



17 June 2008

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GeoEnvironmental Supervisor
Geotechnical Engineering Unit
North Carolina Department of Transportation
1589 Mail Service Center
Raleigh, NC 27699-1589

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

**Subject: Preliminary Site Assessment Reports
URS Project No. 3182 5704**

Dear Cyrus:

Attached please find three copies of the Parcel 10 PSA report for the Dan'l Boone Inn Property located at 130 Hardin Street in Boone. The final PSA for this project, Parcel 28 – Trailway Laundry, is more complicated than most and is being finalized now and will be delivered to you later this week. If you have any questions regarding these PSAs please do not hesitate to call the undersigned at (919) 461-1100.

Respectfully submitted,

URS Corporation – North Carolina

Vernon E. Keys
Program Manager
Attachments

1c: Matt Barner, URS, Charlotte
File 3182 5704 – 1.2

PSA REPORT

**PRELIMINARY SITE ASSESSMENT
PARCEL 10
DANIEL BOONE INN PROPERTY
130 HARDIN STREET
BOONE, WATAUGA COUNTY,
NORTH CAROLINA
WBS ELEMENT 35015.1.1
TIP U-4020**

Prepared for

North Carolina Department of Transportation
Geotechnical Engineering Unit
Geoenvironmental Section
Century Center Complex, Building
1020 Birch Ridge Drive
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June 17, 2008



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URS Job No. 3182 5704

TABLE OF CONTENTS

Section 1	Introduction.....	1-1
	1.1 Introduction.....	1-1
	1.2 Background.....	1-1
Section 2	Methods of Investigation	2-1
	2.1 Geophysical Survey	2-1
	2.2 Soil Boring Installation and Soil Sampling	2-1
	2.3 Quality Control/Quality Assurance Procedures.....	2-1
Section 3	Results	3-1
Section 4	Limitations	4-1
Section 5	References	5-1

TABLES

Table 1	Summary of Soil Analytical Results
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FIGURES

Figure 1	Location Map
Figure 2	Parcel Location Map
Figure 3	Soil Sampling Locations
Figure 4	Geophysical Investigation Results
Figure 5	Impacted Soil Map

APPENDICES

Appendix A	Soil Boring Logs
Appendix B	Laboratory Report

Certification

This Report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my thorough inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.



Walter Plekan, L.G.
Project Manager
URS Corporation – North Carolina

2061
NC License No.

6-17-8
Date

1.1 INTRODUCTION

This report documents a Preliminary Site Assessment (PSA) conducted by URS Corporation – North Carolina (URS) on behalf of the North Carolina Department of Transportation (NCDOT). The assessment area is located within a proposed NCDOT Right-of-Way (ROW) and/or construction easement necessary for the planned expansion of US 421 (King Street) from US 321 (Hardin Street) to east of NC 194 (Jefferson Road). This PSA was conducted in Boone, Watauga County, North Carolina (**Figure 1**) for Parcel 10, Daniel Boone Inn Property, located at 130 Hardin Street. Only the portion of Parcel 10 lying within the proposed ROW was evaluated for this PSA.

This PSA was performed in general accordance with:

- NCDOT's February 20, 2008 Request for Technical and Cost Proposal (RFP) entitled: *Request for Technical and Cost Proposal, Preliminary Site Assessment*. The RFP established the following scope of work (SOW) for the project:
 - Locate all underground storage tanks (USTs) and determine approximate size and contents (if any).
 - Determine if contaminated soils are present.
 - If contamination is evident, estimate the quantity of impacted soils and indicate the approximate area of soil contamination on a Site map.
 - Prepare a report including field activities, findings, and recommendations for the Site and submit the report to NCDOT in triplicate.

The project included a geophysical survey, soil sampling using a Geoprobe[®] rig, and laboratory analyses of selected soil samples from within the proposed NCDOT ROW or construction easement. The geophysical survey was first conducted by URS in order to assess the locations of any USTs within the subject areas. Based on the results of the geophysical survey and anecdotal evidence, boring locations were identified and the direct-push borings were completed by a qualified drilling subcontractor (SAEDACCO of Fort Mill, South Carolina) under the supervision of a URS geologist. Analysis of soil samples were performed by Prism Laboratories, Inc. (Prism) of Charlotte, North Carolina under direct contract with NCDOT.

1.2 BACKGROUND

The objective for this PSA is to assess the Site for impacted soil and to delineate potential impacts found in soils. The Site location relative to the Town of Boone and the project area is shown in **Figure 1**, and its location relative to the adjacent project parcels along with major project features is shown in **Figure 2**. US 421 runs east/west through Boone, NC, and the parcel is located at the southwest corner of the intersection of US 421 (West King Street) and US 321 (Hardin Street). The parcel includes the Daniel Boone Inn restaurant, shops and associated parking areas, and lies at an elevation of approximately 3,250 feet above mean sea level (ft msl).

The owner of a nearby parcel (Parcel 11 across King Street to the north) indicated that a former gas station had operated at this location in the past. The former station building is no longer present on the parcel. No ancillary gas station equipment or monitoring wells were noted during the Site visits. The area of interest is within the proposed ROW which encompasses a 370 ft long strip approximately 20 to 35 ft wide along the northern and eastern property boundaries.

2.1 GEOPHYSICAL SURVEY

The geophysical survey for Parcel 10 was conducted on April 24, 2008 by URS using the electromagnetic (EM) method augmented by ground-penetrating radar (GPR). The EM survey was completed using the Geonics, Ltd. EM-61 MKII (EM-61). The objective of the geophysical survey was to locate USTs or anomalies within the proposed ROW of US 421. A Trimble ProXRS global positioning system (GPS) was used to record simultaneous positional data coincident with the EM-61 data. EM-61 data were collected along parallel profiles spaced approximately three feet apart across the survey area. Data were recorded at a rate of five readings per second, which equates to an along-profile data point spacing of less than one foot. The acquired differential GPS (DGPS) has a horizontal accuracy of approximately three feet. URS also used the GPS system to record the locations of relevant Site features.

The EM-61 data were processed in the field using the program DAT61 MK2 (Geonics Ltd). The program was used primarily to prepare the data for contouring in Surfer (Golden Software, Inc.). The contoured EM-61 Channel 3 responses (data recorded at the second latest time interval along the response decay curve) were used to layout boring locations throughout the entire parcel. The late time response data provide enhanced detection of objects with longer decay rates which are characteristic of larger objects such as USTs. The effectiveness of the EM-61 for detection of buried objects is negatively affected by interference from surface or near-surface features (e.g. reinforced concrete, buried catch basins, etc.). The objective of augmenting the EM-61 survey with follow-up GPR surveying was to further characterize identified EM-61 anomalies that could not be readily attributed to existing site features.

Follow-up GPR surveying was then conducted using a Sensors & Software, Inc. Noggin PLUS Smart Cart System with a 250 MHz scanning antenna. The GPR survey was conducted within sections of the parcel that exhibited widespread large EM responses due to the presence of buildings, reinforced concrete, or other site-specific features. GPR surveying consisted of in-field analysis of real-time data, and as a result, no post-processing of the data was completed.

2.2 SOIL BORING INSTALLATION AND SOIL SAMPLING

Fifteen Geoprobe[®] direct-push soil borings, P10-1 through P10-15, were installed on May 7, 2008 to assess the Site for impacted soil. The locations of the soil borings are shown on **Figure 3**. Soil samples were collected and logged continuously at each soil boring location. Soil sample aliquots were field screened for organic vapors with a MiniRae[®] brand photo-ionization detection (PID) instrument calibrated daily with 100 parts per million (ppm) isobutylene.

