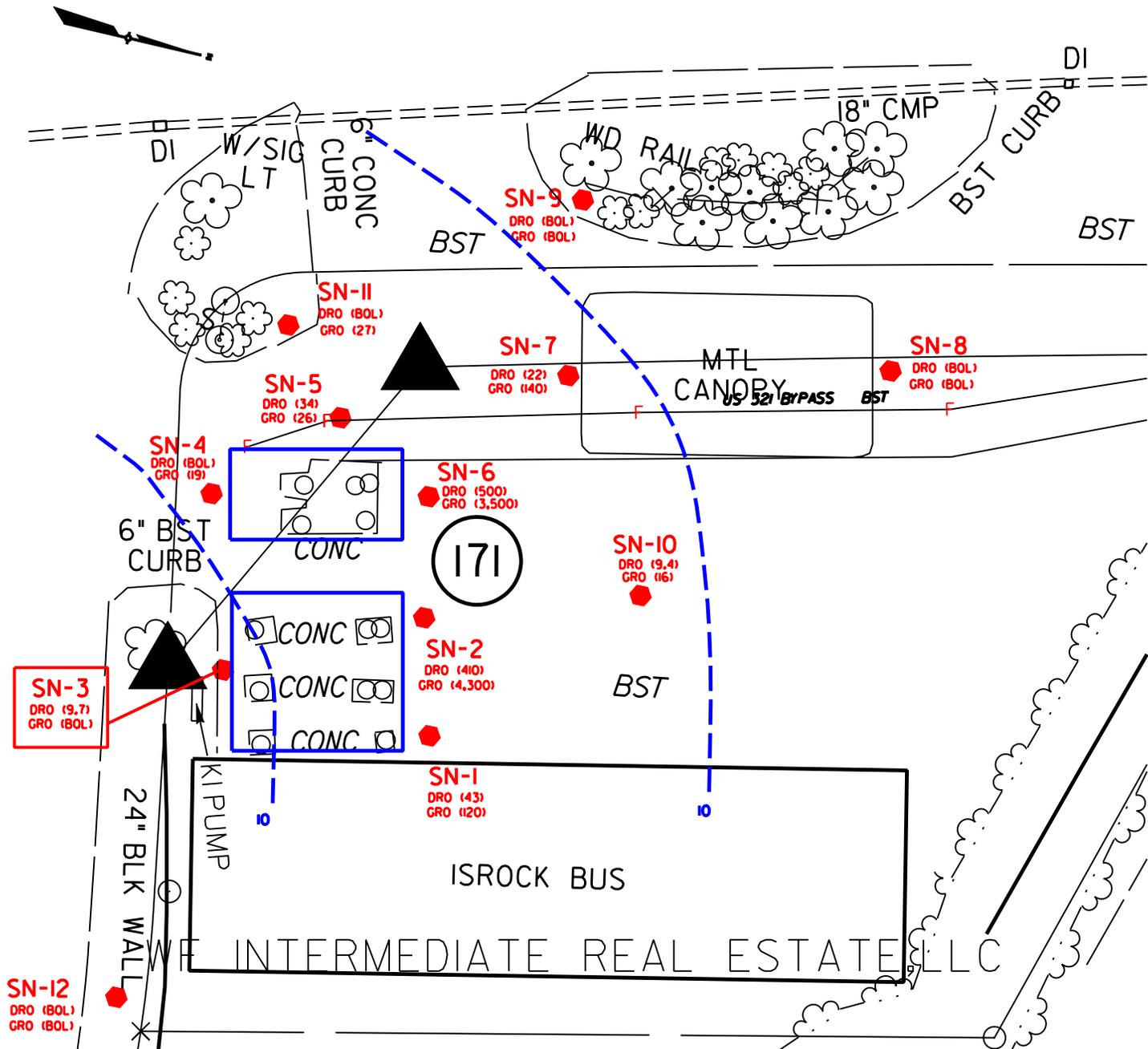


SOURCE: U.S. GEOLOGICAL SURVEY 7.5 MIN QUADRANGLE: GLOBE, NC (1959) AND BOONE, NC (REV 1978)



FIGURE I
VICINITY MAP
WF INTERMEDIATE REAL ESTATE LLC PROPERTY (PARCEL #17I)
BLOWING ROCK, WATAUGA COUNTY NORTH CAROLINA
NOVEMBER 2009

60143190



SN-1

LEGEND



SOIL SAMPLE LOCATION AND IDENTIFICATION



GEOPHYSICAL ANOMALY INDICATING POSSIBLE/KNOWN USTS

DRO (123)

TPH AS DIESEL FUEL IN MG/KG

GRO (123)

TPH AS GASOLINE IN MG/KG

BQL

BELOW QUANTITATION LIMIT



TPH ISOCONCENTRATION CONTOUR IN MG/KG



FIGURE 3

SOIL ANALYTICAL RESULTS MAP

WF INTERMEDIATE REAL ESTATE LLC PROPERTY (PARCEL #171)
 BLOWING ROCK, WATAUGA COUNTY, NORTH CAROLINA

NOVEMBER 2009

60143190

ATTACHMENT A

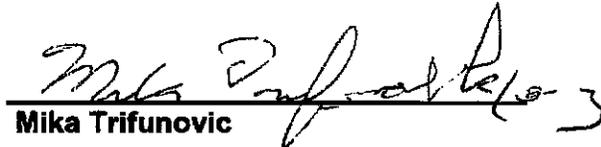
GEOPHYSICAL INVESTIGATION REPORT

EM61 & GPR SURVEYS

**WF INTERMEDIATE REAL ESTATE, LLC PROPERTY – PARCEL 171
Blowing Rock, North Carolina**

December 7, 2009

**Report prepared for: Michael W. Branson, PG
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Mika Trifunovic

Reviewed by: 
Douglas Canavello, PG

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AECOM Environment
GEOPHYSICAL INVESTIGATION REPORT
WF INTERMEDIATE REAL ESTATE, LLC PROPERTY – PARCEL 171
Blowing Rock, North Carolina

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FIGURES

Figure 1	Geophysical Equipment & Site Photographs
Figure 2	EM61 Metal Detection - Bottom Coil Results
Figure 3	EM61 Metal Detection - Differential Results
Figure 4	GPR Images Across Known & Probable USTs

1.0 INTRODUCTION

Pyramid Environmental conducted geophysical investigations for AECOM Environment across the accessible portions of the WF Intermediate Real Estate, LLC property (Parcel 171) located at 7815 Valley Boulevard (NC-321) in Blowing Rock, North Carolina. The property contains the active Mobil-Scotchman gas station and store with the majority of the survey area comprising of asphalt and grass surfaces.

The geophysical investigation was conducted on November 10 and 13, 2009 to determine if unknown, metallic underground storage tanks (USTs) were present beneath the site and to delineate the foot prints of the known and active USTs. On the morning of November 9, 2009, AECOM Environment representative Mr. Michael Branson, PG identified the geophysical survey area to Pyramid Environmental personnel. The geophysical survey area had a maximum length and width of 190 feet and 165 feet, respectively and covered the accessible portions of the property. Photographs of the geophysical equipment used in this investigation and the geophysical survey area at the WF Intermediate Real Estate, LLC property are shown in **Figure 1**.

In this report a geophysical survey refers to establishing a grid coordinate system across an area of interest and the geophysical data is then collected and later processed and reviewed in the office. A geophysical reconnaissance refers to briefly scanning an accessible area of interest and viewing the data in real time. A grid coordinate system is not established when conducting a geophysical recon.

2.0 FIELD METHODOLOGY

Prior to conducting the geophysical investigation, a 10-foot by 10-foot survey grid was established across the geophysical survey area using measuring tapes, pin flags and water-based marking paint. These grid 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 survey was performed on November 10, 2009 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. Smaller objects (1-foot or less in size) can be detected to a maximum depth of 4 to 5 feet. All of the EM61 data were digitally collected at approximately 0.8 foot intervals along northerly-southerly, parallel survey lines spaced five feet apart. All of the data were downloaded to a computer and reviewed in the field and office using the Geonics DAT61W and Surfer for Windows Version 7.0 software programs.

GPR surveys were conducted on November 13, 2009 across selected EM61 differential anomalies using a GSSI SIR-2000 unit equipped with a 400 MHz antenna. Data were digitally collected in a continuous mode along X-axis and/or Y-axis survey lines, spaced 2.5 to 5.0 feet apart using a vertical scan of 512 samples, at a rate of 48 scans per second. A 70 MHz high pass filter and an 800 MHz low pass filter were used during data acquisition with the 400 MHz antenna. A GPR reconnaissance was conducted across the areas adjacent to the sides and back of the store building and in between vehicles. GPR survey and reconnaissance data were collected down to a maximum depth of approximately 6 feet, based on an estimated two-way travel time of 8 nanoseconds per foot. All of the GPR data were downloaded to a field computer and reviewed in the field and office using Radprint software.

Contour plots of the EM61 bottom coil and differential results 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 drum and UST-size objects and ignore the smaller insignificant metal objects.

Preliminary geophysical results obtained from Parcel 171 were emailed to Mr. Branson during the week of November 16, 2009.

3.0 DISCUSSION OF RESULTS

The linear, EM61 bottom coil anomalies intersecting grid coordinates X=20 Y=120 and X=70 Y=27 are probably in response to buried utility lines. The linear bottom coil anomalies intersecting grid coordinates X=60 Y=85, X=70 Y=68, X=95 Y=90, X=102 Y=65, X=110 Y=40 are possibly in response to buried product lines that run from the active USTs to the pump island area. The linear bottom coil anomalies intersecting grid coordinates X=50 Y=46, X=50 Y=73, X=50 Y=170, and X=60 Y=57 are probably in response to buried utility-related lines or conduits. The wider bottom coil anomaly centered near grid coordinates X=95 Y=110 is possibly in response to several buried lines or conduits.

GPR surveys suggest the high amplitude bottom coil anomaly centered near grid coordinates X=70 Y=120 is probably in response to the steel reinforced concrete and gas pumps that make up the pump island area. The GPR reconnaissance conducted between the parked vehicles along the front of the store building suggests the high amplitude EM61 anomalies centered near grid coordinates X=120 Y=110 are probably in response to steel reinforced concrete beneath the asphalt surface and to the parked vehicles that were present during the EM61 data acquisition.

GPR surveys conducted across the high-amplitude anomalies centered near grid coordinates X=90 Y=55 detected two known metallic USTs. The known USTs are oriented in a northerly-southerly direction and centered near grid coordinates X=86 Y=54 and X=92 Y=57. The GPR data suggest the dimension of the western UST is approximately 24 feet by 6 feet and buried 1.5 feet below present grade. The eastern UST has an approximate dimension of 18 feet by 6 feet and buried 2.0 feet below grade. The approximate foot prints of the two USTs were marked in the field using orange spray paint. The locations of the known USTs are also defined by the visible metallic UST valve covers. The image obtained from GPR survey line Y=50 which crosses the two USTs along with a photograph showing the locations of the USTs are presented in **Figure 4**.

GPR surveys conducted across the high-amplitude anomalies centered near grid coordinates X=115 Y=60 detected two known fiberglass USTs and one known metallic UST. The two fiberglass USTs are oriented in a northerly-southerly direction and centered near grid coordinates X=110 Y=57 and X=119 Y=57. The GPR data suggest the dimension of the two fiberglass USTs are approximately 24 feet by 6 feet and buried 3.5 feet below present grade. The known metallic UST is also oriented in a northerly-southerly direction and is centered near grid coordinates X=127 Y=57.

Similar to the fiberglass UST, the metallic UST appears to have an approximate dimension of 24 feet by 6 feet and buried 3.2 feet below grade. The approximate foot prints of the three known USTs were marked in the field using orange spray paint. The locations of the three USTs are also defined by the visible metallic UST valve covers. The image obtained from GPR survey line Y=60 which crosses the three known USTs along with a photograph showing the locations of the USTs are presented in **Figure 4**.

The GPR reconnaissance conducted immediately north and east of the store building detected a probable metallic UST along the eastern wall and centered near grid coordinates X=166 Y=81. A metallic fill port is also visible at this grid coordinate location. The probable UST appears to be approximately 4.5 feet by 3.5 feet in size and buried 3.5 feet below present grade. However, the probable UST may be orientated in an easterly-westerly direction and a portion of the UST may lie beneath the store building. The image obtained from GPR survey line X=166 which crosses the probable UST along with a photograph showing the location of the probable UST are presented in Figure 4.

The yellow-colored polygons in Figures 2 and 3 represent the approximate foot prints of the five known USTs and the one probable UST that were detected by the GPR investigation. The geophysical investigation suggests that the remaining accessible portions of the survey area at Parcel 171 do not contain buried metallic USTs.

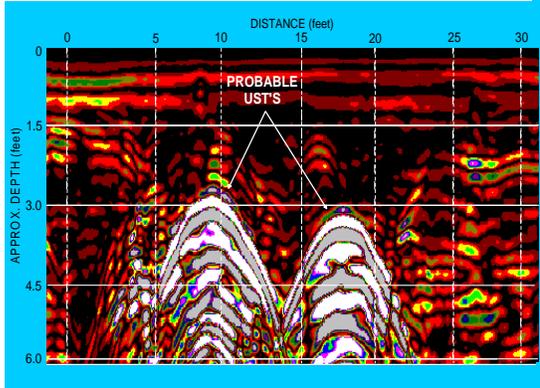
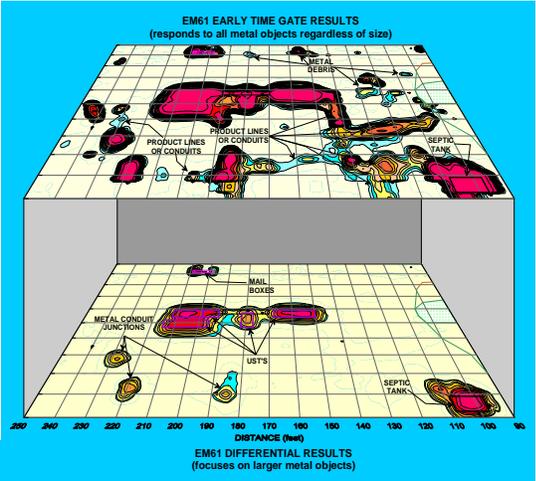
4.0 SUMMARY & CONCLUSIONS

Our evaluation of the EM61 and GPR data collected across the accessible portions of the WF Intermediate Real Estate, LLC property (Parcel 171) located at 7815 Valley Boulevard (NC-321) in Blowing Rock, 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 portion of the site.
- The linear bottom coil anomalies intersecting grid coordinates X=60 Y=85, X=70 Y=68, X=95 Y=90, X=102 Y=65, X=110 Y=40 are possibly in response to buried product lines that run from the active USTs to the pump island area.
- GPR surveys conducted across the high-amplitude anomalies centered near grid coordinates X=90 Y=55 detected two known metallic USTs. The USTs are oriented in a northerly-southerly direction and centered near grid coordinates X=86 Y=54 and X=92 Y=57. The USTs are buried approximately 1.5 and 2.0 feet below present grade, respectively.
- GPR surveys conducted across the high-amplitude anomalies centered near grid coordinates X=115 Y=60 detected two known fiberglass USTs and one known metallic UST. The two fiberglass USTs are oriented in a northerly-southerly direction and centered near grid coordinates X=110 Y=57 and X=119 Y=57. The metallic UST is also oriented in a northerly-southerly direction and centered near grid coordinates X=127 Y=57. The three known USTs are approximately 24 feet by 6 feet in size and buried 3.2 to 3.5 feet below present grade.
- The GPR reconnaissance conducted immediately north and east of the store building detected a probable metallic UST along the eastern wall and centered near grid coordinates X=166 Y=81. The probable UST appears to be approximately 4.5 feet by 3.5 feet in size and buried 3.5 feet below present grade. However, the probable UST may be orientated in an easterly-westerly direction and a portion of the UST may lie beneath the store building.

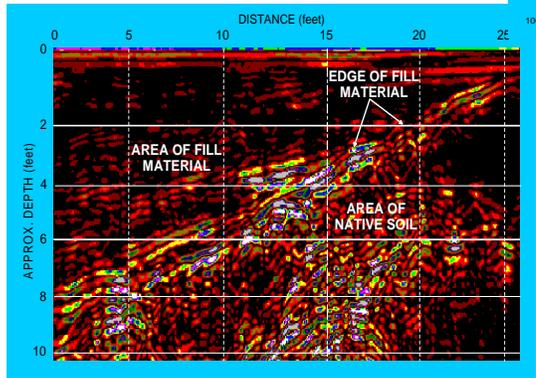
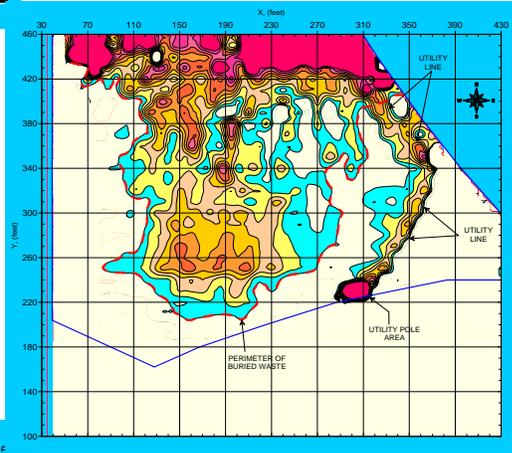
5.0 LIMITATIONS

EM61 and GPR surveys have been performed and this report prepared for AECOM Environment in accordance with generally accepted guidelines for EM61 and GPR surveys. It is generally recognized that the results of the EM61 and GPR surveys are non-unique and may not represent actual subsurface conditions. The EM61 and GPR results obtained for this project may not have detected all of the known, probable or possible USTs within the survey area but that the investigation did detect three known metallic USTs, two known fiberglass USTs and one probable metallic UST.



FIGURES
(on the following pages)

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



The photograph shows the Geonics EM61 metal detector that was used to conduct the metal detection survey across the WF Intermediate Real Estate, LLC property (Parcel 171) on November 10, 2009.



The photographs show the SIR-2000 GPR system equipped with a 400 MHz antenna that were used to conduct the ground penetrating radar investigation at Parcel 171 on November 13, 2009.

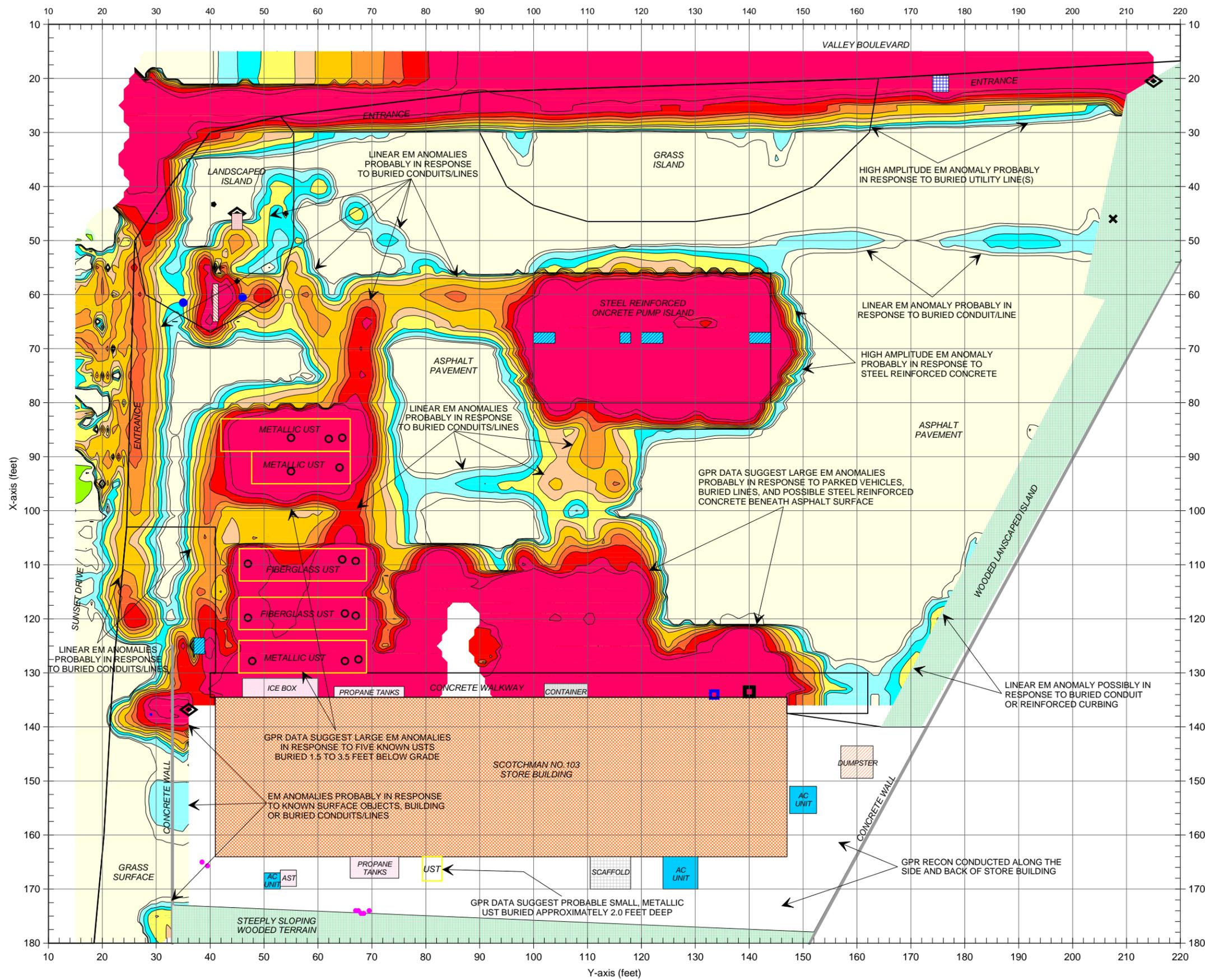


The photograph shows the WF Intermediate Real Estate, LLC property (Parcel 171) located on the east side of Valley Boulevard in Blowing Rock, North Carolina. The photograph is viewed in a northerly direction.



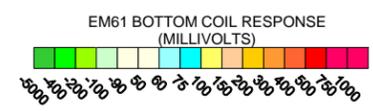
CLIENT	AECOM ENVIRONMENT		DATE	12/07/09	BY	MJD
SITE	WF INTERMEDIATE REAL ESTATE, LLC - PARCEL 171		LAY		OPND	
CITY	BLOWING ROCK	STATE	NORTH CAROLINA	ENG		
TITLE	GEOPHYSICAL RESULTS		NO	2009-283	PROJ#	

GEOPHYSICAL EQUIPMENT & SITE PHOTOGRAPHS



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS TRENDING LINES SPACED 5 FEET APART
- ▨ BUILDING
- ▧ GAS/KEROSENE PUMP
- ▩ ELECTRICAL BOX
- ▩ STORM SEWER GRATE
- ⊕ GUY WIRE
- ◇ PROPOSED RIGHT-OF-WAY MARKER
- UST VALVE COVER
- ◇ UTILITY POLE
- ▩ WATER METER BOX
- ⬛ ROAD SIGN
- UST VENT PIPE
- GROUND LIGHT
- ▩ BUSINESS SIGN
- ▩ UST PROBABLE UST, AS SUGGESTED BY GPR DATA



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 November 10, 2009 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on November 13, 2009 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

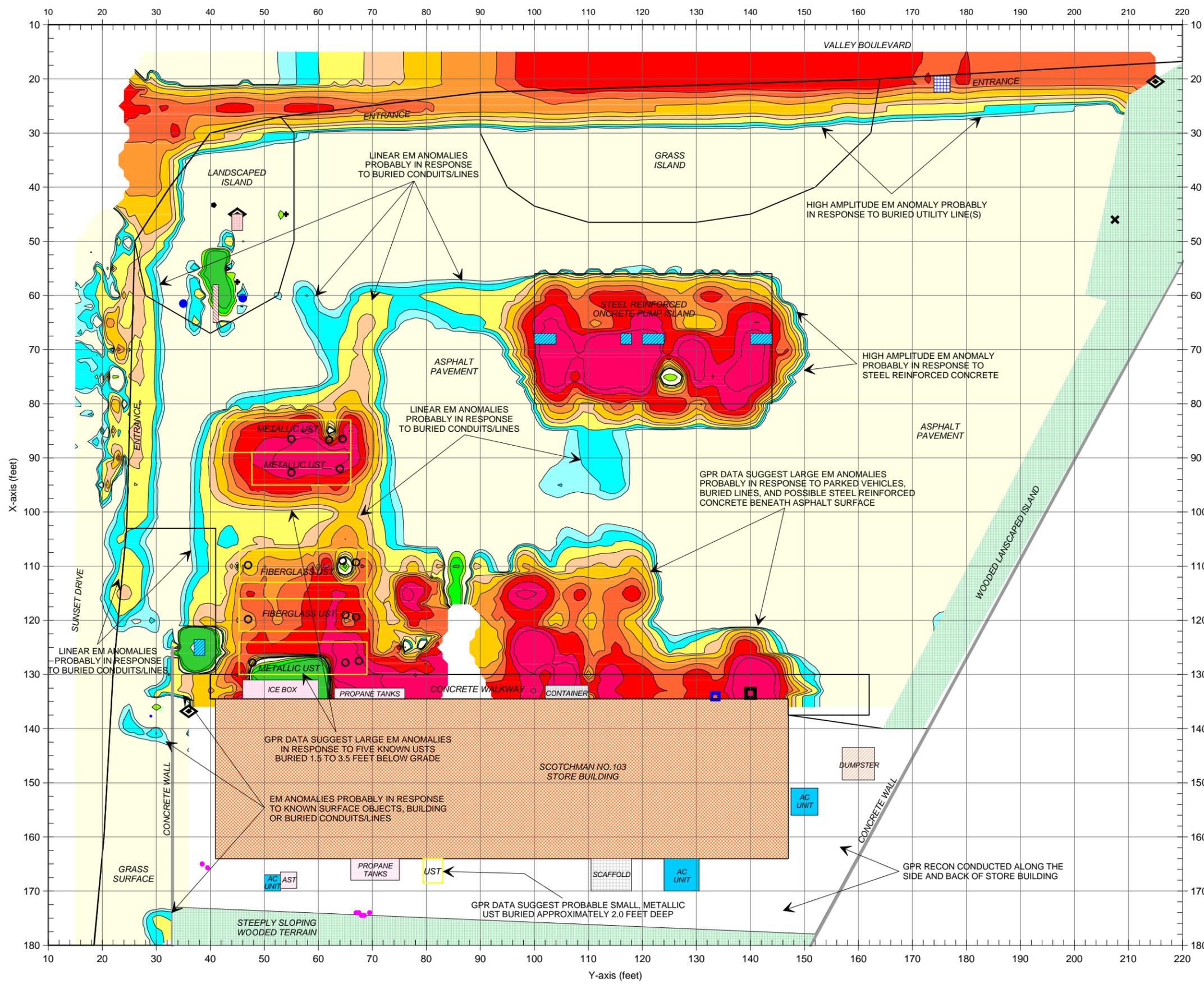
The geophysical investigation detected 3 known metallic USTs, 2 known fiberglass USTs and 1 probable metallic UST within the surveyed portion of Parcel 171.

EM61 METAL DETECTION (BOTTOM COIL RESULTS)

FIGURE 2

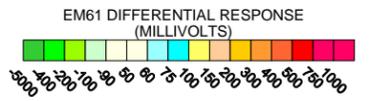
GRAPHIC SCALE IN FEET	
MJD	DATE
12/07/09	12/07/09
DRWN	CHKD
FIGURE	FIGURE
2009-283	2009-283
L-NO.	L-NO.
AECOM ENVIRONMENT	
WF INTERMEDIATE REAL ESTATE, LLC - PARCEL 171	
BLOWING ROCK	NORTH CAROLINA
GEOPHYSICAL RESULTS	

PYRAMID
ENVIRONMENTAL & ENGINEERING, P.C.



LEGEND

- SURVEY AREA: EM61 DATA ACQUIRED ALONG X-AXIS TRENDING LINES SPACED 5 FEET APART
- BUILDING
- GAS/KEROSENE PUMP
- ELECTRICAL BOX
- STORM SEWER GRATE
- GUY WIRE
- PROPOSED RIGHT-OF-WAY MARKER
- UST VALVE COVER
- UTILITY POLE
- WATER METER BOX
- ROAD SIGN
- UST VENT PIPE
- GROUND LIGHT
- BUSINESS SIGN
- UST PROBABLE UST, AS SUGGESTED BY GPR DATA



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 November 10, 2009 using a Geonics EM61 instrument. Ground penetrating radar (GPR) data were acquired on November 13, 2009 using a Geophysical Survey Systems SIR 2000 instrument with a 400 MHz antenna.

The geophysical investigation detected 3 known metallic USTs, 2 known fiberglass USTs and 1 probable metallic UST within the surveyed portion of Parcel 171.

EM61 METAL DETECTION (DIFFERENTIAL RESULTS)

FIGURE 3

AECOM ENVIRONMENT	MJD	12/07/09	DRWN	CHKD	FIGURE
WF INTERMEDIATE REAL ESTATE, LLC - PARCEL 171					2009-283
BLOWING ROCK					
NORTH CAROLINA					
GEOPHYSICAL RESULTS					

ATTACHMENT B

TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u> CLIENT <u>NCDOT</u> PROJECT NUMBER <u>WBS 34402.1.1</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>SN-2</u> PAGE <u>1</u> ELEVATION _____ DATE <u>11/18/09</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			318		3" ASPHALT/GRAVEL, MEDIUM TO DARK GRAY SAND/CLAY, DRY, STRONG ODOR.	
				141,400		AS ABOVE, DRY, STRONG ODOR.
				315,000		AS ABOVE, DRY, STRONG ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
				69,300		AS ABOVE, WET AT 7 FEET, STRONG ODOR.
						BORING TERMINATED AT 8 FEET. GROUNDWATER AT 7 FEET.
10.0						
15.0						
20.0						



TEST BORING REPORT

PROJECT WF INTERMEDIATE PROPERTY (PARCEL 171)
CLIENT NCDOT
PROJECT NUMBER WBS 34402.1.1
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER SN-3
PAGE 1
ELEVATION _____
DATE 11/18/09
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			0.86		3" ASPHALT/GRAVEL, MEDIUM TO LIGHT BROWN SAND/CLAY, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR. AS ABOVE, DRY, NO ODOR. AS ABOVE, WET AT 7 FEET, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS. BORING TERMINATED AT 8 FEET. GROUNDWATER AT 7 FEET.
			0.91		
			1.41		
			5.57		
10.0					
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u> CLIENT <u>NCDOT</u> PROJECT NUMBER <u>WBS 34402.1.1</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>SN-4</u> PAGE <u>1</u> ELEVATION _____ DATE <u>11/18/09</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			15.61		3" ASPHALT/GRAVEL, DARK BROWN SILT/CLAY/GRAVEL TO 1 FOOT. BECOMES LIGHT BROWN TO WHITE CLAYEY MEDIUM-GRAINED SAND, DRY, MODERATE TO STRONG ODOR. AS ABOVE, DRY, MODERATE TO STRONG ODOR. AS ABOVE, DRY, MODERATE TO STRONG ODOR. AS ABOVE, WET AT 8 FEET, MODERATE TO STRONG ODOR. SUBMIT TO LABORATORY FOR ANALYSIS. BORING TERMINATED AT 8 FEET. GROUNDWATER AT 8 FEET.
			54		
10.0			351		
15.0			478		
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u>	BORING NUMBER <u>SN-5</u>
CLIENT <u>NCDOT</u>	PAGE <u>1</u>
PROJECT NUMBER <u>WBS 34402.1.1</u>	ELEVATION _____
CONTRACTOR <u>REGIONAL PROBING</u>	DATE <u>11/18/09</u>
EQUIPMENT <u>GEOPROBE</u>	DRILLER <u>OPPER</u>
	PREPARED BY <u>BRANSON</u>

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			103		3" ASPHALT/GRAVEL, MEDIUM TO DARK GRAY SAND/CLAY, DRY, MODERATE ODOR.
			51		
			133		
5.0			11,200		
10.0					AS ABOVE, DRY, MODERATE ODOR. MEDIUM TO LIGHT BROWN CLAY/SAND/GRAVEL, DRY, MODERATE ODOR. AS ABOVE, WET AT 8 FEET, MODERATE ODOR. SUBMIT TO LABORATORY FOR ANALYSIS. BORING TERMINATED AT 8 FEET. GROUNDWATER AT 8 FEET.
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u> CLIENT <u>NCDOT</u> PROJECT NUMBER <u>WBS 34402.1.1</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>SN-6</u> PAGE <u>1</u> ELEVATION _____ DATE <u>11/18/09</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			422		<p>3" ASPHALT/GRAVEL, MEDIUM TO DARK GRAY SAND/CLAY TO 1 FOOT. BECOMES MEDIUM TO DARK BROWN SAND/CLAY, DRY, MODERATE TO STRONG ODOR.</p> <p>AS ABOVE, DRY, MODERATE TO STRONG ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.</p> <p>AS ABOVE, DRY, MODERATE TO STRONG ODOR.</p> <p>AS ABOVE, WET AT 8 FEET, MODERATE TO STRONG ODOR.</p> <p>BORING TERMINATED AT 8 FEET. GROUNDWATER AT 8 FEET.</p>
			52,400		
			43,100		
			19,100		
10.0					
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u> CLIENT <u>NCDOT</u> PROJECT NUMBER <u>WBS 34402.1.1</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>SN-7</u> PAGE <u>1</u> ELEVATION _____ DATE <u>11/18/09</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			2967		3" ASPHALT/GRAVEL, MEDIUM BROWN SILT/CLAY/GRAVEL, DRY, SLIGHT ODOR.
			254		AS ABOVE, DRY, SLIGHT ODOR.
			1202		AS ABOVE, DRY, SLIGHT ODOR.
			3342		AS ABOVE, DRY, SLIGHT ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
					REFUSAL AT 8 FEET. NO GROUNDWATER ENCOUNTERED.
10.0					
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u> CLIENT <u>NCDOT</u> PROJECT NUMBER <u>WBS 34402.1.1</u> CONTRACTOR <u>REGIONAL PROBING</u> EQUIPMENT <u>GEOPROBE</u>	BORING NUMBER <u>SN-8</u> PAGE <u>1</u> ELEVATION _____ DATE <u>11/18/09</u> DRILLER <u>OPPER</u> PREPARED BY <u>BRANSON</u>
--	---

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS	
5.0			0.93		3" ASPHALT/GRAVEL, MEDIUM TO DARK GRAY SAND/CLAY, DRY, SLIGHT ODOR.	
				7.85		AS ABOVE, DRY, SLIGHT ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
				0.99		AS ABOVE, DRY, SLIGHT ODOR.
				0.76		AS ABOVE, WET AT 8 FEET, SLIGHT ODOR.
10.0						
15.0						
20.0						



TEST BORING REPORT

PROJECT WF INTERMEDIATE PROPERTY (PARCEL 171)
CLIENT NCDOT
PROJECT NUMBER WBS 34402.1.1
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER SN-9
PAGE 1
ELEVATION _____
DATE 11/18/09
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			0.81		3" TOPSOIL, MEDIUM BROWN SAND/CLAY, DRY, NO ODOR.
			0.81		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			0.75		AS ABOVE, DRY, NO ODOR.
			0.74		AS ABOVE, WET AT 7 FEET, NO ODOR.
10.0					
15.0					
20.0					



TEST BORING REPORT

PROJECT WF INTERMEDIATE PROPERTY (PARCEL 171)
CLIENT NCDOT
PROJECT NUMBER WBS 34402.1.1
CONTRACTOR REGIONAL PROBING
EQUIPMENT GEOPROBE

BORING NUMBER SN-11
PAGE 1
ELEVATION _____
DATE 11/18/09
DRILLER OPPER
PREPARED BY BRANSON

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
			94		3" ASPHALT/GRAVEL, MEDIUM TO DARK GRAY SAND/CLAY, DRY, NO ODOR.
			26		AS ABOVE, DRY, NO ODOR.
5.0			8104		MEDIUM TO LIGHT BROWN CLAY/SAND, DRY, MODERATE ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			74		AS ABOVE, WET AT 8 FEET, SLIGHT ODOR.
10.0					BORING TERMINATED AT 8 FEET. GROUNDWATER AT 8 FEET.
15.0					
20.0					



TEST BORING REPORT

PROJECT <u>WF INTERMEDIATE PROPERTY (PARCEL 171)</u>	BORING NUMBER <u>SN-12</u>
CLIENT <u>NCDOT</u>	PAGE <u>1</u>
PROJECT NUMBER <u>WBS 34402.1.1</u>	ELEVATION _____
CONTRACTOR <u>REGIONAL PROBING</u>	DATE <u>11/18/09</u>
EQUIPMENT <u>GEOPROBE</u>	DRILLER <u>OPPER</u>
	PREPARED BY <u>BRANSON</u>

DEPTH IN FEET	CASING BLOWS FOOT	BLOWS PER 6 INCHES	OVA (ppm)	SAMPLE DEPTH RANGE	FIELD CLASSIFICATION AND REMARKS
5.0			0.72		3" ASPHALT/GRAVEL, MEDIUM BROWN SAND/CLAY, DRY, NO ODOR.
			0.73		AS ABOVE, DRY, NO ODOR.
			0.68		AS ABOVE, DRY, NO ODOR.
10.0			0.75		AS ABOVE, DRY, NO ODOR. SUBMIT TO LABORATORY FOR ANALYSIS.
			0.67		AS ABOVE, DRY, NO ODOR.
			0.68		AS ABOVE, DRY, NO ODOR.
15.0					
20.0					REFUSAL AT 12 FEET. NO GROUNDWATER ENCOUNTERED.



ATTACHMENT C

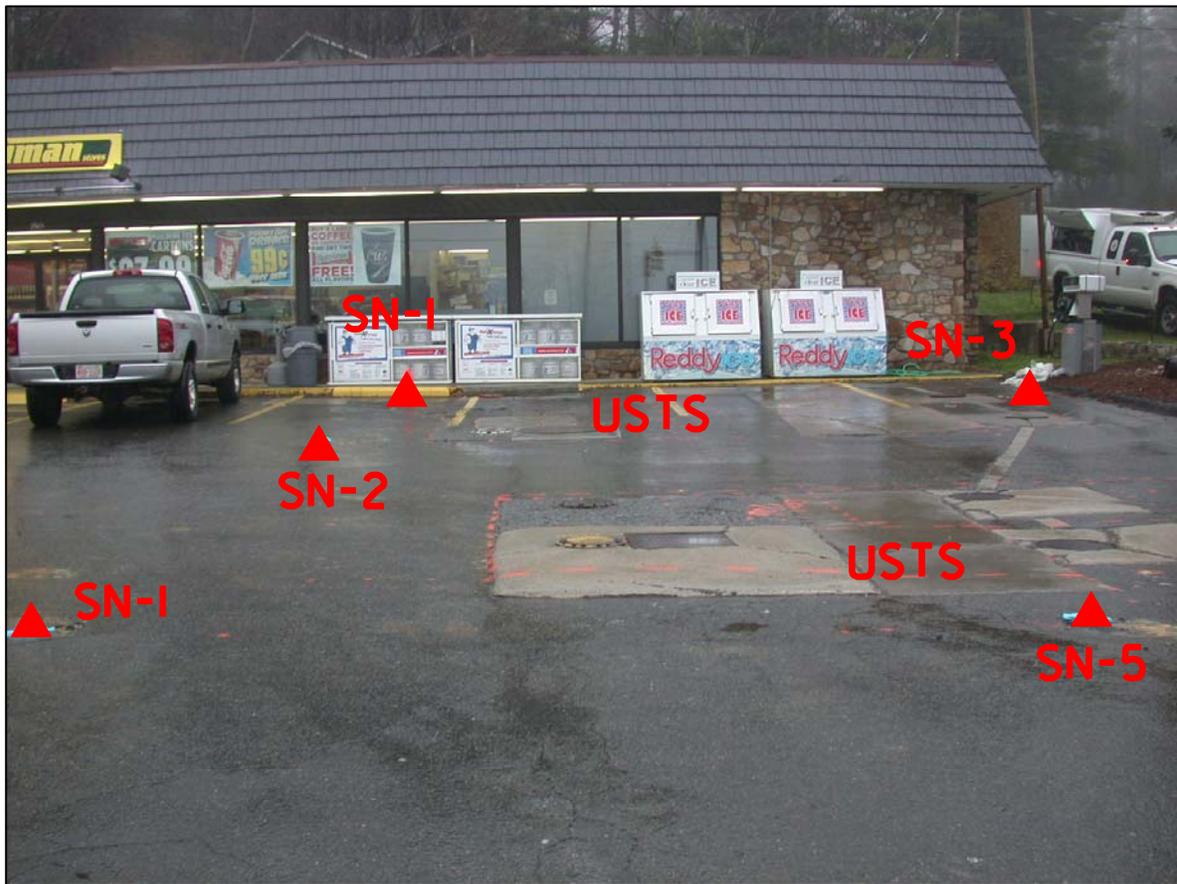


PHOTO 1 - BORINGS AT USTS LOOKING EAST

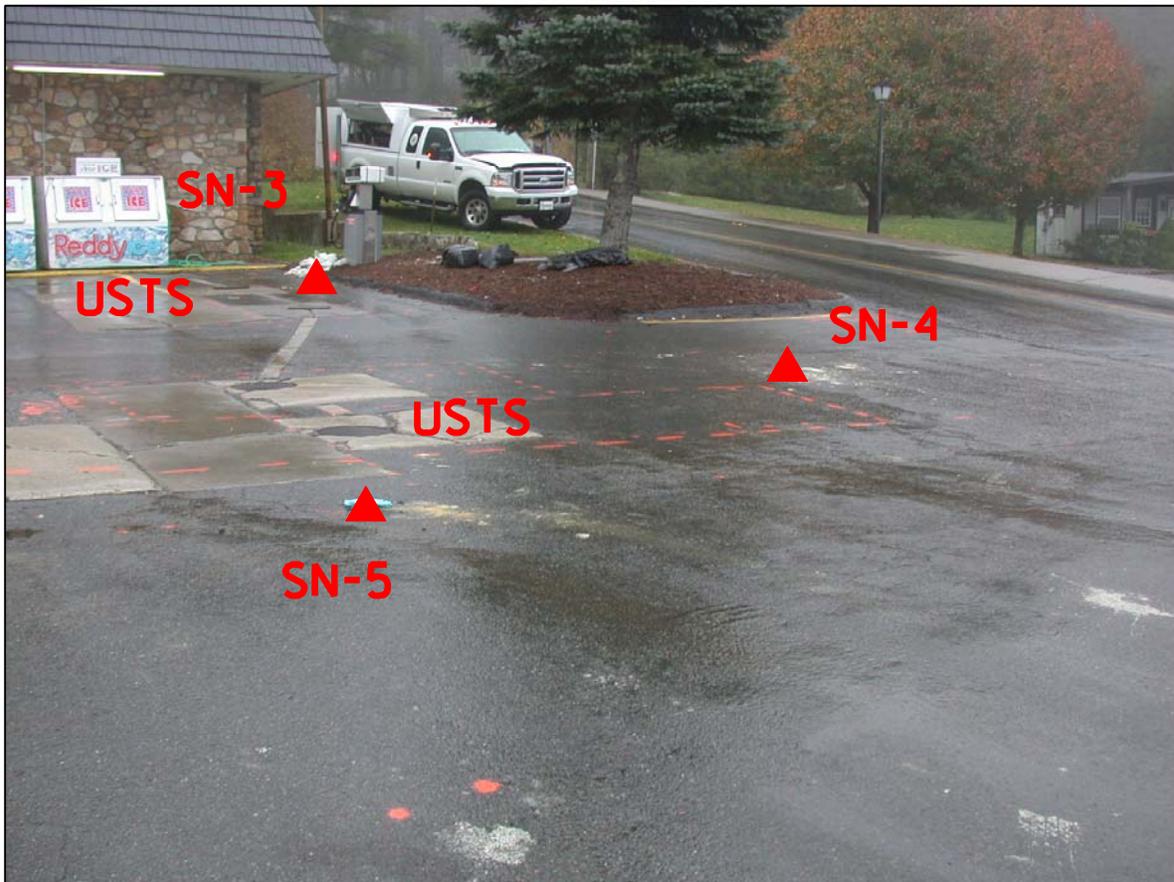


PHOTO 2 - BORINGS AT USTS LOOKING SOUTHEAST

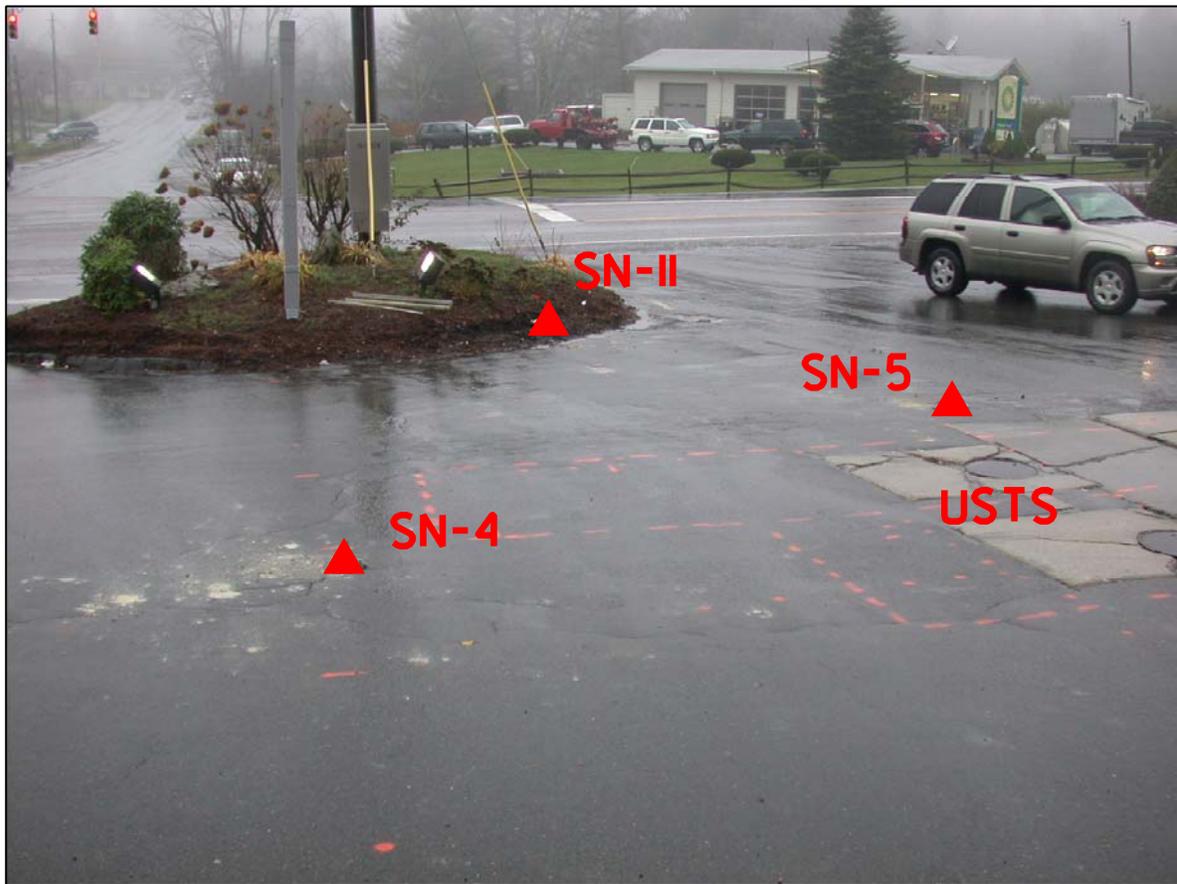


PHOTO 3 - BORINGS AT USTS LOOKING WEST

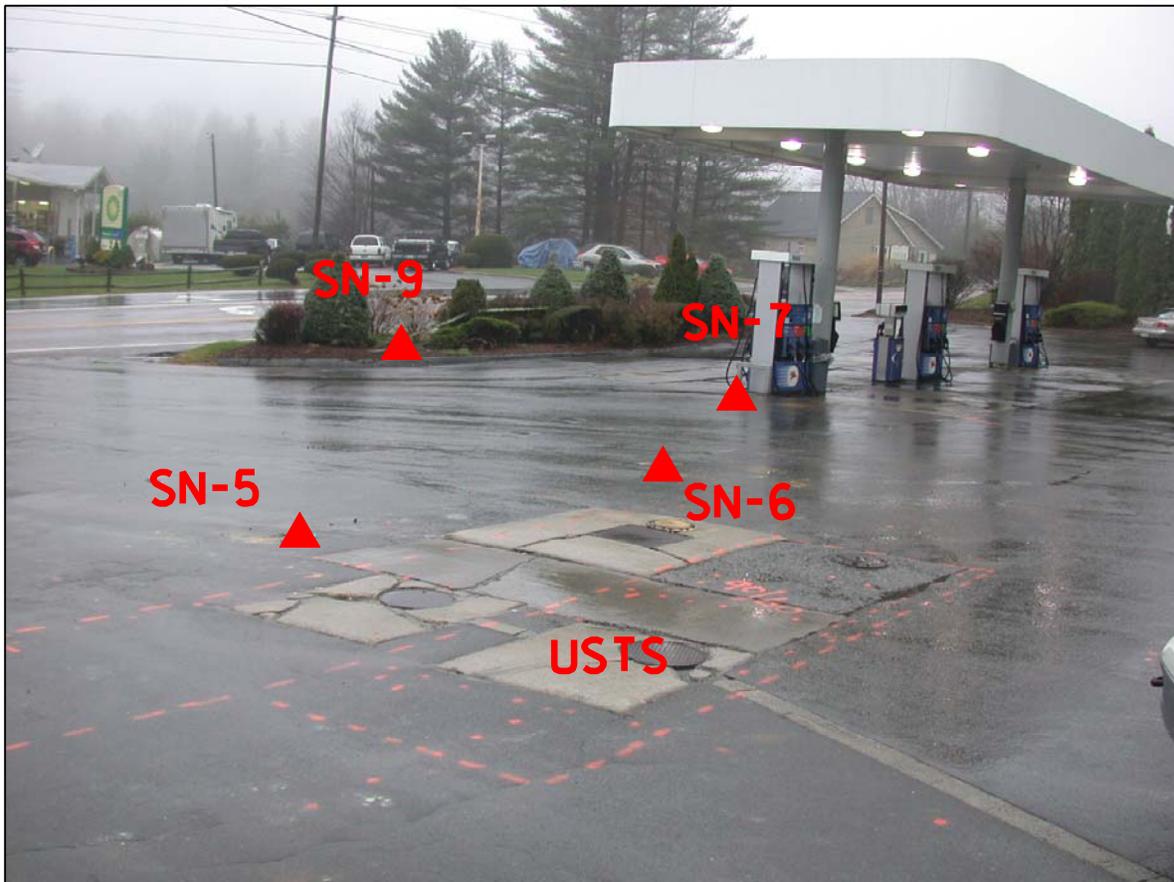


PHOTO 4 - BORINGS AT USTS AND PUMP ISLAND LOOKING NORTHWEST

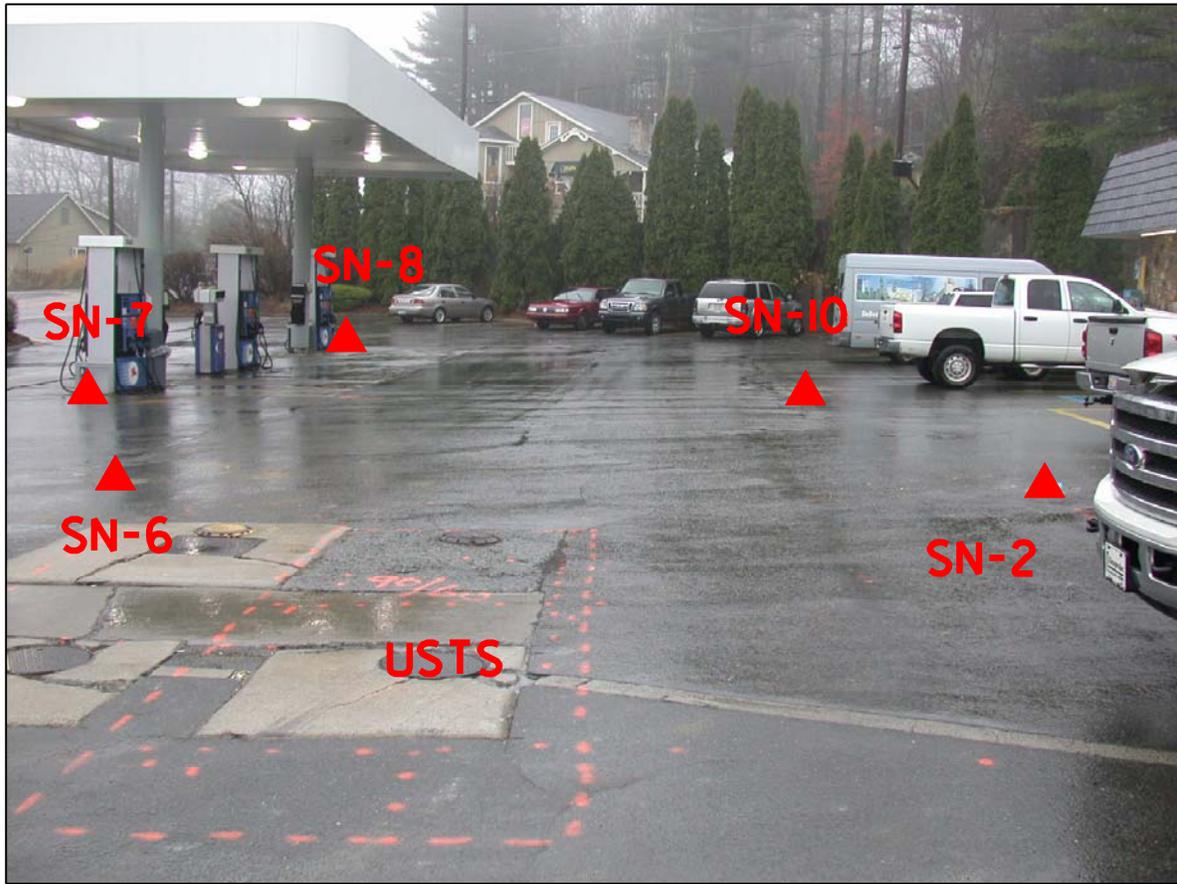


PHOTO 5 - BORINGS AT USTS AND PUMP ISLAND LOOKING NORTH



PHOTO 6 - BORING AT PUMP ISLAND LOOKING WEST



PHOTO 7 - BORING WITHIN R/W LOOKING EAST



PHOTO 8 - PROBABLE UST AT REAR OF BUILDING

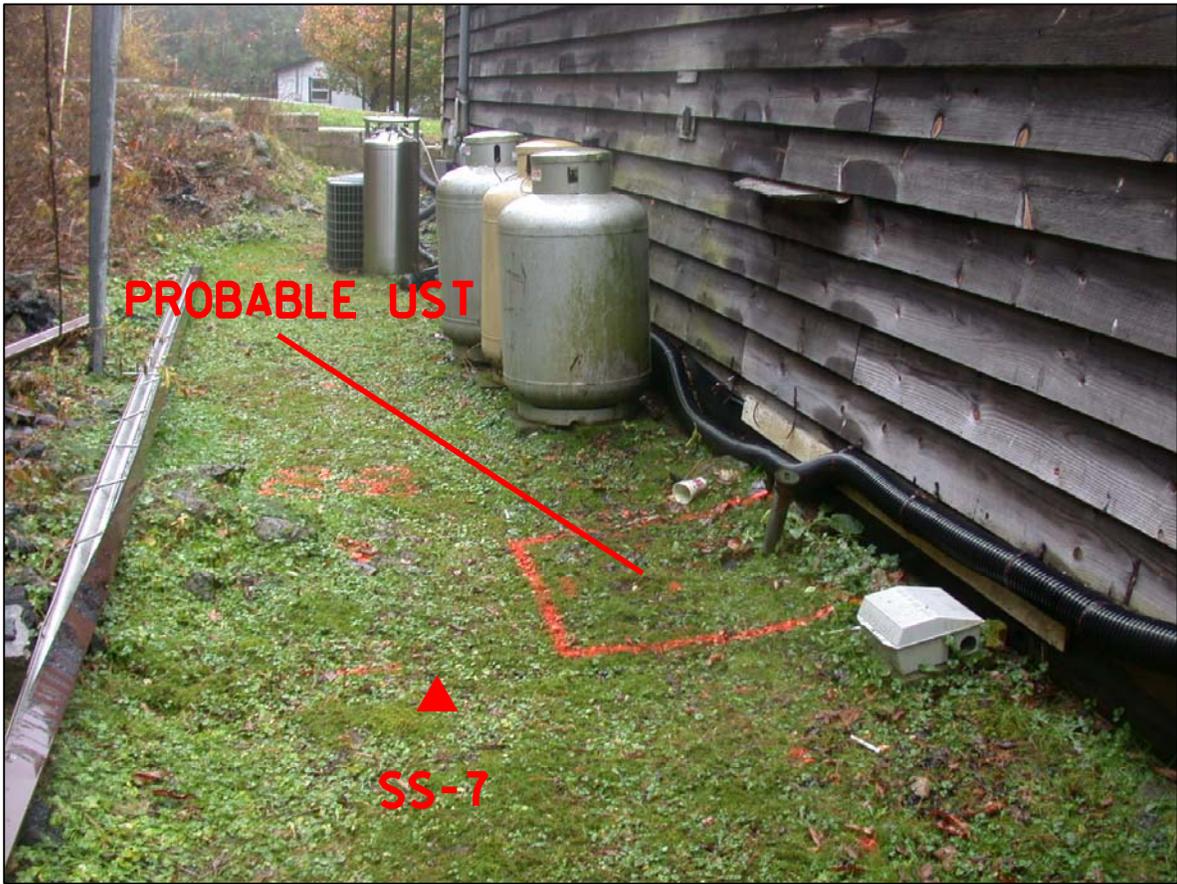
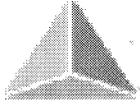


PHOTO 9 - PROBABLE UST AT REAR OF BUILDING

ATTACHMENT D



PRISM
LABORATORIES, INC.

Case Narrative

Date: 12/04/09
Company: N. C. Department of Transportation
Contact: Mike Branson/AECOM Earth Tech
Address: c/o AECOM Technical Services (Earth Tech)
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Client Project ID: NCDOT-Scotchman (WF Intermediate)
Prism COC Group No: G1109597
Collection Date(s): 11/18/09
Lab Submittal Date(s): 11/19/09

Client Project Name Or No: Blowing Rock, NC WBS #34402.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 14 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

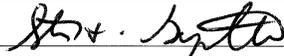
Wet Lab and Micro Analysis

N/A

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

Data Reviewed by: Steven H. Guptill

Project Manager: Robbi A. Jones

Signature: 

Signature: 

Review Date: 12/04/09

Approval Date: 12/04/09

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

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-1
 Prism Sample ID: 264193
 COC Group: G1109597
 Time Collected: 11/18/09 8:15
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
-----------	--------	-------	--------------	-----	-----------------	--------	--------------------	---------	----------

Percent Solids Determination

Percent Solids	86.5	%			1	SM2540 G	11/25/09 14:50	mbarber	
----------------	------	---	--	--	---	----------	----------------	---------	--

Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	43	mg/kg	8.1	1.3	1	8015B	12/01/09 15:05	jvogel	Q46305
-----------------------------	----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 25.01 g / 1 mL 3545 11/30/09 13:00 athao P26158

Surrogate	% Recovery	Control Limits
o-Terphenyl	98	49 - 124

Sample Weight Determination

Weight 1	8.31	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	7.79	g			1	GRO	11/23/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	120	mg/kg	5.8	0.71	50	8015B	11/26/09 5:28	grappaccioli	Q46213
-------------------------------	-----	-------	-----	------	----	-------	---------------	--------------	--------

Surrogate recovery was outside of the control limits. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
aaa-TFT	167 #	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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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

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

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-2
 Prism Sample ID: 264194
 COC Group: G1109597
 Time Collected: 11/18/09 8:30
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	80.1	%			1	SM2540 G	11/25/09 14:50	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	410	mg/kg	44	7.0	5	8015B	12/02/09 1:06	jvogel	Q46305
Sample Preparation:			25.05 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	73	49 - 124	
Sample Weight Determination									
Weight 1	7.52	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.49	g			1	GRO	11/23/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	4300	mg/kg	6.2	160	2000	8015B	11/26/09 8:09	grappaccioli	Q46213
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	DO #	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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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

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

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-3
 Prism Sample ID: 264195
 COC Group: G1109597
 Time Collected: 11/18/09 9:00
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	74.5	%			1	SM2540 G	11/25/09 14:50	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	9.7	mg/kg	9.4	1.5	1	8015B	12/01/09 18:37	jvogel	Q46305
Sample Preparation:			25.07 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	86	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	6.93	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.39	g			1	GRO	11/23/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	0.82	50	8015B	11/26/09 6:01	grappaccioli	Q46213
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	102	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

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-4
 Prism Sample ID: 264196
 COC Group: G1109597
 Time Collected: 11/18/09 9:15
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	82.0	%			1	SM2540 G	11/25/09 14:50	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	12/01/09 19:02	ivogel	Q46305
Sample Preparation:			25.02 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		85	49 - 124	
Sample Weight Determination									
Weight 1	7.31	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.08	g			1	GRO	11/23/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	19	mg/kg	6.1	0.74	50	8015B	11/26/09 6:33	grappaccioli	Q46213
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		102	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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Laboratory Report

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-5
 Prism Sample ID: 264197
 COC Group: G1109597
 Time Collected: 11/18/09 9:30
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	83.1	%			1	SM2540 G	11/25/09 14:50	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	34	mg/kg	8.4	1.4	1	8015B	12/01/09 19:48	lvogel	Q46305
Sample Preparation:				25 g /	1 mL	3545	11/30/09 13:00	athao	P26158
				Surrogate			% Recovery	Control Limits	
				o-Terphenyl			85	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	7.17	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	7.61	g			1	GRO	11/23/09 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	26	mg/kg	6.0	0.73	50	8015B	11/26/09 7:05	grappaccioli	Q46213
						Surrogate		% Recovery	Control Limits
						aaa-TFT		102	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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

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Laboratory Report

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-6
 Prism Sample ID: 264198
 COC Group: G1109597
 Time Collected: 11/18/09 10:00
 Time Submitted: 11/19/09 15:30

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

Percent Solids	75.7	%			1	SM2540 G	11/25/09 14:50	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	500	mg/kg	92	15	10	8015B	12/02/09 0:30	ivogel	Q46305
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Sample Preparation: 25.03 g / 1 mL 3545 11/30/09 13:00 athao P26158

Surrogate	% Recovery	Control Limits
o-Terphenyl	DO #	49 - 124

Sample Weight Determination

Weight 1	5.40	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	5.61	g			1	GRO	11/23/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	3500	mg/kg	130	83	1000	8015B	11/26/09 7:37	grappaccioli	Q46213
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Surrogate	% Recovery	Control Limits
aaa-TFT	DO #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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

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12/04/09

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 c/o AECOM Technical Services (Earth
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 Raleigh, NC 27607

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-7
 Prism Sample ID: 264199
 COC Group: G1109597
 Time Collected: 11/18/09 10:15
 Time Submitted: 11/19/09 15:30

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

Percent Solids	83.7	%			1	SM2540 G	11/25/09 14:50	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	22	mg/kg	8.4	1.3	1	8015B	12/01/09 15:40	jvogel	Q46305
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Sample Preparation: 25.03 g / 1 mL 3545 11/30/09 13:00 athao P26158

Surrogate	% Recovery	Control Limits
o-Terphenyl	83	49 - 124

Sample Weight Determination

Weight 1	6.00	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	5.62	g			1	GRO	11/23/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	140	mg/kg	6.0	0.73	50	8015B	11/26/09 1:41	grappaccioli	Q46213
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Surrogate recovery was outside of the control limits. Matrix interference is suspected.

Surrogate	% Recovery	Control Limits
aaa-TFT	134 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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

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Laboratory Report

12/04/09

N. C. Department of Transportation
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 Raleigh, NC 27607

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-8
 Prism Sample ID: 264200
 COC Group: G1109597
 Time Collected: 11/18/09 10:30
 Time Submitted: 11/19/09 15:30

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

Percent Solids	72.4	%			1	SM2540 G	11/25/09 14:50	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.6	1.6	1	8015B	12/01/09 16:16	jvogel	Q46305
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Sample Preparation: 25.06 g / 1 mL 3545 11/30/09 13:00 athao P26158

Surrogate	% Recovery	Control Limits
o-Terphenyl	78	49 - 124

Sample Weight Determination

Weight 1	6.68	g			1	GRO	11/23/09 0:00	lbrown	
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Weight 2	7.14	g			1	GRO	11/23/09 0:00	lbrown	
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Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	0.84	50	8015B	11/26/09 2:13	grappaccioli	Q46213
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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.

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 c/o AECOM Technical Services (Earth
 Tech)
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-9
 Prism Sample ID: 264201
 COC Group: G1109597
 Time Collected: 11/18/09 10:45
 Time Submitted: 11/19/09 15:30

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

Percent Solids	76.6	%			1	SM2540 G	11/25/09 14:50	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.1	1.5	1	8015B	12/01/09 18:01	jvogel	Q46305
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Sample Preparation: 24.98 g / 1 mL 3545 11/30/09 13:00 athao P26158

Surrogate	% Recovery	Control Limits
o-Terphenyl	64	49 - 124

Sample Weight Determination

Weight 1	5.95	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.62	g			1	GRO	11/23/09 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	0.80	50	8015B	11/26/09 3:50	grappaccioli	Q46213
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Surrogate	% Recovery	Control Limits
aaa-TFT	98	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

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

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Laboratory Report

12/04/09

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

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-10
 Prism Sample ID: 264202
 COC Group: G1109597
 Time Collected: 11/18/09 11:00
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	77.6	%			1	SM2540 G	11/25/09 14:50	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	9.4	mg/kg	9.0	1.5	1	8015B	12/01/09 17:26	jvogel	Q46305
Sample Preparation:			24.99 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	78	49 - 124	
Sample Weight Determination									
Weight 1	6.95	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.57	g			1	GRO	11/23/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	16	mg/kg	6.4	0.79	50	8015B	11/26/09 4:23	grappaccioli	Q46213
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	111	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

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

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Laboratory Report

12/04/09

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 c/o AECOM Technical Services (Earth
 Tech)
 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-11
 Prism Sample ID: 264203
 COC Group: G1109597
 Time Collected: 11/18/09 11:20
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	74.3	%			1	SM2540 G	11/25/09 14:50	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.4	1.5	1	8015B	12/01/09 20:58	jvogel	Q46305
Sample Preparation:			25.01 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	83	49 - 124	
Sample Weight Determination									
Weight 1	6.66	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	6.14	g			1	GRO	11/23/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	27	mg/kg	6.7	0.82	50	8015B	11/26/09 4:56	grappaccioli	Q46213
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	108	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

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

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Laboratory Report

12/04/09

N. C. Department of Transportation
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 701 Corporate Center Dr. Ste 475
 Raleigh, NC 27607

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF
 Intermediate)
 Project No.: WBS #34402.1.1
 Sample Matrix: Soil

Client Sample ID: SN-12
 Prism Sample ID: 264204
 COC Group: G1109597
 Time Collected: 11/18/09 11:30
 Time Submitted: 11/19/09 15:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	73.3	%			1	SM2540 G	11/25/09 14:50	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.5	1.5	1	8015B	12/01/09 16:51	jvogel	Q46305
Sample Preparation:			25.03 g	/	1 mL	3545	11/30/09 13:00	athao	P26158
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	83	49 - 124	
Sample Weight Determination									
Weight 1	5.85	g			1	GRO	11/23/09 0:00	lbrown	
Weight 2	5.98	g			1	GRO	11/23/09 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	0.83	50	8015B	11/25/09 21:21	grappaccioli	Q46213
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	115	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

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

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Level II QC Report

12/04/09

N. C. Department of Transportation
 Attn: Mike Branson/AECOM Earth Tech
 c/o AECOM Technical Services (Earth Tech)
 701 Corporate Center Dr. Ste 475

Project Name: Blowing Rock, NC
 Project ID: NCDOT-Scotchman (WF Intermediate)
 Project No.: WBS #34402.1.1

COC Group Number: G1109597
 Date/Time Submitted: 11/19/09 15:30

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

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q46213
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount		Units			

Gasoline Range Organics (GRO)	47.2	50		mg/kg	94	67-116	Q46213
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Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount		Units			

264204 Gasoline Range Organics (GRO)	47.05	50		mg/kg	94	57-113	Q46213
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Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount		Units					

264204 Gasoline Range Organics (GRO)	46.4	50		mg/kg	93	57-113	1	0 - 23	Q46213
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Diesel Range Organics (DRO) by GC-FID, method 8015B

Method Blank					QC Batch ID
	Result	RL	Control Limit	Units	

Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q46305
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Laboratory Control Sample					Recovery %	Recovery Ranges %	QC Batch ID
	Result	Spike Amount		Units			

Diesel Range Organics (DRO)	69.6	80		mg/kg	87	55-109	Q46305
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Matrix Spike					Recovery %	Recovery Ranges %	QC Batch ID
Sample ID:	Result	Spike Amount		Units			

264195 Diesel Range Organics (DRO)	60.9	80		mg/kg	67	50-117	Q46305
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Matrix Spike Duplicate					Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
Sample ID:	Result	Spike Amount		Units					

264195 Diesel Range Organics (DRO)	61.6	80		mg/kg	68	50-117	1	0 - 24	Q46305
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#-See Case Narrative



Full Service Analytical & Environmental Solutions
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Client Company Name: AECOM
 Report To/Contact Name: Mike Branson
 Reporting Address: 701 Corporate Center Dr
Suite 475 Raleigh NC 27607

Phone: 919 854 6230 Fax (No): 919 854 6239
 Email (No) Email Address: Mike Branson@AECOM.com
 EDD Type: PDF Excel Other
 Site Location Name: Scotchman
 Site Location Physical Address: Blowing Rock

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: UCDOT - W/F / P. Techediate (Scotchman)
 Short Hold Analysis: Yes (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IV) provisions and/or QC Requirements
 Invoice To: UCDOT
 Address: _____

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 3.1
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/O/T HEADSPACE?
 PROPER CONTAINERS used?

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

CLIENT 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				
SN-11	11/18/09	1120	SOIL	CG	4 4/VOA	MOFA	DO NOT OPEN		264203
SN-12	11/18/09	1130	SOIL	CG	4 4/VOA	MOFA			264204

PRISM USE ONLY

Site Arrival Time: _____
 Site Departure Time: _____
 Field Tech Fee: _____
 Mileage: _____

Additional Comments: INVOICE NOT UNDER-BILLED PO

Sampled By (Print Name) M Branson Affiliation AECOM

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 Branson Date 11-19-09 Military/Hours 1145
 Relinquished By: (Signature) Alex Las... Date 11-19-09 Military/Hours 1310
 Relinquished By: (Signature) M... Date 11-19-09 Military/Hours 1530
 Log-In Group No. G1109597

Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 NPDES: NC SC NC SC NC SC NC SC NC SC
 DRINKING WATER: NC SC NC SC NC SC
 SOLID WASTE: NC SC NC SC NC SC
 RCRA: NC SC NC SC
 CERCLA: NC SC NC SC
 LANDFILL: NC SC NC SC
 OTHER: NC SC NC SC

*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

ORIGINAL