North Carolina Department of Transportation

PRELIMINARY SITE ASSESSMENT FOR PARCEL 132

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



May 30, 2008 Revised June 10, 2008 Project Number 07210023.07



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 132 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 six sites (seven parcels) located within the proposed right-of-way that are 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 132. The property is located at 1100 East King Street and is occupied by a Hyundai Dealership, currently owned by Dale and James Greene Investment (Figure 1). The property is located on the south side of East King Street at the Delmar Street intersection. 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 March 3, 2008 and was initiated based on a Notice to Proceed issued by the NCDOT Geotechnical Engineering Unit on March 4, 2008 under contract 7000008010, dated May 31, 2007.

2.0 BACKGROUND AND SITE DESCRIPTION

No buildings were located on the right-of-way of Parcel 132. The surface of the right-of-way was covered with grass islands and paved driveways to the Hyundai Dealership. Several utilities cross the right-of-way including buried water lines, sewer pipes, 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 March 12, 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. The Schnabel geophysical crew returned to the Study Area on March 21, 2008 to perform 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, conduits, and the presence of a probable UST along East King Street. The report on the geophysical surveys is included in Appendix B and was previously sent to the NCDOT on May 2, 2008.

After reviewing the background information and geophysical data, Schnabel returned to Parcel 132 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. Seven borings designated B-132-01 through B-132-07 were advanced by Subsurface Environmental Investigations of Statesville, NC along East King Street on April 2, 2008. The locations of the seven soil borings are shown on Figure 3. Borings B-132-01 through B-132-07 were advanced to a total depth of eight feet below ground surface. Borings drilled within the Study Area were advanced with a track-mounted Geoprobe[®] (Model 6610-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.

Soil samples were obtained from each boring using a MacroCore® sampler fitted with a new singleuse, four foot long disposable polyvinyl chloride (PVC) liner. Upon retrieval, a portion of each 2foot 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 at low concentrations in several of the samples screened with the PID. Concentrations ranged from not detected to 170 parts per million (B-132-07, 8-8 ft depth). PID readings were above zero in samples from each boring except B-132-06. Readings were highest at 6 to 8 foot depth sample. The PID was calibrated on March 29, 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. 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-132-02 because of its proximity to the probable UST.

Soils collected from borings within the Study Area generally consisted of silty sand (SM) or sandy silt (ML). Probable fill materials were present at depths of 2 to 6 feet. 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 <u>DISCUSSION OF RESULTS</u>

Soil samples were collected from Geoprobe borings at Parcel 132 and analyzed for TPH-DRO, TPH-GRO, and Oil and Grease. TPH-DRO was detected in samples from the 6 to 8 foot depth interval in B-132-01 through B-132-05, and B-132-07 at estimated concentrations of 29 mg/kg, 22 mg/kg, 6.2J mg/kg, 64 mg/kg, 510 mg/kg, and 500 mg/kg, respectively. TPH-GRO was detected in samples from the 6 to 8 ft interval in B-132-01 through B-132-05, and B-132-05, and B-132-07 at estimated concentrations of 56 mg/kg, 36 mg/kg, 10 mg/kg, 180 mg/kg, 2,800 mg/kg, and 1,400 mg/kg, respectively. A "J" value indicates that the analyte was positively identified but the value is estimated below the reporting limit.

Field screening with a PID was performed at two foot intervals in each boring, providing an indication of the vertical extent of the contamination. Field screening results were 0 ppm for the 0 to 6 ft interval for all borings except B-132-01 and B-132-04 located near the probable UST. Alternate sources of the contamination are the apparent off site up-gradient Wilco-Hess gas station located to the northeast of Parcel 132, and the apparent cross-gradient Wilco gas station located to the north of Parcel 132. The extent of the horizontal soil contamination may extend to the southeast of the DOT right-of-way on Parcel 132, to the northwest of the soil borings onto East King Street, to the north of soil boring B-132-05, and to the southwest of soil boring B-132-04. The area of petroleum impacted soil has not been completely vertically defined.

Sample B-132-06 from the 6 to 8 foot depth interval had TPH-GRO and TPH-DRO 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 <u>SUMMARY AND CONCLUSIONS</u>

The geophysical survey conducted at the site indicated the presence of a probable UST located on the westernmost grass island of Parcel 132 near soil borings B-132-01 through B-132-04. The geophysical survey also indicated the presence of buried utility lines and conduits. Seven soil borings (B-132-01 through B-132-07) were advanced to evaluate potential petroleum contamination within the Study Area, as well as to document soil conditions. Laboratory results indicated soil contamination at soil borings B-132-01 through B-132-07.

TPH-GRO was detected in soil samples at a depth of 6 to 8 feet in B-132-01 through B-132-05, and B-132-07 at estimated concentrations of 56 mg/kg, 36 mg/kg, 10 mg/kg, 180 mg/kg, 2,800 mg/kg, and 1,400 mg/kg, respectively. TPH-DRO was detected in soil samples at a depth of 6 to 8 feet in B-132-04, B-132-05, and B-132-07 at estimated concentrations of 64 mg/kg, 510 mg/kg, and 500 mg/kg, respectively. These concentrations exceed the TPH Action Level of 10 mg/kg for GRO and 40 mg/kg for DRO (*UST Section Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases, Department of Environment and Natural Resource, Division of Waste Management, UST Section, July, 2007*).

Laboratory results indicate that TPH-DRO was present at depths of 6 to 8 ft in borings B-132-01, B-132-02, and B-132-07. These concentrations of TPH-DRO were below the TPH Action Level of 40 mg/kg in these samples. Laboratory analytical results for TPH-GRO and TPH-DRO were below the laboratory analytical reporting limits for soil boring B-132-06. Oil and Grease was below the laboratory analytical reporting limit for soil boring B-65-01.

6.0 <u>RECOMMENDATIONS</u>

Soil contamination is expected to be encountered during the excavation activities in the right-of-way of Parcel 132. The NCDOT should properly transport and treat the excavated soil in the vicinity of these soil borings. During roadway construction, the NCDOT transportation/disposal contractor may use different criteria for estimating impacted soil.

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 March 3, 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 MEASUREMENTS PARCEL 132 NCDOT U-4020, WATAUGA COUNTY

Sample Depth Below	Soil Borings												
Ground Surface	B-132-01	B-132-02	B-132-03	B-132-04	B-132-05	B-132-06	B-132-07						
Ground Sunace		PID (ppm)											
0 - 2 feet	ND	ND	ND	ND	ND	ND	ND						
2 - 4 feet	ND	ND	ND	0.7	ND	ND	ND						
4 - 6 feet	1	ND	ND	0.6	ND	ND	ND						
6 - 8 feet	22.5	3.6	5.9	53.8	170	ND	117						

Shaded cells were submitted for laboratory analysis

NS = Not Sampled

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

PID readings were obtained using a MiniRae Photo Ionization Detector

ppm = parts per million

TABLE 2 SUMMARY OF LABORATORY RESULTS PARCEL 132 NCDOT U-4020, WATAUGA COUNTY

Boring No.	Depth (ft)	Matrix	TPH-GRO	TPH-DRO	Oil and Grease
B-132-01	0 - 2	Soil	NS	NS	NS
B-132-01	2 - 4	Soil	NS	NS	NS
B-132-01	4 - 6	Soil	NS	NS	NS
B-132-01	6 - 8	Soil	56	29	NS
B-132-02	0 - 2	Soil	NS	NS	BRL
B-132-02	2 - 4	Soil	NS	NS	NS
B-132-02	4 - 6	Soil	NS	NS	NS
B-132-02	6 - 8	Soil	36	22	NS
B-132-03	0 - 2	Soil	NS	NS	NS
B-132-03	2 - 4	Soil	NS	NS	NS
B-132-03	4 - 6	Soil	NS	NS	NS
B-132-03	6 - 8	Soil	10	6.2 J	NS
B-132-04	0 - 2	Soil	NS	NS	NS
B-132-04	2 - 4	Soil	NS	NS	NS
B-132-04	4 - 6	Soil	NS	NS	NS
B-132-04	6 - 8	Soil	180	64	NS
B-132-05	0 - 2	Soil	NS	NS	NS
B-132-05	2 - 4	Soil	NS	NS	NS
B-132-05	4 - 6	Soil	NS	NS	NS
B-132-05	6 - 8	Soil	2,800	510	NS
B-132-06	0 - 2	Soil	NS	NS	NS
B-132-06	2 - 4	Soil	NS	NS	NS
B-132-06	4 - 6	Soil	NS	NS	NS
B-132-06	6 - 8	Soil	BRL	BRL	NS
B-132-07	0 - 2	Soil	NS	NS	NS
B-132-07	2 - 4	Soil	NS	NS	NS
B-132-07	4 - 6	Soil	NS	NS	NS
B-132-07	6 - 8	Soil	1,400	500	NS
	Regul	atory Conc			
TPH Action Level		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

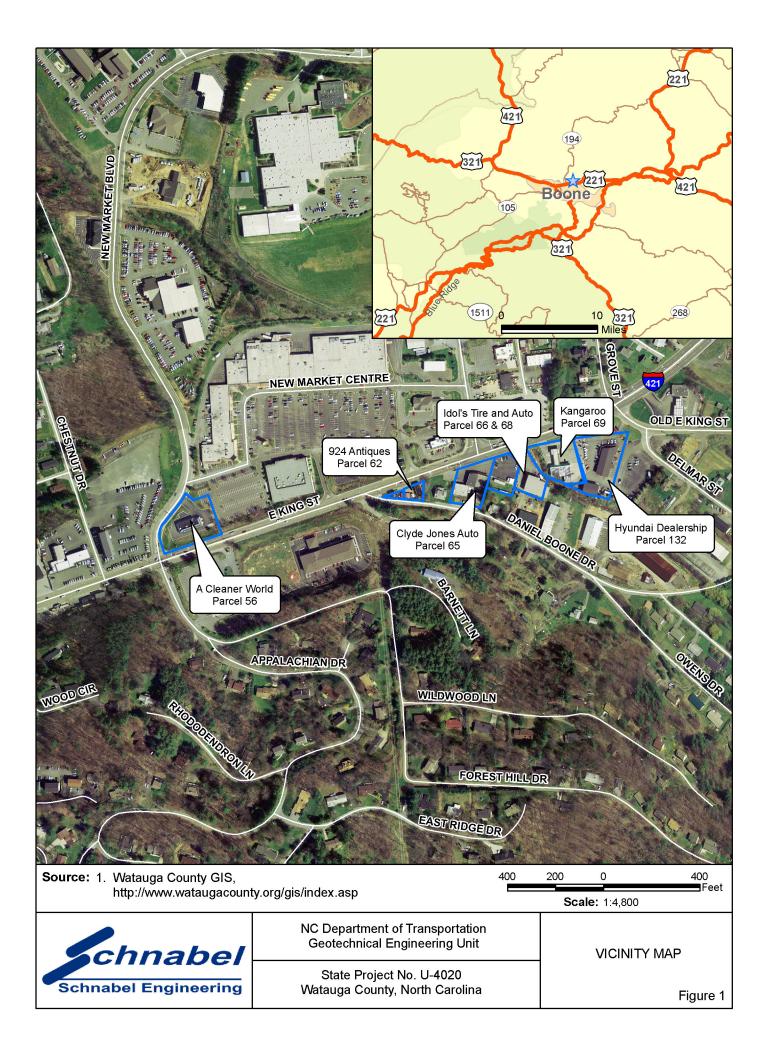
BRL - Below Reporting Limit

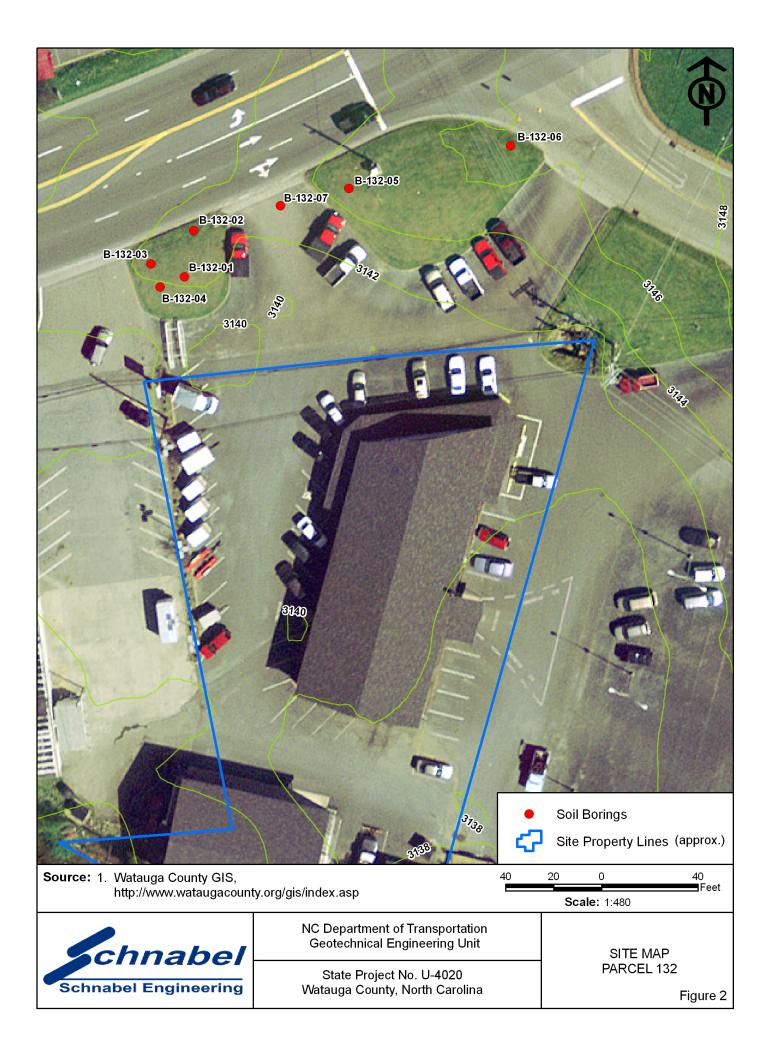
NS - Not Sampled

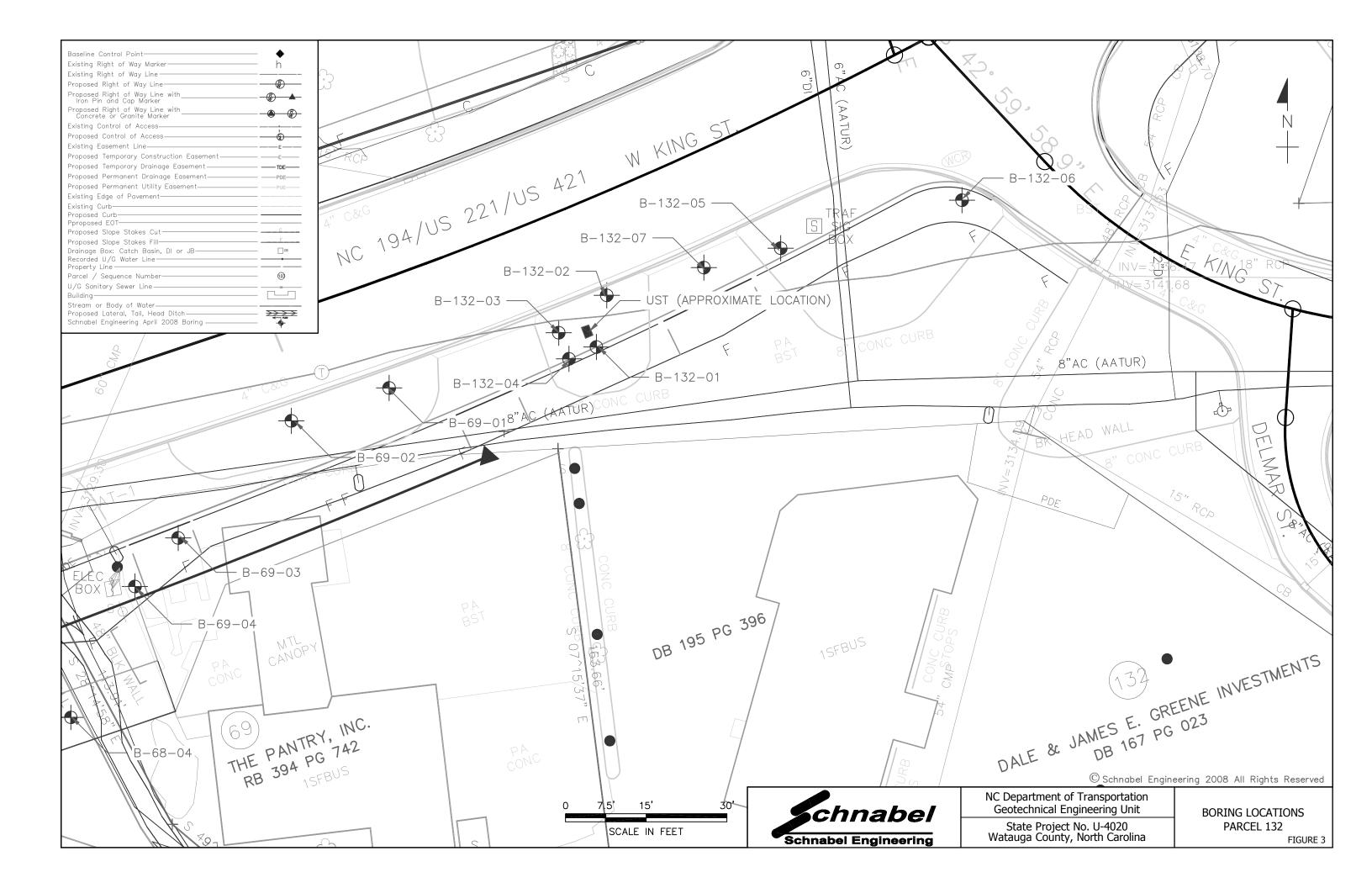
Listed Regulatory Concentrations are from UST Section Guidelines

for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases

FIGURES

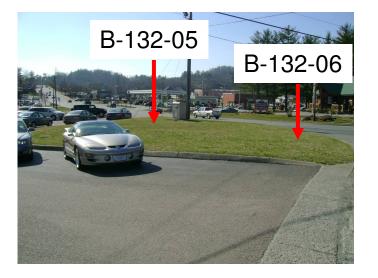


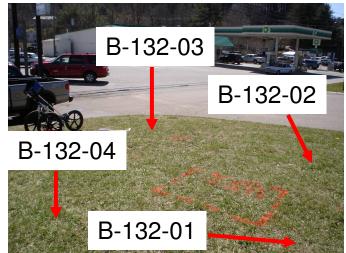




APPENDIX A Photographs

Parcel 132, Hyundai Dealership









APPENDIX B Geophysics Report



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May 2, 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 132 Schnabel Engineering Project No. 07210023.07

Dear Mr. Parker:

This letter contains our report on the geophysical surveys we conducted on the subject property. The report includes one 8.5x11 color figure and two 11x17 color figures.

1.0 INTRODUCTION

Schnabel Engineering conducted geophysical surveys on March 12 and March 21, 2008, in the accessible areas of Parcel 132 (Dale and James Greene Investment Property, Mack Brown Hyundai Dealership) under our 2007 contract with the NCDOT. Parcel 132 is located south corner of US 421 (King Street) and Delmar Street. 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 one to two feet apart in orthogonal directions over anomalous EM readings not attributed to cultural features. A possible UST was located and marked on the ground at this site. Pictures of the location of this possible UST as marked in the field are shown in Figure 1.

3.0 DISCUSSION OF RESULTS

The contoured EM61 data are shown on Figures 2 and 3. The EM61 early time gate results are plotted on Figure 2. The early time gate data provide the most sensitive detection of metal object targets, regardless of size. Figure 3 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 show linear anomalies probably caused by buried utilities and anomalies caused by known site features (Figures 2 and 3). GPR surveys over an anomaly located in the grassy island along the western edge of the parcel indicated the presence of a possible UST. An example GPR image showing the reflection from the possible UST is shown on Figures 2 and 3. Figures 2 and 3 also include the location of the possible UST as marked in the field. The GPR data indicate that the possible UST is buried about 3 to 4 feet below ground surface and is about 3 feet in diameter and about 5 feet long, equivalent to a capacity of approximately 270 gallons.

4.0 CONCLUSIONS

Our evaluation of the geophysical data collected on Parcel 132 of Project U-4020 in Boone, NC indicates the following:

The geophysical data indicate the presence of a possible UST on Parcel 132. The possible UST is about 270-gallon capacity and is buried about 3 to 4 feet below ground surface.

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,

howeve

Jeremy S. Strohmeyer, P.G. Project Manager

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



Parcel 132 – Mack Brown Hyundai, looking southeast UST: 3' x 5'

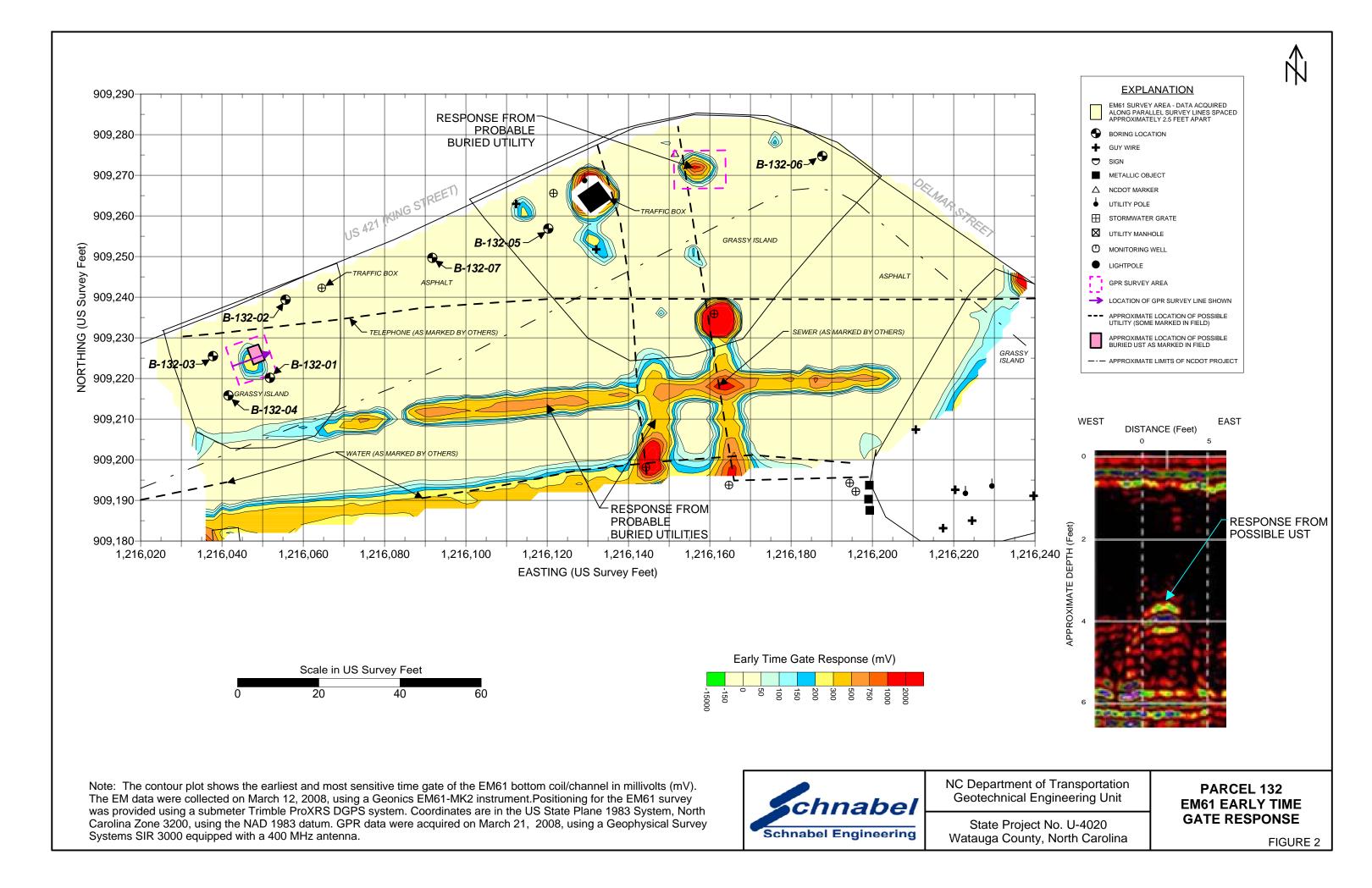


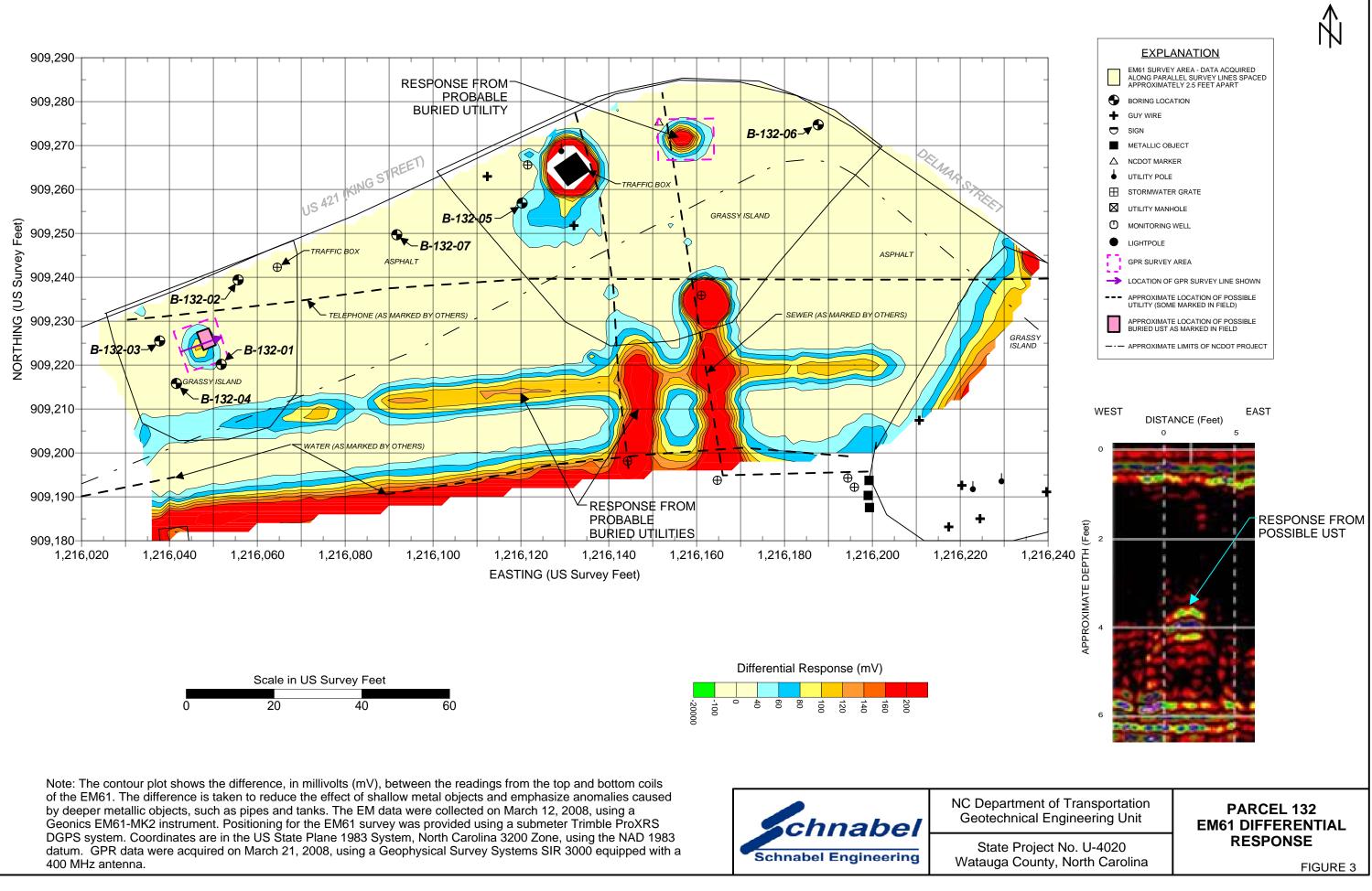
Parcel 132 – Mack Brown Hyundai, looking southwest UST: 3' x 5'

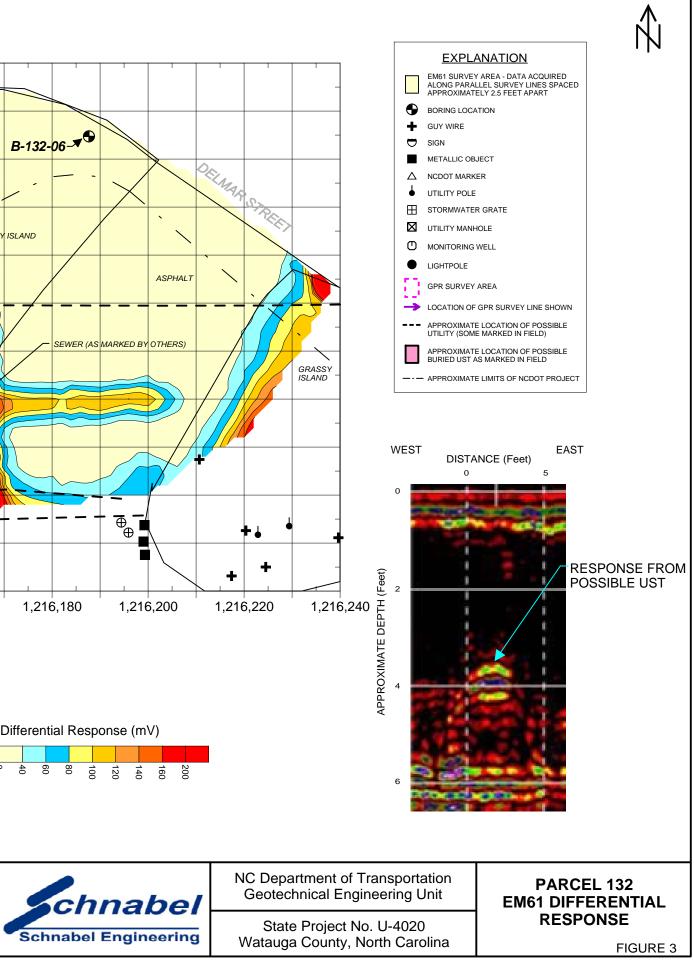


NC Department of Transportation Geotechnical Engineering Unit

State Project No. U-4020 Watauga County, North Carolina PARCEL 132 PHOTOS OF POSSIBLE UST LOCATIONS







APPENDIX C Soil Boring Logs

GEO PROBE Project: NCDOT Preliminary Site Assessments Watauga County Watauga County									S	Geo Probe Number: B-132-01							
	abel Engineering	LOG					Carolina						Contract Number: 7210023.07 Sheet: 1 of 1				
Contrac	tor: Subsurface E Statesville, N	nvironmental C	Investigation	S						1	Ground Date	lwater Ot Time	servations	Cooing	Cavad		
Contrac	tor Foreman: Wa										Depth	Casing	Caved				
Schnab	el Representative:	Ben Bradley					Aft	er Drill	ing		4/2	11:51 A	M Dry				
	ent: Geoprobe 66	10DT															
Method	Geoprobe, Macrocore																
Hamme	r Type: NA																
Dates	Started: 4/2/08	Finished: 4/	2/08														
X: 1215	377 ft Y: 908944 f	t															
Ground	Surface Elevation:	: 3142± (ft)	Total Dep	th: 8.0) ft												
DEPTH (ft)	MATERIA	L DESCRIPTI	ON	SYME	BOL	ELE (ft)		STRA TUM	DEP		AMPLING		TESTS	R	EMARKS		
	Topsoil				<u>, 17</u> .					 							
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				FILL													
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	silt, moist, brow fine to coarse gr	n, estimated 5	- 10%														
-	-			FILL		-	-		_	_							
4.0 -	PROBABLE FIL silt, moist, brow	L, sampled as n	sandy			-3138	3.1-		_		-	F	PID = 0 ppm				
_				FILL			_		- 5	_							
6.0 -	SANDY SILT, m RESIDUAL mat				Ĩ	3136	5.1-		_		-	F	PID = 1.0 ppi	m			
	recognized	onal, policioa															
				ML		-	_		_	-							
8.0 -						3134	l.1-					\ ∧ F	PID = 22.5 pr	om /			
	Bottom of Geo F	Probe at 8.0 ft									·	(·	P				
	Boring terminate Boring backfilled	ed at selected	depth.	lation													
	During backnilled		e upon comp	Jetion.													
5																	
5																	

Schnabel Engineering Depth Note and the second sec
Statesville, NC Date Time Depth Casing Caved Contractor Foreman: Walt Davis After Drilling 4/2 11:59 AM Dny Schnabel Representative: Ben Bradley Equipment: Geoprobe, Macrocore
Outractor Foreman: Walt Davis Schnabel Representative: Ben Bradley Equipment: Geoprobe 6610DT After Drilling 4/2 11:59 AM Dry Method: Geoprobe, Macrocore Macrocore Hammer Type: NA Dates Started: 4/2/08 Finished: 4/2/08 X: 1215312 ft Y: 908983 ft Ground Surface Elevation: 3142± (ft) Total Depth: 8.0 ft DEPTH (ft) MATERIAL DESCRIPTION SYMBOL ELEV (ft) STRA TUM SAMPLING DEPTH TESTS REMARKS 0.3 Topsoil 2.0 PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand S-1 PID = 0 ppm
Schnabel Hepresentative: Ben Bradley Equipment: Geoprobe 6610DT Method: Geoprobe, Macrocore Hammer Type: NA Dates Started: 4/2/08 Finished: 4/2/08 X: 1215312 ft Y: 908983 ft Ground Surface Elevation: 3142± (ft) Total Depth: 8.0 ft DEPTH (ft) MATERIAL DESCRIPTION SYMBOL ELEV (ft) STRA TUM SAMPLING DEPTH DATA Topsoil PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand
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DEPTH (ft) MATERIAL DESCRIPTION SYMBOL ELEV (ft) STRA TUM SAMPLING DEPTH TESTS REMARKS 0.3 Topsoil 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3141.9 3140.2 3140.2 3140.2 5-1 PID = 0 ppm
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(ft) MATERIAL DESCRIPTION SYMBOL (ft) TUM DEPTH DATA TESTS HEMARKS 0.3 Topsoil (ft) TUM DEPTH DATA IESTS HEMARKS 0.3 Topsoil (ft) 100 (ft) TUM DEPTH DATA IESTS HEMARKS 0.3 Topsoil (ft) 110 (ft) 100 DEPTH DATA IESTS HEMARKS 0.3 PROBABLE FILL, sampled as sandy silt, moist, brown FILL 3140.2- -
0.3 PROBABLE FILL, sampled as sandy silt, moist, brown 3141.9 2.0 FILL - PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand 3140.2-
2.0 FILL FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand
2.0 PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand 3140.2 - S-1 PID = 0 ppm
PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand
PROBABLE FILL, sampled as sandy silt, moist, brown, estimated 5 - 10% fine to coarse grained sand
silt, moist, brown, estimated 5 - 10% fine to coarse grained sand
4.0 PROBABLE FILL, sampled as sandy 3138.2 PID = 0 ppm
silt, moist, brown
6.0 SANDY SILT, moist, gray, probable RESIDUAL material, petroleum odor
recognized
S=2 / PID = 3.6 ppm /
Bottom of Geo Probe at 8.0 ft. Boring terminated at selected depth.
Boring backfilled with bentonite upon completion.

GEO Project: NCDOT Preliminary Site Assessments Watauga County									ts	Geo Probe Number: B-132-03				
	abel Engineering	PROBE LOG		Wataug Boone,			na			Contract Number: 7210023.07 Sheet: 1 of 1				
	tor: Subsurface E	nvironmental	nvestigatior						Ground	lwater Obs				
Contrac	Statesville, N tor Foreman: Wa:								Date	Time	Depth	Casing	Caved	
	el Representative:					After Drilling 4/2			11:08 AM	Dry				
	ent: Geoprobe 66	-												
Method	Geoprobe,													
	Macrocore					-								
Hamme	r Type: NA													
	Started: 4/2/08	Finished: 4/	2/08											
X: 1215	223 ft Y: 908953 f	t												
Ground	Surface Elevation:	3142+ (ft)	Total Dep	hth 8(ך ft									
			10101 201										<u> </u>	
DEPTH (ft)	MATERIA	L DESCRIPTI	ON	SYM	BOL	ELEV (ft)	STRA TUM	S DEPTH	AMPLING	4	TESTS	RE	EMARKS	
0.3	Topsoil					3141.8								
	PROBABLE FIL silt, moist, brow	.L, sampled as n	sandy											
-				FILL			-							
2.0 -						3140.1	_	- -						
	PROBABLE FIL silt, moist, brow	n, estimated 5	sandy - 10%							PII	D = 0 ppm			
	fine to coarse gr	ained sand												
-				FILL			-	- 1						
4.0 -	PROBABLE FIL	l sampled as	sandy		- 💥 :	3138.1	-	- +	_	PI	D = 0 ppm			
	silt, moist, brow	n	Sundy								5 – 0 ppm			
_				FILL				- 5 -						
2														
6.0 -	SANDY SILT, m	oist, gray, pro	bable		÷	3136.1	-	\vdash $+$		PII	D = 0 ppm			
	RESIDUAL mate recognized	erial, petroleur	n odor											
-				ML			_							
1														
						104 4								
8.0 -						3134.1			S-1		D = 5.9 ppr	n		
	Bottom of Geo F Boring terminate													
	Boring backfilled			pletion.										
5														
5														
1														

	• chnabel	GEO PROBE	-			-	Site As	sessmer	nts		obe Numbe		32-04
	abel Engineering	LOG		Wataug Boone,			ia			Contract Number: 7210023.07 Sheet: 1 of 1			
Contrac	tor: Subsurface E Statesville, N	nvironmental C	Investigatior	าร					Ground Date	dwater Obs		Casing	Caved
Contrac	tor Foreman: Wa									-	Depth	Casing	
Schnab	el Representative:	Ben Bradley				A	fter Drill	ling	4/2	11:28 AM	Dry		
	ent: Geoprobe 66	10DT											
Method:	Geoprobe, Macrocore												
Hamme	r Type: NA												
	Started: 4/2/08	Finished: 4/	2/08										
X : 1214	306 ft Y: 908751 f	t											
Ground	Surface Elevation:	: 3142± (ft)	Total Dep	oth: 8.0) ft			1					
DEPTH (ft)	MATERIA	L DESCRIPTI	ON	SYME	BOL	ELEV (ft)	STRA TUM	DEPTH	Sampling I Dat <i>i</i>		TESTS	RE	MARKS
	Topsoil				<u>x17</u>								
0.3	PROBABLE FIL silt, moist, brown	L, sampled as n	sandy			3141.6							
				FILL			_						
2.0 -						3139.9	_		_				
	PROBABLE FIL silt, moist, brown	n, estimated 5	sandy - 10%							PI	D = 0 ppm		
	fine to coarse gr	rained sand		FILL									
4.0 -	PROBABLE FIL	L, sampled as	sandy		\bigotimes	3137.9	-			PI	D = 0.7 ppr	n	
	silt, moist, brow	n											
_				FILL			_	- 5 -					
6.0 -						3135.9							
0.0	SANDY SILT, m RESIDUAL mate	noist, gray, pro erial, petroleur	bable n odor			0100.0				PI	D = 0.6 ppr	n	
	recognized												
				ML			-						
8.0						3133.9			S-1	 ∖PI	D = 53.8 pp	om /	
	Bottom of Geo F	Probe at 8.0 ft.											
	Boring terminate Boring backfilled			oletion									
	Doning baokinot			piotion									
5													
5													

GEO Project: NCDOT Preliminary Site Assessments Watauga County										nts	Geo Probe Number: B-132-05				
	abel Engineering	PROBE LOG		Wataug Boone,			olina	a				Contract Number: 7210023.07 Sheet: 1 of 1			
Contrac	tor: Subsurface E Statesville, N	invironmental	Investigatio	ns								servations			
Contrac	tor Foreman: Wa					-				Date	Time	Depth	Casing	Caved	
Schnab	el Representative:	Ben Bradley					Aft	er Drill	ing	4/2	1:03 PN	M Dry			
Equipm	ent: Geoprobe 66	10DT													
Method:	Geoprobe, Macrocore														
Hamme	r Type: NA														
Dates	Started: 4/2/08	Finished: 4/	2/08												
X: 12143	303 ft Y: 908815 f	t													
Ground	Surface Elevation:	: 3144± (ft)	Total Dep	oth: 8.0	D ft			-							
DEPTH	MATERIA	L DESCRIPTI	ON	SYME	BOL	ELE		STRA	:	SAMPLING	i	TESTS	BE	MARKS	
(ft)			-			(ft)		TUM	DEPTI	H DAT	Α			_	
0.3	Topsoil				XXX	3143	8.9								
	PROBABLE FIL silt, moist, brown	L, sampled as n	sandy												
-				FILL		-	-								
2.0 -						-3142	2.2-								
	PROBABLE FIL silt, moist, brown	L, sampled as nish gray, estii	s sandy mated								ŀ	PID = 0 ppm			
	<5% organics														
_				FILL		-	_								
4.0 -	SANDY SILT, m	oist. grav. pro	bable			-3140).2-				F	PID = 0 ppm			
	RESIDUAL mate	erial													
_				ML					- 5 -						
8									_						
5															
6.0 -	SANDY SILT, m	oist, brownish	gray,			-3138	8.2-				F	PID = 0 ppm			
	probable RESID petroleum odor	recognized													
-				ML		_	_								
8.0						-3136	i 2-		L _						
						2.00				S-1	/[PID = 170 pp	m /		
	Bottom of Geo F Boring terminate														
	Boring backfilled			pletion.											
5															
5															

	• chnabel		Project:		NCDOT Preliminary Site Assessments Watauga County Contract Numb								mber: B-132-06 per: 7210023.07		
Schna	abel Engineering	LOG		Boone,	North	n Caro	olina	l 👘					: 1 of 1		
Contrac	tor: Subsurface E Statesville, N	nvironmental C	Investigatio	ns							Ground Date	lwater Ol Time	bservations	Casing	Caved
Contrac	tor Foreman: Wa	It Davis					A 44		line		4/2	12:38 P			
Schnab	el Representative:	Ben Bradley					Alte	er Drill	ing		4/2	12.30 F	M Dry		
Equipm	ent: Geoprobe 66	10DT													
Method:	Geoprobe, Macrocore														
Hamme	r Type: NA														
Dates	Started: 4/2/08	Finished: 4/	2/08												
X: 12143	352 ft Y: 908883 f	t													
Ground	Surface Elevation:	: 3156± (ft)	Total De	pth: 8.0	D ft										
													l		
DEPTH (ft)	MATERIA	L DESCRIPTI	ON	SYM	BOL	ELE' (ft)		STRA TUM	DEPT	-	MPLING		TESTS	RE	MARKS
0.3	Topsoil				<u>v, 1</u>	3155	8								
0.5	PROBABLE FIL silt, moist, brown	L, sampled as n	sandy			5155	.0								
_				FILL		-	-								
2.0 -	PROBABLE FIL	L, sampled as	sandy		Ŵ	-3154	.1-		- ·				PID = 0 ppm		
	silt, moist, browi <5% organics	nish gray, estir	nated												
				FILL		_			L.						
4.0 -	PROBABLE FIL		aandu			-3152	.1-		- ·	_	_		PID = 0 ppm		
	silt, moist, browi	n, estimated <	5%										PD = 0 ppm		
	organics														
				FILL					- 5 -						
						0450									
6.0 -	SANDY SILT, m	noist, brown, e	stimated			-3150	.1-		- ·				PID = 0 ppm		
	<5% terra cotta, material	probable RES	SIDUAL												
_				ML		_	_		L .						
8.0						-3148	.1		Ŀ.		S-1		PID = 0 ppm	}	
											<u> </u>	/	ib = 0 ppm]	
	Bottom of Geo F Boring terminate														
	Boring backfilled			pletion.											

	GEO PROBE LOG Project: NCDOT Preliminary Site Assessments Schnabel Engineering LOG Boone, North Carolina										Geo Probe Number: B-132-07 Contract Number: 7210023.07 Sheet: 1 of 1				
Contrac	tor: Subsurface E Statesville, N	nvironmental C	Investigatior	าร						1	Ground Date	lwater Ol Time	servations	Casing	Caved
	tor Foreman: Wal					-	Δfi	er Drill	ina		4/2	2:16 PI	· ·		
	el Representative:	-				-				-		2.1011			
	ent: Geoprobe 66 [.] : Geoprobe,	1001								_					
	Macrocore														
Hamme	r Type: NA														
		Finished: 4/	2/08												
X: 12143	370 ft Y: 908904 ft	t													
Ground	Surface Elevation:	3143± (ft)	Total Dep	oth: 8.0	D ft			I	1						
DEPTH (ft)	MATERIA	L DESCRIPTI	ON	SYMI	BOL		EV t)	STRA TUM	DEPT		IPLING DATA		TESTS	RI	EMARKS
	Asphalt									Π					
0.6	PROBABLE FIL	L, sampled as	sandy		\otimes	314	12.4								
-	silt, moist, gray, fragments	estimated <5	% rock	FILL			-								
2.0 -	SANDY SILT, m	oist, gray, pro	bable			-314	11.0-					F	PID = 0 ppm		
	RESIDUAL mate	erial													
-						-	-	-							
_				ML		_	_	-							
												F	PID = 0 ppm		
									_						
						_			- 5 -						
6.0 -	SANDY SILT, m	oist, yellowish	ı brown,			-313	87.0-					F	PID = 0 ppm		
	probable RESID petroleum odor r	UAL material, recognized													
-				ML		F	-			$\left\{ \right\}$					
8.0							35.0-			Ц					
										ŀ	S-1	/\	PID = 117 pp	m /	
	Bottom of Geo F Boring terminate	ed at selected	depth.												
	Boring backfilled	I with bentonit	e upon com	pletion.											

<u>APPENDIX D</u> Soil Boring GPS Coordinates

Soil Boring GPS Coordinates NCDOT U-4020, WATAUGA COUNTY

Soil Boring GPS Coordinates										
Boring Identification	Easting	Northing								
Doning identification	Х	Y								
B-132-01	1215377	908944								
B-132-02	1215312	908983								
B-132-03	1215223	908953								
B-132-04	1214306	908751								
B-132-05	1214303	908815								
B-132-06	1214352	908883								
B-132-07	1214370	908904								

* NC State Plane 1983 System, NC 3200 Zone,

NAD 83 Datum, US Survey Feet

<u>APPENDIX E</u> Prism Lab Report

Case Narrative



Date:04/18/08Company:N. C. Department of TransportationContact:Ben BradleyAddress:c/o Schnabel Engineering11 A Oak Branch DriveGreensboro, NC 27407

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s): NCDOT Parcel 132 G0408094 04/02/08 04/03/08

Client Project Name Or No: Hyundai, Boone, NC WBS

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 9 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

See laboratory report for additional comments.

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:	Koth U. Joner	Signature:	Kath U Joren
Review Date:	04/18/08	Approval Date:	04/18/08
			v

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.

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04/18/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-01	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210418	
c/o Schnabel Engineering	Project No.:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	11:50
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination Percent Solids	72.1	%			1	SM2540 G	04/08/08 12:35	mbarber	
T elcent Solids	72.1	70				01112040 0	04/00/00 12:00		
Diesel Range Organics (DRO) by G	C-FID								
Diesel Range Organics (DRO)	29	mg/kg	9.5	1.5	1	8015B	04/10/08 16:08	jvogel	Q31647
Sample Preparation:			2	5.5 g	' 1 mL	3545	04/09/08 10:00) wconder	P21297
					Surrogate)	% Recover	y Cor	ntrol Limits
					o-Terphen	ıyl	62		49 - 124
Gasoline Range Organics (GRO) b	y GC-FID								
Gasoline Range Organics (GRO)	56	mg/kg	6.9	4.3	50	8015B	04/08/08 23:01	wbradley	Q31561

Surrogate
aaa-TFT

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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

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N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-02	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210419	
c/o Schnabel Engineering	Project No.:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	12:15
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Tir		Analyst	Batch ID
Percent Solids Determination Percent Solids	79.2	%			1	SM2540 G	04/08/08	12:35	mbarber	
Oil and Grease by Soxhlet Extraction Oil and Grease	1 BRL	mg/kg	44	44	1	9071A	04/17/08	10:00	smanivanh	Q31844
Diesel Range Organics (DRO) by GC Diesel Range Organics (DRO)	<u>-FID</u> 22	mg/kg	8.7	1.4	1	8015B	04/10/08	16:44	jvogel	Q31647
Sample Preparation:			25	.43 g /	1 mL	3545	04/09/08	10:00	wconder	P21297
					Surrogate	•	% Re	covery	· Cor	ntrol Limits
					o-Terphen	yl		69		49 - 124
Gasoline Range Organics (GRO) by Gasoline Range Organics (GRO)	<u>GC-FID</u> 36	mg/kg	6.3	4.0	50	8015B	04/08/08	23:32	wbradley	Q31561
					Surrogate)	% Re	covery	r Coi	ntrol Limits
					aaa-TFT			98		55 - 129

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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

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04/18/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-03	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210420	
c/o Schnabel Engineering	Project No.:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	11:30
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination						199 You la confirmation .			n h 11 - dahat I
Percent Solids	80.2	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GO	<u>C-FID</u>								
Diesel Range Organics (DRO)	6.2 J	mg/kg	8.6	1.4	1	8015B	04/10/08 17:20	jvogel	Q31647
Sample Preparation:			2	25.4 g /	1 mL	3545	04/09/08 10:00) wconder	P21297
					Surrogate	•	% Recover	y Cor	trol Limits
					o-Terphen	yl	81		49 - 124
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	10	mg/kg	6.2	3.9	50	8015B	04/09/08 0:04	wbradley	Q31561
					Surrogate	1	% Recover	y Cor	trol Limits

aaa-TFT

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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

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04/18/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-04	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210421	
c/o Schnabel Engineering	Project No.:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	11:00
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination					_				
Percent Solids	72.1	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by (GC-FID								
Diesel Range Organics (DRO)	64	mg/kg	9.6	1.5	1	8015B	04/10/08 18:31	jvogel	Q31647
Sample Preparation:	:		25	.31 g	/ 1 mL	3545	04/09/08 10:00	wconder	P21297
					Surrogate	3	% Recovery	r Cont	rol Limits
					o-Terphen	yl	86		49 - 124
Gasoline Range Organics (GRO) E Gasoline Range Organics (GRO)	oy GC-FID 180	mg/kg	6.9	4.3	50	8015B	04/09/08 0:35	wbradley	Q31561
					Surrogate	•	% Recovery	r Cont	trol Limits
					aaa-TFT		109		55 - 129

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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

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04/18/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-05	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210422	
c/o Schnabel Engineering	Project No.:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	13:15
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

		Limit		Factor		Date/Time		ID
57.8	%			1	SM2540 G	04/08/08 12:35	mbarber	
D								
510	mg/kg	61	9.8	5	8015B	04/11/08 7:48	jvogel	Q31647
		25.	.14g /	1 mL	3545	04/09/08 10:00) wconder	P21297
				Surrogate		% Recover	y Coi	ntrol Limits
				o-Terphen	yl	68		49 - 124
<u>-FID</u> 2800	mg/kg	350	220	2000	8015B	04/09/08 12:12	wbradley	Q31561
•	<u>D</u> 510	<u>D</u> 510 mg/kg <u>-FID</u>	<u>D</u> 510 mg/kg 61 25. <u>-FID</u>	D_ 510 mg/kg 61 9.8 25.14 g / <u>-FID</u>	D 510 mg/kg 61 9.8 5 25.14 g / 1 mL <u>Surrogate</u> o-Terphen	D 510 mg/kg 61 9.8 5 8015B 25.14 g / 1 mL 3545 Surrogate o-Terphenyl	D 510 mg/kg 61 9.8 5 8015B 04/11/08 7:48 25.14 g / 1 mL 3545 04/09/08 10:00 Surrogate % Recovery o-Terphenyl 68	D 510 mg/kg 61 9.8 5 8015B 04/11/08 7:48 jvogel 25.14 g / 1 mL 3545 04/09/08 10:00 wconder Surrogate % Recovery Cor o-Terphenyl 68 -FID

Surrogate
aaa-TFT

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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.

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04/18/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-06	
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210423	
c/o Schnabel Engineering	Project No .:	WBS #7210023.07	COC Group:	G0408094	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	12:45
Greensboro, NC 27407			Time Submitted:	04/03/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	78.7	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GO	<u>-FID</u>								
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	04/10/08 19:43	jvogel	Q31647
Sample Preparation:			25	.13g /	1 mL	3545	04/09/08 10:00	wconder	P21297
					Surrogate		% Recovery	Con	trol Limits
					o-Terpheny	y 1	83		49 - 124
Gasoline Range Organics (GRO) by Gasoline Range Organics (GRO)	<u>GC-FID</u> BRL	mg/kg	1.3	0.026	1	8015B	04/04/08 23:06	wbradley	Q31508
					Surrogate		% Recovery	Con	trol Limits

aaa-TFT

Sample	Comment(s):	
--------	-------------	--

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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

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Level II QC Report

- 04/18/08

N. C. Department of Transportation	Project	Hyundai, Boone, NC	COC Group Number: G0408094
Attn: Ben Bradley	Name:		Date/Time Submitted: 4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 132	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	
Greensboro, NC 27407			

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

	Denth	RL	0						QC Batch ID
	Result	RL.	Control Limit	Units					UI
Gasoline Range Organics (GRO)	ND	1	<0.5	mg/kg					Q31508
Laboratory Control Sample	Result	Spike Amou	Int	Units	Recovery %	Recovery Ranges %			QC Batch ID
Gasoline Range Organics (GRO)	1.945	2		mg/kg	97	64-124			Q31508
Matrix Spike					Recoverv	Recovery			QC Batch
Sample ID:	Result	Spike Amou	int	Units	%	Ranges %			ID
210407 Gasoline Range Organics (GRO)	1.868	2		mg/kg	93	37-126			Q31508
Matrix Spike Duplicate Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210407 Gasoline Range Organics (GRO)	1.862	2		mg/kg	93	37-126	0	0 - 34	Q31508
Method Blank	D()		Control Limit						
	Result	RL	Condor Linit	Units					QC Batch ID
Gasoline Range Organics (GRO)	ND	RL 1	<0.5	Units mg/kg					
(GRO)					Recovery	Recovery			ID Q31561
(GRO)			<0.5		Recovery %	Recovery Ranges %			ID Q31561
(GRO)	ND	1	<0.5	mg/kg	-	Ranges			Q31561 QC Batch
(GRO) Laboratory Control Sample Gasoline Range Organics (GRO)	ND Result	1 Spike Arnou	<0.5	mg/kg Units	%	Ranges % 64-124 Recovery			ID Q31561 QC Batch ID Q31561
(GRO) Laboratory Control Sample Gasoline Range Organics (GRO) Matrix Spike	ND Result	1 Spike Arnou	<0.5	mg/kg Units	% 80	Ranges % 64-124			ID Q31561 QC Batch ID Q31561
(GRO) Laboratory Control Sample Gasoline Range Organics (GRO) Matrix Spike Sample ID:	ND Result 1.603	1 Spike Amou 2	<0.5	mg/kg Units mg/kg	% 80 Recovery	Ranges % 64-124 Recovery Ranges			ID Q31561 QC Batch ID Q31561 QC Batch
(GRO) Laboratory Control Sample Gasoline Range Organics (GRO) Matrix Spike Sample ID: 210434 Gasoline Range Organics (GRO)	ND Result 1.603 Result	1 Spike Amou 2 Spike Amou	<0.5	mg/kg Units mg/kg Units	% 80 Recovery %	Ranges % 64-124 Recovery Ranges % 37-126 Recovery		RPD	ID Q31561 QC Batch ID Q31561 QC Batch ID Q31561
(GRO) Laboratory Control Sample Gasoline Range Organics (GRO) Matrix Spike Sample ID: 210434 Gasoline Range Organics	ND Result 1.603 Result	1 Spike Amou 2 Spike Amou	<0.5 int	mg/kg Units mg/kg Units	% 80 Recovery % 83	Ranges % 64-124 Recovery Ranges % 37-126	RPD %	RPD Range %	ID Q31561 QC Batch ID Q31561 QC Batch ID

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Level II QC Report

04/18/08

N. C. Department of Transportation	Project	Hyundai, Boone, NC	COC Group Number: G0408094
Attn: Ben Bradley	Name:		Date/Time Submitted: 4/3/2008 8:30
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 132	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	
Greensboro, NC 27407			

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

Method Blank									
	Result	RL	Control Limit	Units					QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31647
Laboratory Control Sample	Result	Spike Amoun	ıt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	84.2	80		mg/kg	105	55-109			Q31647
Matrix Spike Sample ID:	Result	Spike Amoun	t	Units	Recovery %	Recovery Ranges %			QC Batch ID
210414 Diesel Range Organics (DRO)	69.4	80		mg/kg	87	50-117			Q31647
Matrix Spike Duplicate Sample ID:	Result	Spike Amoun	t	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Balch ID
210414 Diesel Range Organics (DRO)	77.5	80		mg/kg	97	50-117	11	0 - 24	Q31647
Oil and Grease by Soxhlet Extraction	, method §	071A							
Method Blank	Result	RL	Control Limit	Units					QC Batch ID
Oil and Grease	ND	35	<17.5	mg/kg					Q31844
Laboratory Control Sample	Result	Spike Amoun	t	Units	Recovery %	Recovery Ranges %			QC Batch ID
Oil and Grease	5259	5249		mg/kg	100	80-120			Q31844
Matrix Spike Sample ID:	Result	Spike Amoun	ł	Units	Recovery %	Recovery Ranges %			QC Batch ID
210408 Oil and Grease	24951	24793		mg/kg	101	80-120			Q31844
Matrix Spike Duplicate Sample ID:	Result	Spike Amoun	ŧ	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210408 Oil and Grease	25235	24504		mg/kg	103	80-120	1	0 - 20	Q31844

#-See Case Narrative

N NA				PERSONNEL	A	PRISM	LAB ID NO.	લાગ્મારે	àloHic[CEHCIE	והלטום	a lotad	बाभव3		 MLY - 3 COPIES	PRISM USE ONLY	Site Arrival Time:	Site Departure Time: Eicld Tech Foo:		.		
LAB USE ONLY YEŞ	Samples INTACT upon arrival?	PROPER PRESERVATIVES indicated?		TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL Certification: NELAC USACE FL NC	SCOTHERN/A Water Chlorinated: YESNO Sample Iced Upon Collection: YESNO	TED	REMARKS								 PRESS DOWN FIRMLY - 3 COPIES	ING	Additional Comments: Site An		Mileage		Ű	
RECORD	Received	<u></u>	PROPER			Λ NALY	Stand B	X	X X	X	<u> </u>	X	X		ation	Any changes must be	22 Date Military/Hours	Date	H308 830	COC Group No.	<u>୦୦୦୦୦</u> ମାନ୍ତ୍ର	SC NC SC NC SC Image: Second State
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HAIN	PAGE OF QUOTE # TO Project Name:2/(Short Hold Analysis: (Yes) (No) *Please ATTACH any project specific provisions and/or QC Requirements	Invoice To: Address:	er No	"Working Days"	SAMPLE CONTAINER	*TYPE NO. SIZE	G 23		Ú	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Ø	M		4	eed wi	By: (Signature)	-Received by: (Signature) ≬	Hor Prism Laborapries By:	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.	SOLID WASTE:	P = Plastic; TL = Teflon-Lined Cap
U ;			Ad Ad	retend.		MATRIX	WATER OR SLUDGE)	Sei	; ,,		``				Sampled By (Print Name)	Chorization for Pri	Hetel	Nº.	Feceived	APED SHUT WITH CUR D AGAINST COC UNTI	히로	
PRISM LABORATORIES, INC.	Full Service Analytical & Environmental Solutions	5-0409	Longe	x (Yes) (No): spbredity (Schnu	Jame,	TIME		8 1150	2121	/ 1/30	1100	S 12.1	1245	•) Predly	ustody is your au roject Manager.	2210 0	∮ õ		OOLERS SHOULD BE T	Prism Field Service	□ SC Amber C = Cle
	vice Analytical & I	Id • P.O. Box 240 • Fax: 704/525 ume:		<u>이니것 (</u> , Fax (nail Address) Evcel	e: 11 June		DN COLLECTED	0-2-3		, , ,		5	2		 AL.	this Chain of C to the Prism P		M.		E: ALL SAMPLE CO	SI	
	Full Ser	449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0408 Client Company Name: 2. 0. 000 Physics of 1. 0. Report To/Contact Name: 2. 0. 000 Physics of 1. 0.	Reporting Address:	Phone: <u>374-01154.</u> Fax (Yes) (No): Email (Yes) (No) Email Address <u>25754047</u> EDD Two: DDEEvol	Site Location Physical Address: 20000		SAMPLE DESCRIPTION	7-132-01	20-251-6	B-132.03	40-28-1-8	-22-12-4 50-22-6	B-132-06		Samoler's Signature	Upon relinquishing, this Chain of Custody is your aud submitted in writing to the Prism Project Manager. Th	Relinquished By (Signatur	Relingersted By (Signature	Relindhinded By: (Signature)	Method of Shipment: NOT SAM	sulls S: UPS	CONTAINER TYPE CODES:



Case Narrative

Date:04/17/08Company:N. C. Department of TransportationContact:Ben BradleyAddress:c/o Schnabel Engineering11 A Oak Branch DriveGreensboro, NC 27407

Client Project ID: Prism COC Group No: Collection Date(s): Lab Submittal Date(s): NCDOT Parcel 132 G0408139 04/02/08 04/03/08

Client Project Name Or No: Hyundai, Boone, NC WBS

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 3 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

See laboratory report for additional comments.

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:	Roth a. Jover	Signature:	Rothill	Jonen
Review Date:	04/17/08	Approval Date:	04/17/08	

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.

report relate only to the samples submitted for analysis.

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.

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Laboratory Report

04/17/08

N. C. Department of Transportation	Project Name:	Hyundai, Boone, NC	Client Sample ID:	B-132-07		
Attn: Ben Bradley	Project ID:	NCDOT Parcel 132	Prism Sample ID:	210546		
c/o Schnabel Engineering	Project No .:	WBS #7210023.07	COC Group:	G0408139)	
11 A Oak Branch Drive	Sample Matrix:	Soil	Time Collected:	04/02/08	14:13	
Greensboro, NC 27407			Time Submitted:	04/03/08	14:45	

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	-	st Batch ID
Percent Solids Determination Percent Solids	65.5	%			1	SM2540 G	04/08/08 12	2:35 mbarber	
Diesel Range Organics (DRO) by G									
Diesel Range Organics (DRO)	500	mg/kg	53	8.6	5	8015B	04/14/08 17	7:39 jvogel	Q31720
Sample Preparation:			25	.17 g	/ 1 mL	3545	04/10/08 1	7:15 wcond	er P21301
					Surrogate)	% Reco	very C	ontrol Limits
					o-Terphen	yl	8	3	49 - 124
Gasoline Range Organics (GRO) b Gasoline Range Organics (GRO)	<u>y GC-FID</u> 1400	mg/kg	150	95	1000	8015B	04/09/08 12	2:44 wbradley	Q31561
					Surrogate	•	% Reco	very C	ontrol Limits
					aaa-TFT		D	0 #	55 - 12 9

Sample Comment(s):

GRO/5035 vials contained too much soil so laboratory used DRO sample to perform GRO/5030.

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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Full Service Analytical & Environmental Solutions

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

Level II QC Report

04/17/08

N. C. Department of Transportation	Project	Hyundai, Boone, NC	COC Group Number: G0408139
Attn: Ben Bradley	Name:		Date/Time Submitted: 4/3/2008 14:45
c/o Schnabel Engineering	Project ID:	NCDOT Parcel 132	
11 A Oak Branch Drive	Project No.:	WBS #7210023.07	
Greensboro, NC 27407			

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

Method	Biank									QC Batch
		Result	RI.	Control Limit	Units					ID
	Gasoline Range Organics (GRO)	ND	1	<0.5	mg/kg					Q31561
Laboratory Control Sample		Result	Spike Amour	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
	Gasoline Range Organics (GRO)	1.603	2		mg/kg	80	64-124			Q31561
Matrix S	pike					Recovery	Recovery			QC Batch
Sample ID		Result	Spike Amour	nt	Units	%	Ranges %			ID
	Gasoline Range Organics (GRO)	1.659	2		mg/kg	83	37-126			Q31561
Matrix S	spike Duplicate	· · · ·				Recovery	Recovery	RPD	RPD	QC Batch
Sample ID:		Resuit	Spike Amour	nt	Units	%	Ranges %	%	Range %	ID
	Gasoline Range Organics (GRO)	1.367	2		mg/kg	68	37-126	19	0 - 34	Q31561

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

Method Blank	Result	RL.	Control Limit						QC Batch
	Result	···		Units					<u>ان</u>
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31720
Laboratory Control Sample	Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
Diesel Range Organics (DRO)	57.7	80		mg/kg	72	55-109			Q31720
Matrix Spike					Recovery	Recovery			QC Batch
Sample ID:	Result	Spike Amou	nt	Units	%	Ranges %			ID
210631 Diesel Range Organics (DRO)	52.2	80		mg/kg	65	50-117			Q31720
Matrix Spike Duplicate					Recovery	Recovery	RPD	RPD	QC Batch
Sample ID:	Result	Spike Amou	пt	Units	%	Ranges %	%	Range %	1D
210631 Diesel Range Organics (DRO)	54.8	80		mg/kg	69	50-117	5	0 - 24	Q31720
#-See Case Narrative									

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LAB USE ONLY Samples INTACT upon arrival? Beceived ON WET ICE? Temp 2 *0 PROPER PRESERVATIVES Indicated? PROPER PRESERVATIVES Indicated? Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT? VOLATILES recd WOUT 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 leed Upon Collection: YES NO	REMARKS		PRESS DOWN FIRMLY . 3 COPIES	PRISM US Additional Comments: Stte Arrival Time:	Site Departure Time: Field Tech Fee: Mileage: SEE REVERSE	Terms &
And Service Control of Service and Applied Control of Service Applied Control of Service Applied Control of Service Applied Control of Contr	TO BE FILLED IN BY CL Certification: NELACSCSCSCSCSCSCSCSample leed Upon Collee	ANALYSES REQUESTED			V/Hours		D NC D SC D ro Head Space)
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PRISM Full Service Analytical & Environmental Solutions Full Service Analytical & Environmental Solutions Sease + Fax: 704(525-0409 environmental Second Or inty Name: 26 an Ecold Or intact Name: 26 an Ecold Or dress:	Fax (Yes) (NO): ress Druckley (DS druch other Other Dealersha	D COLLECTED MILITARY HOURS	21 <u>2</u> 21 <u>2</u>	. Buell	istody is your oject Managel	ALLALALA ALLALALALALALALALALALALALALALA	T SC Amber C = C
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Full Service Analytical & Environmental Solutions Full Service Analytical & Environmental Solutions 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6354 • Fax: 704(525-0409 Client Company Name: 20, 100, 200 Report To/Contact Name: 20, 20, 20, 20, 20, 20, 20, 20, 20, 20,	Phone220-7.74-9456 Fax (Yes) (No): Email (Yes) (No) Email Address Doubley 05 chruched EDD Type: PDF A Excel Other Danley And Site Location Name: Hyter dai Danley Sha'2 Site Location Physical Address: DODNO, N.C.	CLIENT SAMPLE DESCRIPTION	B-132-07	Samular's Signature	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) Relinquished By: (Signature) Method di Sinforment: NOTE: / Method di Sinforment: NOTE: / Method di Sinforment: NOTE: /	