Soil samples from selected intervals were collected from each boring (P10-1 thru P10-15) during the soil investigations for laboratory analysis. The samples were analyzed for Total Petroleum Hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO) using USEPA Method 8015B.

2.3 QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES

While in the field, pertinent observations were recorded in a logbook maintained by the URS field representative. This included pertinent field data collection activities and other observations as appropriate. Each sample collected for laboratory analysis was assigned a unique sample identification number and placed in laboratory supplied containers appropriate for

the parameters being analyzed. Samples collected for laboratory analyses were stored on ice in insulated coolers immediately following collection. Information on the custody, transfer, handling, and shipping of all samples was recorded on a chain-of-custody form that accompanied the samples to the laboratory.

Soil analytical data were evaluated based on the *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999). Sample results have been qualified based on the results of the data review process and are considered representative and valid for the purpose of this report.

The EM-61 results were provided as a color enhanced contour map for use in the field during the drilling operation (**Figure 4**). The map differentiates areas interpreted as background from areas of relatively high EM responses that are generally indicative of large buried metal objects or surface or near-surface features (e.g. suspected underground utilities, guard rail, fence). Interpretation of in-field data analysis revealed no EM anomalies indicative of USTs within the areas of Parcel 10 surveyed. However, the EM-61 results indicated widespread areas of elevated responses as shown on **Figure 4**. Follow-up GPR surveying was therefore conducted across the proposed ROW at Parcel 10 to further evaluate the potential presence of USTs in this area. The GPR survey did not indicate the presence of any USTs.

A total of fifteen soil borings were completed during the PSA investigation at Parcel 10. All of the borings were advanced to 12 ft bgs with the exception of P10-4, where refusal was encountered at 8 ft bgs. Boring locations are shown in **Figure 3** and boring logs are provided in **Appendix A**. The soil is generally described as predominantly light brown, loose, silty sand. Groundwater was not encountered in any of the soil borings.

Soil headspace screening readings and laboratory results (TPH as GRO and DRO) of soil samples collected from each soil boring are summarized in **Table 1** along with the Unified Soil Classification System (USCS) lithology. The complete laboratory report is included in **Appendix B**.

Elevated PID readings were observed in soil samples collected from soil borings P10-2, P10-5, P11-10, P10-11, P10-12, and P10-13 and ranged from 1.3 to over 2,400 ppm (see **Table 1**). The highest PID readings were recorded in the 0 to 6 ft bgs interval and generally decreased with depth at these six locations.

Where elevated PID readings were observed, two samples were collected from each boring except for P10-2. In general, where two samples were collected, one was a shallow sample between 2 and 6 ft bgs and the other a deeper sample at the bottom of the boring or generally 12 ft bgs. GRO and DRO were reported above the NCDENR action level of 10 micrograms per kilogram (mg/kg) at samples P10-5, P10-10, P10-11, and P10-13 (as summarized on **Figure 3**). Samples P10-2 and P10-12 were below the detection limit. GRO concentrations ranged from 110 to 560 mg/kg and DRO concentrations ranged from 31 to 860 mg/kg. The deeper samples were below the NCDENR action level.

Based on the boring locations and current laboratory data, two areas of impacted soil exist within the proposed ROW of Parcel 10; one area along the northeast corner along King and Hardin Streets; and one area northeast of the shops and near boring P10-5. Assuming there was a station, and based on typical retail station layout, the impacted areas may correspond to the former pump island area, or could be a result of spilled fuel moving along the existing utility trenches that provide a preferential path for migration. Based on field screening of soil (**Table 1**), the impacted zone is generally no deeper than approximately 6 ft bgs in the larger eastern area and no deeper than 4 ft in the western area.

Based on a 10 mg/kg TPH level, a 4 to 6 ft thickness, and the surface areas delineated on **Figure 5**, URS estimates approximately 1,200 tons of impacted soil is located within the proposed easement of Parcel 10 between the proposed easement and the existing curb (note that additional impacted soil may exist beneath the existing adjacent sections of Hardin and King Streets, and between the easement and the buildings and parking areas to the south). The impacted soil estimates are based on areas with approximate dimensions of 50 ft long by 20 ft

wide by 4 ft deep for the west area, and an area roughly equivalent to 110 ft long by 25 ft wide by 6 ft deep for the east area, and an estimated soil density of 1.5 tons/cubic yard.

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.

United States Environmental Protection Agency, Contract Laboratory Program National Functional Guidelines for Organic Data Review, 1999

North Carolina Department of Transportation, Request for Technical and Cost Proposal, Preliminary Site Assessment, Parcel 10, Daniel Boone Inn Property, February 20, 2008

URS Corporation – North Carolina, Technical and Cost Proposal entitled: Revised Technical and Cost Proposal, Preliminary Site Assessment, Parcel 10 Daniel Boone Inn Property, March 7, 2008

North Carolina Department of Transportation, Notice to Proceed - Preliminary Site Assessment, Parcel 10, Daniel Boone Inn Property, March 7, 2008

Tables

Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 10
DANIEL BOONE INN
130 HARDIN STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA

LOCATION	DATE	DEPTH (ft bgs)	FIELD	LABORATORY ANALYSES		USCS LITHOLOGY
			SCREENING	TPH RANGE ORGANICS		
			PID (ppm)	GRO (mg/kg)	DRO (mg/kg)	
P10-1	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.6)	ND (1.3)	
P10-2	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	2.4	-	-	
		10.	5.1	-	-	
		12.	9.1	ND (3.5)	ND (1.3)	
P10-3	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.2)	ND (1.5)	
P10-4	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	ND (3.4)	ND (1.2)	
P10-5	05/07/08	2.	17.4	-	-	SM
		4.	239	350	860	
		6.	24.1	-	-	
		8.	17.1	-	-	
		10.	5.6	-	-	
		12.	1.3	ND (3.8)	ND (1.4)	
P10-6	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.3)	ND (1.5)	

Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 10
DANIEL BOONE INN
130 HARDIN STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA

LOCATION	DATE	DEPTH (ft bgs)	FIELD SCREENING	LABORATORY ANALYSES		USCS LITHOLOGY
			PID (ppm)	TPH RANGE ORGANICS		
				GRO (mg/kg)	DRO (mg/kg)	
P10-7	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.3)	ND (1.5)	
P10-8	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.1)	ND (1.5)	
P10-9	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	ND (1.4)	
P10-10	05/07/08	2.	27.1	-	-	SM
		4.	2,424	560	250	
		6.	901	-	-	
		8.	10.2	-	-	
		10.	18.9	-	-	
		12.	8.1	ND (3.9)	ND (1.4)	
P10-11	05/07/08	2.	2,391	370	470	SM
		4.	475.9	-	-	
		6.	21.8	-	-	
		8.	15.1	-	-	
		10.	21.5	-	-	
		12.	5.5	ND (3.8)	ND (1.3)	
P10-12	05/07/08	2.	11.4	-	-	SM
		4.	93.8	-	-	
		6.	189.1	ND (4.0)	ND (1.4)	
		8.	26.7	-	-	
		10.	15.1	-	-	
		12.	ND	ND (4.0)	ND (1.4)	

**Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 10
DANIEL BOONE INN
130 HARDIN STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA**

LOCATION	DATE	DEPTH (ft bgs)	FIELD SCREENING	LABORATORY ANALYSES		USCS LITHOLOGY
			PID (ppm)	TPH RANGE ORGANICS		
				GRO (mg/kg)	DRO (mg/kg)	
P10-13	05/07/08	2.	724	110.	31.	SM
		4.	57.1	-	-	
		6.	34.9	-	-	
		8.	10.2	-	-	
		10.	8.9	-	-	
		12.	ND	ND (4.3)	ND (1.5)	
P10-14	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.7)	ND (1.3)	
P10-15	05/07/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.1)	ND (1.5)	

NCDENR UST Section Action Levels: 10 10
NCDENR Non-UST Petroleum Action Levels: 10 40

LEGEND:

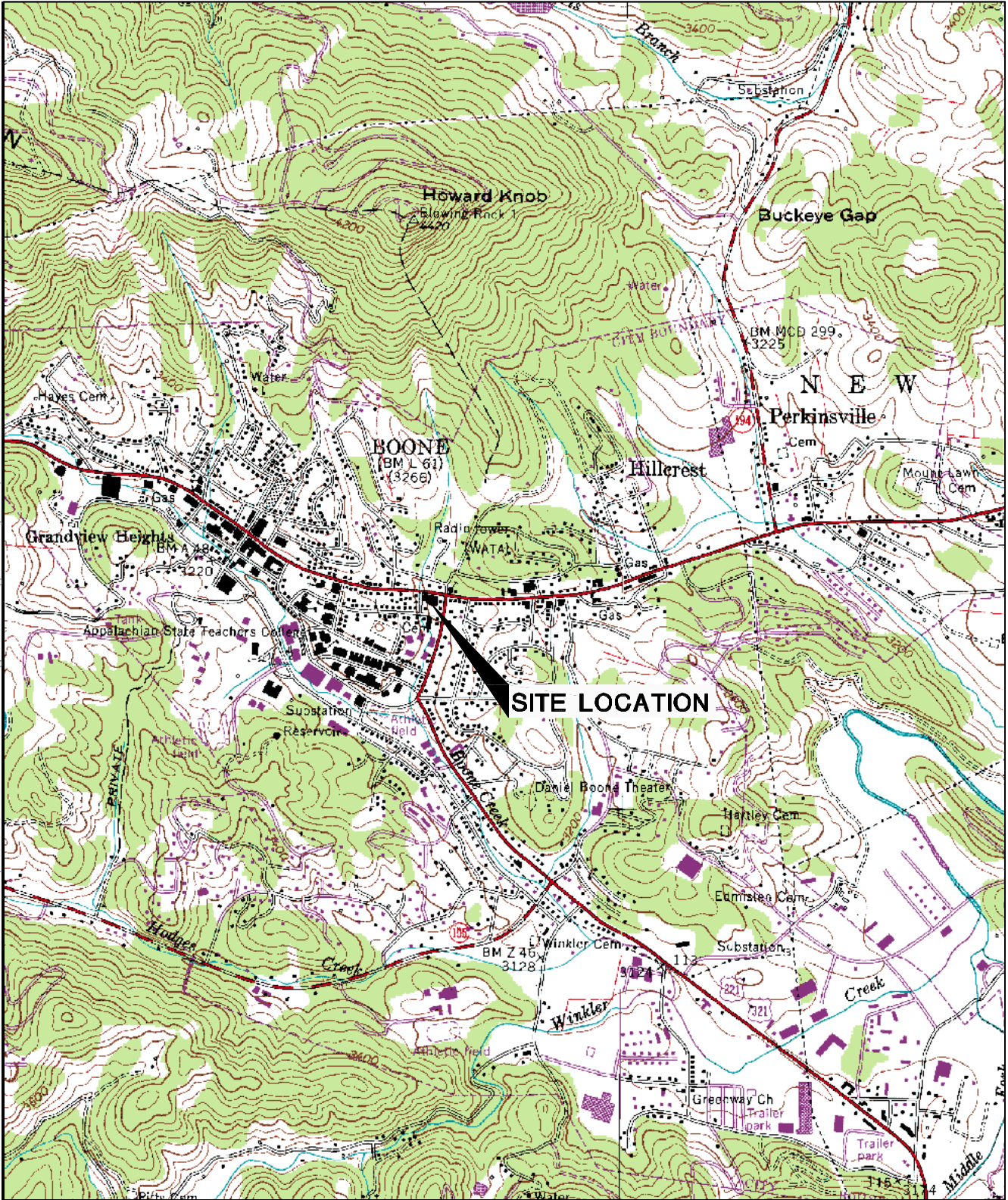
ft bgs - feet below ground surface
mg/Kg - milligrams per kilogram
ppm - parts per million
PID - Photo Ionization Detector (field screening results)
TPH - Total Petroleum Hydrocarbons
DRO - Diesel Range Organics (determined by laboratory via EPA Method 8015B)
GRO - Gasoline Range Organics (determined by laboratory via EPA Method 8015B)
ND(7.3) - Not Detected above the indicated detection limit
USCS - Unified Soil Classification System.

NOTES:

Soil samples were collected by URS on the dates shown.
All results reported on a dry-weight basis.
Action Levels were taken from the NC DENR UST Section, *Guidelines for Assessment and Corrective Action* (NC DENR, UST Section, July 2001) and *Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases* (NC DENR, UST Section, July 2007).

Figures

P:\Common Projects\NC\DOT\3182_5704_Boone_PSA\6.0_Graphics\6.3 - AutoCad\Figure 1.dwg May 28, 2008 - 1:56 PM

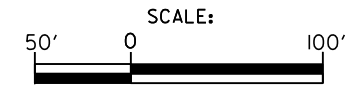


SCALE IN FEET
0 2000

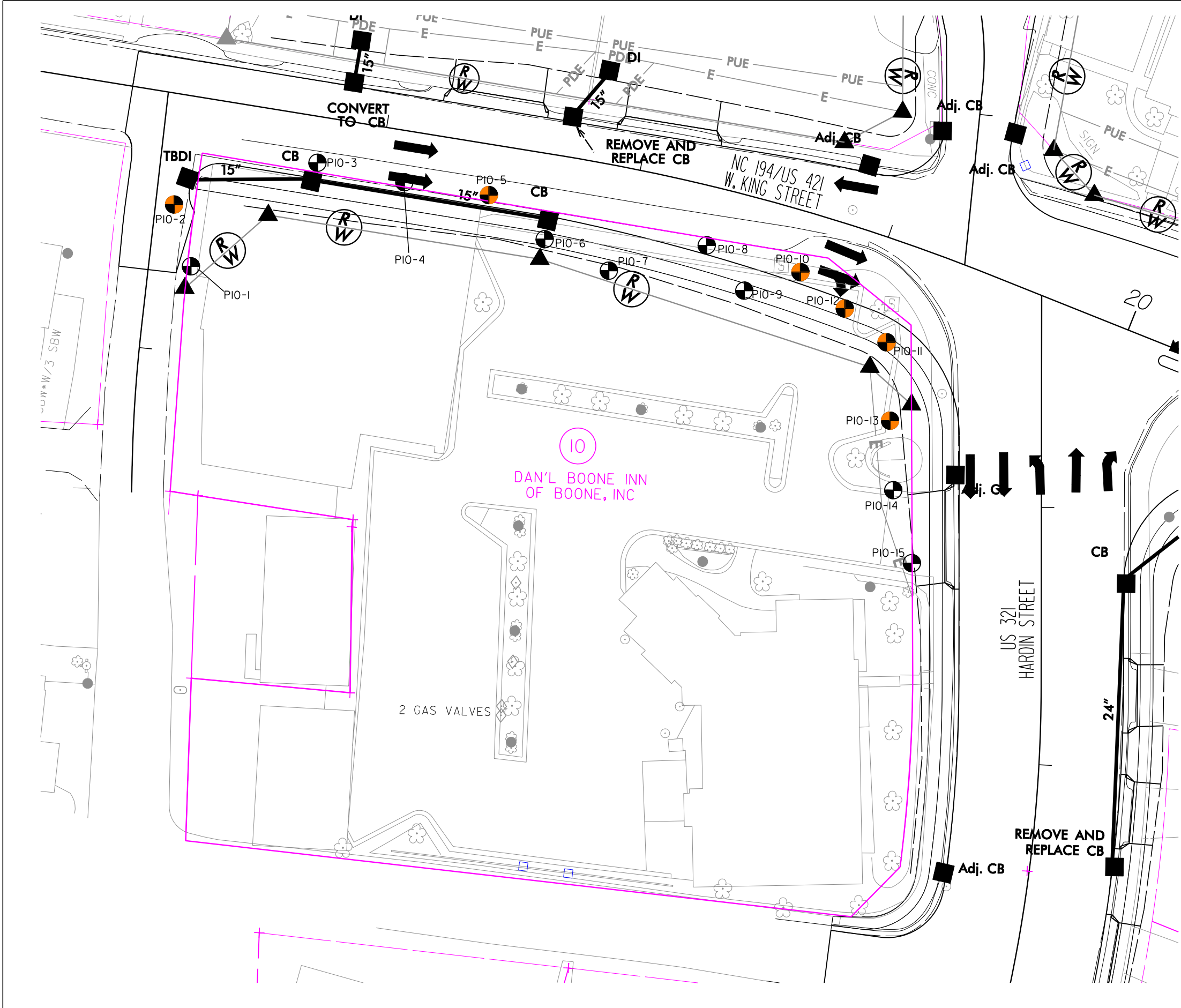
QUADRANGLE LOCATION

SOURCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE
BOONE, NC - DATED 1959, PHOTOREVISED 1978

FIGURE 1. LOCATION MAP	
PARCEL 10, 130 HARDIN STREET BOONE, NORTH CAROLINA	
Prepared for: NC DOT	
DRAWN BY: TSH	 RDU, NORTH CAROLINA 27560
DATE: 05/01/08	
PROJECT NO. 31825704	
	Fig. 1



US 421 WIDENING PROJECT FROM US 221 TO US 321 BOONE, NORTH CAROLINA		
URS Corporation - North Carolina 1600 Perimeter Park Drive Morrisville, North Carolina 27560 TELEPHONE (919) 461-1100 FAX (919) 461-1415		
DRN BY: SMS	DATE: 5-26-08	STATE PROJECT:
CHECKED BY: VK	DATE: 5-27-08	U-4020
PARCEL LOCATION MAP		FIGURE FIG-02



LEGEND

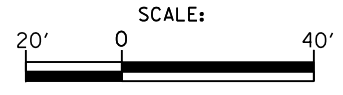
- PIO-1 - SOIL BORING LOCATION
- BORING CONTAINED PID RESPONSE
- PROPOSED RIGHT-OF-WAY
- PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE

NOTES

- DRO - DIESEL RANGE ORGANICS
- GRO - GASOLINE RANGE ORGANICS
- ND - NOT DETECTED ABOVE THE METHOD DETECTION LIMIT
- CB - CATCH BASIN

SUMMARY OF DETECTIONS IN Mg/kg

ID	DEPTH	GRO	DRO
PIO-5	4'	350	860
PIO-10	4'	560	250
PIO-11	2'	370	470
PIO-13	2'	110	31

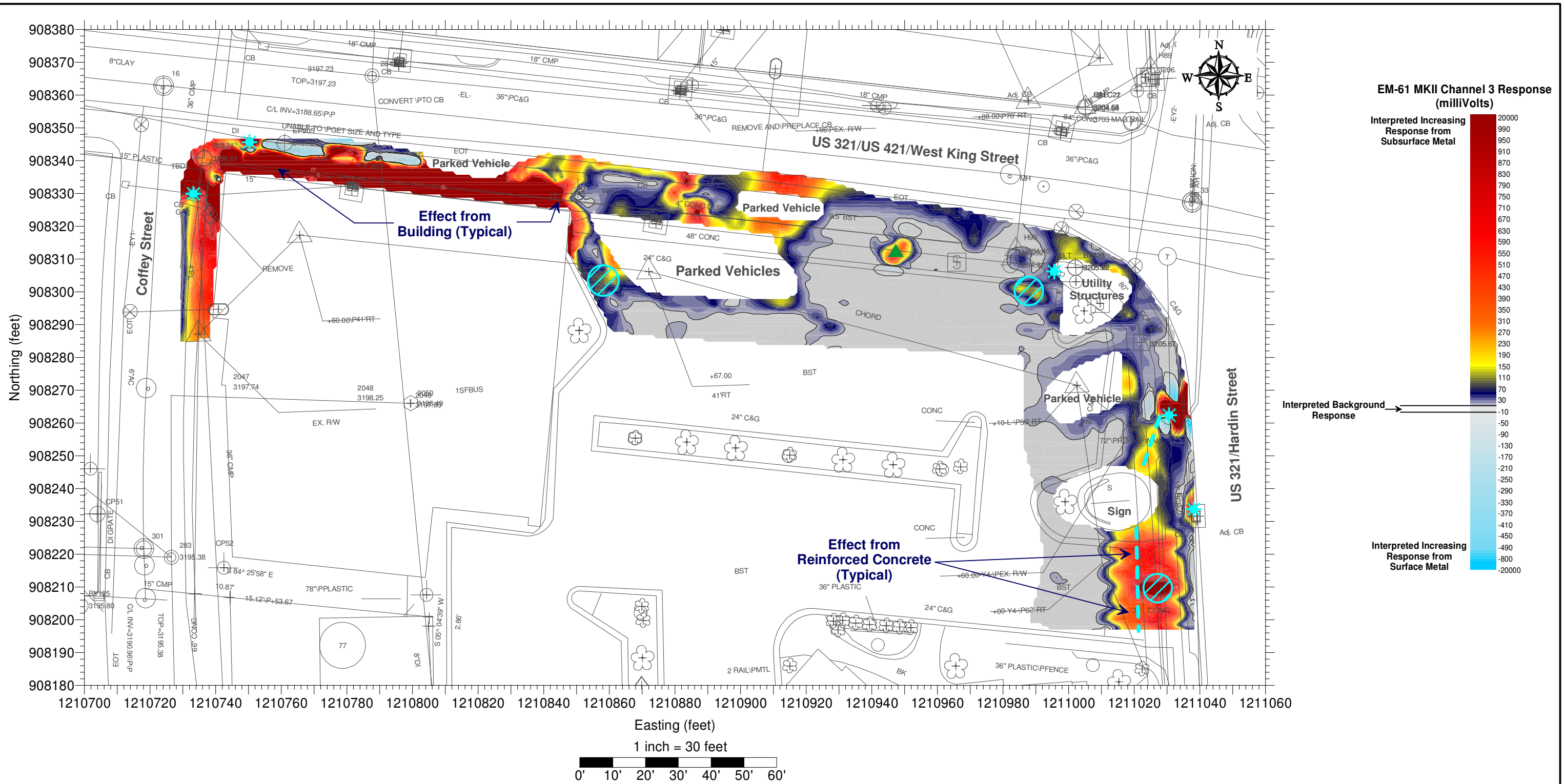


PARCEL 10
DANIEL BOONE INN PROPERTY
130 HARDIN STREET
BOONE, NORTH CAROLINA

URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE (919) 461-1100 FAX (919) 461-1415

DRN BY: SMS	DATE: 6-9-08	STATE PROJECT:
CHECKED BY: VK	DATE: 6-11-08	U-4020

SOIL SAMPLING LOCATIONS
FIGURE
FIG-03



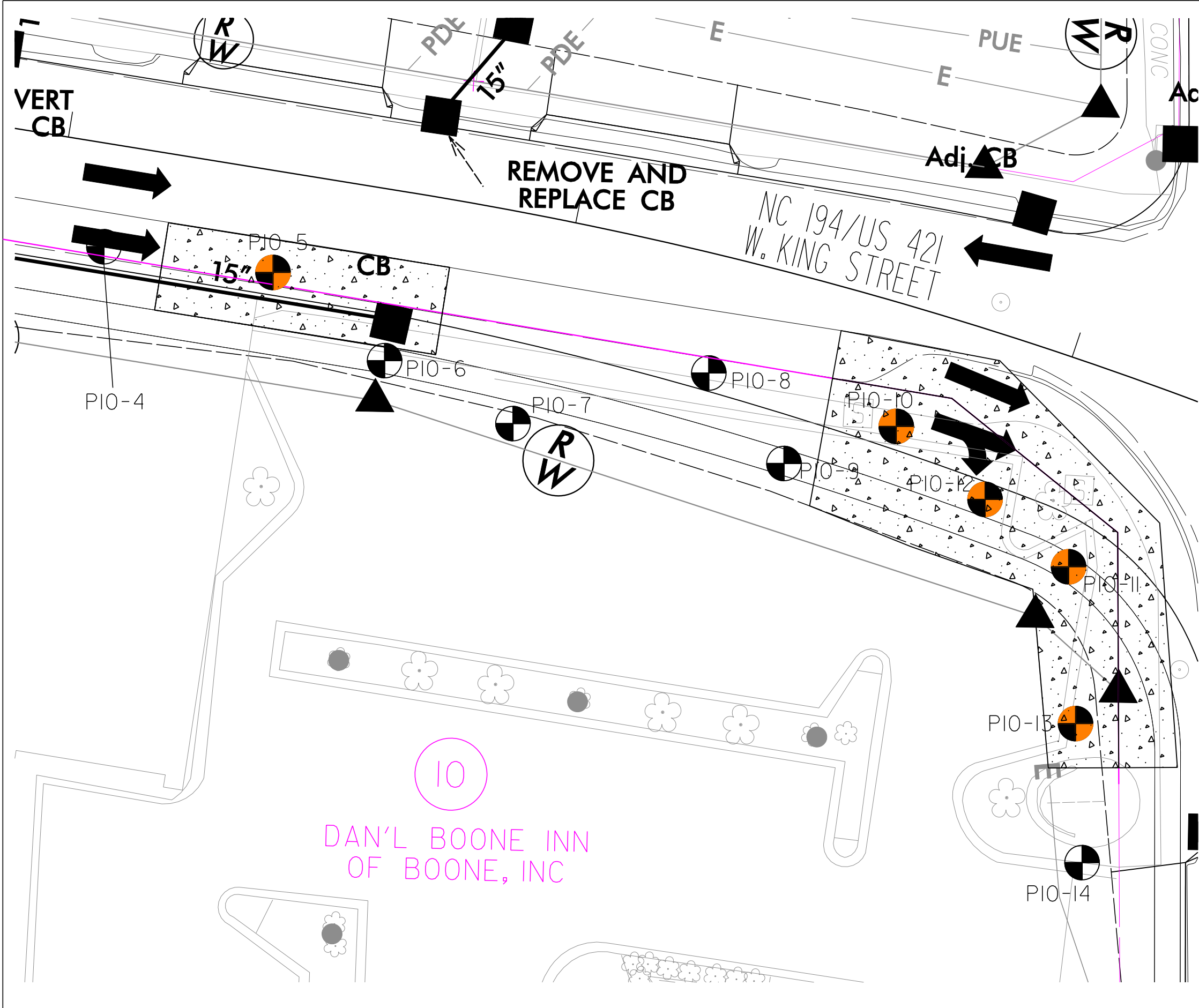
Legend

- EM-61 Anomaly Surveyed with GPR Follow-Up (GPR Does Not Indicate Potential UST)
- Utility Feature
- Pole/Light/Sign
- Interpreted Storm Sewer Line

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. Positional data for EM-61 survey and locations of additional site features based on DGPS surveying by URS Corporation.

6135 Park South Dr., Ste. 300 Charlotte, NC 28210 (704) 522-0330				
Geophysical Investigation Results Parcel #10				
NCDOT State Project U-4020, Watauga County				
Boone, North Carolina				
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER	Figure 4
MAB	04/24/08	MAB	04/24/08	
		TJK	04/28/08	
			31825704	



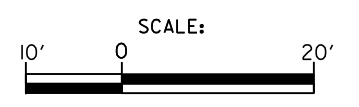
10
 DAN'L BOONE INN
 OF BOONE, INC

LEGEND

- PI0-I - SOIL BORING LOCATION
- BORING CONTAINED PID RESPONSE
- PROPOSED RIGHT-OF-WAY
- PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE
- ESTIMATED AREA OF IMPACTED SOIL (DASHED WHERE INFERRED)

NOTES

CB - CATCH BASIN



PARCEL 10 DANIEL BOONE INN PROPERTY 130 HARDIN STREET BOONE, NORTH CAROLINA		
URS Corporation - North Carolina 1600 Perimeter Park Drive Morrisville, North Carolina 27560 TELEPHONE (919) 461-1100 FAX (919) 461-1415		
DRN BY: SMS	DATE: 6-9-08	STATE PROJECT:
CHECKED BY: VK	DATE: 6-11-08	U-4020
IMPACTED SOIL MAP		FIGURE FIG-05

Appendix A
Soil Boring Logs



BORING LOG: P10-1

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm	<p style="text-align: center;">loose, dry, light brown, silty Sand (SM), mica</p>	
4				0.0 ppm		
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm		
12	P10-1-12	12'		0.0 ppm	Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-2

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	
2				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
4				0.0 ppm		
6				2.4 ppm		
8				5.1 ppm		
10				9.1 ppm		
12	P10-2-12	12'			Bottom of boring	

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-3

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm	<p style="text-align: center;">loose, dry, light brown, silty Sand (SM), mica</p>	
4				0.0 ppm		
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm		
12	P10-3-12	12'		0.0 ppm	Bottom of boring	Not to Scale

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-4

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 8
Drilling Method Geoprobe direct push	Boring Depth (ft) 8	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	
2				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
4				0.0 ppm		
6				0.0 ppm		
8	P10-4-8	8'				
10						Not to Scale
12						

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-5

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	
2	P10-5-4	4'		17.4 ppm	med. Dense, damp, olive gray, silty Sand (SM), mica	
				239 ppm		
4				24.1 ppm		
6				17.1 ppm		
8				5.6 ppm	med.dense, dry, yellowish-orange, silty Sand (SM), mica	
10				1.3 ppm		
12	P10-5-12	12'			Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-6

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.0 ppm	med. Dense, dry, olive gray, silty Sand (SM), mica	
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm	med. Dense, dry, yellowish-orange, silty Sand (SM), mica	
12	P10-6-12	12'			Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-7

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.0 ppm	med, dense, dry, olive gray, silty Sand (SM), mica	
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm	med, dense, dry, yellowish-orange, silty Sand (SM), mica	
12	P10-7-12	12'			Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-8

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm	med, dense, dry, olive gray, silty Sand (SM), mica	
4				0.0 ppm		
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm	med, dense, dry, yellowish-orange, silty Sand (SM), mica	
12	P10-8-12	12'		0.0 ppm	Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-9

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.0 ppm	med. dense, dry, olive gray, silty Sand (SM), mica	
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm	med. dense, dry, yellowish-orange, silty Sand (SM), mica	
12	P10-9-12	12'		0.0 ppm	Bottom of boring	Not to Scale

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-10

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				27.1 ppm	med. dense, dry, olive gray, silty Sand (SM), mica	
4				2424 ppm		
6	P10-10-6	6'		901 ppm		
8				10.2 ppm	loose, dry, light brown, silty Sand (SM), mica	
10				18.9 ppm		
12	P10-10-12	12'		8.1 ppm	Bottom of boring	Not to Scale

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-11

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2	P10-11-2	2'		2391 ppm	med. dense, dry, olive gray, silty Sand (SM), mica	
				476 ppm		
4				21.8 ppm		
6				15.1 ppm		
8		21.5 ppm	loose, dry, light brown, silty Sand (SM), mica			
10		5.5 ppm				
12	P10-11-12	12'			Bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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BORING LOG: P10-12

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2				11.4 ppm		
4				93.8 ppm		
6	P10-12-6	6'		189.1 ppm	med. dense, dry, olive gray, silty Sand (SM), mica	
8				26.7 ppm		
10				15.1 ppm		
12	P10-12-12	12'		0.0 ppm	loose, dry, light brown, silty Sand (SM), mica Bottom of boring	Not to Scale

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-13

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	<p style="text-align: center;">backfilled with bentonite</p>
2	P10-13-2	2'		724 ppm	loose, dry, light brown, silty Sand (SM), mica	
4				57.1 ppm		
6				34.9 ppm		
8				10.2 ppm		
10				8.9 ppm		
12	P10-13-12	12'		0.0 ppm	Bottom of boring	

Not to Scale


Notes:
 Geologist: **Michael Meese** Driller: **SAEDACCO**



BORING LOG: P10-14

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0				0.0 ppm	loose, dry, light brown, silty Sand (SM), organic material	 <p style="text-align: center;">backfilled with bentonite</p>
2				0.0 ppm		
4				0.0 ppm		
6				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
8				0.0 ppm		
10				0.0 ppm		
12	P10-14-12	12'			Bottom of boring	Not to Scale

Notes:	
Geologist: Michael Meese	Driller: SAEDACCO



BORING LOG: P10-15

Permit #	Drill Date 05/07/08	Site Parcel 10
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method Geoprobe direct push	Boring Depth (ft) 12	Boring Diam. (in) 2.25
Backfill Material bentonite	NA	Static Water Level unknown
Rmrks Groundwater not encountered	TOC Elevation	Sample Method Acetate liner

in boring

Depth (ft.)	Sample ID	Sample Depth (ft)	Blows/ 6"	OVA (ppm)	Geologic Description	Typical Diagram
0					asphalt	
2				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
4				0.0 ppm		
6				0.0 ppm		
8				0.0 ppm		
10				0.0 ppm		
12	P10-15-12	12'			Bottom of boring	

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
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Appendix B
Laboratory Report



Case Narrative

Date: 05/23/08
Company: N. C. Department of Transportation
Contact: Martha Meyers-Lee
Address: c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Client Project ID: NCODT: Boone - Parcel 10
Prism COC Group No: G0508312
Collection Date(s): 05/07/08
Lab Submittal Date(s): 05/09/08

Client Project Name Or No: State Project: U-4020/130 Hardin St.

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 22 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative. Quality control statements and/or sample specific remarks are included in the sample comments section of the laboratory report for each sample affected.

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

Metals Analysis

N/A

Wet Lab and Micro Analysis

N/A

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

Date Reviewed by: Robbi A. Jones

Project Manager: Robbi A. Jones

Signature:

Signature:

Review Date: 05/23/08

Approval Date: 05/23/08

Data Qualifiers Key Reference:

- B: Compound also detected in the method blank.
- #: Result outside of the QC limits.
- DO: Compound diluted out.
- E: Estimated concentration, calibration range exceeded.
- J: The analyte was positively identified but the value is estimated below the reporting limit.
- H: Estimated concentration with a high bias.
- L: Estimated concentration with a low bias.
- M: A matrix effect is present.

Notes: This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc. The results in this report relate only to the samples submitted for analysis.



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-1-12
 Prism Sample ID: 214082
 COC Group: G0508312
 Time Collected: 05/07/08 8:40
 Time Submitted: 05/09/08 14:50

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

Percent Solids	87.1	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.0	1.3	1	8015B	05/19/08 19:19	jvoegel	Q32700
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Sample Preparation: 25.08 g / 1 mL 3545 05/16/08 15:00 woonder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	72	49 - 124

Sample Weight Determination

Weight 1	5.00	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.10	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	05/17/08 19:50	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	89	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-2-12
 Prism Sample ID: 214083
 COC Group: G0508312
 Time Collected: 05/07/08 9:00
 Time Submitted: 05/09/08 14:50

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

Percent Solids	89.5	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	7.8	1.3	1	8015B	05/19/08 19:55	jvogel	Q32700
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Sample Preparation: 25.12 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	71	49 - 124

Sample Weight Determination

Weight 1	4.41	g			1	GRO			
Weight 2	4.61	g			1	GRO			

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.6	3.5	50	8015B	05/17/08 20:22	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	95	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-3-12
 Prism Sample ID: 214084
 COC Group: G0508312
 Time Collected: 05/07/08 9:30
 Time Submitted: 05/09/08 14:50

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

Percent Solids	74.9	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.2	1.5	1	8015B	05/19/08 20:30	jbvogel	Q32700
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Sample Preparation: 25.33 g / 1 mL 3545 05/16/08 15:00 wcondor P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	57	49 - 124

Sample Weight Determination

Weight 1	4.75	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.07	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.7	4.2	50	8015B	05/19/08 1:38	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	92	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-4-8
 Prism Sample ID: 214085
 COC Group: G0508312
 Time Collected: 05/07/08 9:55
 Time Submitted: 05/09/08 14:50

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

Percent Solids	91.7	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	7.5	1.2	1	8015B	05/19/08 21:06	jvoegel	Q32700
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Sample Preparation: 25.53 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	56	49 - 124

Sample Weight Determination

Weight 1	4.88	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.75	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.5	3.4	50	8015B	05/18/08 16:41	wbradley	Q32565
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One surrogate recovery was outside the control limits. No target compounds were detected in this sample. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	153 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-5-4
 Prism Sample ID: 214086
 COC Group: G0508312
 Time Collected: 05/07/08 10:15
 Time Submitted: 05/09/08 14:50

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

Percent Solids	79.5	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	860	mg/kg	88	14	10	8015B	05/20/08 6:08	jvogel	Q32700
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Sample Preparation: 25.13 g / 1 mL 3545 05/16/08 15:00 wcoonder P21621

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

Sample Weight Determination

Weight 1	6.08	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.76	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	350	mg/kg	13	7.9	100	8015B	05/19/08 12:58	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	114	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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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

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-5-12
 Prism Sample ID: 214087
 COC Group: G0508312
 Time Collected: 05/07/08 10:25
 Time Submitted: 05/09/08 14:50

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

Percent Solids	82.1	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.5	1.4	1	8015B	05/20/08 14:53	jvogel	Q32700
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Sample Preparation: 25.21 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	58	49 - 124

Sample Weight Determination

Weight 1	4.30	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.52	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	05/19/08 10:08	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	91	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-6-12
 Prism Sample ID: 214088
 COC Group: G0508312
 Time Collected: 05/07/08 10:50
 Time Submitted: 05/09/08 14:50

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

Percent Solids	73.1	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.6	1.5	1	8015B	05/19/08 21:42	jvoegel	Q32700
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Sample Preparation: 25.02 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	50	49 - 124

Sample Weight Determination

Weight 1	5.68	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.36	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	4.3	50	8015B	05/18/08 18:15	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	82	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services

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NC Certification No. 402
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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-7-12
 Prism Sample ID: 214089
 COC Group: G0508312
 Time Collected: 05/07/08 11:15
 Time Submitted: 05/09/08 14:50

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

Percent Solids	73.1	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.6	1.5	1	8015B	05/19/08 22:18	jvogel	Q32700
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Sample Preparation: 25 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	56	49 - 124

Sample Weight Determination

Weight 1	5.22	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.49	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	4.3	50	8015B	05/18/08 18:47	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	82	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-8-12
 Prism Sample ID: 214090
 COC Group: G0508312
 Time Collected: 05/07/08 11:35
 Time Submitted: 05/09/08 14:50

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

Percent Solids	76.0	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.2	1.5	1	8015B	05/19/08 23:31	jvogel	Q32700
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Sample Preparation: 25.01 g / 1 mL 3545 05/16/08 15:00 wcondor P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	61	49 - 124

Sample Weight Determination

Weight 1	4.72	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.98	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	4.1	50	8015B	05/18/08 19:19	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	99	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Client Sample ID: P10-9-12
 Prism Sample ID: 214091
 Project ID: NCODT: Boone - Parcel 10
 COC Group: G0508312
 Project No.: WBS#35015.1.1
 Time Collected: 05/07/08 12:00
 Sample Matrix: Soil
 Time Submitted: 05/09/08 14:50

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

Percent Solids	81.5	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.6	1.4	1	8015B	05/20/08 0:07	jvogel	Q32700
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Sample Preparation: 25 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	61	49 - 124

Sample Weight Determination

Weight 1	4.50	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	3.40	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	05/18/08 19:50	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	100	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



NC Certification No. 402
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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-10-4
 Prism Sample ID: 214092
 COC Group: G0508312
 Time Collected: 05/07/08 12:25
 Time Submitted: 05/09/08 14:50

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

Percent Solids	81.2	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	250	mg/kg	8.6	1.4	1	8015B	05/20/08 4:20	jbvogel	Q32700
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Sample Preparation: 25.14 g / 1 mL 3545 05/16/08 15:00 wcondor P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	68	49 - 124

Sample Weight Determination

Weight 1	6.40	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	6.50	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	560	mg/kg	6.2	3.9	100	8015B	05/19/08 15:39	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	116	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCDOT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-10-12
 Prism Sample ID: 214093
 COC Group: G0508312
 Time Collected: 05/07/08 12:30
 Time Submitted: 05/09/08 14:50

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

Percent Solids	79.3	%			1	SM2540 G	05/13/08 12:25	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.7	1.4	1	8015B	05/20/08 0:43	lvogel	Q32700
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Sample Preparation: 25.27 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	55	49 - 124

Sample Weight Determination

Weight 1	4.94	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.48	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	3.9	50	8015B	05/18/08 20:22	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	90	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-11-2
 Prism Sample ID: 214094
 COC Group: G0508312
 Time Collected: 05/07/08 14:15
 Time Submitted: 05/09/08 14:50

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

Percent Solids	85.8	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	470	mg/kg	200	6.5	5	8015B	05/21/08 14:28	jvogel	Q32700
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Sample Preparation: 25.16 g / 1 mL 3545 05/16/08 15:00 wcoonder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	62	49 - 124

Sample Weight Determination

Weight 1	6.27	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.33	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	370	mg/kg	12	7.3	100	8015B	05/19/08 14:36	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	104	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
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Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-11-12
 Prism Sample ID: 214095
 COC Group: G0508312
 Time Collected: 05/07/08 14:25
 Time Submitted: 05/09/08 14:50

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

Percent Solids	83.2	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.3	1.3	1	8015B	05/20/08 5:32	jvogel	Q32700
Sample Preparation:			25.23 g	/	1 mL	3545	05/16/08 15:00	wconder	P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	56	49 - 124

Sample Weight Determination

Weight 1	3.65	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.08	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.8	50	8015B	05/18/08 21:57	wbradley	Q32565
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One surrogate recovery was outside the control limits. No target compounds were detected in this sample. No further action was taken.

Surrogate	% Recovery	Control Limits
aaa-TFT	137 #	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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Angela D. Overcash, V.P. Laboratory Services



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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
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 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-12-6
 Prism Sample ID: 214096
 COC Group: G0508312
 Time Collected: 05/07/08 14:45
 Time Submitted: 05/09/08 14:50

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

Percent Solids	78.2	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.9	1.4	1	8015B	05/20/08 14:17	jvogel	Q32700
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Sample Preparation: 25.02 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	59	49 - 124

Sample Weight Determination

Weight 1	4.68	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.51	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	05/18/08 22:28	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	83	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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NC Certification No. 402
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Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-12-12
 Prism Sample ID: 214097
 COC Group: G0508312
 Time Collected: 05/07/08 14:50
 Time Submitted: 05/09/08 14:50

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

Percent Solids	78.0	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.4	1	8015B	05/20/08 1:19	jvogel	Q32700
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Sample Preparation: 25.06 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	58	49 - 124

Sample Weight Determination

Weight 1	4.60	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.80	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	05/18/08 23:00	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	86	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-13-2
 Prism Sample ID: 214098
 COC Group: G0508312
 Time Collected: 05/07/08 15:25
 Time Submitted: 05/09/08 14:50

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

Percent Solids	78.8	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	31	mg/kg	8.7	1.4	1	8015B	05/20/08 1:55	jvogel	Q32700
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Sample Preparation: 25.53 g / 1 mL 3545 05/16/08 15:00 wconder P21621

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

Sample Weight Determination

Weight 1	4.86	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.48	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	110	mg/kg	6.3	4.0	50	8015B	05/18/08 23:31	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	92	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

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



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-13-12
 Prism Sample ID: 214099
 COC Group: G0508312
 Time Collected: 05/07/08 15:30
 Time Submitted: 05/09/08 14:50

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

Percent Solids	72.8	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.4	1.5	1	8015B	05/20/08 2:31	jvogel	Q32700
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Sample Preparation: 25.48 g / 1 mL 3545 05/16/08 15:00 woonder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	50	49 - 124

Sample Weight Determination

Weight 1	4.74	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.85	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.9	4.3	50	8015B	05/19/08 0:03	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	88	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-
 4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel
 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-14-12
 Prism Sample ID: 214100
 COC Group: G0508312
 Time Collected: 05/07/08 15:55
 Time Submitted: 05/09/08 14:50

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

Percent Solids	83.9	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.2	1.3	1	8015B	05/20/08 3:07	jvogel	Q32700
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Sample Preparation: 25.52 g / 1 mL 3545 05/16/08 15:00 wcondor P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	55	49 - 124

Sample Weight Determination

Weight 1	3.11	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	4.61	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.7	50	8015B	05/19/08 0:34	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	96	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

05/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130 Hardin St.
 Project ID: NCODT: Boone - Parcel 10
 Project No.: WBS#35015.1.1
 Sample Matrix: Soil

Client Sample ID: P10-15-12
 Prism Sample ID: 214101
 COC Group: G0508312
 Time Collected: 05/07/08 16:15
 Time Submitted: 05/09/08 14:50

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

Percent Solids	76.6	%			1	SM2540 G	05/14/08 15:52	nhansson	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	9.1	1.5	1	8015B	05/20/08 3:43	jvoegel	Q32700
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Sample Preparation: 25.14 g / 1 mL 3545 05/16/08 15:00 wconder P21621

Surrogate	% Recovery	Control Limits
o-Terphenyl	53	49 - 124

Sample Weight Determination

Weight 1	4.44	g			1	GRO	05/13/08 0:00	lbrown	
Weight 2	5.00	g			1	GRO	05/13/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.1	50	8015B	05/19/08 1:06	wbradley	Q32565
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Surrogate	% Recovery	Control Limits
aaa-TFT	79	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Level II QC Report

5/23/08

N. C. Department of Transportation
 Attn: Martha Meyers-Lee
 c/o URS
 1600 Perimeter Park Dr. Suite 400
 Morrisville, NC 27560

Project Name: State Project: U-4020/130
 Hardin St.
 Project ID: NCODT: Boone - Parcel
 Project No.: 10
 WBS#35015.1.1

COC Group Number: G0508312
 Date/Time Submitted: 5/9/08 14:50

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q32565		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	43.6	50		mg/kg	87	67-116	Q32565		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
214082 Gasoline Range Organics (GRO)	54.8	50		mg/kg	110	57-113	Q32565		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
214082 Gasoline Range Organics (GRO)	52.6	50		mg/kg	105	57-113	4	0 - 23	Q32565

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q32700		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	56.9	80		mg/kg	71	55-109	Q32700		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
214082 Diesel Range Organics (DRO)	52.9	80		mg/kg	66	50-117	Q32700		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
214082 Diesel Range Organics (DRO)	56.3	80		mg/kg	70	50-117	6	0 - 24	Q32700

#-See Case Narrative



Full Service Analytical & Environmental Solutions

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

Client Company Name: VRS Corporation
Report To/Contact Name: Matthew Meyers-Lee
Reporting Address: 600 Peninsula Parkway, Suite 400
Morrisville NC 27560

Phone: (919) 461-1100 Fax: (919) 461-1415
Email: (Yes/No) Email Address: Matthew.Meyers-Lee@VRS.com
EDD Type: PDF Excel Other
Site Location Name: Parcel 10
Site Location Physical Address: 130 Hardin St.

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: NCDOT Boone UST Project: (Yes) (No)
Short Hold Analysis: (Yes) (No)
*Please ATTACH any project specific reporting (QC LEVEL I III III IV) provisions and/or QC Requirements
Invoice To: Direct Bill NCDOT
Address: State Project U-4020

Purchase Order No./Billing Reference: WBE Element 3505514
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				
P10-1-12	5-7-08	840	Soil	G	3	2-4oz 1-8oz				214082
P10-2-12		900								214083
P10-3-12		930								214084
P10-4-8		955								214085
P10-5-4		1015								214086
P10-5-12		1025								214087
P10-6-12		1050								214088
P10-7-12		1115								214089
P10-8-12		1135								214090
P10-9-12		1200								214091

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: Michael Merse Sampled By (Print Name): Michael Merse Affiliation: VRS Corp

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) <u>[Signature]</u>	Date: <u>5/8/08</u>	Military Hours: <u>1658</u>
Relinquished By: (Signature) <u>[Signature]</u>	Date: <u>5/8/08</u>	Military Hours: <u>1200</u>
Relinquished By: (Signature) <u>[Signature]</u>	Date: <u>5/7/08</u>	Military Hours: <u>1450</u>

Additional Comments:

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

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

RCRA: NC SC NC SC NC SC

SOLID WASTE: NC SC NC SC

DRINKING WATER: NC SC NC SC

GROUNDWATER: NC SC NC SC

LANDFILL: NC SC NC SC

OTHER: NC SC NC SC

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

PRISM USE ONLY

Site Arrival Time: _____

Site Departure Time: _____

Field Tech Fee: _____

Mileage: _____

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: URS Corporation
 Report To/Contact Name: Anthony Murray-Lee
 Reporting Address: 600 Perimeter Park Dr. Suite 100
Morrisville, NC 27560

Phone: 704/461-1100 Fax: (No) 704/461-1415
 Email: (Yes) (No) Email Address: Anthony.Murray-Lee@URS Corp.com
 EDD Type: PDF Excel Other
 Site Location Name: Phase 10
 Site Location Physical Address: 130 Hardsin St.

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

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

Invoice To: Direct Bill: NCDOT
 Address: State Project 0-4020

Purchase Order No./Billing Reference: WBS Element 13501514
 Requested Due Date 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-9 Days Standard 10 days Rush Work Must Be Pre-Approved
 Samples received after 15:00 will be processed next business day.
 Turnaround time is based on business days, excluding weekends and holidays.
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

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

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
 Certification: NELAC USACE FL NC X
 SC OTHER N/A
 Water Chlorinated: YES NO X
 Sample Iced Upon Collection: YES X 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				
P10-10-4	5-7-08	1225	Soil	G	3	2-40ml 1-862				214092
P10-10-12		1230								214093
P10-11-2		1415								214094
P10-11-12		1425								214095
P10-12-6		1445								214096
P10-12-12		1450								214097
P10-13-2		1525								214098
P10-13-12		1530								214099
P10-14-12		1555								214100
P10-15-12		1615								214101

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

Sampler's Signature: Michael Meese Sampled By (Print Name): Michael Meese Affiliation: URS Corp
 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: 5/7/08 1630
 Relinquished By (Signature): [Signature] Date: 5/7/08 1200
 Relinquished By (Signature): [Signature] Date: 5/7/08 1450
 Method of Transport: Fed Ex UPS Hand-delivered Prism Field Service Other
 NPDES: NC SC NC SC NC SC NC SC NC SC NC SC
 CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic TI = Teflon-lined Can VOA = Volatile Organics Analysis (Zero Head Space)
 OTHER: NC SC NC SC NC SC
 Additional Comments: Go508312

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL