

North Carolina Department of Transportation

**PRELIMINARY SITE ASSESSMENT
FOR PARCEL 64**

**State Project U-4020, WBS Element 35015.1.1
US 421 (King Street) from US 321 (Hardin Street)
to East of NC 194 (Jefferson Road) in Boone
Watauga County, North Carolina**



December 1, 2008
Project Number 08210020.04



11-A Oak Branch Drive, Greensboro, North Carolina 27407
Phone (336) 274-9456; Fax (336) 274-9486

**North Carolina Department of Transportation
PRELIMINARY SITE ASSESSMENT FOR PARCEL 64
State Project U-4020, WBS Element 35015.1.1
US 421 (King Street) from US 321 (Hardin Street) to East of NC 194 (Jefferson Road) in
Boone, Watauga County, North Carolina**

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1.0 INTRODUCTION

The North Carolina Department of Transportation (NCDOT) is widening the existing alignment of US Highway 421 (King Street) in the town of Boone, located in Watauga County, North Carolina. Acquisition of properties within the right-of-way is necessary prior to road construction. Schnabel Engineering conducted Preliminary Site Assessments (PSAs) on one parcel located within the proposed right-of-way that is of concern to the NCDOT.

This report summarizes the results of field activities conducted during the PSA for the proposed property acquisition area (Study Area) identified by NCDOT on Parcel 64. The property is located at 344 New Market Centre and is occupied by Hardee's Restaurant, currently owned by James Hastings (Figure 1). The property is located on the northwestern part of the intersection of East King Street (US 421) and Jefferson Road (NC 194). The property line and topography are shown on Figure 2. The approximate NCDOT project limits that delineate the property acquisition area are shown on Figure 3.

The scope of work executed at the site was performed in general accordance with our cost proposal dated October 20, 2008 and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on October 21, 2008 under contract 7000008901, dated June 20, 2008. Four borings were authorized in the Notice to Proceed. A fifth boring was verbally authorized by Ethan Caldwell on the day of the field work (November 6, 2008) after the presence of volatile organic carbons were detected with a PID at borings at the site.

2.0 BACKGROUND AND SITE DESCRIPTION

No buildings were located on the right-of-way of Parcel 64. The southern and eastern parts of the right-of-way were covered with an asphalt drive-thru, parking area, and several landscaped areas. A concrete culvert is located on the northeastern part of the right-of-way. Several utilities cross the right-of-way including buried water lines, sewer pipes, phone lines, and overhead electric lines. Photographs of the Study Area are presented in Appendix A.

3.0 FIELD METHODOLOGY

Prior to mobilizing to the site to conduct subsurface sampling, Schnabel Engineering contacted North Carolina One Call to locate underground utilities in the study area of the site. Schnabel Engineering mobilized a geophysical crew to the site on October 22, 2008 and performed an electromagnetic survey of the subsurface in the proposed right-of-way area within the parcel. The electromagnetic survey equipment (EM61-MK2) identified various magnetic anomalies within the study area. Schnabel Engineering also performed a ground penetrating radar (GPR) survey with a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna. Results of the survey suggested the presence of buried utility lines or conduits, but did not indicate the presence of potential USTs within the Study Area. The report on the geophysical surveys is included in Appendix B and was previously sent to the NCDOT on October 23, 2008.

After reviewing the background information and geophysical data, Schnabel returned to Parcel 64 to obtain soil samples for chemical analysis from within the Study Area. Soil samples were collected to test for total petroleum hydrocarbon gasoline, diesel range volatile organic carbons (TPH-GRO and TPH-DRO), and Oil and Grease. Five borings designated B-64-01 through B-64-05 were advanced by Brown Environmental of Greensboro, NC along the right-of-way of East King Street and Jefferson Road on November 6, 2008. The locations of the five soil borings are shown on Figures 2 and 3. Borings B-64-01 through B-64-05 were advanced to a total depth of twelve feet below ground surface. Borings drilled within the Study Area were advanced with a track-mounted Geoprobe[®] (Model 54-DT) with direct push probe technology. At the completion of the sampling activities, each boring was backfilled with soil removed from the boring during sampling and/or bentonite chips. Asphalt patch was used on borings B-64-01 and B-64-02 which were drilled through the asphalt paved drive-thru area.

Soil samples were obtained from each boring using a MacroCore[®] sampler fitted with a new single-use, four foot long disposable polyvinyl chloride (PVC) liner. Upon retrieval, a portion of each 2-foot interval was placed in a separate resealable plastic bag. These bags were sealed and placed at ambient temperature for field screening with a MiniRAE Plus photo ionization detector (PID). Volatile organic compounds were allowed to accumulate in the headspace of each bag for

approximately 15 minutes, and then the headspace of each sealed bag was scanned with the PID. Headspace screening of the soil samples revealed the presence of volatile vapors in several of the samples screened with the PID. Concentrations ranged from not detected to 910 parts per million (B-64-01, 2-4 ft depth). PID readings were above zero in some samples from each boring except B-64-03. The PID was calibrated on November 5, 2008 in general accordance with the manufacturer's recommended calibration procedures. The PID readings were recorded with the soil descriptions and indications of staining or odors, if present. Logs for each boring are presented in Appendix C.

Soil samples for laboratory analysis were collected from each boring at the sample intervals identified in Table 1. These samples were obtained from the bottom of each boring or at the depth of the highest PID readings. All soil samples were placed in laboratory-supplied containers and stored on ice pending shipment to Prism Laboratories, Inc. (Prism) in Charlotte, NC. Sample information was recorded on the Chain-of-Custody form and the samples were submitted for chemical analysis of TPH-GRO by Modified EPA Method 5030/8015 and TPH-DRO by Modified EPA Method 3545/8015. An Oil and Grease soil sample was collected at B-64-01 because of its proximity to the old gas station island.

Soils collected from borings within the Study Area generally consisted of silty sand (SM) or sandy silt (ML). GPS coordinates for each boring are provided in Appendix D. GPS coordinates for each boring were obtained using a Trimble Pro-XRS DGPS system (Appendix D) with coordinates reported in US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet.

4.0 DISCUSSION OF RESULTS

Soil samples were collected at Parcel 64 and analyzed for TPH-DRO, TPH-GRO, and Oil and Grease. The samples submitted for analysis showed that TPH-GRO, TPH-DRO, and Oil and Grease were at levels below the laboratory reporting limits. Laboratory analytical results are summarized in Table 2. Laboratory reports for these samples are presented in Appendix E.

5.0 SUMMARY AND CONCLUSIONS

The geophysical survey conducted at the site did not find evidence of potential USTs within the Study Area, but did indicate the presence of buried utility lines or conduits. Five soil borings (B-64-01 through B-64-05) were advanced to evaluate potential petroleum contamination within the Study Area, as well as to document soil conditions. PID readings were above zero in some samples from each boring except B-64-03. Laboratory results indicated that the samples submitted for analysis were at levels below the laboratory reporting limits for TPH-GRO, TPH-DRO, and Oil and Grease.

6.0 RECOMMENDATIONS

Contamination may be encountered during the excavation activities in the right-of-way of Parcel 64 near soil boring B-69-01. PID readings obtained during field activities indicated a concentration of 920 ppm at the 2-4 foot depth of the boring. A soil sample was collected at the 2-4 foot depth and submitted to the lab. Laboratory results indicated that the sample was below the laboratory reporting limit. During roadway construction, the NCDOT transportation/disposal contractor may use different criteria for estimating impacted soil. Based on the currently available information presented in this report, additional assessment is not recommended.

Based on the currently available information presented in this report, additional assessment is not recommended at soil borings B-69-02, B-69-03, B-69-04, and B-64-05. Concentrations of the constituents selected for laboratory analysis were below the TPH Action Levels, so excavation and treatment of soils for these constituents is not recommended.

7.0 LIMITATIONS

This Preliminary Site Assessment was prepared for the use of the North Carolina Department of Transportation. The scope of work performed at the site is limited to the tasks described in our cost proposal dated October 20, 2008. This report is not intended to represent an exhaustive research of all potential hazards that may exist. Schnabel makes no other declarations, or any express or implied warranty, as to the professional services provided under the terms of the agreement.

TABLES

TABLE 1
SAMPLING INTERVALS AND FIELD VOLATILE HEADSPACE MEASUREMENTS
PARCEL 64
NCDOT U-4020, Watauga County

Sample Depth Below Ground Surface	Soil Borings				
	B-64-01	B-64-02	B-64-03	B-64-04	B-64-05
	PID (ppm)				
0 - 2 feet	920	6	ND	1.9	ND
2 - 4 feet	710	5.6	ND	7.2	1.5
4 - 6 feet	14	6.1	ND	6.4*	6.4
6 - 8 feet	14	34	ND*	19	ND*
8 - 10 feet	ND*	38*	ND	5.8	1.2
10 - 12 feet	ND	ND	ND	ND	ND

Shaded cells were submitted for laboratory analysis

ND = Volatiles Not Detected by field measurements (0 ppm headspace reading with PID)

ND* = Water Encountered

PID readings were obtained using a MiniRae Photo Ionization Detector

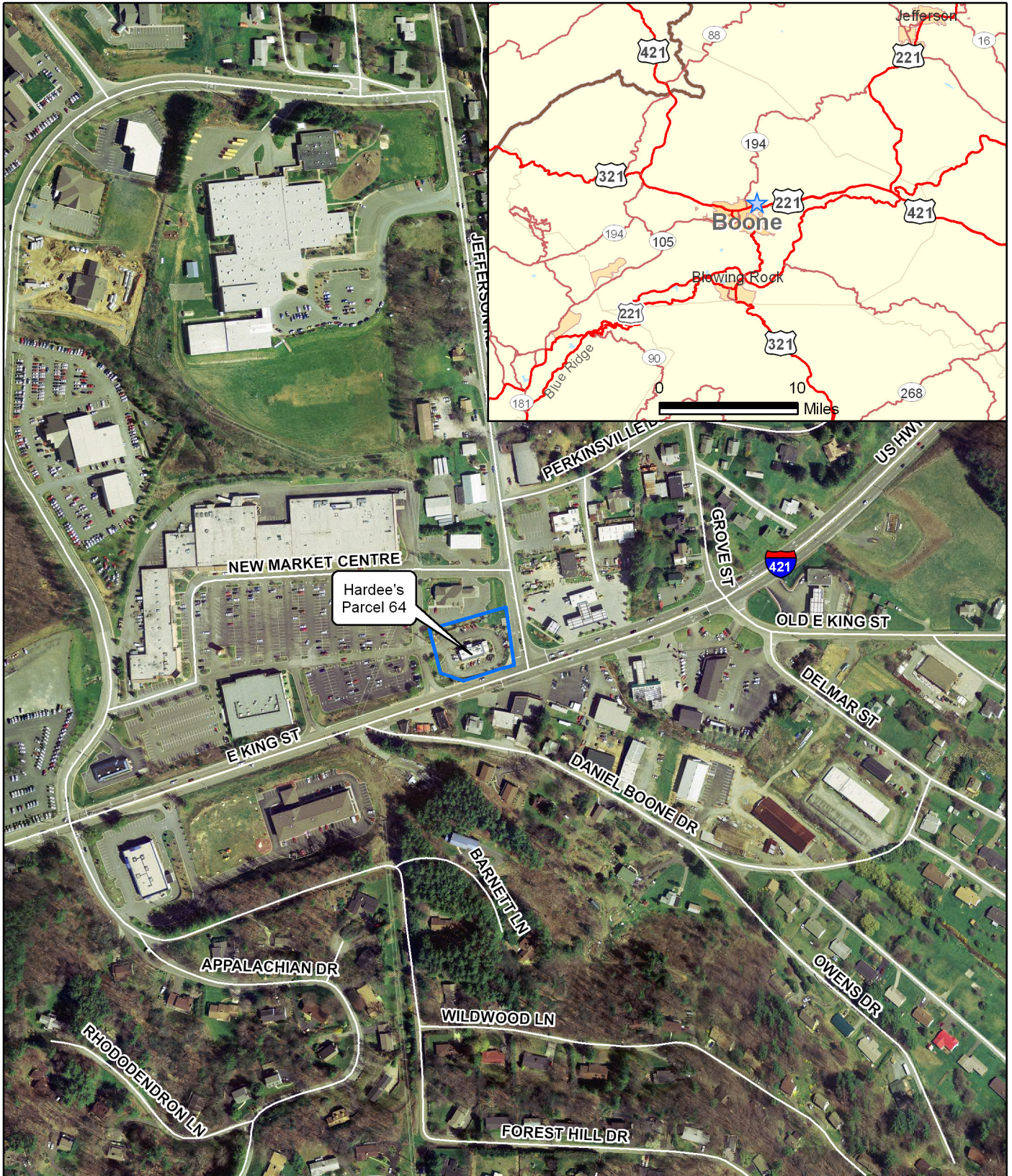
ppm = parts per million

**TABLE 2
SUMMARY OF LABORATORY RESULTS
PARCEL 64
NCDOT U-4020, WATAUGA COUNTY**

Boring No.	Depth (ft)	Matrix	C5-C8 (TPH-GRO)	C9-C12 (TPH DRO)	C9-C10 (Oil and Grease)
B-64-01	0-2'	Soil	NS	NS	BRL
B-64-01	2-4'	Soil	BRL	BRL	NS
B-64-01	4-6'	Soil	NS	NS	NS
B-64-01	6-8'	Soil	NS	NS	NS
B-64-01	8-10'	Soil	NS	NS	NS
B-64-01	10-12'	Soil	NS	NS	NS
B-64-02	0-2'	Soil	NS	NS	NS
B-64-02	2-4'	Soil	NS	NS	NS
B-64-02	4-6'	Soil	NS	NS	NS
B-64-02	6-8'	Soil	NS	NS	NS
B-64-02	8-10'	Soil	BRL	BRL	NS
B-64-02	10-12'	Soil	NS	NS	NS
B-64-03	0-2'	Soil	NS	NS	NS
B-64-03	2-4'	Soil	NS	NS	NS
B-64-03	4-6'	Soil	NS	NS	NS
B-64-03	6-8'	Soil	NS	NS	NS
B-64-03	8-10'	Soil	NS	NS	NS
B-64-03	10-12'	Soil	BRL	BRL	NS
B-64-04	0-2'	Soil	NS	NS	NS
B-64-04	2-4'	Soil	NS	NS	NS
B-64-04	4-6'	Soil	NS	NS	NS
B-64-04	6-8'	Soil	BRL	BRL	NS
B-64-04	8-10'	Soil	NS	NS	NS
B-64-04	10-12'	Soil	NS	NS	NS
B-64-05	0-2'	Soil	NS	NS	NS
B-64-05	2-4'	Soil	NS	NS	NS
B-64-05	4-6'	Soil	BRL	BRL	NS
B-64-05	6-8'	Soil	NS	NS	NS
B-64-05	8-10'	Soil	NS	NS	NS
B-64-05	10-12'	Soil	NS	NS	NS
Regulatory Concentrations					
TPH Action Levels		Soil	10	40	250

Units in mg/kg for soils
 J: The analyte was positively identified but the value is estimated below the reporting limit.
 mg/kg = parts per million
 BRL - Below Reporting Limit
 NS - Not Sampled
 Listed Regulatory Concentrations are from UST Section Guidelines

FIGURES



Source: 1. Watauga County GIS,
<http://www.wataugacounty.org/gis/index.asp>

400 200 0 400
 Feet

Scale: 1:4,800

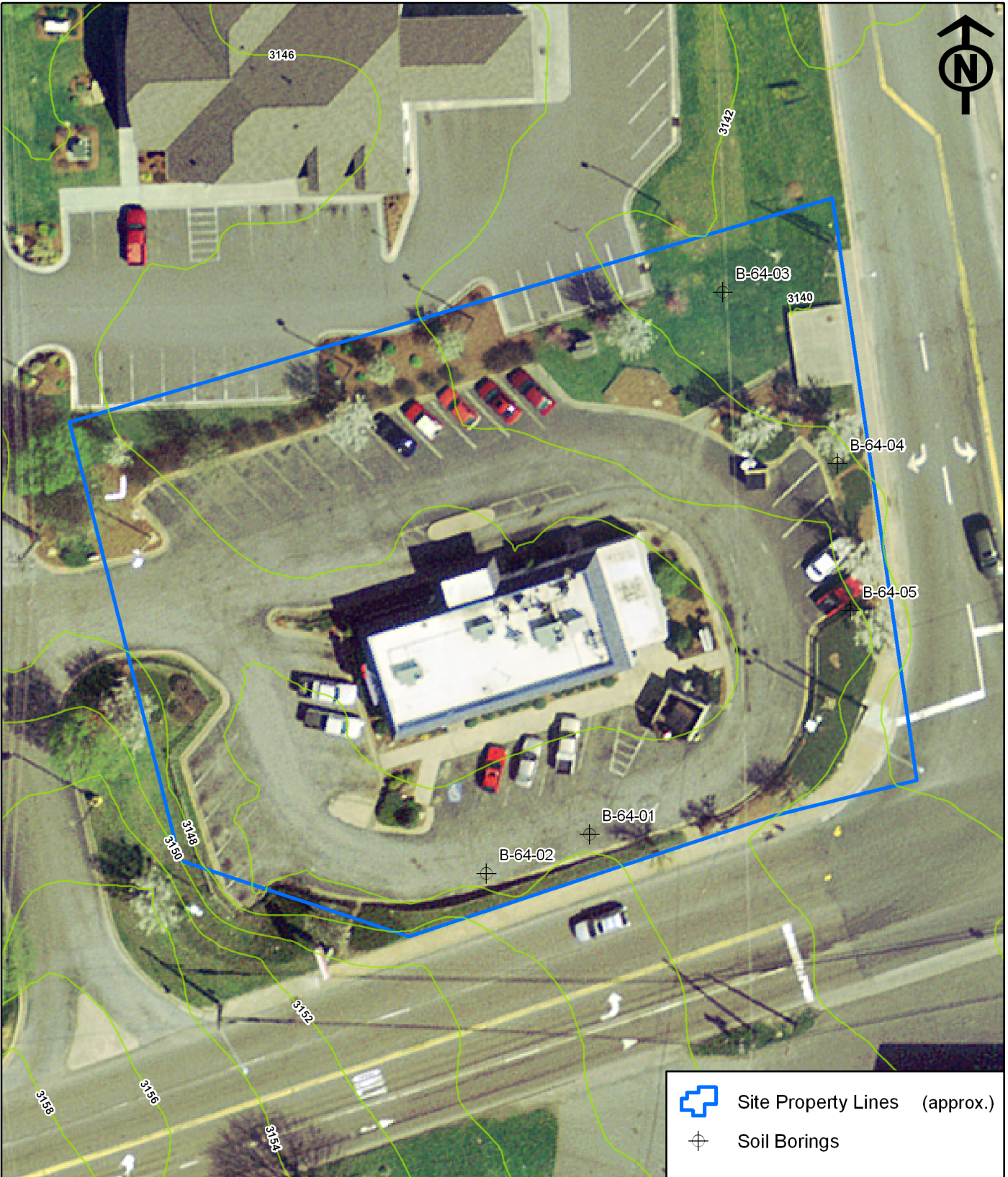




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State Project No. U-4020
 Watauga County, North Carolina

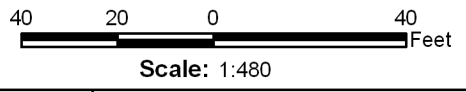
VICINITY MAP

Figure 1



 Site Property Lines (approx.)
 Soil Borings

Source: 1. Watauga County GIS,
<http://www.wataugacounty.org/gis/index.asp>
 2. Contours, 2 foot, NCDOT GIS Branch, March 10, 2005



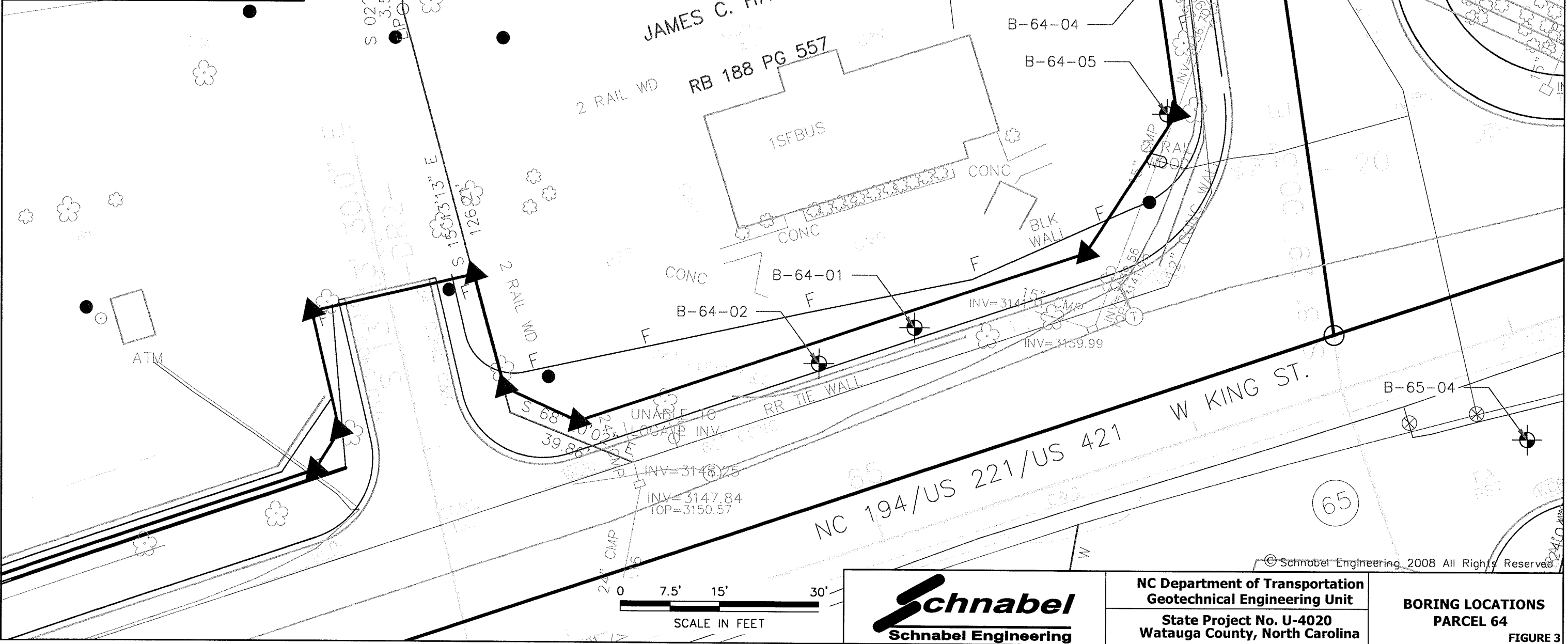
NC Department of Transportation
 Geotechnical Engineering Unit

 State Project No. U-4020
 Watauga County, North Carolina

SITE MAP
 PARCEL 64

 Figure 2

Baseline Control Point	◆
Existing Right of Way Marker	h
Existing Right of Way Line	—
Proposed Right of Way Line	—
Proposed Right of Way Line with Iron Pin and Cap Marker	—
Proposed Right of Way Line with Concrete or Granite Marker	—
Existing Control of Access	—
Proposed Control of Access	—
Existing Easement Line	—
Proposed Temporary Construction Easement	—
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Utility Easement	—
Existing Edge of Pavement	—
Existing Curb	—
Proposed Curb	—
Proposed EOT	—
Proposed Slope Stakes Cut	—
Proposed Slope Stakes Fill	—
Drainage Box: Catch Basin, DI or JB	□
Recorded U/G Water Line	—
Property Line	—
Parcel / Sequence Number	①
U/G Sanitary Sewer Line	—
Building	—
Stream or Body of Water	—
Proposed Lateral, Tail, Head Ditch	—
Schnabel Engineering April 2008 Boring	—



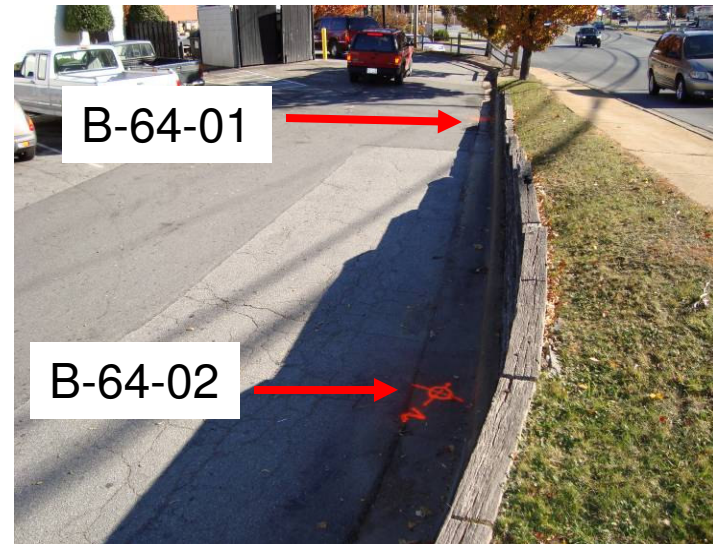
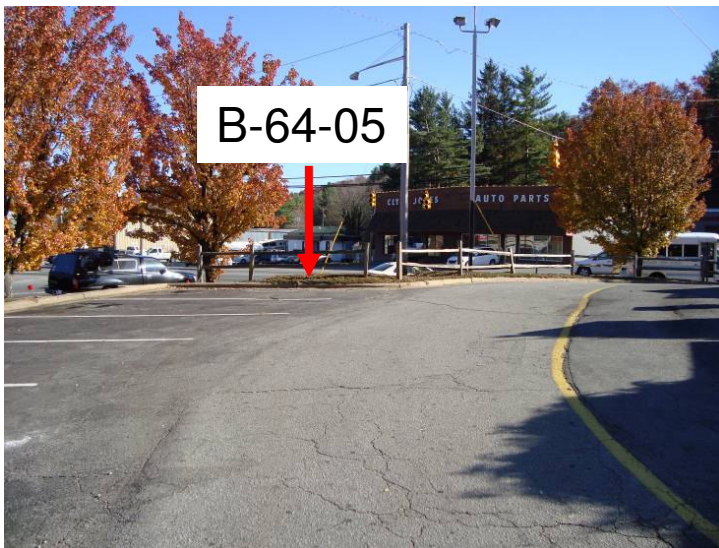
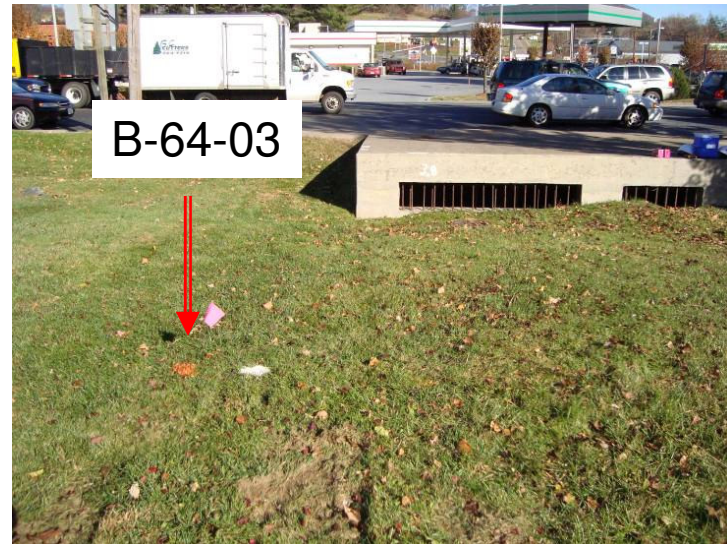
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State Project No. U-4020
Watauga County, North Carolina

BORING LOCATIONS
PARCEL 64
FIGURE 3

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APPENDIX A
Photographs

Parcel 64, Hardees



APPENDIX B
Geophysics Report

December 1, 2008

Mr. Cyrus Parker
NCDOT, Geotechnical Unit
1020 Birch Ridge Drive
Raleigh, NC 27610

Via email (pdf)

RE: State Project: U-4020
WBS Element: 35015.1.1
County: Watauga
Description: US 421 (King Street) from US 321 (Hardin Street) to east
of NC 194 (Jefferson Road) in Boone

SUBJECT: Report on Geophysical Surveys of Parcel 64
Schnabel Engineering Project No. 08210020.04

Dear Mr. Parker:

This letter contains our report on the geophysical surveys we conducted on the subject property. The report includes two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on October 22 and October 23, 2008, in the accessible areas of the proposed right-of-way (ROW) sections of Parcel 64 (Hastings Co. Property, Hardee's Restaurant) under our 2008 contract with the NCDOT. Parcel 64 is located at the northwest corner of the intersection of US 421 (King Street) and NC 194 (Jefferson Road), in Boone, NC. The work was conducted at the location indicated by the NCDOT to support their environmental assessment of the subject parcel. The purpose of the geophysical surveys was to locate possible metal underground storage tanks (UST's) and associated metal product lines in the accessible areas of the site.

2.0 FIELD METHODOLOGY

Locations of geophysical data points were obtained using a sub-meter Trimble Pro-XRS DGPS system. References to direction and location in this report are based on the US State Plane 1983 system, North Carolina 3200 zone, using the NAD 83 datum, with units in US survey feet. The locations of existing site features (building, curbs, signs, etc.) were recorded for later correlation with the geophysical data and for location references to the NCDOT drawings. The geophysical investigation consisted of an electromagnetic (EM) induction survey using a Geonics EM61-MK2 instrument, and a ground-penetrating radar survey using a Geophysical Survey Systems SIR-3000 system equipped with a 400 MHz antenna.

The EM61 data were collected along parallel survey lines spaced about 2.5 feet apart. The EM61 and DGPS data were recorded digitally using a field computer and later transferred to a desktop computer for data processing. The GPR data were collected along survey lines spaced two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 1 and 2. The EM61 early time gate results are plotted on Figure 1. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 2 shows the difference between the response of the top and bottom coils of the EM61 instrument (differential response). The difference is taken to remove the effect of surface and very shallowly buried metallic objects. Typically, the differential response emphasizes anomalies from deeper and larger objects such as UST's.

The early time gate and differential results indicate several linear anomalies probably caused by buried storm sewers and several anomalies probably caused by known cultural features. GPR data were collected over several EM anomalies. The GPR data indicated the presence of storm sewers in the southwest and northeast portions of the site, and reinforced concrete in two areas southeast of the existing building (Figures 1 and 2). The GPR data did not indicate the presence of UST's in the areas surveyed on Parcel 64.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 64 of Project U-4020 in Boone, NC indicates the following:

- The geophysical data do not indicate the presence of UST's in the areas surveyed.

5.0 LIMITATIONS

These services have been performed and this report prepared for the North Carolina Department of Transportation in accordance with generally accepted guidelines for conducting geophysical surveys. It is generally recognized that the results of geophysical surveys are non-unique and may not represent actual subsurface conditions.

Thank you for the opportunity to serve you on this project. Please call if you need additional information or have any questions.

Sincerely,



Jeremy S. Strohmeyer, P.G.
Project Manager

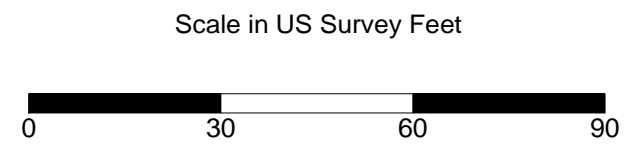
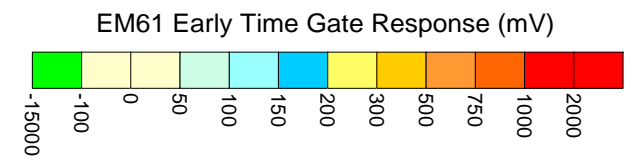
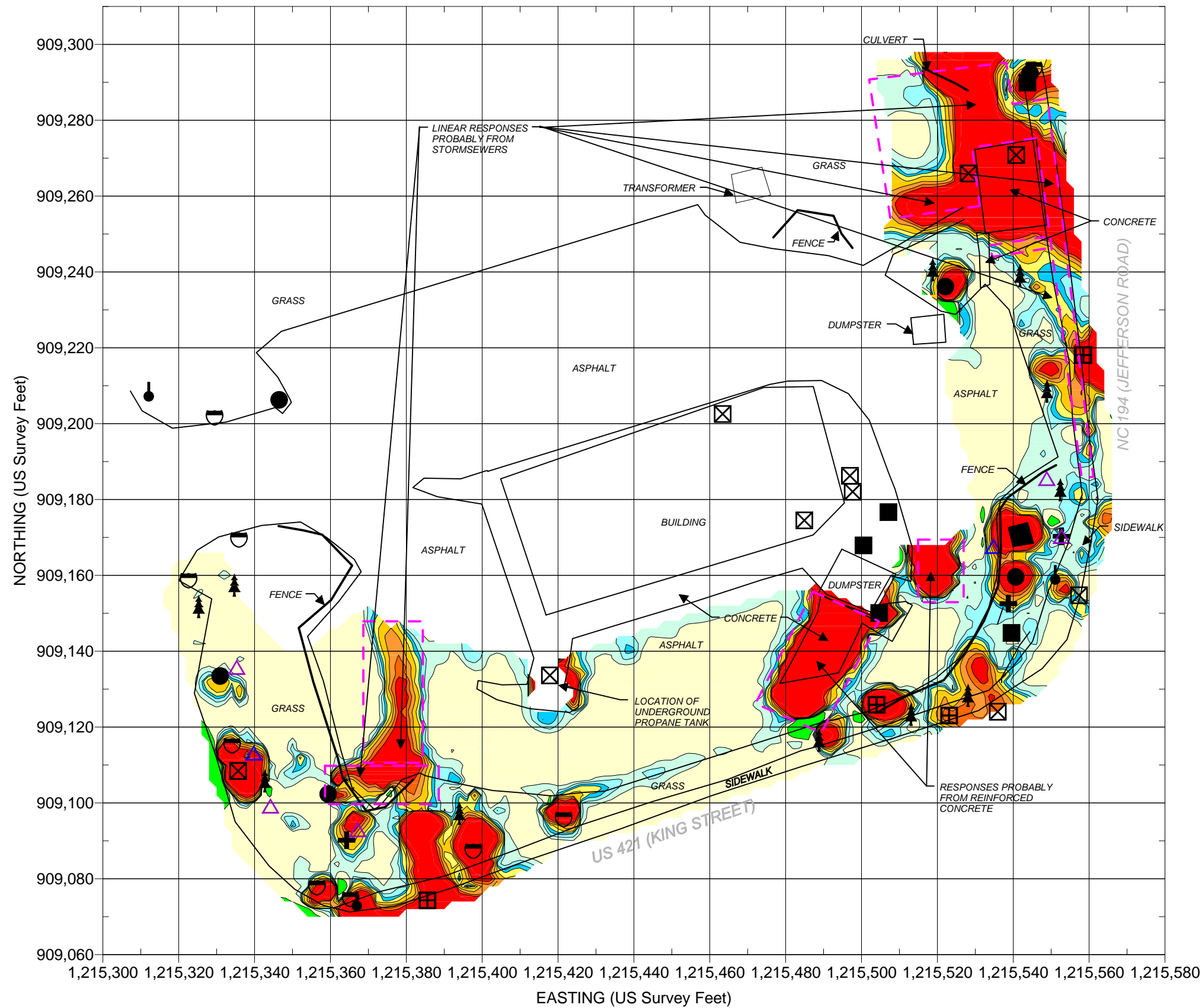


Edward D. Billington, P.G.
Senior Vice President

JW/JS/NB

Attachment: Figures (2)

FILE: G:\2008 PROJECTS\08210020 (NCDOT 2008 GEOTECH UNIT SERVICES)\08210020.04 (U-4020 PARCEL 64, BOONE)\REPORT\GEOPHYSICAL REPORT ON PARCEL 64.DOC



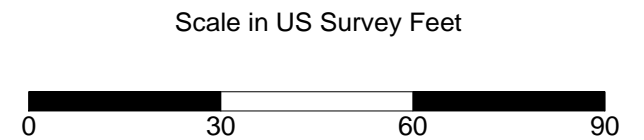
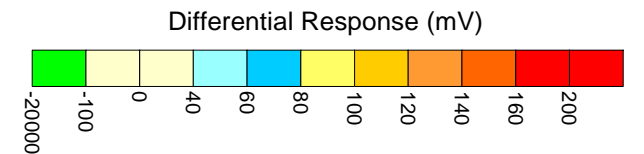
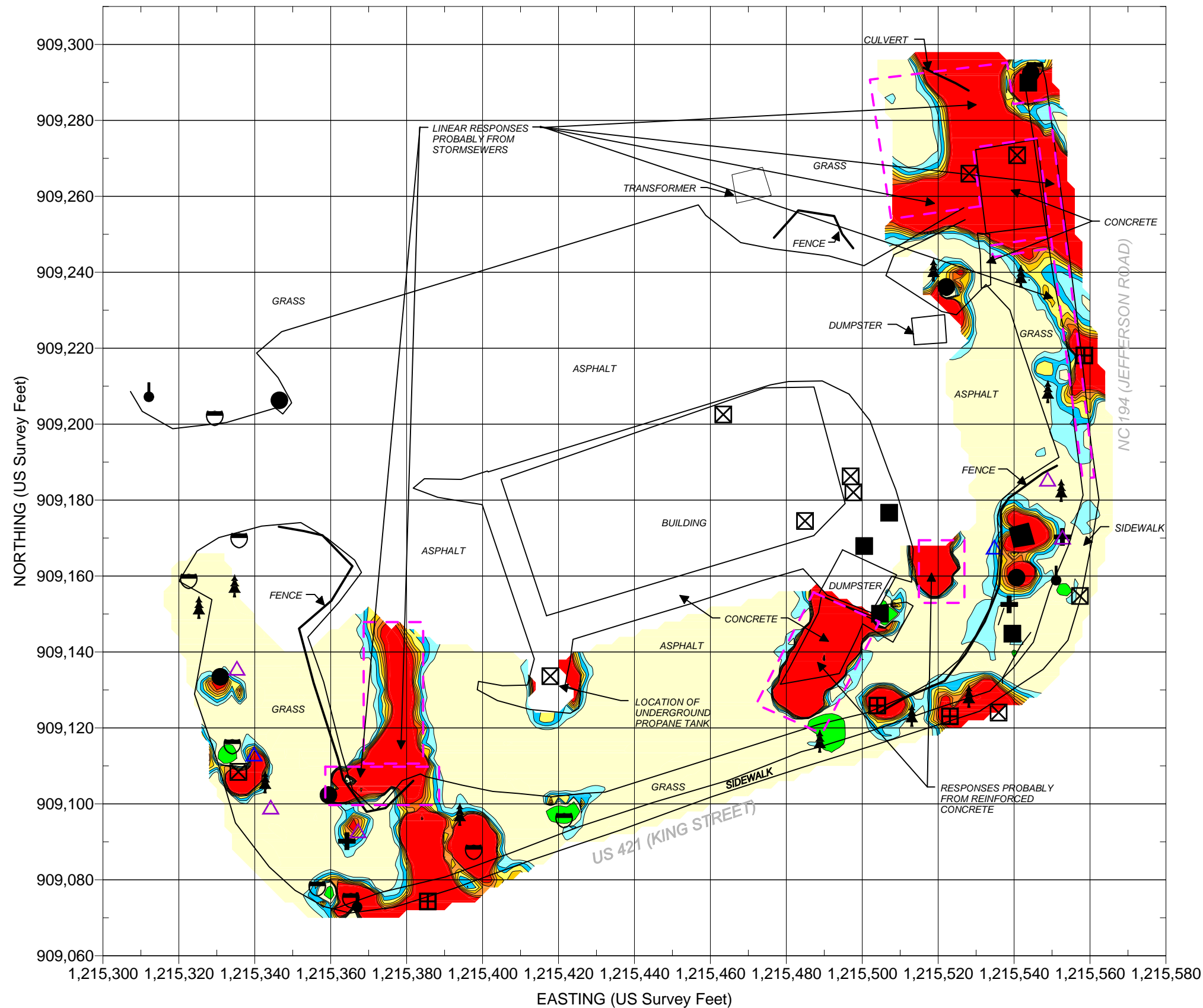
EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	RW DOT MARKER
	CE DOT MARKER
	METALLIC OBJECT
	LIGHT POLE
	UTILITY POLE
	STORMWATER GRATE
	GPR SURVEY AREA
	GUY WIRE
	UTILITY MANHOLE OR BOX
	TREE
	SIGN

Note: The contour plot shows the earliest and most sensitive time gate of the EM61 bottom coil/channel in millivolts (mV). The EM data were collected on October 22, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina Zone 3200, using the NAD 1983 datum. GPR data were acquired on October 22 and 23, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.



NC Department of Transportation
Geotechnical Engineering Unit
State Project No. U-4020
Watauga County, North Carolina

**EM61
EARLY TIME GATE
RESPONSE**
FIGURE 1



EXPLANATION	
	EM61 SURVEY AREA - DATA ACQUIRED ALONG PARALLEL SURVEY LINES SPACED APPROXIMATELY 2.5 FEET APART
	RW DOT MARKER
	CE DOT MARKER
	METALLIC OBJECT
	LIGHT POLE
	UTILITY POLE
	STORMWATER GRATE
	GPR SURVEY AREA
	GUY WIRE
	UTILITY MANHOLE OR BOX
	TREE
	SIGN

Note: The contour plot shows the difference, in millivolts (mV), between the readings from the top and bottom coils of the EM61. The difference is taken to reduce the effect of shallow metal objects and emphasize anomalies caused by deeper metallic objects, such as drums and tanks. The EM data were collected on October 22, 2008, using a Geonics EM61-MK2 instrument. Positioning for the EM61 survey was provided using a submeter Trimble ProXRS DGPS system. Coordinates are in the US State Plane 1983 System, North Carolina 3200 Zone, using the NAD 1983 datum. GPR data were acquired on October 22 and 23, 2008, using a Geophysical Survey Systems SIR 3000 equipped with a 400 MHz antenna.

	NC Department of Transportation Geotechnical Engineering Unit	EM61 DIFFERENTIAL RESPONSE FIGURE 2
	State Project No. U-4020 Watauga County, North Carolina	

APPENDIX C
Soil Boring Logs



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessment
Watauga County
Boone, North Carolina

Geo Probe Number: **B-64-01**
Contract Number: 08210020.04
Sheet: 1 of 1

Contractor:
Contractor Foreman: Burt Brown
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 54DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 11/6/08 **Finished:** 11/6/08
X: 909121 ft **Y:** 1215471 ft
Coordinate System: NC State Plane
Ground Surface Elevation: 3145± (ft) **Total Depth:** 12.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	11/6	11:15 AM	9.0'	---	---	▽

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.3	Asphalt	FILL	3144.7			S-1	PID = 920 ppm	
	PROBABLE FILL, sampled as silty sand, moist, light yellowish brown							
3.0	PROBABLE FILL, sampled as silty sand, moist, dark brownish gray, estimated <5% roots	FILL	3142.0			S-2		
4.0								
	SANDY SILT, wet, light grayish yellow, estimated <5% fine to coarse gravel, probable RESIDUAL material	ML	3141.0		5		PID = 14 ppm	
9.0	PARTIALLY WEATHERED ROCK, sampled as moist, light yellowish white, Saprolitic gneiss	PWR	3136.0		10		PID = 0 ppm	
12.0			3133.0				PID = 0 ppm	

Bottom of Geo Probe at 12.0 ft.
Boring terminated at selected depth
Boring backfilled with bentonite upon completion.

TEST BORING LOG PARCEL 64 BORELOGS.GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 12/1/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessment
Watauga County
Boone, North Carolina

Geo Probe Number: **B-64-02**
Contract Number: 08210020.04
Sheet: 1 of 1

Contractor:
Contractor Foreman: Burt Brown
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 54DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 11/6/08 **Finished:** 11/6/08
X: 909110 ft **Y:** 1215442 ft
Coordinate System: NC State Plane
Ground Surface Elevation: 3148± (ft) **Total Depth:** 12.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	11/6	11:37 AM	9.0'	---	---	

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.3	Asphalt		3147.5					
	PROBABLE FILL, sampled as silty sand, moist, light yellowish brown, estimated <5% rock fragments	FILL					PID = 6 ppm	
3.0	SANDY SILT, wet, light grayish yellow, estimated <5% fine to medium sand, probable RESIDUAL material	ML	3144.8				PID = 5.6 ppm	
					5		PID = 6.1 ppm	
9.0	PARTIALLY WEATHERED ROCK, sampled as moist, light yellowish white, Saprolitic gneiss	PWR	3138.8				PID = 34 ppm	
					10	S-1	PID = 38 ppm	
12.0			3135.8				PID = 0 ppm	

Bottom of Geo Probe at 12.0 ft.
Boring terminated at selected depth
Boring backfilled with bentonite upon completion.

TEST BORING LOG PARCEL 64 BORELOGS.GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 12/1/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessment
Watauga County
Boone, North Carolina

Geo Probe Number: **B-64-03**
Contract Number: 08210020.04
Sheet: 1 of 1

Contractor:
Contractor Foreman: Burt Brown
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 54DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 11/6/08 **Finished:** 11/6/08
X: 909278 ft **Y:** 1215510 ft
Coordinate System: NC State Plane
Ground Surface Elevation: 3142± (ft) **Total Depth:** 12.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	11/6	12:27 PM	6.0'	---	---	▽

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.4	Topsoil		3141.4					
	PROBABLE FILL, sampled as silty sand, moist, light yellowish brown, estimated <5% roots						PID = 0 ppm	
		FILL			5		PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	
9.0	SANDY SILT, wet, dark brownish gray, probable RESIDUAL material		3132.8		10		PID = 0 ppm	
11.8	QUARTZITE, strong, fresh, white		3130.0				PID = 0 ppm	
12.0	Bottom of Geo Probe at 12.0 ft. Boring terminated at selected depth Boring backfilled with bentonite upon completion.		3129.8					

TEST BORING LOG PARCEL 64 BORELOGS.GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 12/1/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessment
Watauga County
Boone, North Carolina

Geo Probe Number: **B-64-04**
Contract Number: 08210020.04
Sheet: 1 of 1

Contractor:
Contractor Foreman: Burt Brown
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 54DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 11/6/08 **Finished:** 11/6/08
X: 909228 ft **Y:** 1215543 ft
Coordinate System: NC State Plane
Ground Surface Elevation: 3142± (ft) **Total Depth:** 12.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	11/6	12:41 PM	5.0'	---	---	▽

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.5	Rootmat and topsoil		3141.7					
2.0	PROBABLE FILL, sampled as silty sand, dry, dark yellowish brown, estimated 15 - 25% rock fragments	FILL	3140.2				PID = 1.9 ppm	
	PARTIALLY WEATHERED ROCK, sampled as light yellowish white	PWR					PID = 7.2 ppm	
6.0	SILTY SAND, wet, dark brownish gray, probable RESIDUAL material	SM	3136.2			S-1	PID = 6.4 ppm	
9.0	SILTY SAND, moist, light brownish yellow, estimated <5% rock fragments, probable RESIDUAL material	SM	3133.2				PID = 19 ppm	
12.0			3130.2				PID = 5.8 ppm	
							PID = 0 ppm	

Bottom of Geo Probe at 12.0 ft.
Boring terminated at selected depth
Boring backfilled with bentonite upon completion.

TEST BORING LOG PARCEL 64 BORELOGS.GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 12/1/08



**GEO
PROBE
LOG**

Project: NCDOT Preliminary Site Assessment
Watauga County
Boone, North Carolina

Geo Probe Number: **B-64-05**
Contract Number: 08210020.04
Sheet: 1 of 1

Contractor:
Contractor Foreman: Burt Brown
Schnabel Representative: Ben Bradley
Equipment: Geoprobe 54DT
Method: Geoprobe,
Macrocore
Hammer Type: NA
Dates Started: 11/6/08 **Finished:** 11/6/08
X: 909186 ft **Y:** 1215547 ft
Coordinate System: NC State Plane
Ground Surface Elevation: 3144± (ft) **Total Depth:** 12.0 ft

Groundwater Observations						
	Date	Time	Depth	Casing	Caved	
Encountered	11/6	2:05 PM	7.5'	---	---	▽

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DATA		TESTS	REMARKS
					DEPTH	DATA		
0.5	Topsoil		3143.6					
3.0	PROBABLE FILL, sampled as silty sand, moist, dark yellowish brown, estimated 5 - 10% rock fragments	FILL	3141.1				PID = 0 ppm	
6.0	PROBABLE FILL, sampled as silty sand, moist, light yellowish brown, estimated <5% rock fragments	FILL	3138.1		5	S-1	PID = 1.5 ppm	
12.0	SANDY SILT, moist, dark brownish gray, probable RESIDUAL material	ML	3132.1		10		PID = 6.4 ppm PID = 0 ppm PID = 1.2 ppm	

Bottom of Geo Probe at 12.0 ft.
Boring terminated at selected depth
Boring backfilled with bentonite upon completion.

TEST BORING LOG PARCEL 64 BORELOGS.GPJ SCHNABEL DATA TEMPLATE 2008_04_01.GDT 12/1/08

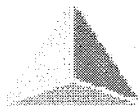
APPENDIX D
Soil Boring GPS Coordinates

**SOIL BORING GPS COORDINATES
NCDOT U-4020, WATAUGA COUNTY**

Soil Boring GPS Coordinates		
Boring Identification	Easting	Northing
	X	Y
B-64-01	1215471	909121
B-64-02	1215442	909110
B-64-03	1215510	909278
B-64-04	1215543	909228
B-64-05	1215547	909186

* NC State Plane 1983 System, NC 3200 Zone,
NAD 83 Datum, US Survey Feet

APPENDIX E
Prism Lab Report



PRISM
LABORATORIES, INC.

Case Narrative

Date: 11/19/08
Company: N. C. Department of Transportation
Contact: Ben Bradley
Address: c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Client Project ID: NCDOT Parcel 64
Prism COC Group No: G1108268
Collection Date(s): 11/06/08
Lab Submittal Date(s): 11/07/08

Client Project Name Or No: Hardees, Boone, NC WBS #35015.1.1

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 7 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: Robbi A. Jones

Project Manager: Robbi A. Jones

Signature: Robbi A. Jones

Signature: Robbi A. Jones

Review Date: 11/19/08

Approval Date: 11/19/08

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

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1
Sample Matrix: Soil

Client Sample ID: B-64-01
Prism Sample ID: 230125
COC Group: G1108268
Time Collected: 11/06/08 11:00
Time Submitted: 11/07/08 15:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	77.8	%			1	SM2540 G	11/12/08 16:30	dsullivan	
<u>Oil and Grease by Soxhlet Extraction</u>									
Oil and Grease	BRL	mg/kg	45	45	1	9071A	11/19/08 7:00	smanivanh	Q37095
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.1	1.5	1	8015B	11/15/08 7:01	jvogel	Q37003
Sample Preparation:			24.71 g	/	1 mL	3545	11/13/08 12:00	pbarr	P23065
					Surrogate	% Recovery	Control Limits		
					o-Terphenyl	65	49 - 124		
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	1.3	0.026	1	8015B	11/12/08 15:39	dliamm	Q36882
					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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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

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1
Sample Matrix: Soil

Client Sample ID: B-64-02
Prism Sample ID: 230126
COC Group: G1108268
Time Collected: 11/06/08 11:10
Time Submitted: 11/07/08 15:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	77.6	%			1	SM2540 G	11/12/08 16:30	dsullivan	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	11/17/08 13:58	jvogel	Q37003
Sample Preparation:				25 g /	1 mL	3545	11/13/08 12:00	pbarr	P23065
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	91	49 - 124	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	1.3	0.027	1	8015B	11/12/08 16:10	dliamm	Q36882
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	99	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

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1
Sample Matrix: Soil

Client Sample ID: B-64-03
Prism Sample ID: 230127
COC Group: G1108268
Time Collected: 11/06/08 13:46
Time Submitted: 11/07/08 15:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.3	%			1	SM2540 G	11/12/08 16:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	11/15/08 7:37	javogel	Q37003
Sample Preparation:			25.06 g	/	1 mL	3545	11/13/08 12:00	pbarr	P23065
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	76	49 - 124	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	1.2	0.024	1	8015B	11/12/08 15:07	dliamm	Q36882
						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
 SC Certification No. 99012
 NC Drinking Water Cert. No. 37735

Laboratory Report

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1
Sample Matrix: Soil

Client Sample ID: B-64-04
Prism Sample ID: 230128
COC Group: G1108268
Time Collected: 11/06/08 13:28
Time Submitted: 11/07/08 15:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	85.0	%			1	SM2540 G	11/12/08 16:30	dsullivan	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.2	1.3	1	8015B	11/15/08 8:12	jvogel	Q37003
Sample Preparation:			25.01 g	/	1 mL	3545	11/13/08 12:00	pbarr	P23065
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	85	49 - 124	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	1.2	.0024	1	8015B	11/12/08 16:42	dliamm	Q36882
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	85	55 - 129	

Sample Comment(s):

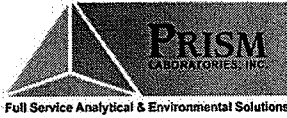
BRL = Below Reporting Limit

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

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1
Sample Matrix: Soil

Client Sample ID: B-64-05
Prism Sample ID: 230129
COC Group: G1108268
Time Collected: 11/06/08 15:30
Time Submitted: 11/07/08 15:55

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	81.0	%			1	SM2540 G	11/12/08 16:30	dsullivan	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	11/15/08 8:48	jvogel	Q37003
Sample Preparation:				25g /	1 mL	3545	11/13/08 12:00	pbarr	P23065
				Surrogate			% Recovery	Control Limits	
				o-Terphenyl			86	49 - 124	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	1.2	0.025	1	8015B	11/12/08 17:14	dliamm	Q36882
				Surrogate			% Recovery	Control Limits	
				aaa-TFT			94	55 - 129	

Sample Comment(s):

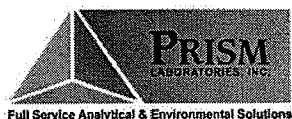
BRL = Below Reporting Limit

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



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

Level II QC Report

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1

COC Group Number: G1108268
Date/Time Submitted: 11/07/08 15:55

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	1	<0.5	mg/kg			Q36882		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	1.940	2		mg/kg	97	64-124	Q36882		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
230127 Gasoline Range Organics (GRO)	2.038	2		mg/kg	102	37-126	Q36882		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
230127 Gasoline Range Organics (GRO)	2.039	2		mg/kg	102	37-126	0	0 - 34	Q36882

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			Q37003		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	77.4	80		mg/kg	97	55-109	Q37003		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
230116 Diesel Range Organics (DRO)	66.7	80		mg/kg	83	50-117	Q37003		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
230116 Diesel Range Organics (DRO)	68.8	80		mg/kg	86	50-117	3	0 - 24	Q37003



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

Level II QC Report

11/19/08

N. C. Department of Transportation
 Attn: Ben Bradley
 c/o Schnabel Engineering
 11 A Oak Branch Drive
 Greensboro, NC 27407

Project Name: Hardees, Boone, NC
Project ID: NCDOT Parcel 64
Project No.: WBS #35015.1.1

COC Group Number: G1108268
Date/Time Submitted: 11/07/08 15:55

Oil and Grease by Soxhlet Extraction, method 9071A

Method Blank							QC Batch ID	
	Result	RL	Control Limit	Units				
Oil and Grease	ND	35	<17.5	mg/kg			Q37095	
Laboratory Control Sample								
	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
Oil and Grease	5112	4995	mg/kg	102	80-120	Q37095		
Matrix Spike								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID		
230390 Oil and Grease	24949	24286	mg/kg	101	80-120	Q37095		
Matrix Spike Duplicate								
Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
230390 Oil and Grease	25167	24488	mg/kg	102	80-120	1	0 - 20	Q37095

#-See Case Narrative



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: Schnabel Engineering

Report To/Contact Name: Ben Bradley

Reporting Address: 11-A Oaks Branch Dr

Greensboro NC 27407

Phone: 336-274-9450 Fax (Yes) (No)

Email (Yes) (No) Email Address: bradley@schnebel-engineering.com

EDD Type: PDF Excel Other

Site Location Name: Hardoes

Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING: Parcel 64, Hardoes

Project Name: Parcel 64, Hardoes

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:

Address:

Purchase Order No./Billing Reference

Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days

"Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved

Samples received after 15:00 will be processed next business day.

Turnaround time is based on business days, excluding weekends and holidays.

(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
Received ON WET ICE? Temp 3-9
PROPER PRESERVATIVES indicated?
Received WITHIN HOLDING TIMES?
CUSTODY SEALS INTACT?
VOLATILES rec'd W/OUT HEADSPACE?
PROPER CONTAINERS used?

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL

Certification: NELAC USACE FL NC

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				
B-64-01	11-6-08	11:00	Soil	6,VOA	5				230125
B-64-02		11:10			4				230126
B-64-03		1:46			4				230127
B-64-04		1:28			4				230128
B-64-05		3:30			4				230129

PRESS DOWN FIRMLY - 3 COPIES

PRISM USE ONLY

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

Additional Comments:

Date: 11-7-08 1350
Date: 11-7-08 1555
Date: 11-7-08 1555
COC Group No. 61108268

Received By: (Signature) Ben Bradley
Received By: (Signature) Ben Bradley
Received for: Prism Laboratory By: Ben Bradley

Method of Shipment: 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.
 Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC
GRINDWATER: NC SC NC SC
DRINKING WATER: NC SC NC SC
SOLID WASTE: NC SC NC SC
RCRA: NC SC NC SC
CERCLA: NC SC NC SC
LANDFILL: NC SC NC SC
OTHER: NC SC NC SC

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL