

Preliminary Site Assessment
Rebecca Younce Property, Parcel #35
Boone, Watauga County, NC

H&H Job No. ROW-148
State Project U-4020
WBS Element # 35015.1.1
May 29, 2008



2923 South Tryon Street
Suite 100
Charlotte, NC 28203
704-586-0007

3334 Hillsborough Street
Raleigh, NC 27607
919-847-4241

**Preliminary Site Assessment
Rebecca Younce Property, Parcel #35
Boone, Watauga County, North Carolina
H&H Project ROW-148**

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**Preliminary Site Assessment
Rebecca Younce Property, Parcel #35
Boone, Watauga County, North Carolina
H&H Project ROW-148**

1.0 Introduction

Hart & Hickman, PC (H&H) has prepared this Preliminary Site Assessment (PSA) documenting assessment activities performed at the Rebecca Younce property (NC DOT Parcel #35) located at 396 East King Street (US Highway 421) in Boone, Watauga County, North Carolina. This assessment was conducted on behalf of the North Carolina Department of Transportation (NC DOT) in accordance with the scope of work outlined in our February 29, 2008 proposal.

The purpose of this assessment was to determine the presence or absence of impacted soil at the subject property in the proposed construction areas related to the widening of US Highway 421 (State Project U-4020). A site location map is included as Figure 1 and a site map is presented as Figure 2. The NC DOT preliminary plan of the US Highway 421 widening area near the Rebecca Younce property is included in Appendix A.

Due to the size of the proposed right of way relative to the size of the parcel, NCDOT indicated that this site will most likely be a total take. Therefore, the soil assessment was not limited to the area within the proposed right of way. Soil assessment was performed on the entire property where potential soil impacts would be most likely to occur.

The Rebecca Younce property is currently an active dry cleaning facility (High Country Cleaners). According to an Environmental Data Resources (EDR) report for the site vicinity, the property does not appear on the North Carolina Underground Storage Tank (UST) Section database. However, H&H observed a fill port on the southern side of the site facility indicating a UST is currently located on-site. According to the property owner, Mr. Younce, the UST was used for heating oil and is no longer in use. In addition, according to the EDR report, the Rebecca Younce property did not appear on the North Carolina Drycleaning Solvent Cleanup Program database.

2.0 Site Assessment

Soil Assessment Field Activities

H&H mobilized to the Rebecca Younce property on April 1 and April 9, 2008 to advance seven soil borings (35-1 through 35-7) by direct push technology (DPT). Prior to advancing the soil borings, H&H reviewed a Geophysical survey performed by URS Corporation (URS) between March 18 and March 22, 2008. URS utilized ground penetrating radar (GPR) and time domain electromagnetic (TDEM) technology to identify potential geophysical anomalies and potential USTs at the site. The URS results verified the UST location mentioned above and also indicated no other magnetic anomalies on the property. This UST is likely close to 550-gallons in size. URS's report, including a site map depicting the results of the GPR and TDEM, is included in Appendix B.

Prior to conducting soil borings, utilities were marked by NC One Call and by DOT's contractor Vaughn and Melton. Borings were also cleared to a five foot depth by hand auger. H&H utilized Geologic Exploration, Inc. of Statesville, North Carolina, an NC DOT approved sub-contractor, to advance soil borings 35-1 through 35-7 by DPT (see Figure 2). To facilitate the selection of soil samples for laboratory analysis, soil from each boring was screened continuously for the presence of volatile organic compounds (VOCs) with an organic vapor analyzer (OVA). Additionally, H&H observed the soil for visual and olfactory indications of petroleum impacts. In general, soil samples that exhibited the highest reading on the OVA were selected for laboratory analysis. Soil boring logs are included in Appendix C.

H&H attempted to three additional soil boring locations inside the dry cleaning facility including two adjacent to the dry cleaning machine. The store is built on two slabs separated by a foam layer. The DPT hammer was unable to push through 2 the lower concrete layer. Dry cleaning machines are common sources of soil impacts.

H&H submitted seven soil samples (35-1 @ 10-12 ft; 35-2 @ 6-8 ft; 35-3 @ 6-8 ft; 35-4 @ 6-8 ft; 35-5 @ 10-12 ft; 35-6 @ 7-10 ft; and 35-7 @ 7-10 ft) for laboratory analysis. Soil samples are identified by the NC DOT Parcel number, soil boring, and the depth interval in ft. Samples were sent to Prism Laboratories Inc. (Prism) of Charlotte, North Carolina under standard chain-of-custody procedures for analysis. Samples were analyzed for volatile organic compounds (VOCs)

by EPA Method 8260B and polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270C. In addition, soil samples 35-1 (10-12 ft) and 35-3 (6-8 ft) located in the vicinity of the heating oil UST were analyzed for total petroleum hydrocarbons (TPH) gasoline-range organics (GRO) and diesel-range organics (DRO) by EPA Method 8015B. Laboratory analytical data sheets for the Parcel 35 soil samples and chain-of-custody documentation for this site are provided in Appendix D. The chain-of-custody form includes samples collected from other nearby parcels. The analytical results are discussed below.

3.0 Analytical Results

Target analytes were detected in soil samples collected from Parcel 35. Tetrachloroethylene (PCE) was detected in samples 35-5 (10-12 ft) and 35-6 (7-10 ft). PCE is a commonly used solvent in dry cleaning operations. PCE was detected at concentrations above the NC DENR soil to ground water Maximum Soil Contaminant Concentration of 0.0074 mg/kg. No PAHs were detected in the samples analyzed. No concentrations of TPH GRO and DRO were detected above NC DENR action levels in samples 35-1 (10-12 ft) and 35-3 (6-8 ft) collected near the UST.

Based on laboratory analytical results, low level PCE concentrations are present on Parcel 35 near the southwestern corner of the dry cleaning facility. Because of DPT refusal on the lower floor slab, soil borings could not be installed near the dry cleaning machine, but such locations are commonly impacted. Based on analytical results and the potential for impacts near the dry cleaning machine, H&H estimates that there are roughly 670 cubic yards (940 tons) of impacted soil between depths of 0 and 12 ft. H&H recommends additional soil assessment after the dry cleaner building is removed to better define the area of soil impacts.

DOT plans indicate a proposed cut of up to 4 to 5 ft and installation of drainage pipes in this area. Because this is a cut area and soil impacts likely begin near existing grade, the impacted soil will be disturbed. Impacted soil will be generated by soil grading work, drainage pipe installation, and utility work below existing grade in the southern portion of the dry cleaners. Impacted soil that is removed should be properly managed and disposed at a permitted facility.

Because the specific source of PCE impacts is unknown, H&H does not believe that the impacted soil qualifies as a listed hazardous waste. Considering the low PCE concentrations detected in samples 35-5 (10-12 ft) and 35-3 (6-8 ft), the soil impacts could likely be disposed as non-hazardous impacted soil by applying the 20 to 1 rule. However, if concentrations are higher under the dry cleaning machine, waste characterization sampling using the Toxicity Characteristic Leaching Procedure (TCLP) may be warranted.

4.0 Summary and Regulatory Considerations

H&H has reviewed geophysical survey results and collected soil samples at Parcel 35. One heating oil UST is present near the proposed DOT work area. Based on laboratory analytical results, low level PCE concentrations are present on Parcel 35 near the southwestern corner of the dry cleaning facility. The PCE concentrations exceed the NC DENR soil to ground water target level. Because of DPT refusal on the lower floor slab, soil borings could not be installed near the dry cleaning machine, but such locations are commonly impacted. Based on analytical results and the potential for impacts near the dry cleaning machine, H&H estimates that there are roughly 670 cubic yards (940 tons) of impacted soil between depths of 0 and 12 ft. H&H recommends additional soil assessment after the dry cleaner building is removed to better define the area of soil impacts. DOT plans indicate a proposed cut of up to 4 to 5 ft and installation of drainage pipes in this area. Impacted soil will be generated by soil grading work, drainage pipe installation, and utility work below existing grade in the southern portion of the dry cleaners. Impacted soil that is removed should be properly managed and disposed at a permitted facility.

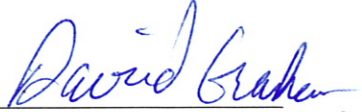
Because the specific source of PCE impacts is unknown, H&H does not believe that the impacted soil qualifies as a listed hazardous waste. Considering the low PCE concentrations detected in samples 35-5 (10-12 ft) and 35-3 (6-8 ft), the soil impacts could be disposed as non-hazardous impacted soil by applying the 20 to 1 rule. However, if higher concentrations are present under the dry cleaning machine, waste characterization sampling using the Toxicity Characteristic Leaching Procedure (TCLP) may be warranted prior to soil disposal.

Although no soil impacts were identified in the soil samples collected adjacent to the heating oil UST, impacted soil may be present directly under the UST. Impacted soil that is removed should be

properly managed and disposed at a permitted facility. H&H recommends that the UST and its contents should be removed and disposed.

5.0 Signature Page

This report was prepared by:



David Graham (13)
Project Geologist for
Hart and Hickman, PC

This report was reviewed by:



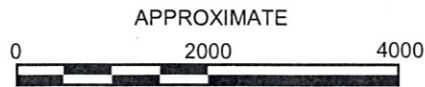
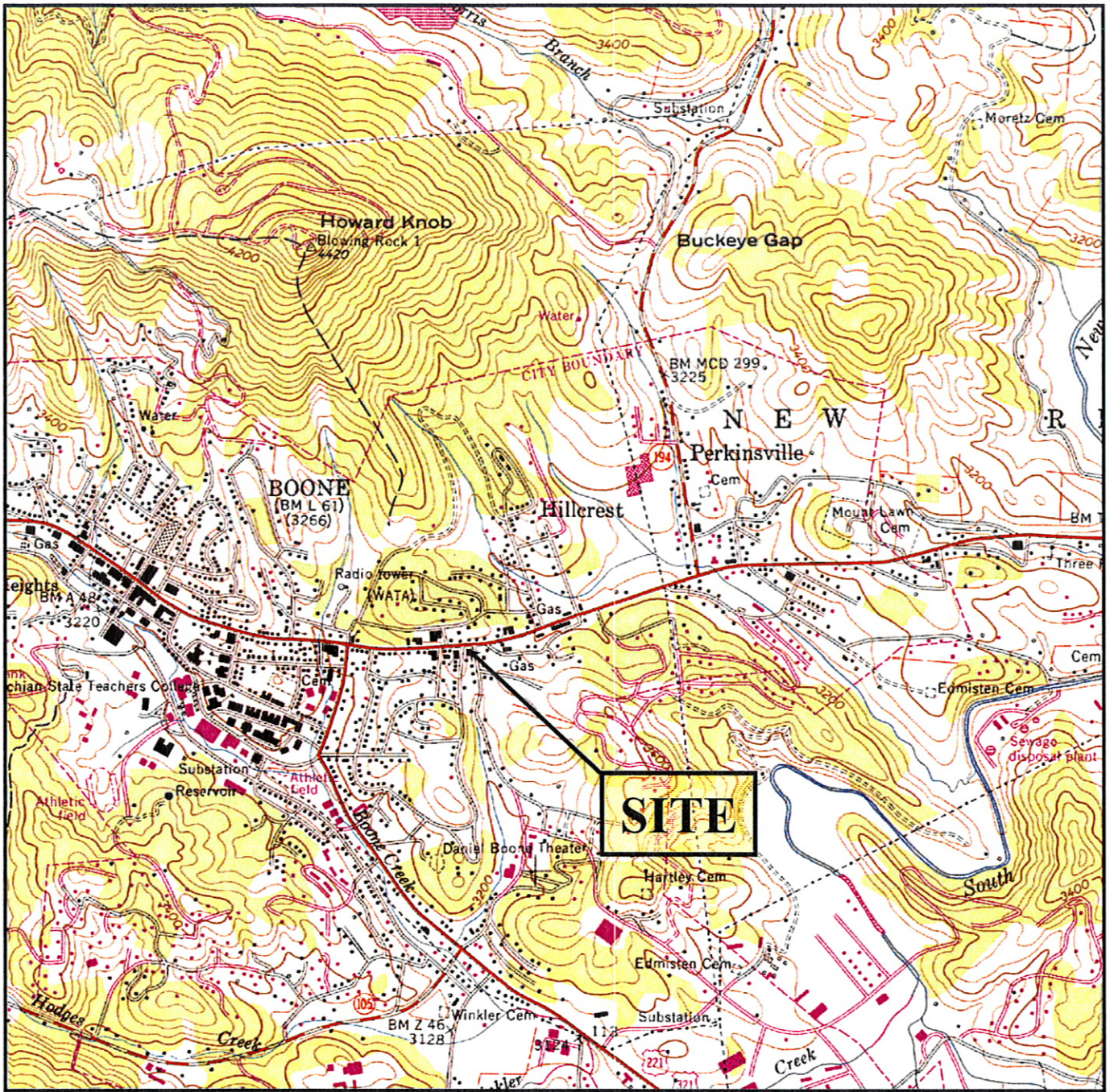
Matt Bramblett, PE
Principal and Project Manager for
Hart and Hickman, PC

Table 1
Soil Analytical Results
Rebecca Younce Property, Parcel #35
Boone, North Carolina
H&H Job No. ROW-148

Sample ID Sample Depth (ft) Sample Date Units	35-1	35-2	35-3	35-4	35-5	35-6	35-7	NC DENR Soil to Ground Water MSCC (mg/kg)
	10-12 4/1/2008 (mg/kg)	6-8 4/1/2008 (mg/kg)	6-8 4/1/2008 (mg/kg)	6-8 4/1/2008 (mg/kg)	10-12 4/3/2008 (mg/kg)	7-10 4/9/2008 (mg/kg)	7-10 4/9/2008 (mg/kg)	
<u>VOCs (5035/8260B)</u> Tetrachloroethylene	<0.008	<0.0073	<0.007	<0.0057	0.012	0.026	<0.0067	0.0074
<u>PAHs (8270C)</u>	BRL	BRL	BRL	BRL	BRL	BRL	BRL	varies
<u>TPH-DRO/GRO (8015B)</u> Diesel-Range Organics (DRO) Gasoline-Range Organics (GRO)	<8.1 <5.8	NA NA	<8.0 <5.7	NA NA	NA NA	NA NA	NA NA	NC DENR Action Level (mg/kg) 10 10

Notes:

EPA Method follows parameter in parenthesis
 PRGs = Preliminary Remediation Goals using a dilution attenuation factor of 20.
 BRL = Below Reporting Limit
 NA = Not Analyzed; MSCC = Maximum Soil Contaminant Concentration
 VOCs = volatile organic compounds
 TPH = total petroleum hydrocarbons; PAHs= polyaromatic hydrocarbons




APPROXIMATE

SCALE IN FEET

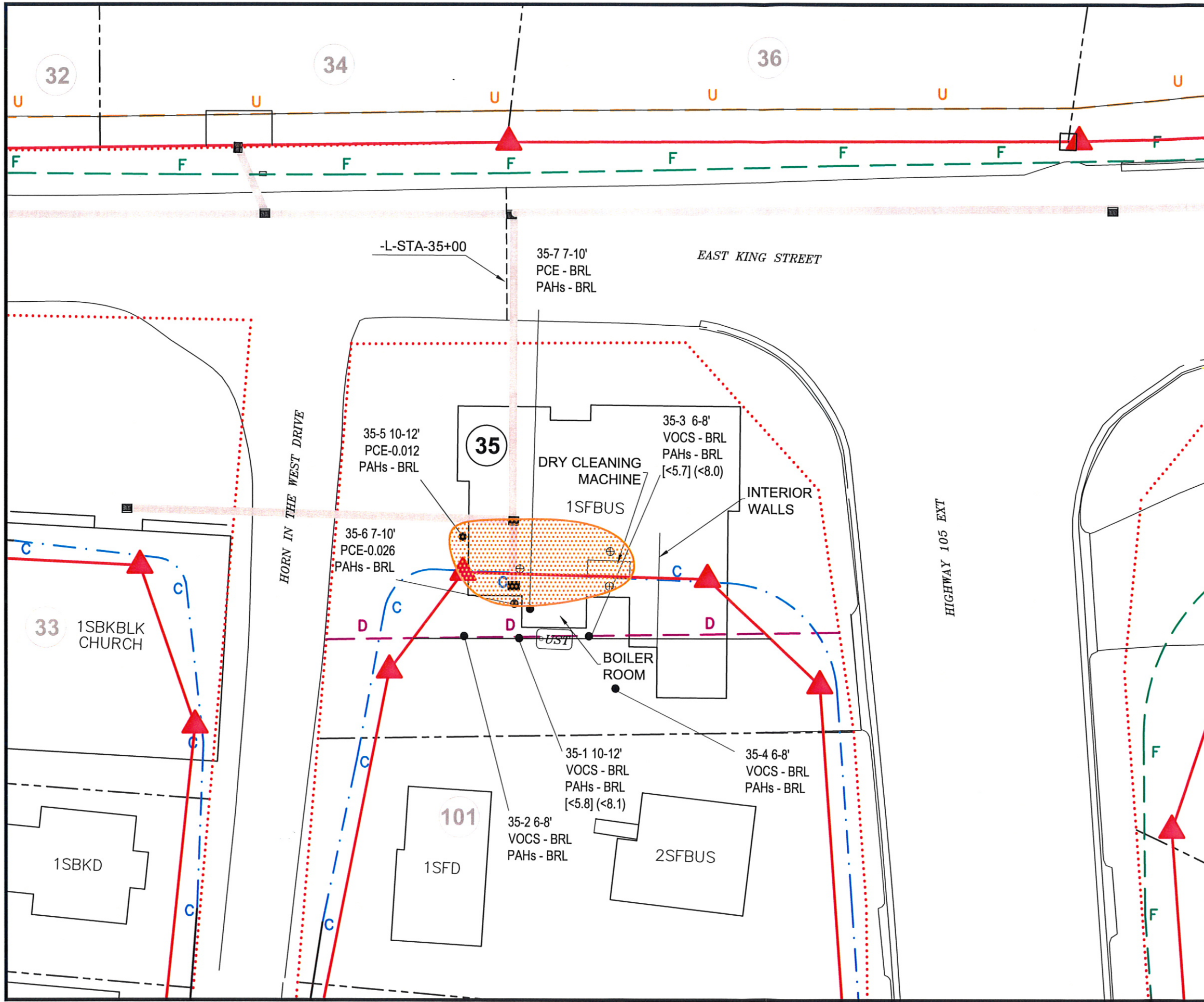
U.S.G.S. QUADRANGLE MAP

**BOONE, NC 1959
PHOTOREVISED 1978**

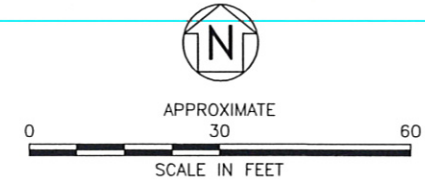
QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)


TITLE	SITE LOCATION MAP	
PROJECT	REBECCA YOUNCE PROPERTY PARCEL #35 BOONE, NORTH CAROLINA	
	 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 A PROFESSIONAL CORPORATION 704-586-0007 (p) 704-586-0370 (f)	
DATE:	4-28-08	REVISION NO: 0
JOB NO:	ROW-148	FIGURE NO: 1

S:\AAA-Master Projects\DOT Right-of-Way - ROW\ROW-148 Boone PSAs\Files from DOT\Proj\FIGURES\30,31,32,35 A.dwg, 35, 5/29/2008 12:25:15 PM, 1:1



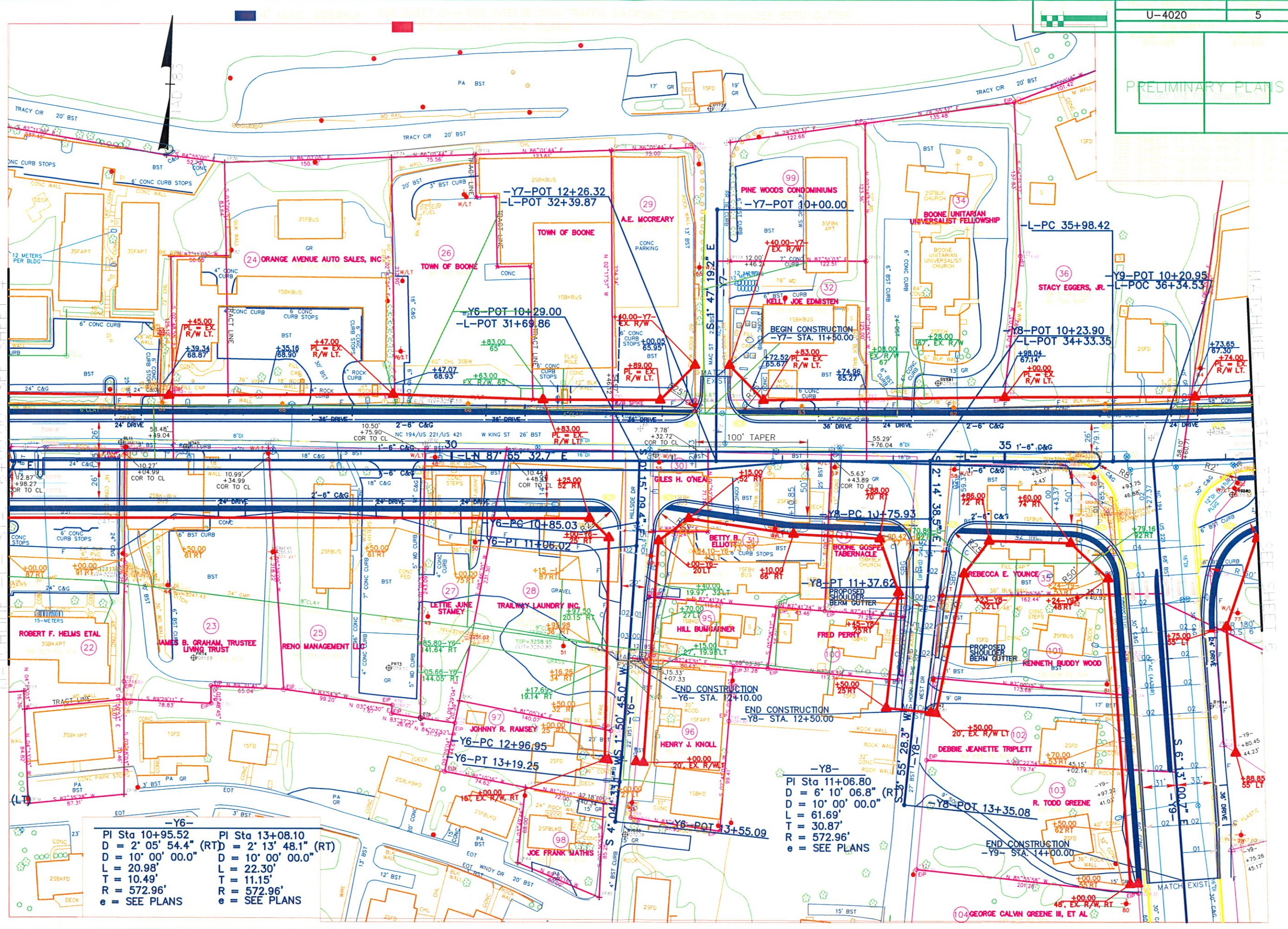
- LEGEND**
- PROPERTY LINE
 - EXISTING RIGHT-OF-WAY
 - ▲ PROPOSED RIGHT-OF-WAY
 - C- PROPOSED CUT LINE
 - F- PROPOSED FILL LINE
 - T- PROPOSED TRANSITION LINE
 - D- PROPOSED DRAINAGE EASEMENT
 - U- PROPOSED UTILITY EASEMENT
 - PROPOSED DRAINAGE PIPE
 - IMPACTED SOIL AREA
 - PROPOSED CATCH BASIN
 - SOIL BORING
 - ⊕ ATTEMPTED SOIL BORING
 - 35 PARCEL NUMBER
 - UST UNDERGROUND STORAGE TANK
 - [] = TPH GRO IN mg/kg
 - () = TPH DRO IN mg/kg
 - BRL = BELOW REPORTING LIMIT
 - VOCs = VOLATILE ORGANIC COMPOUNDS
 - PAHs = POLYNUCLEAR AROMATIC HYDROCARBONS
 - PCE = TETRACHLOROETHENE



TITLE SITE MAP AND SOIL ANALYTICAL RESULTS	
PROJECT REBECCA YOUNCE PROPERTY PARCEL #35 BOONE, NORTH CAROLINA	
 2923 South Tryon Street-Suite 100 Charlotte, North Carolina 28203 704-586-0007(p) 704-586-0373(f)	
DATE: 4-24-08	REVISION NO. 0
JOB NO: ROW-148	FIGURE: 2

Appendix A
NC DOT Preliminary Plan

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



-Y6-	
PI Sta 10+95.52	PI Sta 13+08.10
D = 2' 05" 54.4" (RT)	D = 2' 13" 48.1" (RT)
L = 10' 00' 00.0"	L = 10' 00' 00.0"
T = 20.98'	T = 22.30'
R = 10.49'	R = 11.15'
R = 572.96'	R = 572.96'
e = SEE PLANS	e = SEE PLANS

-Y8-	
PI Sta 11+06.80	D = 6' 10' 06.8" (RT)
D = 10' 00' 00.0"	L = 10' 00' 00.0"
L = 61.69'	T = 30.87'
R = 572.96'	e = SEE PLANS

S:\AAA-Master Projects\NC DOT Right-of-Way - ROW\ROW-148 Boone PSAs\Files from DOT\Proj\FIGURES\bind.dwg, Model, 5/28/2008 12:07:22 PM, 1:80

Appendix B
URS Geophysical Report



March 31, 2008

Mr. Matt Bramblett, P.E.
Hart & Hickman
2923 South Tryon Street
Suite 100
Charlotte, North Carolina 28203

**Subject: Geophysical Investigation Report and UST Delineation
NCDOT State Project U-4020, Watauga County
Parcels #30, 31, 33, 35, 37, 38
Boone, North Carolina
URS Project No. 31825704**

Dear Mr. Bramblett:

In accordance with our technical and cost proposal (TCP) submitted to North Carolina Department of Transportation (NCDOT) on March 7, 2008, URS Corporation (URS) is pleased to present the findings of the geophysical investigation conducted as part of NCDOT State Project U-4020, Watauga County, WBS Element 35015.1.1. The objective of the investigation was to locate underground storage tanks (USTs) within the NCDOT right-of-way and construction easements along US 421/King Street in Boone, North Carolina. The geophysical investigation was conducted in advance of proposed widening of US 421/King Street and will be used to assist with the Preliminary Site Assessment (PSA) of individual parcels within the right-of-way and easement.

Site Description

The geophysical investigation was conducted for Hart & Hickman at Parcels #30, 31, 33, 35, 37, and 38. According to the Request for Proposal (RFP) issued by NCDOT, dated February 20, 2008, Parcels #30, 33, and 35 are expected to be total takes. Therefore, all accessible portions of these parcels were surveyed for this investigation. For Parcels #31, 37, and 38, the right-of-way and construction easements were surveyed for this investigation. These limits had been physically marked in the field by others prior to conducting the geophysical investigation. None of these parcels were abandoned at the time of the geophysical investigation. The majority of the survey areas consisted of asphalt driveways or parking lots.

Survey Methods

The geophysical investigation was conducted using primarily the electromagnetic (EM) method. The Geonics, Ltd. EM-61 MKII (EM-61) instrument was used to perform the investigation. Ground-penetrating radar (GPR) was used as a follow-up technique to the

URS Corporation – North Carolina
6135 Park South Drive, Suite 300
Charlotte, NC 28210
Tel: 704.522.0330
Fax: 704.522.0063
www.urscorp.com

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EM-61 survey. The GPR survey was completed using a Sensors & Software, Inc. Noggin PLUS Smart Cart System with a 250 MHz scanning antenna.

Electromagnetic Surveying with the EM-61 MKII (EM-61)

The EM-61 is a time domain EM instrument specifically designed to detect buried metal objects. The EM-61 generates rapid EM pulses through a transmitter coil. These pulses induce secondary EM fields in the near subsurface. The secondary EM fields induced from moderately conductive subsurface materials (i.e. soil and rock) are of relatively short duration. However, the secondary EM fields induced from metallic objects, such as reinforced concrete or steel drums, are of relatively long duration. The EM-61 measures this prolonged response from metallic objects after the EM response from conductive earth materials dissipates. This design provides high resolution of metallic targets. The depth of investigation of the instrument is relatively unaffected by site specific subsurface conditions.

The EM-61 measures the EM response in milliVolts (mV). The variations in EM response readings from some background level are more diagnostic than the absolute values. EM response values can be plotted and contoured to evaluate the variations across the site. Variations in the EM response resulting from buried metallic objects such as cast iron pipes are generally manifested by relatively large amplitude (greater than about 50 mV) anomalies.

The response amplitude for a given buried metallic object is primarily a function of burial depth and size of the object. It is thus useful to have some means of interpreting the depth of a given object. The EM-61 uses a two receiver coil system consisting of a top coil and a bottom coil. This design facilitates the recognition of near-surface objects from deeper targets. The EM-61 record includes the response from the top coil, the bottom coil and the differential response between the two coils. Near surface objects, such as small pieces of scrap metal, can mask the response from larger objects, such as utility lines, drums or underground storage tanks, at deeper depths. The two-coil design of the EM-61, and differential processing, allows for this masking effect to be significantly reduced. Although the EM-61 is designed to mitigate interference from surface features, large metallic objects at the surface, such as cars, buildings, and fences can effectively saturate the EM response and mask potential buried metal objects below.

Ground Penetrating Radar (GPR)

The GPR method involves transmitting relatively high-frequency electromagnetic pulses into the subsurface using a transducer antenna, and recording the subsequent signal from reflected and refracted electromagnetic energy using a receiving antenna. The electromagnetic pulses, or radar waves are influenced by many factors in the subsurface, the most important being the dielectric constant of the soil. The dielectric constant is the ratio of the speed of light in a vacuum (0.3m/ns) to the velocity of the GPR wave, quantity squared. Therefore, changes in dielectric constant correspond to changes in electromagnetic wave propagation velocity. When the wavelength is short compared to the thickness of soil layers, which is generally

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true, electromagnetic waves are reflected at the interfaces of dielectric contrast in accordance with the principles of optics.

GPR is useful in mapping and locating subsurface features and stratigraphy under a variety of conditions. The method is useful in many types of geologic, environmental, and engineering applications including: locating and mapping buried waste materials; locating and delineating metallic and nonmetallic utilities, pipes, underground storage tanks and drums; mapping geological strata, fractures, and voids; and delineating and mapping previously excavated and backfilled areas.

The effectiveness of GPR surveying at a given site is directly related to the dielectric properties of the subsurface materials. The effective depth of exploration provided by the method can be limited by subsurface materials characterized with high conductivity and dielectric constants, including clay, metal and metallic minerals, or reinforced pavement, all of which absorb radar energy instead of reflecting waves back to the surface receiver. In general, the depth of investigation at a given site is inversely proportional to frequency and the degree of feature resolution is proportional to frequency. Irregular and/or rough terrain can negatively impact the quality of GPR data.

Field Investigation

The field investigation was conducted between March 18 and 22, 2008. EM-61 data were collected along parallel profiles spaced approximately 3 feet apart across the portions of the survey areas that were accessible with the EM-61. Inaccessible areas included portions of the parcels containing parked cars, dumpsters, and landscaping features. EM-61 data were recorded at a rate of 5 readings per second, which equates to an along-profile data point spacing of less than 1 foot.

A Trimble ProXRS global positioning system (GPS) was used to record simultaneous positional data coincident with the EM-61 data. The ProXRS system provides real-time differential corrections via an Omnistar subscription service. The acquired differential GPS (DGPS) have a horizontal accuracy of approximately 3 feet. URS also used the GPS system to record the locations of relevant site features.

Prior to conducting the GPR investigation, URS performed preliminary in-field analysis of the EM-61 data to identify anomalies potentially indicative of USTs. GPR follow-up was conducted at individual point target locations identified in the EM-61 data or within the sections of the parcels that could not be accessed using the EM-61. Because GPR was used as a follow-up technique, no data sets were post-processed for purposes of this investigation.

Data Processing

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The EM-61 data were pre-processed using the program DAT61 MK2, issued by Geonics Ltd. The program was used primarily to prepare the data for contouring in Surfer, issued by Golden Software. Contoured data represent EM-61 Channel 3 response data. Channel 3 data include milliVolt readings recorded at a relatively later time interval during the measured response from the secondary EM field. Thus, this channel generally records secondary field responses from depths consistent with USTs. Interference from surface or near-surface features (e.g. reinforced concrete, buried catch basin, etc.) will also be recorded by this channel, which is why the GPR follow-up survey was conducted over EM-61 anomalies that could not be readily attributed to existing site features.

Investigation Results

The results of the geophysical investigation for Parcels #30, 31, and 33 are presented as **Figure 1**. The results for Parcel #35 are presented as **Figures 2 and 3**. The results for Parcels #37 and 38 are presented as **Figures 4 and 5**, respectively.

Responses from metallic objects are represented by color-shaded contours outside the interpreted background response range. Relatively strong responses (i.e. yellow to dark red contours) generally indicate buried objects of significant metal mass or surface or near-surface features (e.g. reinforced concrete pad). Relatively muted responses (i.e. dark blue contours) generally indicate decreased metal mass or metallic objects potentially buried to greater depths. Sources of known or suspected metallic interference are identified accordingly in **Figures 1 through 5**. Anomalies consistent with EM-61 response patterns for USTs are identified in **Figures 1 through 5** with either green or magenta ellipses. These anomalies were subsequently targeted for GPR follow-up surveying.

The EM-61 anomaly annotated with the green ellipse in **Figure 1** indicates a potential UST as indicated by both the EM-61 and GPR surveys. GPR surveying across this anomaly revealed parabolic-shaped reflection patterns that are consistent with USTs. The EM-61 anomalies annotated with magenta ellipses in **Figures 1, 4, and 5** indicate that the GPR follow-up survey did not reveal the characteristic parabolic-shaped reflection patterns typically associated with USTs. However, it should be noted that USTs that may no longer be intact may not exhibit characteristic GPR reflection patterns. Therefore, intrusive investigations of the EM-61 anomalies annotated with magenta ellipses in **Figures 1, 4, and 5** may be warranted if it is necessary for completion of the PSA to have confirmation of the identity of these anomalies.

A single UST appears to be buried along the southern edge of the building situated at Parcel #35. The EM-61 results in **Figure 2** indicate high-amplitude responses consistent with the presence of a UST. Follow-up GPR surveying also revealed the presence of parabolic-shaped reflection patterns associated with USTs. A fill port is situated within the center of the geophysical anomaly. The GPR antenna was used to identify the perimeter of the UST.

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March 31, 2008
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Figure 3 presents a photo of the field markings that indicate the interpreted UST perimeter at Parcel #35.

In general, sections of the parcels that are represented by the interpreted background range of colors in the EM-61 results appear to be free of buried metal to depths within the survey capabilities of the instrument. The results presented in **Figures 1 through 5** do not constitute an underground utility avoidance survey and therefore should be used in conjunction with proper utility marking protocol prior to beginning any intrusive work at these parcels.

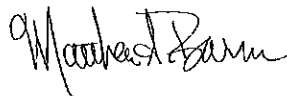
Limitations

This geophysical investigation was conducted in accordance with reasonable and accepted engineering geophysics practices, and the interpretations and conclusions are rendered in a manner consistent with other consultants in our profession. All geophysical techniques have some level of uncertainty and limitations. No other representations of the reported information is expressed or implied, and no warranty or guarantee is included or intended.

We greatly appreciate the opportunity to work with you on this project. We will transmit AutoCAD files (.DXF type) of the geophysical results in a separate submittal. Please contact Matt Barner at (704) 716-0737 if you have any questions regarding this report.

Very truly yours,

URS Corporation – North Carolina



Matthew A. Barner
Senior Geophysicist



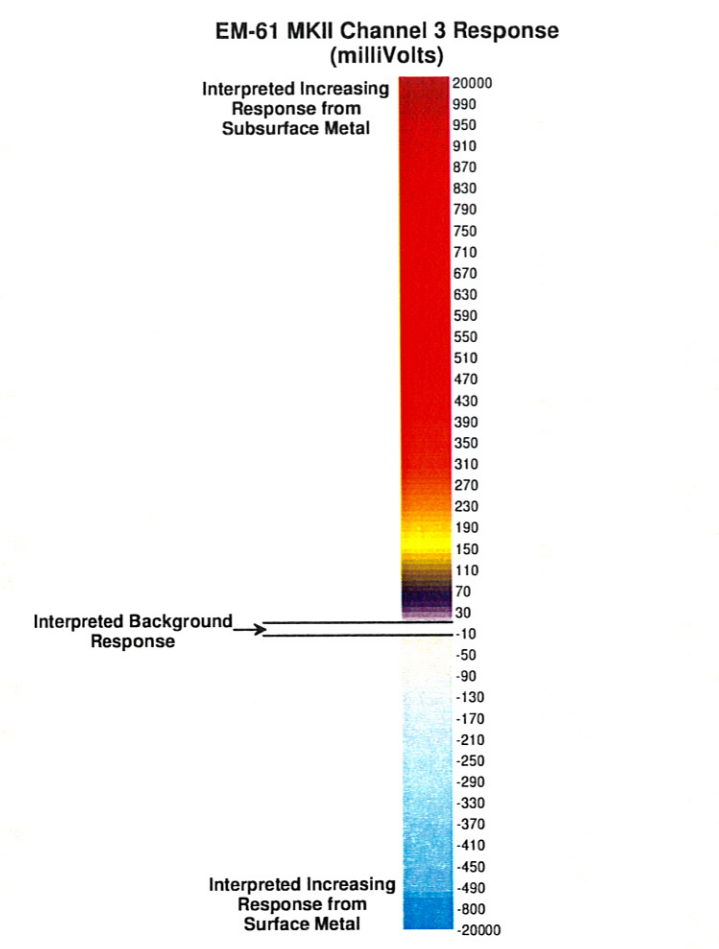
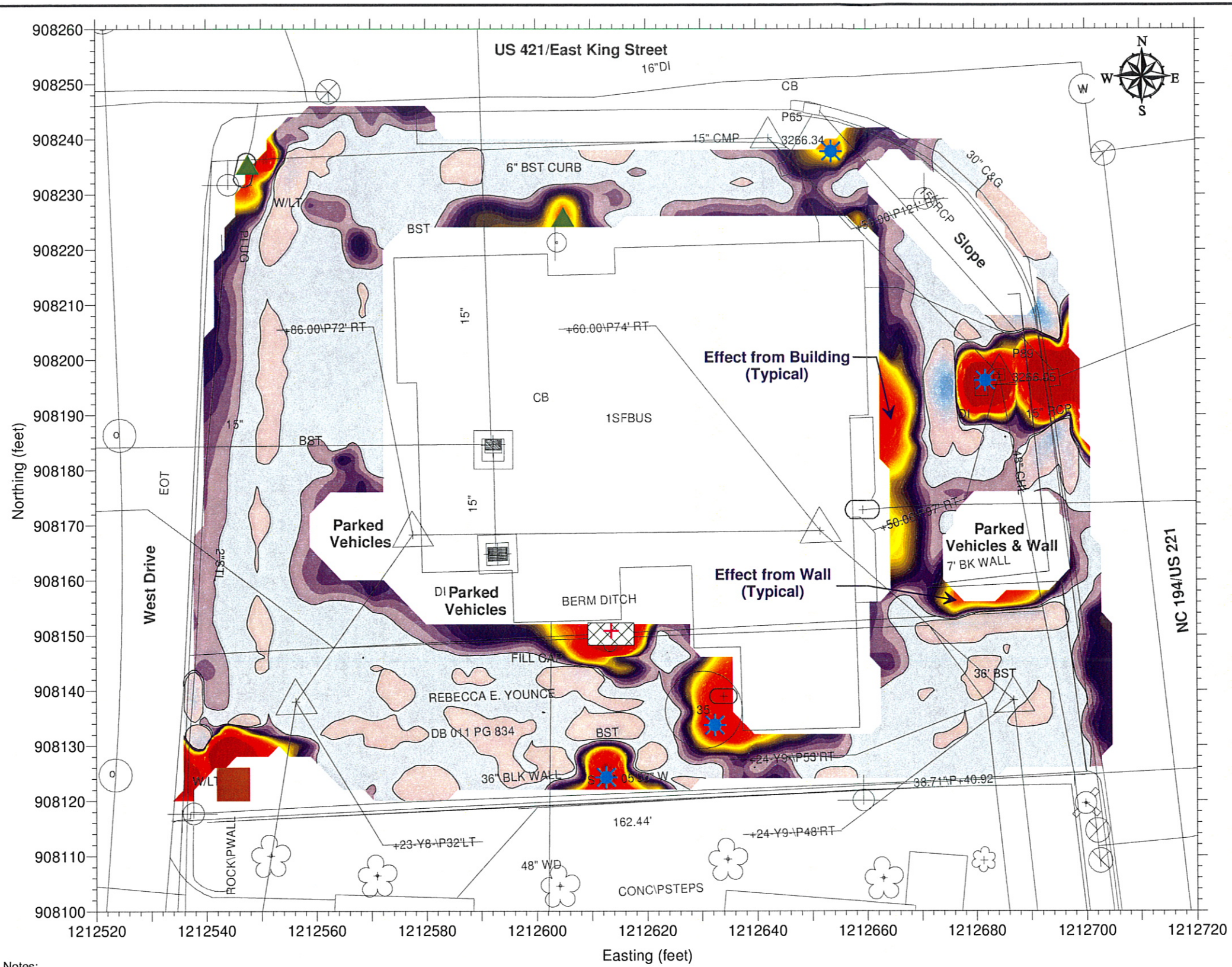
Timothy J. King
Principal Geophysicist



Walt Plekan, L.G.
Project Manager

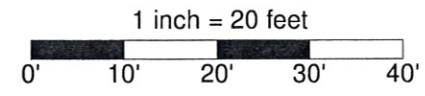
Enc.: Figure 1 – Geophysical Investigation Results, Parcels #30, 31, 33
Figure 2 – Geophysical Investigation Results, Parcel #35
Figure 3 – Site Photograph, Parcel #35
Figure 4 – Geophysical Investigation Results, Parcel #37
Figure 5 – Geophysical Investigation Results, Parcel #38

1c: Vernon Keys, URS, Raleigh
File 3182 5704 – 4.2



- Legend**
- UST
 - UST Fill Port
 - Utility Feature
 - Pole/Light/Sign
 - Dumpster

- Notes:
1. Coordinates in NC State Plane, NAD-83 datum.
 2. Data from Geonics, Ltd. EM-61 MKII instrument.
 3. Base drawing from U-4020 contract drawings provided by NCDOT.
 4. EM-61 location control and additional site features from DGPS survey by URS Corporation.



		6135 Park South Dr., Ste. 300 Charlotte, NC 28210 (704) 522-0330	
Geophysical Investigation Results Parcel #35			
NCDOT State Project U-4020, Watauga County Boone, North Carolina			
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
MAB	03/27/08	MAB	03/27/08
		SJH	03/28/08
			31825704
			Figure 2

E: 1212609.3
N: 908152.3

E: 1212613.5
N: 908150.8



E: 1212612.7
N: 908148.2

Notes:

1. Interpreted perimeter of UST marked in orange.
2. View is looking northwest from the southern side of the building at Parcel #35.
3. Coordinates in NC State Plane, NAD-83 datum.
4. Site feature locations from DGPS survey by URS Corporation.

URS Geophysical Services		6135 Park South Dr., Ste. 300 Charlotte, NC 28210 (704) 522-0330	
Site Photograph Parcel #35			
NCDOT State Project U-4020, Watauga County			
Boone, North Carolina			
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
SJH	03/27/08	SJH	03/27/08
		MAB	03/28/08
			31825704
			Figure 3

Appendix C
Soil Boring Logs



BORING NUMBER 35-1

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN.GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\INC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						ASPHALT		0.0
			1	2.1		Dark Brown, Fine Sandy SILT, Slightly Moist		
2.5	100			2.3				2.5
5.0				5.1		Brown, Fine Sandy SILT, some Partially Weathered Rock from 6-8 feet, Slightly Moist, 'Kerosene-Like' odor from 10-12 feet		5.0
7.5	95			9.2				7.5
10.0	75			11.9				10.0
				21.7				
12.5						Bottom of borehole at 12.0 feet.		12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: GAB
DRAWN BY:

BORING STARTED: 4/1/08
BORING COMPLETED: 4/1/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet.
Soil sample collected from 10-12 feet for laboratory analysis.



BORING NUMBER 35-2

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN.GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY -ROW\ROW-148-BOONE PSAs\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
1.0			1	3.3		Brown, fine sandy SILT, some rock fragments, slightly moist, loose, no odor		1.0
2.5	100					Brown, fine sandy SILT, slightly moist, loose, no odor		2.5
5.0				1.8		Dark brown, sandy SILT, slightly moist, no odor		5.0
6.0				2.3		Light brown, silty SAND, possible fill material, slightly moist, no odor		6.0
7.5	100			2.6		Light brown, fine sandy SILT, slightly moist, loose, no odor		7.5
10.0				2.2				10.0
11.0	100			2.3				11.0
12.0						Bottom of borehole at 12.0 feet.		12.0
12.5								12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geopobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/1/08
BORING COMPLETED: 4/1/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet. Soil sample collected from 6-8 feet for laboratory analysis.



BORING NUMBER 35-3

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY -ROW\ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
0.0 - 2.5			1	3.1		Dark brown, fine sandy SILT, slightly moist, loose, no odor		0.0 - 2.5
2.5 - 5.0	100			3.4		Brown, fine sandy SILT, slightly moist, loose, no odor		2.5 - 5.0
5.0 - 7.5				3.9		Yellowish/light brown, medium sandy SILT, slightly moist, loose, no odor		5.0 - 7.5
7.5 - 10.0	100			4.6		Medium brown, medium sandy SILT		7.5 - 10.0
10.0 - 12.5				4.9		Medium brown, medium sandy SILT, partially weathered rock		10.0 - 12.5
12.5 - 15.0	90			4.9		Bottom of borehole at 12.0 feet.		12.5 - 15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geopobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/1/08
BORING COMPLETED: 4/1/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet. Soil sample collected from 6-8 feet for laboratory analysis.



BORING NUMBER 35-4

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY - ROW\ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Asphalt surface cover		0.0
			0.6	1.3		Brown, medium sandy SILT, slightly moist, loose		
2.5	100					Dark brown, medium sandy SILT, slightly moist, loose		2.5
				1.6				
5.0				1.3		Brown, silty medium SAND with some quartz fragments, slightly moist, loose, no odor		5.0
				1.4				
7.5	90			1.4		Brown, silty medium SAND with some quartz fragments, slightly moist, loose, no odor		7.5
				1.4				
10.0				1.2		Brown, silty medium SAND with some quartz fragments, slightly moist, loose, no odor		10.0
	75							
12.5						Bottom of borehole at 12.0 feet.		12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geopobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MF/CM
DRAWN BY:

BORING STARTED: 4/1/08
BORING COMPLETED: 4/1/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet. Soil sample collected from 6-8 feet for laboratory analysis.



BORING NUMBER 35-5

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs

JOB NUMBER: ROW-148

LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN.GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY - ROW\ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Concrete surface cover		0.0
			0.7	8.3		Orange/brown, medium sandy SILT, dry, loose		
2.5	100							2.5
				10.2				
5.0						Brown, medium sandy SILT, some partially weathered rock, dry, loose		5.0
				6.9				
7.5	100					Brown, fine SILT, dry, loose		7.5
				4.7				
10.0								10.0
				11.7				
12.5	100							12.5
				13				
				17.6				
						Bottom of borehole at 13.0 feet.		
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geopobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: DG/CM
DRAWN BY:

BORING STARTED: 4/3/08
BORING COMPLETED: 4/3/08
TOTAL DEPTH: 13
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
 Borehole hand-augered to 5 feet. Soil sample collected from 10-12 feet for laboratory analysis.



BORING NUMBER 35-6

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY - ROW\ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Dark orange, brown, fine sandy, SILT, slightly damp		0.0
2.5	75		0.5	1.7				2.5
5.0				1.4				5.0
7.5	100			2.2		Orange, brown, fine sandy, SILT, with some rock fragment, slightly damp		7.5
10.0				2.2				10.0
12.5	50			2				12.5
15.0						Bottom of borehole at 12.0 feet.		15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geoprobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: MHF
DRAWN BY:

BORING STARTED: 4/9/08
BORING COMPLETED: 4/9/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet. Soil sample collected from 7-10 feet for laboratory analysis.



BORING NUMBER 35-7

2923 South Tryon Street-Suite 100
Charlotte, North Carolina 28203
704-586-0007(p) 704-586-0373(f)

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)

PROJECT: Boone PSAs
JOB NUMBER: ROW-148
LOCATION: Boone, NC

LOG OF BORING - HART HICKMAN GDT - 5/23/08 09:52 - S:\AAA-MASTER PROJECTS\NC DOT RIGHT-OF-WAY -ROW-148 BOONE PSAS\BORING LOGS\ROW-148 (35).GPJ

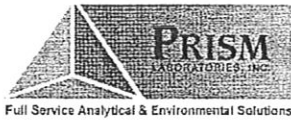
DEPTH (ft)	RECOVERY (%)	BLOW COUNT	OVA (ppm)		LITHOLOGY	MATERIAL DESCRIPTION	WELL DIAGRAM	DEPTH (ft)
			BKG.	SAMP.				
0.0						Brown, medium SILT, slightly damp		0.0
2.5	100		0.5	1.4		Brown, medium SILT, slightly damp		2.5
5.0				1.3		Orange/brown, fine sandy SILT, slightly damp		5.0
7.5	100			2		Orange/brown, fine sandy SILT with rock fragments, slightly damp		7.5
10.0				2.3		Orange/brown, fine sandy SILT with rock fragments, slightly damp		10.0
12.5	100			1.1		Bottom of borehole at 12.0 feet.		12.5
15.0								15.0

DRILLING CONTRACTOR: Geologic Exploration
DRILL RIG/ METHOD: Geopobe 6620DT
SAMPLING METHOD: DPT Sleeves
LOGGED BY: M. Falknor
DRAWN BY:

BORING STARTED: 4/9/08
BORING COMPLETED: 4/9/08
TOTAL DEPTH: 12
SURFACE ELEV:
DEPTH TO WATER:

Remarks:
Borehole hand-augered to 5 feet. Soil sample collected from 7-10 feet for laboratory analysis.

Appendix D
Laboratory Analytical Report



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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210372
 COC Group: G0408076
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	68.5	%			1	SM2540 G	04/07/08 13:45	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	4.58	g			1	5035	04/15/08 0:00	lbrown	
Weight Bisulfate 2	4.83	g			1	5035	04/15/08 0:00	lbrown	
Weight Methanol	3.58	g			1	5035	04/15/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0080	0.00094	1	8260B	04/04/08 23:33	lwitry	Q31423
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0080	0.00057	1	8260B	04/04/08 23:33	lwitry	Q31423
1,1,2-Trichloroethane	BRL	mg/kg	0.0080	0.00084	1	8260B	04/04/08 23:33	lwitry	Q31423
1,1-Dichloroethane	BRL	mg/kg	0.0080	0.00091	1	8260B	04/04/08 23:33	lwitry	Q31423
1,1-Dichloroethene	BRL	mg/kg	0.0080	0.0014	1	8260B	04/04/08 23:33	lwitry	Q31423
1,1-Dichloropropene	BRL	mg/kg	0.0080	0.00094	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0080	0.00091	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2,3-Trichloropropane	BRL	mg/kg	0.0080	0.0011	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0080	0.0010	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0080	0.0004	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0080	0.00099	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2-Dichlorobenzene	BRL	mg/kg	0.0080	0.00051	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2-Dichloroethane	BRL	mg/kg	0.0080	0.00089	1	8260B	04/04/08 23:33	lwitry	Q31423
1,2-Dichloropropane	BRL	mg/kg	0.0080	0.0019	1	8260B	04/04/08 23:33	lwitry	Q31423
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0080	0.00067	1	8260B	04/04/08 23:33	lwitry	Q31423
1,3-Dichlorobenzene	BRL	mg/kg	0.0080	0.00053	1	8260B	04/04/08 23:33	lwitry	Q31423
1,3-Dichloropropane	BRL	mg/kg	0.0080	0.00033	1	8260B	04/04/08 23:33	lwitry	Q31423
1,4-Dichlorobenzene	BRL	mg/kg	0.0080	0.0010	1	8260B	04/04/08 23:33	lwitry	Q31423
2,2-Dichloropropane	BRL	mg/kg	0.0080	0.0011	1	8260B	04/04/08 23:33	lwitry	Q31423
2-Chlorotoluene	BRL	mg/kg	0.0080	0.00045	1	8260B	04/04/08 23:33	lwitry	Q31423

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Page 27 of 49



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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

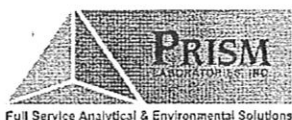
Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210372
 COC Group: G0408076
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.080	0.0069	1	8260B	04/04/08 23:33	Iwity	Q31423
4-Chlorotoluene	BRL	mg/kg	0.0080	0.00059	1	8260B	04/04/08 23:33	Iwity	Q31423
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.080	0.0083	1	8260B	04/04/08 23:33	Iwity	Q31423
Acetone	BRL	mg/kg	0.080	0.024	1	8260B	04/04/08 23:33	Iwity	Q31423
Benzene	BRL	mg/kg	0.0048	0.00067	1	8260B	04/04/08 23:33	Iwity	Q31423
Bromobenzene	BRL	mg/kg	0.0080	0.0010	1	8260B	04/04/08 23:33	Iwity	Q31423
Bromochloromethane	BRL	mg/kg	0.0080	0.00065	1	8260B	04/04/08 23:33	Iwity	Q31423
Bromodichloromethane	BRL	mg/kg	0.0080	0.00086	1	8260B	04/04/08 23:33	Iwity	Q31423
Bromoform	BRL	mg/kg	0.0080	0.00072	1	8260B	04/04/08 23:33	Iwity	Q31423
Bromomethane	BRL	mg/kg	0.016	0.0018	1	8260B	04/04/08 23:33	Iwity	Q31423
Carbon tetrachloride	BRL	mg/kg	0.0080	0.00053	1	8260B	04/04/08 23:33	Iwity	Q31423
Chlorobenzene	BRL	mg/kg	0.0080	0.00081	1	8260B	04/04/08 23:33	Iwity	Q31423
Chlorodibromomethane	BRL	mg/kg	0.0080	0.00073	1	8260B	04/04/08 23:33	Iwity	Q31423
Chloroethane	BRL	mg/kg	0.016	0.0027	1	8260B	04/04/08 23:33	Iwity	Q31423
Chloroform	BRL	mg/kg	0.0080	0.0013	1	8260B	04/04/08 23:33	Iwity	Q31423
Chloromethane	BRL	mg/kg	0.0080	0.0019	1	8260B	04/04/08 23:33	Iwity	Q31423
cis-1,2-Dichloroethene	BRL	mg/kg	0.0080	0.0013	1	8260B	04/04/08 23:33	Iwity	Q31423
cis-1,3-Dichloropropene	BRL	mg/kg	0.0080	0.0011	1	8260B	04/04/08 23:33	Iwity	Q31423
Dichlorodifluoromethane	BRL	mg/kg	0.0080	0.0022	1	8260B	04/04/08 23:33	Iwity	Q31423
Ethylbenzene	BRL	mg/kg	0.0080	0.00037	1	8260B	04/04/08 23:33	Iwity	Q31423
Isopropyl ether (IPE)	BRL	mg/kg	0.0080	0.00073	1	8260B	04/04/08 23:33	Iwity	Q31423
Isopropylbenzene	BRL	mg/kg	0.0080	0.00046	1	8260B	04/04/08 23:33	Iwity	Q31423
m,p-Xylenes	BRL	mg/kg	0.016	0.0013	1	8260B	04/04/08 23:33	Iwity	Q31423
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.16	0.024	1	8260B	04/04/08 23:33	Iwity	Q31423
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.016	0.00067	1	8260B	04/04/08 23:33	Iwity	Q31423
Methylene chloride	BRL	mg/kg	0.0080	0.0013	1	8260B	04/04/08 23:33	Iwity	Q31423
n-Butylbenzene	BRL	mg/kg	0.0080	0.00057	1	8260B	04/04/08 23:33	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210372
 COC Group: G0408076
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0080	0.00053	1	8260B	04/04/08 23:33	lwitry	Q31423
Naphthalene	BRL	mg/kg	0.016	0.00096	1	8260B	04/04/08 23:33	lwitry	Q31423
o-Xylene	BRL	mg/kg	0.0080	0.00033	1	8260B	04/04/08 23:33	lwitry	Q31423
p-Isopropyltoluene	BRL	mg/kg	0.0080	0.00064	1	8260B	04/04/08 23:33	lwitry	Q31423
sec-Butylbenzene	BRL	mg/kg	0.0080	0.00054	1	8260B	04/04/08 23:33	lwitry	Q31423
Styrene	BRL	mg/kg	0.0080	0.00089	1	8260B	04/04/08 23:33	lwitry	Q31423
tert-Butylbenzene	BRL	mg/kg	0.0080	0.00067	1	8260B	04/04/08 23:33	lwitry	Q31423
Tetrachloroethene	BRL	mg/kg	0.0080	0.00072	1	8260B	04/04/08 23:33	lwitry	Q31423
Toluene	BRL	mg/kg	0.0080	0.00059	1	8260B	04/04/08 23:33	lwitry	Q31423
trans-1,2-Dichloroethene	BRL	mg/kg	0.0080	0.0010	1	8260B	04/04/08 23:33	lwitry	Q31423
trans-1,3-Dichloropropene	BRL	mg/kg	0.0080	0.00094	1	8260B	04/04/08 23:33	lwitry	Q31423
Trichloroethene	BRL	mg/kg	0.0080	0.0012	1	8260B	04/04/08 23:33	lwitry	Q31423
Trichlorofluoromethane	BRL	mg/kg	0.0080	0.0014	1	8260B	04/04/08 23:33	lwitry	Q31423
Vinyl acetate	BRL	mg/kg	0.040	0.0022	1	8260B	04/04/08 23:33	lwitry	Q31423
Vinyl chloride	BRL	mg/kg	0.0080	0.0014	1	8260B	04/04/08 23:33	lwitry	Q31423

Surrogate	% Recovery	Control Limits
Toluene-d8	94	81 - 128
Dibromofluoromethane	93	67 - 143
Bromofluorobenzene	97	77 - 128

Semi-volatile Organic Compounds by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.48	0.053	1	8270C	04/10/08 13:06	rselfh	Q31608
Acenaphthene	BRL	mg/kg	0.48	0.065	1	8270C	04/10/08 13:06	rselfh	Q31608
Acenaphthylene	BRL	mg/kg	0.48	0.045	1	8270C	04/10/08 13:06	rselfh	Q31608
Anthracene	BRL	mg/kg	0.48	0.035	1	8270C	04/10/08 13:06	rselfh	Q31608
Benzo(a)anthracene	BRL	mg/kg	0.48	0.054	1	8270C	04/10/08 13:06	rselfh	Q31608
Benzo(a)pyrene	BRL	mg/kg	0.48	0.060	1	8270C	04/10/08 13:06	rselfh	Q31608

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210372
 COC Group: G0408076
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.48	0.097	1	8270C	04/10/08 13:06	rselph	Q31608
Benzo(g,h,i)perylene	BRL	mg/kg	0.48	0.061	1	8270C	04/10/08 13:06	rselph	Q31608
Benzo(k)fluoranthene	BRL	mg/kg	0.48	0.13	1	8270C	04/10/08 13:06	rselph	Q31608
Chrysene	BRL	mg/kg	0.48	0.032	1	8270C	04/10/08 13:06	rselph	Q31608
Dibenzo(a,h)anthracene	BRL	mg/kg	0.48	0.045	1	8270C	04/10/08 13:06	rselph	Q31608
Fluoranthene	BRL	mg/kg	0.48	0.084	1	8270C	04/10/08 13:06	rselph	Q31608
Fluorene	BRL	mg/kg	0.48	0.068	1	8270C	04/10/08 13:06	rselph	Q31608
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.48	0.045	1	8270C	04/10/08 13:06	rselph	Q31608
Naphthalene	BRL	mg/kg	0.48	0.057	1	8270C	04/10/08 13:06	rselph	Q31608
Phenanthrene	BRL	mg/kg	0.48	0.040	1	8270C	04/10/08 13:06	rselph	Q31608
Pyrene	BRL	mg/kg	0.48	0.091	1	8270C	04/10/08 13:06	rselph	Q31608
Sample Preparation:			30.31 g	/	1 mL	3550B	04/09/08 11:00	pbarr	P21289

Surrogate	% Recovery	Control Limits
Terphenyl-d14	113	41 - 136
Phenol-d5	76	13 - 95
Nitrobenzene-d5	62	14 - 103
2-Fluorophenol	77	14 - 89
2-Fluorobiphenyl	107	21 - 108
2,4,6-Tribromophenol	92	25 - 123

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

Laboratory Report

04/21/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203


Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210727
 COC Group: G0408175
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	86.0	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	04/13/08 0:16	jvogel	Q31719
Sample Preparation:			25.23 g	/	1 mL	3545	04/11/08 17:00	wconder	P21312
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		77	49 - 124	
Sample Weight Determination									
Weight 1	5.12	g			1	GRO	04/08/08 0:00	lbrown	
Weight 2	5.48	g			1	GRO	04/08/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/11/08 19:17	wbradley	Q31685
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		108	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit
 Values are reported down to the reporting limits only. No J-flags applied.
 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
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Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-1 (10-12')
 Prism Sample ID: 210372
 COC Group: G0408076
 Time Collected: 04/01/08 11:00
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

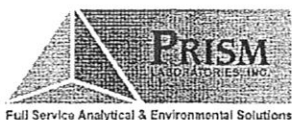
BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-2 (6-8')
 Prism Sample ID: 210373
 COC Group: G0408076
 Time Collected: 04/01/08 11:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	72.6	%			1	SM2540 G	04/07/08 13:45	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	4.71	g			1	5035	04/04/08 0:00	lbrown	
Weight Bisulfate 2	4.34	g			1	5035	04/04/08 0:00	lbrown	
Weight Methanol	3.39	g			1	5035	04/04/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0073	0.00086	1	8260B	04/05/08 0:17	Iwity	Q31423
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0073	0.00053	1	8260B	04/05/08 0:17	Iwity	Q31423
1,1,2-Trichloroethane	BRL	mg/kg	0.0073	0.00077	1	8260B	04/05/08 0:17	Iwity	Q31423
1,1-Dichloroethane	BRL	mg/kg	0.0073	0.00083	1	8260B	04/05/08 0:17	Iwity	Q31423
1,1-Dichloroethene	BRL	mg/kg	0.0073	0.0013	1	8260B	04/05/08 0:17	Iwity	Q31423
1,1-Dichloropropene	BRL	mg/kg	0.0073	0.00086	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0073	0.00083	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2,3-Trichloropropane	BRL	mg/kg	0.0073	0.00098	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0073	0.00095	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0073	0.00037	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0073	0.00091	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2-Dichlorobenzene	BRL	mg/kg	0.0073	0.00047	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2-Dichloroethane	BRL	mg/kg	0.0073	0.00082	1	8260B	04/05/08 0:17	Iwity	Q31423
1,2-Dichloropropane	BRL	mg/kg	0.0073	0.0018	1	8260B	04/05/08 0:17	Iwity	Q31423
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0073	0.00061	1	8260B	04/05/08 0:17	Iwity	Q31423
1,3-Dichlorobenzene	BRL	mg/kg	0.0073	0.00048	1	8260B	04/05/08 0:17	Iwity	Q31423
1,3-Dichloropropane	BRL	mg/kg	0.0073	0.00031	1	8260B	04/05/08 0:17	Iwity	Q31423
1,4-Dichlorobenzene	BRL	mg/kg	0.0073	0.00094	1	8260B	04/05/08 0:17	Iwity	Q31423
2,2-Dichloropropane	BRL	mg/kg	0.0073	0.0011	1	8260B	04/05/08 0:17	Iwity	Q31423
2-Chlorotoluene	BRL	mg/kg	0.0073	0.00041	1	8260B	04/05/08 0:17	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-2 (6-8')
 Prism Sample ID: 210373
 COC Group: G0408076
 Time Collected: 04/01/08 11:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.073	0.0063	1	8260B	04/05/08 0:17	Iwity	Q31423
4-Chlorotoluene	BRL	mg/kg	0.0073	0.00054	1	8260B	04/05/08 0:17	Iwity	Q31423
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.073	0.0076	1	8260B	04/05/08 0:17	Iwity	Q31423
Acetone	BRL	mg/kg	0.073	0.022	1	8260B	04/05/08 0:17	Iwity	Q31423
Benzene	BRL	mg/kg	0.0044	0.00061	1	8260B	04/05/08 0:17	Iwity	Q31423
Bromobenzene	BRL	mg/kg	0.0073	0.00094	1	8260B	04/05/08 0:17	Iwity	Q31423
Bromochloromethane	BRL	mg/kg	0.0073	0.0006	1	8260B	04/05/08 0:17	Iwity	Q31423
Bromodichloromethane	BRL	mg/kg	0.0073	0.00079	1	8260B	04/05/08 0:17	Iwity	Q31423
Bromoform	BRL	mg/kg	0.0073	0.00066	1	8260B	04/05/08 0:17	Iwity	Q31423
Bromomethane	BRL	mg/kg	0.015	0.0016	1	8260B	04/05/08 0:17	Iwity	Q31423
Carbon tetrachloride	BRL	mg/kg	0.0073	0.00048	1	8260B	04/05/08 0:17	Iwity	Q31423
Chlorobenzene	BRL	mg/kg	0.0073	0.00075	1	8260B	04/05/08 0:17	Iwity	Q31423
Chlorodibromomethane	BRL	mg/kg	0.0073	0.00067	1	8260B	04/05/08 0:17	Iwity	Q31423
Chloroethane	BRL	mg/kg	0.015	0.0025	1	8260B	04/05/08 0:17	Iwity	Q31423
Chloroform	BRL	mg/kg	0.0073	0.0012	1	8260B	04/05/08 0:17	Iwity	Q31423
Chloromethane	BRL	mg/kg	0.0073	0.0018	1	8260B	04/05/08 0:17	Iwity	Q31423
cis-1,2-Dichloroethene	BRL	mg/kg	0.0073	0.0012	1	8260B	04/05/08 0:17	Iwity	Q31423
cis-1,3-Dichloropropene	BRL	mg/kg	0.0073	0.00097	1	8260B	04/05/08 0:17	Iwity	Q31423
Dichlorodifluoromethane	BRL	mg/kg	0.0073	0.0020	1	8260B	04/05/08 0:17	Iwity	Q31423
Ethylbenzene	BRL	mg/kg	0.0073	0.00034	1	8260B	04/05/08 0:17	Iwity	Q31423
Isopropyl ether (IPE)	BRL	mg/kg	0.0073	0.00067	1	8260B	04/05/08 0:17	Iwity	Q31423
Isopropylbenzene	BRL	mg/kg	0.0073	0.00042	1	8260B	04/05/08 0:17	Iwity	Q31423
m,p-Xylenes	BRL	mg/kg	0.015	0.0012	1	8260B	04/05/08 0:17	Iwity	Q31423
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.15	0.022	1	8260B	04/05/08 0:17	Iwity	Q31423
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.015	0.00061	1	8260B	04/05/08 0:17	Iwity	Q31423
Methylene chloride	BRL	mg/kg	0.0073	0.0012	1	8260B	04/05/08 0:17	Iwity	Q31423
n-Butylbenzene	BRL	mg/kg	0.0073	0.00053	1	8260B	04/05/08 0:17	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-2 (6-8')
 Prism Sample ID: 210373
 COC Group: G0408076
 Time Collected: 04/01/08 11:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0073	0.00048	1	8260B	04/05/08 0:17	lwitry	Q31423
Naphthalene	BRL	mg/kg	0.015	0.00088	1	8260B	04/05/08 0:17	lwitry	Q31423
o-Xylene	BRL	mg/kg	0.0073	0.00031	1	8260B	04/05/08 0:17	lwitry	Q31423
p-Isopropyltoluene	BRL	mg/kg	0.0073	0.00058	1	8260B	04/05/08 0:17	lwitry	Q31423
sec-Butylbenzene	BRL	mg/kg	0.0073	0.0005	1	8260B	04/05/08 0:17	lwitry	Q31423
Styrene	BRL	mg/kg	0.0073	0.00082	1	8260B	04/05/08 0:17	lwitry	Q31423
tert-Butylbenzene	BRL	mg/kg	0.0073	0.00061	1	8260B	04/05/08 0:17	lwitry	Q31423
Tetrachloroethene	BRL	mg/kg	0.0073	0.00066	1	8260B	04/05/08 0:17	lwitry	Q31423
Toluene	BRL	mg/kg	0.0073	0.00054	1	8260B	04/05/08 0:17	lwitry	Q31423
trans-1,2-Dichloroethene	BRL	mg/kg	0.0073	0.00094	1	8260B	04/05/08 0:17	lwitry	Q31423
trans-1,3-Dichloropropene	BRL	mg/kg	0.0073	0.00086	1	8260B	04/05/08 0:17	lwitry	Q31423
Trichloroethene	BRL	mg/kg	0.0073	0.0011	1	8260B	04/05/08 0:17	lwitry	Q31423
Trichlorofluoromethane	BRL	mg/kg	0.0073	0.0013	1	8260B	04/05/08 0:17	lwitry	Q31423
Vinyl acetate	BRL	mg/kg	0.037	0.0021	1	8260B	04/05/08 0:17	lwitry	Q31423
Vinyl chloride	BRL	mg/kg	0.0073	0.0013	1	8260B	04/05/08 0:17	lwitry	Q31423

Surrogate	% Recovery	Control Limits
Toluene-d8	98	81 - 128
Dibromofluoromethane	100	67 - 143
Bromofluorobenzene	95	77 - 128

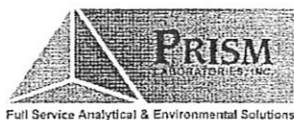
Semi-volatile Organic Compounds by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.45	0.050	1	8270C	04/10/08 13:39	rselfh	Q31608
Acenaphthene	BRL	mg/kg	0.45	0.061	1	8270C	04/10/08 13:39	rselfh	Q31608
Acenaphthylene	BRL	mg/kg	0.45	0.042	1	8270C	04/10/08 13:39	rselfh	Q31608
Anthracene	BRL	mg/kg	0.45	0.033	1	8270C	04/10/08 13:39	rselfh	Q31608
Benzo(a)anthracene	BRL	mg/kg	0.45	0.051	1	8270C	04/10/08 13:39	rselfh	Q31608
Benzo(a)pyrene	BRL	mg/kg	0.45	0.057	1	8270C	04/10/08 13:39	rselfh	Q31608

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NC Certification No. 402
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Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-2 (6-8')
 Prism Sample ID: 210373
 COC Group: G0408076
 Time Collected: 04/01/08 11:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.45	0.092	1	8270C	04/10/08 13:39	rselph	Q31608
Benzo(g,h,i)perylene	BRL	mg/kg	0.45	0.057	1	8270C	04/10/08 13:39	rselph	Q31608
Benzo(k)fluoranthene	BRL	mg/kg	0.45	0.12	1	8270C	04/10/08 13:39	rselph	Q31608
Chrysene	BRL	mg/kg	0.45	0.030	1	8270C	04/10/08 13:39	rselph	Q31608
Dibenzo(a,h)anthracene	BRL	mg/kg	0.45	0.042	1	8270C	04/10/08 13:39	rselph	Q31608
Fluoranthene	BRL	mg/kg	0.45	0.080	1	8270C	04/10/08 13:39	rselph	Q31608
Fluorene	BRL	mg/kg	0.45	0.064	1	8270C	04/10/08 13:39	rselph	Q31608
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.45	0.043	1	8270C	04/10/08 13:39	rselph	Q31608
Naphthalene	BRL	mg/kg	0.45	0.054	1	8270C	04/10/08 13:39	rselph	Q31608
Phenanthrene	BRL	mg/kg	0.45	0.038	1	8270C	04/10/08 13:39	rselph	Q31608
Pyrene	BRL	mg/kg	0.45	0.086	1	8270C	04/10/08 13:39	rselph	Q31608
Sample Preparation:				30.3 g	/	1 mL	3550B	04/09/08 11:00	pbarr P21289

Surrogate	% Recovery	Control Limits
Terphenyl-d14	85	41 - 136
Phenol-d5	71	13 - 95
Nitrobenzene-d5	57	14 - 103
2-Fluorophenol	80	14 - 89
2-Fluorobiphenyl	84	21 - 108
2,4,6-Tribromophenol	71	25 - 123

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

Laboratory Report

04/18/08

North Carolina Department of
Transportation
Attn: David Graham
c/o Hart and Hickman
2923 South Tryon St. Ste 100
Charlotte, NC 28203

Project Name: Boone PSAs
Project ID: ROW-148
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: 35-2 (6-8')
Prism Sample ID: 210373
COC Group: G0408076
Time Collected: 04/01/08 11:15
Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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
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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
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 2923 South Tryon St. Ste 100
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Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

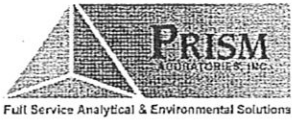
Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210374
 COC Group: G0408076
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	73.3	%			1	SM2540 G	04/07/08 13:45	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	4.87	g			1	5035	04/04/08 0:00	lbrown	
Weight Bisulfate 2	4.57	g			1	5035	04/04/08 0:00	lbrown	
Weight Methanol	4.48	g			1	5035	04/04/08 0:00	lbrown	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0070	0.00083	1	8260B	04/05/08 1:01	Iwity	Q31423
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0070	0.0005	1	8260B	04/05/08 1:01	Iwity	Q31423
1,1,2-Trichloroethane	BRL	mg/kg	0.0070	0.00074	1	8260B	04/05/08 1:01	Iwity	Q31423
1,1-Dichloroethane	BRL	mg/kg	0.0070	0.0008	1	8260B	04/05/08 1:01	Iwity	Q31423
1,1-Dichloroethene	BRL	mg/kg	0.0070	0.0012	1	8260B	04/05/08 1:01	Iwity	Q31423
1,1-Dichloropropene	BRL	mg/kg	0.0070	0.00083	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0070	0.0008	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2,3-Trichloropropane	BRL	mg/kg	0.0070	0.00094	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0070	0.00091	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0070	0.00035	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0070	0.00087	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2-Dichlorobenzene	BRL	mg/kg	0.0070	0.00045	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2-Dichloroethane	BRL	mg/kg	0.0070	0.00078	1	8260B	04/05/08 1:01	Iwity	Q31423
1,2-Dichloropropane	BRL	mg/kg	0.0070	0.0017	1	8260B	04/05/08 1:01	Iwity	Q31423
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0070	0.00059	1	8260B	04/05/08 1:01	Iwity	Q31423
1,3-Dichlorobenzene	BRL	mg/kg	0.0070	0.00046	1	8260B	04/05/08 1:01	Iwity	Q31423
1,3-Dichloropropane	BRL	mg/kg	0.0070	0.00029	1	8260B	04/05/08 1:01	Iwity	Q31423
1,4-Dichlorobenzene	BRL	mg/kg	0.0070	0.0009	1	8260B	04/05/08 1:01	Iwity	Q31423
2,2-Dichloropropane	BRL	mg/kg	0.0070	0.0010	1	8260B	04/05/08 1:01	Iwity	Q31423
2-Chlorotoluene	BRL	mg/kg	0.0070	0.00039	1	8260B	04/05/08 1:01	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210374
 COC Group: G0408076
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.070	0.0060	1	8260B	04/05/08 1:01	Iwityr	Q31423
4-Chlorotoluene	BRL	mg/kg	0.0070	0.00052	1	8260B	04/05/08 1:01	Iwityr	Q31423
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.070	0.0073	1	8260B	04/05/08 1:01	Iwityr	Q31423
Acetone	BRL	mg/kg	0.070	0.021	1	8260B	04/05/08 1:01	Iwityr	Q31423
Benzene	BRL	mg/kg	0.0042	0.00059	1	8260B	04/05/08 1:01	Iwityr	Q31423
Bromobenzene	BRL	mg/kg	0.0070	0.0009	1	8260B	04/05/08 1:01	Iwityr	Q31423
Bromochloromethane	BRL	mg/kg	0.0070	0.00057	1	8260B	04/05/08 1:01	Iwityr	Q31423
Bromodichloromethane	BRL	mg/kg	0.0070	0.00076	1	8260B	04/05/08 1:01	Iwityr	Q31423
Bromoform	BRL	mg/kg	0.0070	0.00063	1	8260B	04/05/08 1:01	Iwityr	Q31423
Bromomethane	BRL	mg/kg	0.014	0.0016	1	8260B	04/05/08 1:01	Iwityr	Q31423
Carbon tetrachloride	BRL	mg/kg	0.0070	0.00046	1	8260B	04/05/08 1:01	Iwityr	Q31423
Chlorobenzene	BRL	mg/kg	0.0070	0.00071	1	8260B	04/05/08 1:01	Iwityr	Q31423
Chlorodibromomethane	BRL	mg/kg	0.0070	0.00064	1	8260B	04/05/08 1:01	Iwityr	Q31423
Chloroethane	BRL	mg/kg	0.014	0.0024	1	8260B	04/05/08 1:01	Iwityr	Q31423
Chloroform	BRL	mg/kg	0.0070	0.0012	1	8260B	04/05/08 1:01	Iwityr	Q31423
Chloromethane	BRL	mg/kg	0.0070	0.0017	1	8260B	04/05/08 1:01	Iwityr	Q31423
cis-1,2-Dichloroethene	BRL	mg/kg	0.0070	0.0011	1	8260B	04/05/08 1:01	Iwityr	Q31423
cis-1,3-Dichloropropene	BRL	mg/kg	0.0070	0.00092	1	8260B	04/05/08 1:01	Iwityr	Q31423
Dichlorodifluoromethane	BRL	mg/kg	0.0070	0.0019	1	8260B	04/05/08 1:01	Iwityr	Q31423
Ethylbenzene	BRL	mg/kg	0.0070	0.00032	1	8260B	04/05/08 1:01	Iwityr	Q31423
Isopropyl ether (IPE)	BRL	mg/kg	0.0070	0.00064	1	8260B	04/05/08 1:01	Iwityr	Q31423
Isopropylbenzene	BRL	mg/kg	0.0070	0.00041	1	8260B	04/05/08 1:01	Iwityr	Q31423
m,p-Xylenes	BRL	mg/kg	0.014	0.0011	1	8260B	04/05/08 1:01	Iwityr	Q31423
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.14	0.021	1	8260B	04/05/08 1:01	Iwityr	Q31423
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.014	0.00059	1	8260B	04/05/08 1:01	Iwityr	Q31423
Methylene chloride	BRL	mg/kg	0.0070	0.0011	1	8260B	04/05/08 1:01	Iwityr	Q31423
n-Butylbenzene	BRL	mg/kg	0.0070	0.0005	1	8260B	04/05/08 1:01	Iwityr	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210374
 COC Group: G0408076
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0070	0.00046	1	8260B	04/05/08 1:01	Iwity	Q31423
Naphthalene	BRL	mg/kg	0.014	0.00084	1	8260B	04/05/08 1:01	Iwity	Q31423
o-Xylene	BRL	mg/kg	0.0070	0.00029	1	8260B	04/05/08 1:01	Iwity	Q31423
p-Isopropyltoluene	BRL	mg/kg	0.0070	0.00056	1	8260B	04/05/08 1:01	Iwity	Q31423
sec-Butylbenzene	BRL	mg/kg	0.0070	0.00048	1	8260B	04/05/08 1:01	Iwity	Q31423
Styrene	BRL	mg/kg	0.0070	0.00078	1	8260B	04/05/08 1:01	Iwity	Q31423
tert-Butylbenzene	BRL	mg/kg	0.0070	0.00059	1	8260B	04/05/08 1:01	Iwity	Q31423
Tetrachloroethene	BRL	mg/kg	0.0070	0.00063	1	8260B	04/05/08 1:01	Iwity	Q31423
Toluene	BRL	mg/kg	0.0070	0.00052	1	8260B	04/05/08 1:01	Iwity	Q31423
trans-1,2-Dichloroethene	BRL	mg/kg	0.0070	0.0009	1	8260B	04/05/08 1:01	Iwity	Q31423
trans-1,3-Dichloropropene	BRL	mg/kg	0.0070	0.00083	1	8260B	04/05/08 1:01	Iwity	Q31423
Trichloroethene	BRL	mg/kg	0.0070	0.0010	1	8260B	04/05/08 1:01	Iwity	Q31423
Trichlorofluoromethane	BRL	mg/kg	0.0070	0.0012	1	8260B	04/05/08 1:01	Iwity	Q31423
Vinyl acetate	BRL	mg/kg	0.035	0.0020	1	8260B	04/05/08 1:01	Iwity	Q31423
Vinyl chloride	BRL	mg/kg	0.0070	0.0012	1	8260B	04/05/08 1:01	Iwity	Q31423

Surrogate	% Recovery	Control Limits
Toluene-d8	98	81 - 128
Dibromofluoromethane	99	67 - 143
Bromofluorobenzene	98	77 - 128

Semi-volatile Organic Compounds by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.45	0.050	1	8270C	04/10/08 14:13	rselph	Q31608
Acenaphthene	BRL	mg/kg	0.45	0.061	1	8270C	04/10/08 14:13	rselph	Q31608
Acenaphthylene	BRL	mg/kg	0.45	0.042	1	8270C	04/10/08 14:13	rselph	Q31608
Anthracene	BRL	mg/kg	0.45	0.033	1	8270C	04/10/08 14:13	rselph	Q31608
Benzo(a)anthracene	BRL	mg/kg	0.45	0.051	1	8270C	04/10/08 14:13	rselph	Q31608
Benzo(a)pyrene	BRL	mg/kg	0.45	0.057	1	8270C	04/10/08 14:13	rselph	Q31608

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Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210374
 COC Group: G0408076
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.45	0.092	1	8270C	04/10/08 14:13	rselph	Q31608
Benzo(g,h,i)perylene	BRL	mg/kg	0.45	0.057	1	8270C	04/10/08 14:13	rselph	Q31608
Benzo(k)fluoranthene	BRL	mg/kg	0.45	0.12	1	8270C	04/10/08 14:13	rselph	Q31608
Chrysene	BRL	mg/kg	0.45	0.030	1	8270C	04/10/08 14:13	rselph	Q31608
Dibenzo(a,h)anthracene	BRL	mg/kg	0.45	0.042	1	8270C	04/10/08 14:13	rselph	Q31608
Fluoranthene	BRL	mg/kg	0.45	0.079	1	8270C	04/10/08 14:13	rselph	Q31608
Fluorene	BRL	mg/kg	0.45	0.064	1	8270C	04/10/08 14:13	rselph	Q31608
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.45	0.043	1	8270C	04/10/08 14:13	rselph	Q31608
Naphthalene	BRL	mg/kg	0.45	0.054	1	8270C	04/10/08 14:13	rselph	Q31608
Phenanthrene	BRL	mg/kg	0.45	0.038	1	8270C	04/10/08 14:13	rselph	Q31608
Pyrene	BRL	mg/kg	0.45	0.086	1	8270C	04/10/08 14:13	rselph	Q31608

Sample Preparation: 30.08 g / 1 mL 3550B 04/09/08 11:00 pbarr P21289

Surrogate	% Recovery	Control Limits
Terphenyl-d14	97	41 - 136
Phenol-d5	62	13 - 95
Nitrobenzene-d5	66	14 - 103
2-Fluorophenol	57	14 - 89
2-Fluorobiphenyl	93	21 - 108
2,4,6-Tribromophenol	80	25 - 123

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NC Certification No. 402
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Laboratory Report

04/21/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210728
 COC Group: G0408175
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.5	%			1	SM2540 G	04/08/08 12:35	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.0	1.3	1	8015B	04/12/08 23:40	jvogel	Q31719
Sample Preparation:			25.13 g /		1 mL	3545	04/11/08 17:00	wconder	P21312
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	71	49 - 124	
Sample Weight Determination									
Weight 1	4.90	g			1	GRO	04/08/08 0:00	lbrown	
Weight 2	5.07	g			1	GRO	04/08/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/11/08 19:49	wbradley	Q31685
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	98	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

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Angela D. Overcash, V.P. Laboratory Services

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North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-3 (6-8')
 Prism Sample ID: 210374
 COC Group: G0408076
 Time Collected: 04/01/08 11:45
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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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Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

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 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

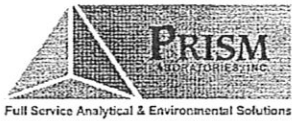
Client Sample ID: 35-4 (6-8')
 Prism Sample ID: 210375
 COC Group: G0408076
 Time Collected: 04/01/08 13:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	92.2	%			1	SM2540 G	04/07/08 13:45	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	4.77	g			1	5035	04/04/08 0:00	lbrown	
Weight Bisulfate 2	5.09	g			1	5035	04/04/08 0:00	lbrown	
Weight Methanol	4.50	g			1	5035	04/04/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0057	0.00067	1	8260B	04/05/08 1:46	Iwity	Q31423
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0057	0.00041	1	8260B	04/05/08 1:46	Iwity	Q31423
1,1,2-Trichloroethane	BRL	mg/kg	0.0057	0.0006	1	8260B	04/05/08 1:46	Iwity	Q31423
1,1-Dichloroethane	BRL	mg/kg	0.0057	0.00065	1	8260B	04/05/08 1:46	Iwity	Q31423
1,1-Dichloroethene	BRL	mg/kg	0.0057	0.00098	1	8260B	04/05/08 1:46	Iwity	Q31423
1,1-Dichloropropene	BRL	mg/kg	0.0057	0.00067	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0057	0.00065	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2,3-Trichloropropane	BRL	mg/kg	0.0057	0.00076	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0057	0.00074	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0057	0.00028	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0057	0.0007	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2-Dichlorobenzene	BRL	mg/kg	0.0057	0.00036	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2-Dichloroethane	BRL	mg/kg	0.0057	0.00064	1	8260B	04/05/08 1:46	Iwity	Q31423
1,2-Dichloropropane	BRL	mg/kg	0.0057	0.0014	1	8260B	04/05/08 1:46	Iwity	Q31423
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0057	0.00048	1	8260B	04/05/08 1:46	Iwity	Q31423
1,3-Dichlorobenzene	BRL	mg/kg	0.0057	0.00038	1	8260B	04/05/08 1:46	Iwity	Q31423
1,3-Dichloropropane	BRL	mg/kg	0.0057	0.00024	1	8260B	04/05/08 1:46	Iwity	Q31423
1,4-Dichlorobenzene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/05/08 1:46	Iwity	Q31423
2,2-Dichloropropane	BRL	mg/kg	0.0057	0.00082	1	8260B	04/05/08 1:46	Iwity	Q31423
2-Chlorotoluene	BRL	mg/kg	0.0057	0.00032	1	8260B	04/05/08 1:46	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

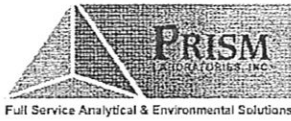
Client Sample ID: 35-4 (6-8')
 Prism Sample ID: 210375
 COC Group: G0408076
 Time Collected: 04/01/08 13:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.057	0.0049	1	8260B	04/05/08 1:46	Iwity	Q31423
4-Chlorotoluene	BRL	mg/kg	0.0057	0.00042	1	8260B	04/05/08 1:46	Iwity	Q31423
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.057	0.0059	1	8260B	04/05/08 1:46	Iwity	Q31423
Acetone	BRL	mg/kg	0.057	0.017	1	8260B	04/05/08 1:46	Iwity	Q31423
Benzene	BRL	mg/kg	0.0034	0.00048	1	8260B	04/05/08 1:46	Iwity	Q31423
Bromobenzene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/05/08 1:46	Iwity	Q31423
Bromochloromethane	BRL	mg/kg	0.0057	0.00047	1	8260B	04/05/08 1:46	Iwity	Q31423
Bromodichloromethane	BRL	mg/kg	0.0057	0.00061	1	8260B	04/05/08 1:46	Iwity	Q31423
Bromoform	BRL	mg/kg	0.0057	0.00051	1	8260B	04/05/08 1:46	Iwity	Q31423
Bromomethane	BRL	mg/kg	0.011	0.0013	1	8260B	04/05/08 1:46	Iwity	Q31423
Carbon tetrachloride	BRL	mg/kg	0.0057	0.00038	1	8260B	04/05/08 1:46	Iwity	Q31423
Chlorobenzene	BRL	mg/kg	0.0057	0.00058	1	8260B	04/05/08 1:46	Iwity	Q31423
Chlorodibromomethane	BRL	mg/kg	0.0057	0.00052	1	8260B	04/05/08 1:46	Iwity	Q31423
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/05/08 1:46	Iwity	Q31423
Chloroform	BRL	mg/kg	0.0057	0.00094	1	8260B	04/05/08 1:46	Iwity	Q31423
Chloromethane	BRL	mg/kg	0.0057	0.0014	1	8260B	04/05/08 1:46	Iwity	Q31423
cis-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.00091	1	8260B	04/05/08 1:46	Iwity	Q31423
cis-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.00076	1	8260B	04/05/08 1:46	Iwity	Q31423
Dichlorodifluoromethane	BRL	mg/kg	0.0057	0.0016	1	8260B	04/05/08 1:46	Iwity	Q31423
Ethylbenzene	BRL	mg/kg	0.0057	0.00026	1	8260B	04/05/08 1:46	Iwity	Q31423
Isopropyl ether (IPE)	BRL	mg/kg	0.0057	0.00052	1	8260B	04/05/08 1:46	Iwity	Q31423
Isopropylbenzene	BRL	mg/kg	0.0057	0.00033	1	8260B	04/05/08 1:46	Iwity	Q31423
m,p-Xylenes	BRL	mg/kg	0.011	0.00093	1	8260B	04/05/08 1:46	Iwity	Q31423
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.017	1	8260B	04/05/08 1:46	Iwity	Q31423
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00048	1	8260B	04/05/08 1:46	Iwity	Q31423
Methylene chloride	BRL	mg/kg	0.0057	0.00093	1	8260B	04/05/08 1:46	Iwity	Q31423
n-Butylbenzene	BRL	mg/kg	0.0057	0.00041	1	8260B	04/05/08 1:46	Iwity	Q31423

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-4 (6-8')
 Prism Sample ID: 210375
 COC Group: G0408076
 Time Collected: 04/01/08 13:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0057	0.00038	1	8260B	04/05/08 1:46	lwitry	Q31423
Naphthalene	BRL	mg/kg	0.011	0.00068	1	8260B	04/05/08 1:46	lwitry	Q31423
o-Xylene	BRL	mg/kg	0.0057	0.00024	1	8260B	04/05/08 1:46	lwitry	Q31423
p-Isopropyltoluene	BRL	mg/kg	0.0057	0.00045	1	8260B	04/05/08 1:46	lwitry	Q31423
sec-Butylbenzene	BRL	mg/kg	0.0057	0.00039	1	8260B	04/05/08 1:46	lwitry	Q31423
Styrene	BRL	mg/kg	0.0057	0.00064	1	8260B	04/05/08 1:46	lwitry	Q31423
tert-Butylbenzene	BRL	mg/kg	0.0057	0.00048	1	8260B	04/05/08 1:46	lwitry	Q31423
Tetrachloroethene	BRL	mg/kg	0.0057	0.00051	1	8260B	04/05/08 1:46	lwitry	Q31423
Toluene	BRL	mg/kg	0.0057	0.00042	1	8260B	04/05/08 1:46	lwitry	Q31423
trans-1,2-Dichloroethene	BRL	mg/kg	0.0057	0.00073	1	8260B	04/05/08 1:46	lwitry	Q31423
trans-1,3-Dichloropropene	BRL	mg/kg	0.0057	0.00067	1	8260B	04/05/08 1:46	lwitry	Q31423
Trichloroethene	BRL	mg/kg	0.0057	0.00083	1	8260B	04/05/08 1:46	lwitry	Q31423
Trichlorofluoromethane	BRL	mg/kg	0.0057	0.0010	1	8260B	04/05/08 1:46	lwitry	Q31423
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/05/08 1:46	lwitry	Q31423
Vinyl chloride	BRL	mg/kg	0.0057	0.00099	1	8260B	04/05/08 1:46	lwitry	Q31423

Surrogate	% Recovery	Control Limits
Toluene-d8	98	81 - 128
Dibromofluoromethane	102	67 - 143
Bromofluorobenzene	95	77 - 128

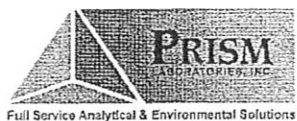
Semi-volatile Organic Compounds by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.36	0.040	1	8270C	04/10/08 14:46	rselph	Q31608
Acenaphthene	BRL	mg/kg	0.36	0.049	1	8270C	04/10/08 14:46	rselph	Q31608
Acenaphthylene	BRL	mg/kg	0.36	0.034	1	8270C	04/10/08 14:46	rselph	Q31608
Anthracene	BRL	mg/kg	0.36	0.026	1	8270C	04/10/08 14:46	rselph	Q31608
Benzo(a)anthracene	BRL	mg/kg	0.36	0.040	1	8270C	04/10/08 14:46	rselph	Q31608
Benzo(a)pyrene	BRL	mg/kg	0.36	0.045	1	8270C	04/10/08 14:46	rselph	Q31608

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

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-4 (6-8')
 Prism Sample ID: 210375
 COC Group: G0408076
 Time Collected: 04/01/08 13:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.36	0.073	1	8270C	04/10/08 14:46	rselph	Q31608
Benzo(g,h,i)perylene	BRL	mg/kg	0.36	0.046	1	8270C	04/10/08 14:46	rselph	Q31608
Benzo(k)fluoranthene	BRL	mg/kg	0.36	0.096	1	8270C	04/10/08 14:46	rselph	Q31608
Chrysene	BRL	mg/kg	0.36	0.024	1	8270C	04/10/08 14:46	rselph	Q31608
Dibenzo(a,h)anthracene	BRL	mg/kg	0.36	0.033	1	8270C	04/10/08 14:46	rselph	Q31608
Fluoranthene	BRL	mg/kg	0.36	0.063	1	8270C	04/10/08 14:46	rselph	Q31608
Fluorene	BRL	mg/kg	0.36	0.051	1	8270C	04/10/08 14:46	rselph	Q31608
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.36	0.034	1	8270C	04/10/08 14:46	rselph	Q31608
Naphthalene	BRL	mg/kg	0.36	0.043	1	8270C	04/10/08 14:46	rselph	Q31608
Phenanthrene	BRL	mg/kg	0.36	0.030	1	8270C	04/10/08 14:46	rselph	Q31608
Pyrene	BRL	mg/kg	0.36	0.068	1	8270C	04/10/08 14:46	rselph	Q31608

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

Sample Preparation: 29.97 g / 1 mL 3550B 04/09/08 11:00 pbarr P21289

Surrogate	% Recovery	Control Limits
Terphenyl-d14	96	41 - 136
Phenol-d5	51	13 - 95
Nitrobenzene-d5	78	14 - 103
2-Fluorophenol	49	14 - 89
2-Fluorobiphenyl	114 #	21 - 108
2,4,6-Tribromophenol	89	25 - 123

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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/18/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-4 (6-8')
 Prism Sample ID: 210375
 COC Group: G0408076
 Time Collected: 04/01/08 13:15
 Time Submitted: 04/03/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

*BRL = Below Reporting Limit
 Values are reported down to the reporting limit only. No J-Flags applied.
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis*

Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5 (10-12')
 Prism Sample ID: 210703
 COC Group: G0408173
 Time Collected: 04/03/08 16:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	80.7	%			1	SM2540 G	04/09/08 14:10	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	5.55	g			1	5035	04/08/08 0:00	lbrown	
Weight Bisulfate 2	6.31	g			1	5035	04/08/08 0:00	lbrown	
Weight Methanol	6.01	g			1	5035	04/08/08 0:00	lbrown	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0056	0.00066	1	8260B	04/09/08 23:27	lwitry	Q31593
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0056	0.0004	1	8260B	04/09/08 23:27	lwitry	Q31593
1,1,2-Trichloroethane	BRL	mg/kg	0.0056	0.00059	1	8260B	04/09/08 23:27	lwitry	Q31593
1,1-Dichloroethane	BRL	mg/kg	0.0056	0.00064	1	8260B	04/09/08 23:27	lwitry	Q31593
1,1-Dichloroethene	BRL	mg/kg	0.0056	0.00096	1	8260B	04/09/08 23:27	lwitry	Q31593
1,1-Dichloropropene	BRL	mg/kg	0.0056	0.00066	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0056	0.00064	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2,3-Trichloropropane	BRL	mg/kg	0.0056	0.00075	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0056	0.00073	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0056	0.00028	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0056	0.00069	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2-Dichlorobenzene	BRL	mg/kg	0.0056	0.00036	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2-Dichloroethane	BRL	mg/kg	0.0056	0.00063	1	8260B	04/09/08 23:27	lwitry	Q31593
1,2-Dichloropropane	BRL	mg/kg	0.0056	0.0014	1	8260B	04/09/08 23:27	lwitry	Q31593
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0056	0.00047	1	8260B	04/09/08 23:27	lwitry	Q31593
1,3-Dichlorobenzene	BRL	mg/kg	0.0056	0.00037	1	8260B	04/09/08 23:27	lwitry	Q31593
1,3-Dichloropropane	BRL	mg/kg	0.0056	0.00023	1	8260B	04/09/08 23:27	lwitry	Q31593
1,4-Dichlorobenzene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/09/08 23:27	lwitry	Q31593
2,2-Dichloropropane	BRL	mg/kg	0.0056	0.0008	1	8260B	04/09/08 23:27	lwitry	Q31593
2-Chlorotoluene	BRL	mg/kg	0.0056	0.00031	1	8260B	04/09/08 23:27	lwitry	Q31593

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NC Certification No. 402
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5 (10-12')
 Prism Sample ID: 210703
 COC Group: G0408173
 Time Collected: 04/03/08 16:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.056	0.0048	1	8260B	04/09/08 23:27	Iwity	Q31593
4-Chlorotoluene	BRL	mg/kg	0.0056	0.00041	1	8260B	04/09/08 23:27	Iwity	Q31593
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.056	0.0058	1	8260B	04/09/08 23:27	Iwity	Q31593
Acetone	BRL	mg/kg	0.056	0.017	1	8260B	04/09/08 23:27	Iwity	Q31593
Benzene	BRL	mg/kg	0.0033	0.00047	1	8260B	04/09/08 23:27	Iwity	Q31593
Bromobenzene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/09/08 23:27	Iwity	Q31593
Bromochloromethane	BRL	mg/kg	0.0056	0.00046	1	8260B	04/09/08 23:27	Iwity	Q31593
Bromodichloromethane	BRL	mg/kg	0.0056	0.0006	1	8260B	04/09/08 23:27	Iwity	Q31593
Bromoform	BRL	mg/kg	0.0056	0.0005	1	8260B	04/09/08 23:27	Iwity	Q31593
Bromomethane	BRL	mg/kg	0.011	0.0013	1	8260B	04/09/08 23:27	Iwity	Q31593
Carbon tetrachloride	BRL	mg/kg	0.0056	0.00037	1	8260B	04/09/08 23:27	Iwity	Q31593
Chlorobenzene	BRL	mg/kg	0.0056	0.00057	1	8260B	04/09/08 23:27	Iwity	Q31593
Chlorodibromomethane	BRL	mg/kg	0.0056	0.00051	1	8260B	04/09/08 23:27	Iwity	Q31593
Chloroethane	BRL	mg/kg	0.011	0.0019	1	8260B	04/09/08 23:27	Iwity	Q31593
Chloroform	BRL	mg/kg	0.0056	0.00093	1	8260B	04/09/08 23:27	Iwity	Q31593
Chloromethane	BRL	mg/kg	0.0056	0.0013	1	8260B	04/09/08 23:27	Iwity	Q31593
cis-1,2-Dichloroethene	BRL	mg/kg	0.0056	0.00089	1	8260B	04/09/08 23:27	Iwity	Q31593
cis-1,3-Dichloropropene	BRL	mg/kg	0.0056	0.00074	1	8260B	04/09/08 23:27	Iwity	Q31593
Dichlorodifluoromethane	BRL	mg/kg	0.0056	0.0015	1	8260B	04/09/08 23:27	Iwity	Q31593
Ethylbenzene	BRL	mg/kg	0.0056	0.00026	1	8260B	04/09/08 23:27	Iwity	Q31593
Isopropyl ether (IPE)	BRL	mg/kg	0.0056	0.00051	1	8260B	04/09/08 23:27	Iwity	Q31593
Isopropylbenzene	BRL	mg/kg	0.0056	0.00032	1	8260B	04/09/08 23:27	Iwity	Q31593
m,p-Xylenes	BRL	mg/kg	0.011	0.00092	1	8260B	04/09/08 23:27	Iwity	Q31593
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.11	0.016	1	8260B	04/09/08 23:27	Iwity	Q31593
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.011	0.00047	1	8260B	04/09/08 23:27	Iwity	Q31593
Methylene chloride	BRL	mg/kg	0.0056	0.00092	1	8260B	04/09/08 23:27	Iwity	Q31593
n-Butylbenzene	BRL	mg/kg	0.0056	0.0004	1	8260B	04/09/08 23:27	Iwity	Q31593

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Laboratory Report

04/25/08

North Carolina Department of
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 Attn: David Graham
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 2923 South Tryon St. Ste 100
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Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5 (10-12")
 Prism Sample ID: 210703
 COC Group: G0408173
 Time Collected: 04/03/08 16:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0056	0.00037	1	8260B	04/09/08 23:27	lwitry	Q31593
Naphthalene	BRL	mg/kg	0.011	0.00067	1	8260B	04/09/08 23:27	lwitry	Q31593
o-Xylene	BRL	mg/kg	0.0056	0.00023	1	8260B	04/09/08 23:27	lwitry	Q31593
p-Isopropyltoluene	BRL	mg/kg	0.0056	0.00045	1	8260B	04/09/08 23:27	lwitry	Q31593
sec-Butylbenzene	BRL	mg/kg	0.0056	0.00038	1	8260B	04/09/08 23:27	lwitry	Q31593
Styrene	BRL	mg/kg	0.0056	0.00063	1	8260B	04/09/08 23:27	lwitry	Q31593
tert-Butylbenzene	BRL	mg/kg	0.0056	0.00047	1	8260B	04/09/08 23:27	lwitry	Q31593
Tetrachloroethene	0.012	mg/kg	0.0056	0.0005	1	8260B	04/09/08 23:27	lwitry	Q31593
Toluene	BRL	mg/kg	0.0056	0.00041	1	8260B	04/09/08 23:27	lwitry	Q31593
trans-1,2-Dichloroethene	BRL	mg/kg	0.0056	0.00071	1	8260B	04/09/08 23:27	lwitry	Q31593
trans-1,3-Dichloropropene	BRL	mg/kg	0.0056	0.00066	1	8260B	04/09/08 23:27	lwitry	Q31593
Trichloroethene	BRL	mg/kg	0.0056	0.00081	1	8260B	04/09/08 23:27	lwitry	Q31593
Trichlorofluoromethane	BRL	mg/kg	0.0056	0.00099	1	8260B	04/09/08 23:27	lwitry	Q31593
Vinyl acetate	BRL	mg/kg	0.028	0.0016	1	8260B	04/09/08 23:27	lwitry	Q31593
Vinyl chloride	BRL	mg/kg	0.0056	0.00097	1	8260B	04/09/08 23:27	lwitry	Q31593

Surrogate	% Recovery	Control Limits
Toluene-d8	101	81 - 128
Dibromofluoromethane	98	67 - 143
Bromofluorobenzene	104	77 - 128

Semi-volatile Organic Compounds by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.41	0.046	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Acenaphthene	BRL	mg/kg	0.41	0.055	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Acenaphthylene	BRL	mg/kg	0.41	0.038	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Anthracene	BRL	mg/kg	0.41	0.030	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Benzo(a)anthracene	BRL	mg/kg	0.41	0.046	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Benzo(a)pyrene	BRL	mg/kg	0.41	0.052	1	8270C	04/15/08 17:07	kcampigotto	Q31746

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

Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5 (10-12')
 Prism Sample ID: 210703
 COC Group: G0408173
 Time Collected: 04/03/08 16:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.41	0.083	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Benzo(g,h,i)perylene	BRL	mg/kg	0.41	0.052	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Benzo(k)fluoranthene	BRL	mg/kg	0.41	0.11	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Chrysene	BRL	mg/kg	0.41	0.027	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Dibenzo(a,h)anthracene	BRL	mg/kg	0.41	0.038	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Fluoranthene	BRL	mg/kg	0.41	0.072	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Fluorene	BRL	mg/kg	0.41	0.058	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.41	0.039	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Naphthalene	BRL	mg/kg	0.41	0.049	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Phenanthrene	BRL	mg/kg	0.41	0.035	1	8270C	04/15/08 17:07	kcampigotto	Q31746
Pyrene	BRL	mg/kg	0.41	0.078	1	8270C	04/15/08 17:07	kcampigotto	Q31746

Sample Preparation: 30.09 g / 1 mL 3550B 04/15/08 12:00 pbarr P21336

Surrogate	% Recovery	Control Limits
Terphenyl-d14	90	41 - 136
Phenol-d5	60	13 - 95
Nitrobenzene-d5	61	14 - 103
2-Fluorophenol	60	14 - 89
2-Fluorobiphenyl	99	21 - 108
2,4,6-Tribromophenol	90	25 - 123

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Page 28 of 29



NC Certification No. 402
 SC Certification No. 99012
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Laboratory Report

04/25/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5 (10-12')
 Prism Sample ID: 210703
 COC Group: G0408173
 Time Collected: 04/03/08 16:45
 Time Submitted: 04/07/08 10:35

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limits only. No J-flags applied.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

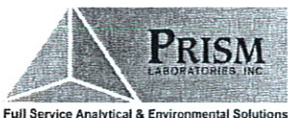
Client Sample ID: 35-5 (7-10) ✓
 Prism Sample ID: 211264
 COC Group: G0408351
 Time Collected: 04/09/08 9:55
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	66.7	%			1	SM2540 G	04/15/08 11:15	mbarber	
<u>Sample Weight Determination</u>									
Weight Bisulfate 1	6.00	g			1	5035	04/22/08 0:00	athao	
Weight Bisulfate 2	5.95	g			1	5035	04/22/08 0:00	athao	
Weight Methanol	4.39	g			1	5035	04/22/08 0:00	athao	
<u>Volatile Organic Compounds by GC/MS</u>									
1,1,1-Trichloroethane	BRL	mg/kg	0.0062	0.00074	1	8260B	04/16/08 5:48	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0062	0.00045	1	8260B	04/16/08 5:48	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0062	0.00066	1	8260B	04/16/08 5:48	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0062	0.00071	1	8260B	04/16/08 5:48	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 5:48	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0062	0.00074	1	8260B	04/16/08 5:48	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0062	0.00071	1	8260B	04/16/08 5:48	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0062	0.00084	1	8260B	04/16/08 5:48	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0062	0.00081	1	8260B	04/16/08 5:48	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0062	0.00031	1	8260B	04/16/08 5:48	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0062	0.00077	1	8260B	04/16/08 5:48	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0062	0.0004	1	8260B	04/16/08 5:48	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0062	0.0007	1	8260B	04/16/08 5:48	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0062	0.0015	1	8260B	04/16/08 5:48	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	04/16/08 5:48	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 5:48	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0062	0.00026	1	8260B	04/16/08 5:48	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0062	0.0008	1	8260B	04/16/08 5:48	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0062	0.0009	1	8260B	04/16/08 5:48	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0062	0.00035	1	8260B	04/16/08 5:48	erussell	Q31741

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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-5(7-10)
 Prism Sample ID: 211264
 COC Group: G0408351
 Time Collected: 04/09/08 9:55
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.062	0.0054	1	8260B	04/16/08 5:48	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0062	0.00046	1	8260B	04/16/08 5:48	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.062	0.0065	1	8260B	04/16/08 5:48	erussell	Q31741
Acetone	BRL	mg/kg	0.062	0.019	1	8260B	04/16/08 5:48	erussell	Q31741
Benzene	BRL	mg/kg	0.0037	0.00052	1	8260B	04/16/08 5:48	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0062	0.0008	1	8260B	04/16/08 5:48	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0062	0.00051	1	8260B	04/16/08 5:48	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0062	0.00067	1	8260B	04/16/08 5:48	erussell	Q31741
Bromoform	BRL	mg/kg	0.0062	0.00056	1	8260B	04/16/08 5:48	erussell	Q31741
Bromomethane	BRL	mg/kg	0.012	0.0014	1	8260B	04/16/08 5:48	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 5:48	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0062	0.00064	1	8260B	04/16/08 5:48	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0062	0.00057	1	8260B	04/16/08 5:48	erussell	Q31741
Chloroethane	BRL	mg/kg	0.012	0.0021	1	8260B	04/16/08 5:48	erussell	Q31741
Chloroform	BRL	mg/kg	0.0062	0.0010	1	8260B	04/16/08 5:48	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0062	0.0015	1	8260B	04/16/08 5:48	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0062	0.0010	1	8260B	04/16/08 5:48	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00082	1	8260B	04/16/08 5:48	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0062	0.0017	1	8260B	04/16/08 5:48	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0062	0.00029	1	8260B	04/16/08 5:48	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0062	0.00057	1	8260B	04/16/08 5:48	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0062	0.00036	1	8260B	04/16/08 5:48	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.012	0.0010	1	8260B	04/16/08 5:48	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.12	0.018	1	8260B	04/16/08 5:48	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.012	0.00052	1	8260B	04/16/08 5:48	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0062	0.0010	1	8260B	04/16/08 5:48	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0062	0.00045	1	8260B	04/16/08 5:48	erussell	Q31741

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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: ³⁵⁻⁶35-5(7-10)
 Prism Sample ID: 211264
 COC Group: G0408351
 Time Collected: 04/09/08 9:55
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0062	0.00041	1	8260B	04/16/08 5:48	erussell	Q31741
Naphthalene	BRL	mg/kg	0.012	0.00075	1	8260B	04/16/08 5:48	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0062	0.00026	1	8260B	04/16/08 5:48	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0062	0.0005	1	8260B	04/16/08 5:48	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0062	0.00042	1	8260B	04/16/08 5:48	erussell	Q31741
Styrene	BRL	mg/kg	0.0062	0.0007	1	8260B	04/16/08 5:48	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0062	0.00052	1	8260B	04/16/08 5:48	erussell	Q31741
Tetrachloroethene	0.026	mg/kg	0.0062	0.00056	1	8260B	04/16/08 5:48	erussell	Q31741
Toluene	BRL	mg/kg	0.0062	0.00046	1	8260B	04/16/08 5:48	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0062	0.0008	1	8260B	04/16/08 5:48	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0062	0.00074	1	8260B	04/16/08 5:48	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0062	0.00091	1	8260B	04/16/08 5:48	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 5:48	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.031	0.0018	1	8260B	04/16/08 5:48	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0062	0.0011	1	8260B	04/16/08 5:48	erussell	Q31741

Surrogate	% Recovery	Control Limits
Toluene-d8	104	81 - 128
Dibromofluoromethane	108	67 - 143
Bromofluorobenzene	105	77 - 128

PAHs by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.50	0.056	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Acenaphthene	BRL	mg/kg	0.50	0.068	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Acenaphthylene	BRL	mg/kg	0.50	0.047	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Anthracene	BRL	mg/kg	0.50	0.036	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Benzo(a)anthracene	BRL	mg/kg	0.50	0.056	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Benzo(a)pyrene	BRL	mg/kg	0.50	0.063	1	8270C	04/21/08 20:22	kcampigotto	Q31865

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NC Certification No. 402
 SC Certification No. 99012
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Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: ³⁵⁻⁶35-5(7-10)
 Prism Sample ID: 211264
 COC Group: G0408351
 Time Collected: 04/09/08 9:55
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.50	0.10	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Benzo(g,h,i)perylene	BRL	mg/kg	0.50	0.063	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Benzo(k)fluoranthene	BRL	mg/kg	0.50	0.13	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Chrysene	BRL	mg/kg	0.50	0.033	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Dibenzo(a,h)anthracene	BRL	mg/kg	0.50	0.046	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Fluoranthene	BRL	mg/kg	0.50	0.088	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Fluorene	BRL	mg/kg	0.50	0.071	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.50	0.047	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Naphthalene	BRL	mg/kg	0.50	0.059	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Phenanthrene	BRL	mg/kg	0.50	0.042	1	8270C	04/21/08 20:22	kcampigotto	Q31865
Pyrene	BRL	mg/kg	0.50	0.095	1	8270C	04/21/08 20:22	kcampigotto	Q31865

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

Sample Preparation: 29.82 g / 1 mL 3550B 04/19/08 11:00 pbarr P21375

Surrogate	% Recovery	Control Limits
Terphenyl-d14	109	41 - 136
Nitrobenzene-d5	89	14 - 103
2-Fluorobiphenyl	109 #	21 - 108

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: ³⁵⁻⁷ 35-6(7-10)
 Prism Sample ID: 211265
 COC Group: G0408351
 Time Collected: 04/09/08 10:10
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	88.1	%			1	SM2540 G	04/15/08 11:15	mbarber	
Sample Weight Determination									
Weight Bisulfate 1	4.23	g			1	5035	04/22/08 0:00	athao	
Weight Bisulfate 2	6.83	g			1	5035	04/22/08 0:00	athao	
Weight Methanol	4.35	g			1	5035	04/22/08 0:00	athao	
Volatile Organic Compounds by GC/MS									
1,1,1-Trichloroethane	BRL	mg/kg	0.0067	0.00079	1	8260B	04/16/08 6:20	erussell	Q31741
1,1,2,2-Tetrachloroethane	BRL	mg/kg	0.0067	0.00048	1	8260B	04/16/08 6:20	erussell	Q31741
1,1,2-Trichloroethane	BRL	mg/kg	0.0067	0.00071	1	8260B	04/16/08 6:20	erussell	Q31741
1,1-Dichloroethane	BRL	mg/kg	0.0067	0.00076	1	8260B	04/16/08 6:20	erussell	Q31741
1,1-Dichloroethene	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 6:20	erussell	Q31741
1,1-Dichloropropene	BRL	mg/kg	0.0067	0.00079	1	8260B	04/16/08 6:20	erussell	Q31741
1,2,3-Trichlorobenzene	BRL	mg/kg	0.0067	0.00076	1	8260B	04/16/08 6:20	erussell	Q31741
1,2,3-Trichloropropane	BRL	mg/kg	0.0067	0.0009	1	8260B	04/16/08 6:20	erussell	Q31741
1,2,4-Trichlorobenzene	BRL	mg/kg	0.0067	0.00087	1	8260B	04/16/08 6:20	erussell	Q31741
1,2,4-Trimethylbenzene	BRL	mg/kg	0.0067	0.00034	1	8260B	04/16/08 6:20	erussell	Q31741
1,2-Dibromoethane (EDB)	BRL	mg/kg	0.0067	0.00083	1	8260B	04/16/08 6:20	erussell	Q31741
1,2-Dichlorobenzene	BRL	mg/kg	0.0067	0.00043	1	8260B	04/16/08 6:20	erussell	Q31741
1,2-Dichloroethane	BRL	mg/kg	0.0067	0.00075	1	8260B	04/16/08 6:20	erussell	Q31741
1,2-Dichloropropane	BRL	mg/kg	0.0067	0.0016	1	8260B	04/16/08 6:20	erussell	Q31741
1,3,5-Trimethylbenzene	BRL	mg/kg	0.0067	0.00056	1	8260B	04/16/08 6:20	erussell	Q31741
1,3-Dichlorobenzene	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 6:20	erussell	Q31741
1,3-Dichloropropane	BRL	mg/kg	0.0067	0.00028	1	8260B	04/16/08 6:20	erussell	Q31741
1,4-Dichlorobenzene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 6:20	erussell	Q31741
2,2-Dichloropropane	BRL	mg/kg	0.0067	0.00097	1	8260B	04/16/08 6:20	erussell	Q31741
2-Chlorotoluene	BRL	mg/kg	0.0067	0.00038	1	8260B	04/16/08 6:20	erussell	Q31741

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



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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: ²⁵⁷35-6 (7-10)
 Prism Sample ID: 211265
 COC Group: G0408351
 Time Collected: 04/09/08 10:10
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
2-Hexanone	BRL	mg/kg	0.067	0.0058	1	8260B	04/16/08 6:20	erussell	Q31741
4-Chlorotoluene	BRL	mg/kg	0.0067	0.0005	1	8260B	04/16/08 6:20	erussell	Q31741
4-Methyl-2-pentanone (MIBK)	BRL	mg/kg	0.067	0.0070	1	8260B	04/16/08 6:20	erussell	Q31741
Acetone	BRL	mg/kg	0.067	0.020	1	8260B	04/16/08 6:20	erussell	Q31741
Benzene	BRL	mg/kg	0.0040	0.00056	1	8260B	04/16/08 6:20	erussell	Q31741
Bromobenzene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 6:20	erussell	Q31741
Bromochloromethane	BRL	mg/kg	0.0067	0.00055	1	8260B	04/16/08 6:20	erussell	Q31741
Bromodichloromethane	BRL	mg/kg	0.0067	0.00072	1	8260B	04/16/08 6:20	erussell	Q31741
Bromoform	BRL	mg/kg	0.0067	0.0006	1	8260B	04/16/08 6:20	erussell	Q31741
Bromomethane	BRL	mg/kg	0.013	0.0015	1	8260B	04/16/08 6:20	erussell	Q31741
Carbon tetrachloride	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 6:20	erussell	Q31741
Chlorobenzene	BRL	mg/kg	0.0067	0.00068	1	8260B	04/16/08 6:20	erussell	Q31741
Chlorodibromomethane	BRL	mg/kg	0.0067	0.00062	1	8260B	04/16/08 6:20	erussell	Q31741
Chloroethane	BRL	mg/kg	0.013	0.0023	1	8260B	04/16/08 6:20	erussell	Q31741
Chloroform	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 6:20	erussell	Q31741
Chloromethane	BRL	mg/kg	0.0067	0.0016	1	8260B	04/16/08 6:20	erussell	Q31741
cis-1,2-Dichloroethene	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 6:20	erussell	Q31741
cis-1,3-Dichloropropene	BRL	mg/kg	0.0067	0.00089	1	8260B	04/16/08 6:20	erussell	Q31741
Dichlorodifluoromethane	BRL	mg/kg	0.0067	0.0019	1	8260B	04/16/08 6:20	erussell	Q31741
Ethylbenzene	BRL	mg/kg	0.0067	0.00031	1	8260B	04/16/08 6:20	erussell	Q31741
Isopropyl ether (IPE)	BRL	mg/kg	0.0067	0.00062	1	8260B	04/16/08 6:20	erussell	Q31741
Isopropylbenzene	BRL	mg/kg	0.0067	0.00039	1	8260B	04/16/08 6:20	erussell	Q31741
m,p-Xylenes	BRL	mg/kg	0.013	0.0011	1	8260B	04/16/08 6:20	erussell	Q31741
Methyl ethyl ketone (MEK)	BRL	mg/kg	0.13	0.020	1	8260B	04/16/08 6:20	erussell	Q31741
Methyl t-butyl ether (MTBE)	BRL	mg/kg	0.013	0.00056	1	8260B	04/16/08 6:20	erussell	Q31741
Methylene chloride	BRL	mg/kg	0.0067	0.0011	1	8260B	04/16/08 6:20	erussell	Q31741
n-Butylbenzene	BRL	mg/kg	0.0067	0.00048	1	8260B	04/16/08 6:20	erussell	Q31741

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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: 35-6(7-10)
 Prism Sample ID: 211265
 COC Group: G0408351
 Time Collected: 04/09/08 10:10
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
n-Propylbenzene	BRL	mg/kg	0.0067	0.00044	1	8260B	04/16/08 6:20	erussell	Q31741
Naphthalene	BRL	mg/kg	0.013	0.00081	1	8260B	04/16/08 6:20	erussell	Q31741
o-Xylene	BRL	mg/kg	0.0067	0.00028	1	8260B	04/16/08 6:20	erussell	Q31741
p-Isopropyltoluene	BRL	mg/kg	0.0067	0.00054	1	8260B	04/16/08 6:20	erussell	Q31741
sec-Butylbenzene	BRL	mg/kg	0.0067	0.00046	1	8260B	04/16/08 6:20	erussell	Q31741
Styrene	BRL	mg/kg	0.0067	0.00075	1	8260B	04/16/08 6:20	erussell	Q31741
tert-Butylbenzene	BRL	mg/kg	0.0067	0.00056	1	8260B	04/16/08 6:20	erussell	Q31741
Tetrachloroethene	BRL	mg/kg	0.0067	0.0006	1	8260B	04/16/08 6:20	erussell	Q31741
Toluene	BRL	mg/kg	0.0067	0.0005	1	8260B	04/16/08 6:20	erussell	Q31741
trans-1,2-Dichloroethene	BRL	mg/kg	0.0067	0.00086	1	8260B	04/16/08 6:20	erussell	Q31741
trans-1,3-Dichloropropene	BRL	mg/kg	0.0067	0.00079	1	8260B	04/16/08 6:20	erussell	Q31741
Trichloroethene	BRL	mg/kg	0.0067	0.00098	1	8260B	04/16/08 6:20	erussell	Q31741
Trichlorofluoromethane	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 6:20	erussell	Q31741
Vinyl acetate	BRL	mg/kg	0.034	0.0019	1	8260B	04/16/08 6:20	erussell	Q31741
Vinyl chloride	BRL	mg/kg	0.0067	0.0012	1	8260B	04/16/08 6:20	erussell	Q31741

Surrogate	% Recovery	Control Limits
Toluene-d8	107	81 - 128
Dibromofluoromethane	105	67 - 143
Bromofluorobenzene	105	77 - 128

PAHs by GC/MS

2-Methylnaphthalene	BRL	mg/kg	0.38	0.042	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Acenaphthene	BRL	mg/kg	0.38	0.052	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Acenaphthylene	BRL	mg/kg	0.38	0.036	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Anthracene	BRL	mg/kg	0.38	0.028	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Benzo(a)anthracene	BRL	mg/kg	0.38	0.043	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Benzo(a)pyrene	BRL	mg/kg	0.38	0.048	1	8270C	04/21/08 14:14	kcampigotto	Q31865

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

Laboratory Report

04/28/08

North Carolina Department of
 Transportation
 Attn: David Graham
 c/o Hart and Hickman
 2923 South Tryon St. Ste 100
 Charlotte, NC 28203

Project Name: Boone PSAs
 Project ID: ROW-148
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: ³⁵⁻⁷35-6 (7-10)
 Prism Sample ID: 211265
 COC Group: G0408351
 Time Collected: 04/09/08 10:10
 Time Submitted: 04/11/08 9:20

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg	0.38	0.077	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Benzo(g,h,i)perylene	BRL	mg/kg	0.38	0.048	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Benzo(k)fluoranthene	BRL	mg/kg	0.38	0.10	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Chrysene	BRL	mg/kg	0.38	0.026	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Dibenzo(a,h)anthracene	BRL	mg/kg	0.38	0.035	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Fluoranthene	BRL	mg/kg	0.38	0.067	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Fluorene	BRL	mg/kg	0.38	0.054	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Indeno(1,2,3-cd)pyrene	BRL	mg/kg	0.38	0.036	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Naphthalene	BRL	mg/kg	0.38	0.045	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Phenanthrene	BRL	mg/kg	0.38	0.032	1	8270C	04/21/08 14:14	kcampigotto	Q31865
Pyrene	BRL	mg/kg	0.38	0.072	1	8270C	04/21/08 14:14	kcampigotto	Q31865

Sample Preparation: 29.62 g / 1 mL 3550B 04/19/08 11:00 pbarr P21375

Surrogate	% Recovery	Control Limits
Terphenyl-d14	95	41 - 136
Nitrobenzene-d5	54	14 - 103
2-Fluorobiphenyl	66	21 - 108

Sample Comment(s):

BRL = Below Reporting Limit

Values are reported down to the reporting limit only. No J-Flags applied.

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

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: HART & HILMAN
 Report To/Contact Name: D. Cochran
 Reporting Address: 2923 S. Tryon

Phone: 704-586-0000 Fax (Yes) (No):
 Email (Yes) (No) Email Address: dg@hartandhilman.com
 EDD Type: PDF / Excel / Other
 Site Location Name: Boone - DOT
 Site Location Physical Address: Boone, NC

CHAIN OF CUSTODY RECORD

PAGE 6 OF 10 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Raw-148 UST Project: (Yes) (No)
 Short Hold Analysis: (Yes) (No) Pre-Approved
 *Please ATTACH any project specific reporting (QC LEVEL I II 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)

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

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 13
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUT HEADSPACE?
 PROPER CONTAINERS used?

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER		PRESERVATIVES	ANALYSES REQUESTED		REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO. SIZE					
37-1 (10-12)	4/19/08	0848	soil	VQA, 26	3 40ml 6oz	none/meth	X			211261
37-5 (5-7)		0900	soil	↓	↓	↓	X			211262
37-6 (5-7)		0920	soil	↓	↓	↓	X			211263
35-5 (7-10)		0955	soil	VARIOUS			X	X		211264
35-6 (7-10)		1010	soil	VQA, 26	3 40ml 6oz	none/meth	X			211265
42-17 (2-5)		1110	soil	↓	↓	↓	X			211266
42-18 (2-5)		1120	soil	↓	↓	↓	X			211267
42-19 (0-2)		1130	soil	↓	↓	↓	X			211268
42-20 (6-7)		1140	soil	↓	↓	↓	X			211269
42-22 (10-12)		1150	soil	↓	↓	↓	X			211270

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): M. Falkner Affiliation: H&H

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) [Signature] Date 4/11/08 Military/Hours 990
 Received By: (Signature) [Signature] Date 4/11/08
 Received For Prism Lab/Notes By: [Signature] COC Group No. 60483351
 Method of Shipment: Fed Ex UPS Hand-delivered Prism Field Service Other
 Additional Comments: CO-20, CO-21, CO-22, CO-23, CO-24, CO-25, CO-26, CO-27, CO-28, CO-29, CO-30, CO-31, CO-32, CO-33, CO-34, CO-35, CO-36, CO-37, CO-38, CO-39, CO-40, CO-41, CO-42, CO-43, CO-44, CO-45, CO-46, CO-47, CO-48, CO-49, CO-50, CO-51, CO-52, CO-53, CO-54, CO-55, CO-56, CO-57, CO-58, CO-59, CO-60, CO-61, CO-62, CO-63, CO-64, CO-65, CO-66, CO-67, CO-68, CO-69, CO-70, CO-71, CO-72, CO-73, CO-74, CO-75, CO-76, CO-77, CO-78, CO-79, CO-80, CO-81, CO-82, CO-83, CO-84, CO-85, CO-86, CO-87, CO-88, CO-89, CO-90, CO-91, CO-92, CO-93, CO-94, CO-95, CO-96, CO-97, CO-98, CO-99, CO-100

PRISM USE ONLY

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

SEE REVERSE FOR TERMS & CONDITIONS

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TI = Teflon-lined Can VOA = Volatile Organics Analysis (76mm Head Space)
 NPDES: NC SC NC SC NC SC NC SC NC SC
 USF: NC SC NC SC NC SC
 Landfill: NC SC NC SC NC SC
 Other: NC SC NC SC

ORIGINAL



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: HART & HUCKLEMAN
Report To/Contact Name: J. Lawrence

Reporting Address: 24227 STEVEN ST S100
CHARLOTTE NC 28203

Phone: 704 586 0007 Fax (Yes) (No): Yes No
Email (Yes) (No) Yes No Email Address: john.lawrence@hart-huckleman.com
EDD Type: PDF Excel Other

Site Location Name: BOON PSAS
Site Location Physical Address: BOONE NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: BOON PSAS

Short Hold Analysis: (Yes) (No) Yes No UST Project: (Yes) (No) Yes No
*Please ATTACH any project specific reporting (QC LEVEL I III III IV) provisions and/or QC Requirements

Invoice To: NC DOT
Address: 4033 ELEMENT 35015-101

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 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)

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				
35-1 (W-12)	4-1-08	1100	SOIL	6	3		THH 020 THH 020		210727
35-3 (W-8)	4-1-08	1145	SOIL	6	3				210728

Press DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): CAROL MATHIAS Affiliation: PHH

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): [Signature] Received By (Signature): [Signature] Date: 4/7/08 Military/Hours: 1035

Relinquished By (Signature): [Signature] Received By (Signature): [Signature] Date: 4/7/08 Military/Hours: 1035

Relinquished By (Signature): [Signature] Received By (Signature): [Signature] Date: 4/7/08 Military/Hours: 1035

Method of Shipment: Fed Ex UPS Hard-delivered Prism Field Service Other
NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST OCC UNTIL RECEIVED AT THE LABORATORY.

Additional Comments: 60408175

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

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

*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL



Full Service Analytical & Environmental Solutions
 449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/528-6364 • Fax: 704/525-0409

Client Company Name: HART & HICKMAN
 Report To/Contact Name: DAVID GRAHAM
 Reporting Address:

Phone: 877-4630 Fax (Yes) (No):
 Email (Yes) (No) Email Address:
 EDD Type: PDF Excel Other
 Site Location Name: BOONE PSA's
 Site Location Physical Address:

CHAIN OF CUSTODY RECORD

PAGE 2 OF 3 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Row 148 - Boone PSA's
 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: ACDOT
 Address:

Purchase Order No./Billing Reference WBS 35015.1.1
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be
 Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES
 RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				TYPE SEE BELOW	NO.	SIZE				
31-6 (6-8')	040108	0845	Soil	C.G. VOA	2/1	40ml	methanol	DRY WT. BASIS	210368	
33-1 (3-5')		0910		C.G.	2/1	40ml			210368	
33-2 (4-6')		0940			2/1				210369	
33-3 (6-8')		1000			2/1				210370	
33-4 (4-6')		1015			2/1				210371	
35-1 (10-12')		1100		C.G.	5				210372	
35-2 (6-8')		1115			5				210373	
35-3 (6-8')		1145			5				210374	
35-4 (6-8')		1315		C.G. VOA	5	40ml			210375	
42-1 (10-12')		1430			2/1	40ml			210376	

Sampled By (Print Name) C. MATTHEWS / M. FALKNER Affiliation H&H
 Received By (Signature) [Signature]
 Relinquished By (Signature) [Signature]
 Date Relinquished 4/3/08 0830
 Date Relinquished 4/3/08 0830
 Date Relinquished 4/3/08 0830
 Date Relinquished 4/3/08 0830

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

NPDES: UST: DRINKING WATER: SOLID WASTE: CERCLA: LANDFILL: OTHER:
 NC SC NC SC NC SC NC SC NC SC

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

LAB USE ONLY
 Samples INTACT upon arrival? YES NO
 Received ON WET ICE? Temp 2°C
 PROPER PRESERVATIVES indicated?
 Received WITH IN-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

PRISM USE ONLY
 Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

PRISM USE ONLY
 PRESS DOWN FIRMLY - 3 COPIES
 Date Relinquished 4-2-08 1234
 Date Relinquished 4/3/08 0830
 Date Relinquished 4/3/08 0830
 Date Relinquished 4/3/08 0830
 COC Group No. 50488076
 Additional Comments:
 38
 SEE REVERSE FOR TERMS & CONDITIONS
 ORIGINAL



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543
 Phone: 704/529-6364 • Fax: 704/525-0409

Client Company Name: HART & HILICHAUSE
 Report To/Contact Name: DAVE GRANHAM
 Reporting Address: 2923 STRAYON ST
CHARLOTTE NC 28209

Phone: 704/5260007 Fax (Yes) (No):
 Email (Yes) (No) Email Address: dgranham@hart-hilichouse.com
 EDD Type: PDF — Excel — Other
 Site Location Name: BOOLE PSAS
 Site Location Physical Address: BOOLE NC

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: BOOLE PSAS
 Short Hold Analysis: (Yes) (No) (No) UST Project: (Yes) (No)
 *Please ATTACH any project specific reporting (QC LEVEL I III IIII IV)
 provisions and/or QC Requirements
 Invoice To: BOOLE PSAS NC DOT
 Address: HART ABS ELEMENT 35015.0.1

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
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LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET? (CE? Temp) H7
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/OUIT 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 SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSES REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
V 43-6 (2-4')	4-3-08	10:50	S&V	6	8	8		X		210697
V 43-7 (2-4')		11:20		6	8	8		X		210698
V 43-8 (2-4')		11:40		6	8	8		X		210649
V 43-9 (2-4')		13:05		6	8	8		X		210700
V 43-10 (7-10')		13:40		6	8	8		X		210701
V 43-11 (7-10')		14:15		6	8	8		X		210702
V 35-5 (10-12')	4-3-08	16:45	SOIL	6	5	5		X		210703

PRISM USE ONLY
 Site Arrival Time:
 Site Departure Time:
 Field Tech Fee:
 Mileage:

Additional Comments:

Date: _____ Military/Hours: _____

Date: _____

Date: 4/7/08 Military/Hours: 1033

COG Group No. 60408173

Sampler's Signature: [Signature] Sampled By (Print Name): CAROL MATHEWS Affiliation: HFH
[Signature] DAVE GRANHAM

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) _____ Received By: (Signature) _____

Relinquished By: (Signature) _____ Received By: (Signature) _____

Relinquished By: (Signature) _____ Received For (Print Name): _____

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 COG UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC NC SC NC SC NC SC NC SC NC SC NC SC

UST: NC SC NC SC NC SC NC SC NC SC NC SC NC SC

GROUNDWATER: NC SC NC SC NC SC NC SC NC SC NC SC

DRINKING WATER: NC SC NC SC NC SC NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC NC SC NC SC

RCRA: NC SC NC SC NC SC NC SC

CERCLA NC SC NC SC

LANDFILL OTHER: NC SC NC SC NC SC

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

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL