

P S A R E P O R T

**PRELIMINARY SITE ASSESSMENT
PARCEL 25
RENO MANAGEMENT LLC PROPERTY
280 EAST KING 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 B
1020 Birch Ridge Drive
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June 5, 2008



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URS Job No. 3182 5704

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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.

6-4-8
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 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 25, Reno Management LLC Property, located at 280 East King Street. Only the portion of Parcel 25 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, Parcel 25, Reno Management LLC Property. 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.
- URS’s March 7, 2008 Technical and Cost Proposal entitled: Revised Technical and Cost Proposal, Preliminary Site Assessment, Parcel 25, Reno Management LLC Property.
- NCDOT’s March 7, 2008 Notice to Proceed, Preliminary Site Assessment, Parcel 25, Reno Management LLC Property.

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 establish 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 on the south side of US 421, (East King Street) east of US 321 (Hardin Street). The 1.5 story frame business currently operates as a surf, ski, and skateboard retail shop.

The parcel lies at an elevation of approximately 3,250 feet above mean sea level (ft msl). The area east of the building is an asphalt parking lot and the areas west and south of the building is grass and/or trees. No existing monitoring wells were noted during the Site visit, however, one fuel oil UST was observed. The UST is located approximately 20 ft west of the building in a stand of pine trees, just north (inside) of the proposed ROW (see Suspected UST #2 in **Figure 3**). The area of interest is within the proposed ROW which is approximately 135 ft long by 70 ft wide along the northern property boundary.

2.1 GEOPHYSICAL SURVEY

The geophysical survey for Parcel 25 was conducted between March 18 and 22, 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 in. 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 proposed ROW. 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

Twelve Geoprobe[®] direct-push soil borings, P25-1 through P25-12, were installed on April 9, 2008 to assess the Site for impacted soil. The locations of the soil borings are shown on **Figure 4**.

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 (P25-1 thru P25-12) 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 are provided as a color enhanced contour map for use in the field during soil boring installation (**Figure 5**). 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 four EM anomalies indicative of USTs at Parcel 25 as illustrated on **Figure 5**. The follow-up GPR survey revealed parabolic-shaped reflection patterns typically associated with USTs at one of the four anomaly locations (Suspected UST #1 shown on **Figures 3, 4, and 5**). The extent of the UST was marked on the ground with semi-permanent marking paint **Figure 3**). The remaining three EM anomalies did not show corresponding parabolic-shaped GPR reflection patterns typical of USTs.

In addition to the EM anomalies, a fill port and vent pipe were visually observed at Parcel 25 (Suspected UST #2, **Figures 3, 4, and 5**). Geophysical surveying could not be completed over the suspected UST #2 because the fill port and vent pipe were situated within the wooded portion of the parcel to the west of the building. Therefore, the extent of the UST could not be determined or marked in the field. The location of the fill port was recorded with GPS and a probe rod was used to determine the orientation of the UST. GPR was used to locate an underground line that appears to extend from the UST eastward towards the building (**Figure 5**).

A total of twelve soil borings were advanced to depths of 12 ft bgs during the PSA investigation at Parcel 25. Boring locations are shown in **Figure 4** and a boring log, representative of each of the borings, is 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 did not detect organic vapors in any of the soil borings. Laboratory results of the soil samples collected for TPH (DRO and GRO) are summarized in **Table 1** and the complete laboratory report is included in **Appendix B**. TPH as DRO was reported at 18 milligrams per kilogram (mg/kg) in the sample collected from boring P25-3 at 12 ft bgs, located approximately 15 ft away from the suspected UST #1. The detected DRO concentration is just above the action level of 10 mg/kg for UST related incidents, but below the action level of 40 mg/kg for non UST related incidents. Three soil samples (P25-4, 5, and 7) collected adjacent to the suspected UST #1 were non detect for TPH. It is our understanding that in cases such as this, NCDOT would view the results under the non-UST framework and therefore, no additional activities are warranted as the detected concentration is below the action level for a non-UST related incident. In terms of reporting the detection to NCDENR, the guidance for this scenario is not explicit, and NCDENR reporting could be completed by NCDOT as a conservative measure.

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 25, Reno Management LLC Property, February 20, 2008

URS Corporation – North Carolina, Technical and Cost Proposal entitled: Revised Technical and Cost Proposal, Preliminary Site Assessment, Parcel 25, Reno Management LLC Property, March 7, 2008

North Carolina Department of Transportation, Notice to Proceed - Preliminary Site Assessment, Parcel 25, Reno Management LLC Property, March 7, 2008

Tables

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 25
RENO MANAGEMENT LLC PROPERTY
280 EAST KING STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA**

			FIELD SCREENING	LABORATORY ANALYSES		USCS LITHOLOGY
LOCATION	DATE	DEPTH (ft bgs)		TPH RANGE	ORGANICS	
			PID (ppm)	GRO (mg/kg)	DRO (mg/kg)	
P25-1	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.6)	ND (1.3)	
P25-2	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.0)	ND (1.5)	
P25-3	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.9)	18.	
P25-4	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.6)	ND (1.3)	
P25-5	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.3)	ND (1.2)	
P25-6	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	ND (1.3)	
P25-7	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.6)	ND (1.3)	

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 25
RENO MANAGEMENT LLC PROPERTY
280 EAST KING STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA**

LOCATION	DATE	DEPTH (ft bgs)	FIELD SCREENING PID (ppm)	LABORATORY ANALYSES		USCS LITHOLOGY
				GRO (mg/kg)	DRO (mg/kg)	
P25-8	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.6)	ND (1.3)	
P25-9	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	ND (1.4)	
P25-10	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.7)	ND (1.3)	
P25-11	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.7)	ND (1.3)	
P25-12	04/09/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.0)	ND (1.4)	

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 NCDENR UST Section, *Guidelines for Assessment and Corrective Action* (NCDENR, UST Section, July 2001) and *Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases* (NCDENR, UST Section, July 2007).

Figures

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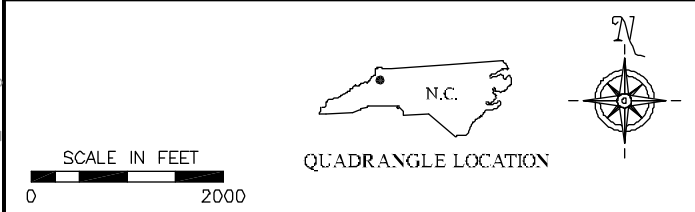
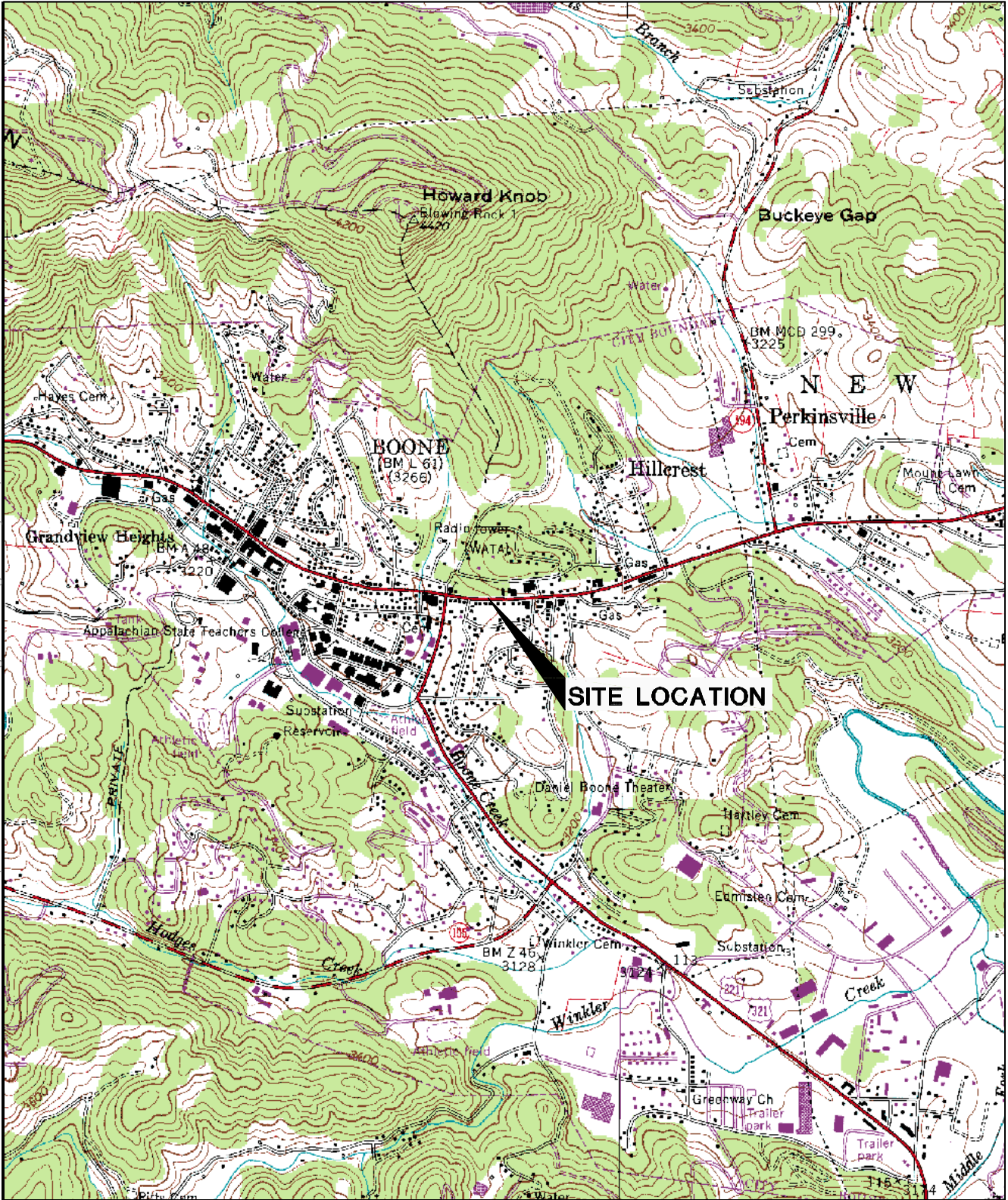

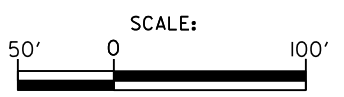
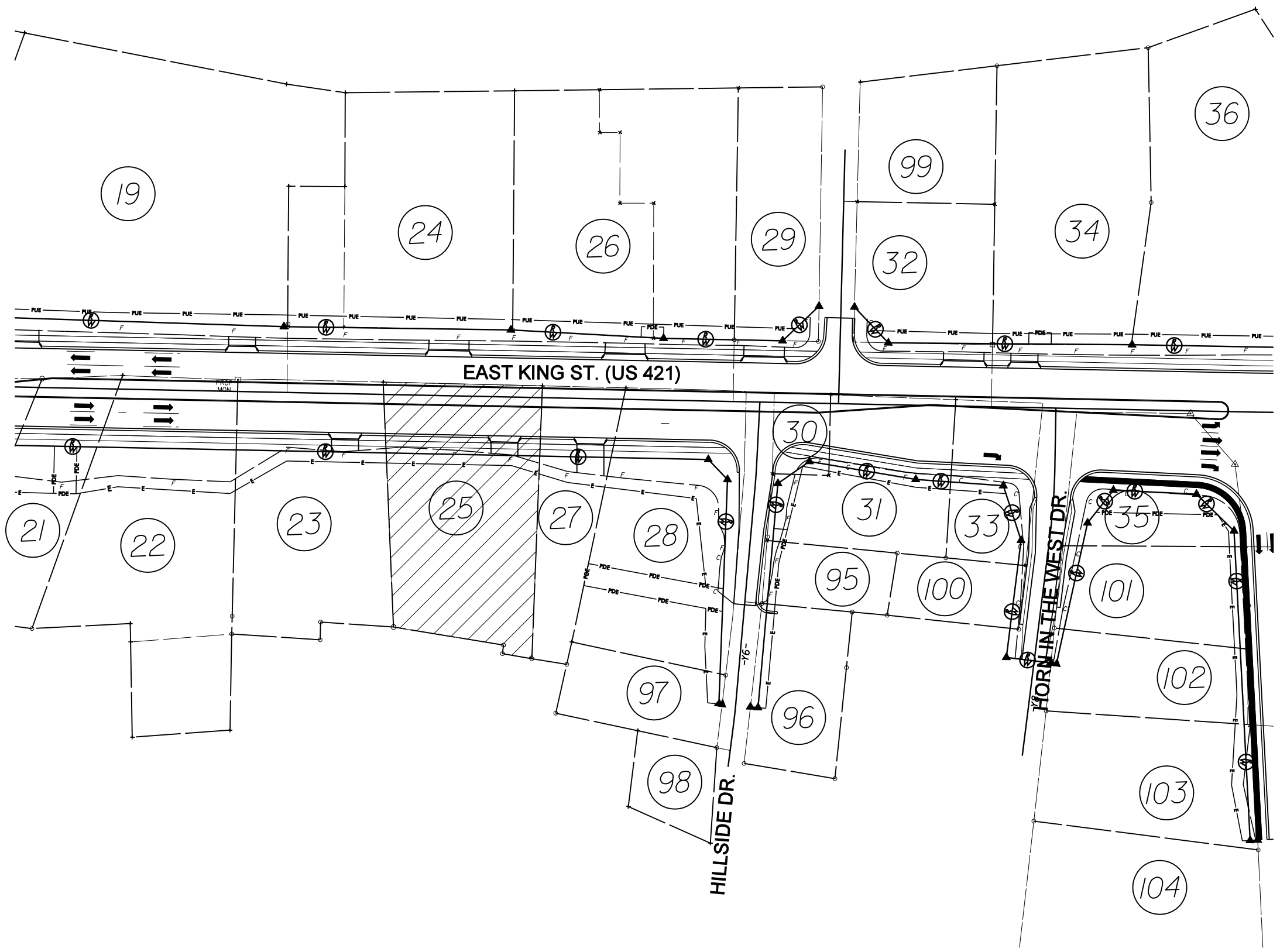


FIGURE 1. LOCATION MAP
PARCEL 25, 280 E. KING STREET
BOONE, NORTH CAROLINA

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: 3-4-08	STATE PROJECT:
CHECKED BY: VK	DATE: 3-5-08	U-4020

PARCEL LOCATION MAP

FIGURE
FIG-02

Suspected UST #1

E: 1212025.4 feet
N: 908192.1 feet

Notes:

1. Intepreted extents of suspected UST marked in orange paint.
2. View is towards the west from the parking area on the eastern side of the building on Parcel #25.
3. Coordinates in NC State Plane, NAD-83 datum.
4. Coordinates from DGPS survey by URS Corporation.



E: 1212032.0 feet
N: 908200.5 feet

Suspected UST #2

Vent Pipe

Fill Port
E: 1211945.9 feet
N: 908174.3 feet



Notes:

1. View is towards the west from the western side of the building on Parcel #25.
2. Coordinates in NC State Plane, NAD-83 datum.
3. Coordinates from DGPS survey by URS Corporation.

Interpreted Fuel Line from UST



6135 Park South Dr., Ste. 300
Charlotte, NC 28210
(704) 522-0330

Suspected USTs
Parcel #25

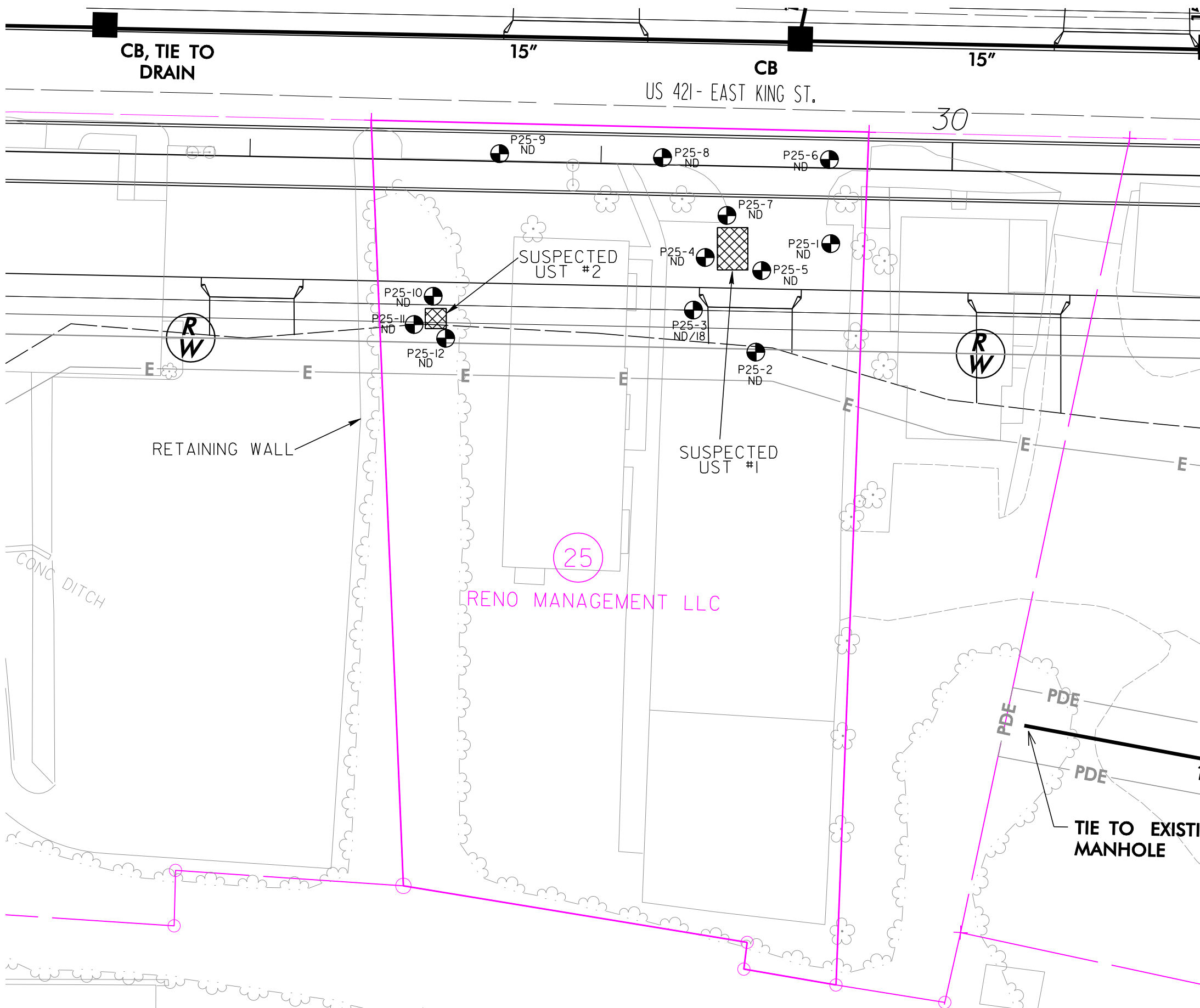
NCDOT State Project U-4020, Watauga County

Boone, North Carolina

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
MAB	03/31/08	MAB	03/31/08
TJK	04/25/08		31825704

Figure
3

P:\Common Projects\NCDOT\31825704 boone psos\ 6.0 graphics\ 6.2 - microstation\parcel sheets\parcel5_figure03.dgn



LEGEND

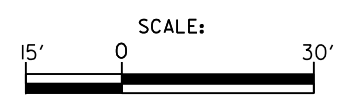
- P25-1 - SOIL BORING LOCATION
18 DRO IN Mg/Kg
- PROPOSED RIGHT-OF-WAY
- PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE
- SUSPECTED UST LOCATION

NOTES

- ND - TPH NOT DETECTED ABOVE THE METHOD DETECTION LIMIT
- DRO - DIESEL RANGE ORGANICS
- GRO - GASOLINE RANGE ORGANICS
- PDE - PERMANENT DRAINAGE EASEMENT
- CB - CATCH BASIN

SUMMARY OF DETECTIONS IN Mg/kg

ID	DEPTH	GRO	DRO
P25-3	12'	ND	18

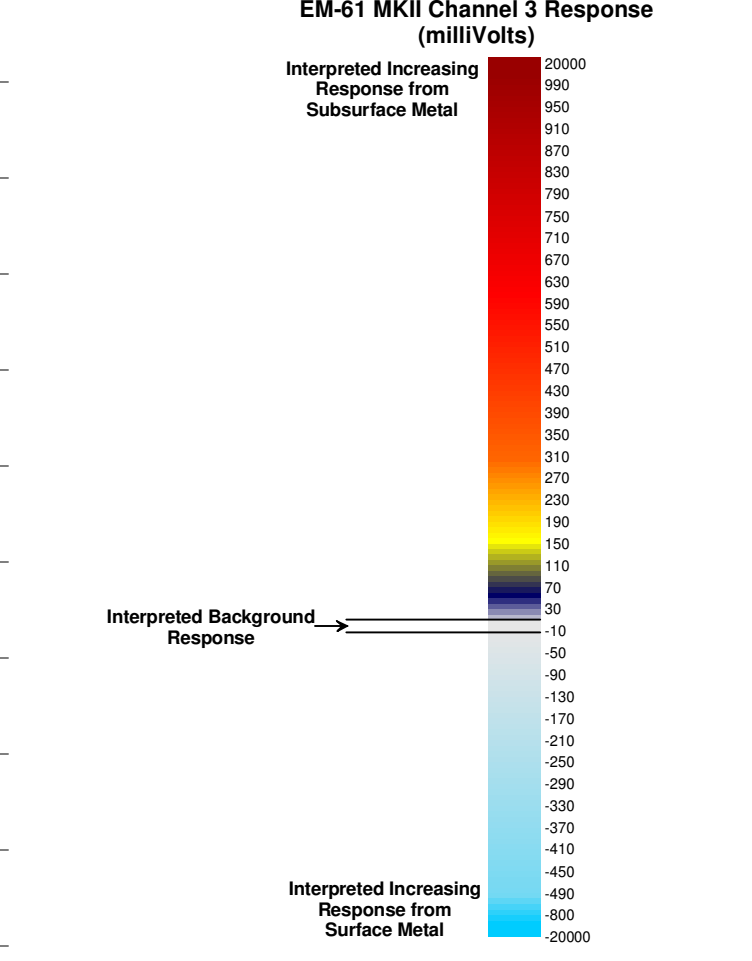
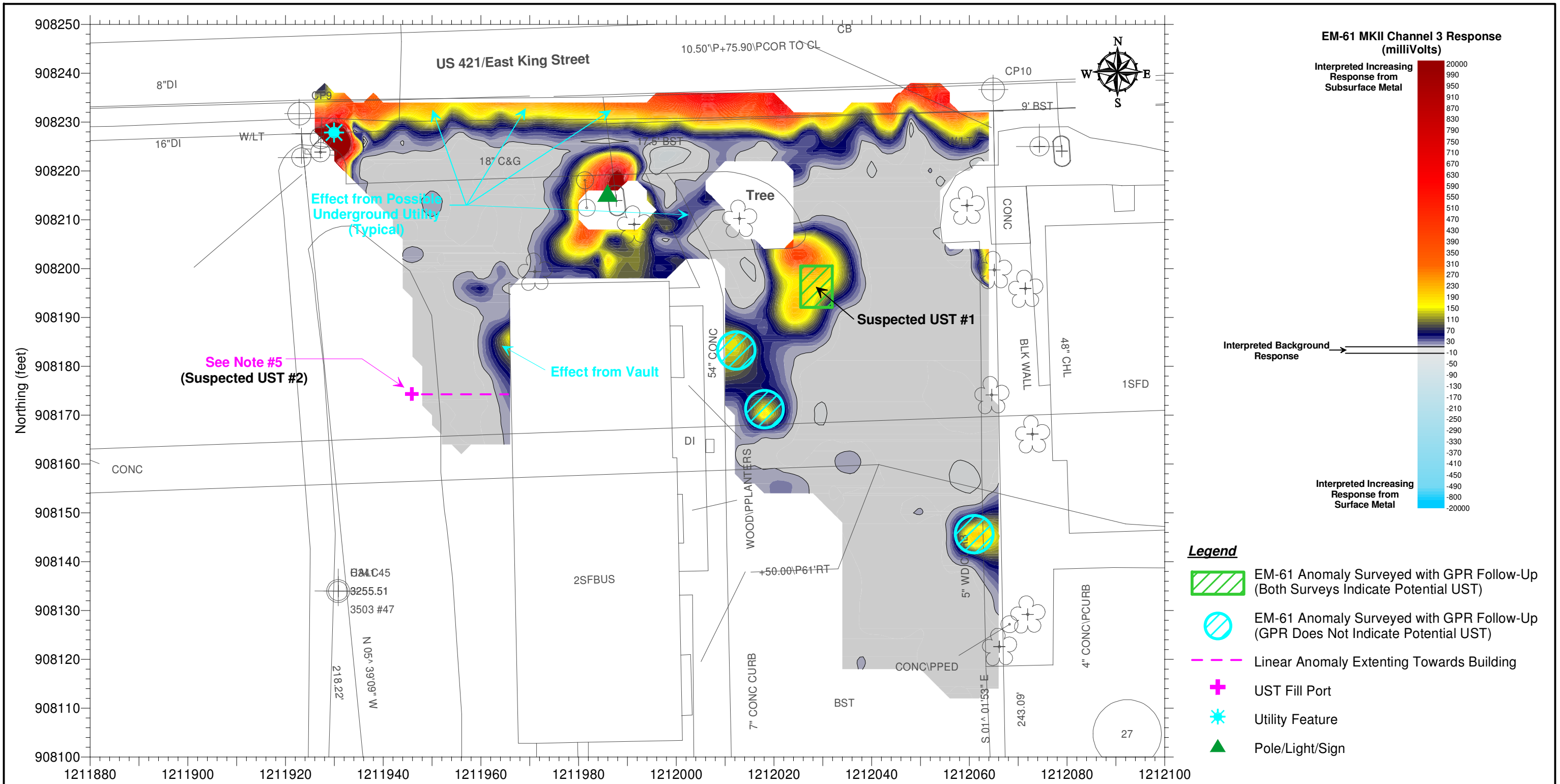


PARCEL 25
 RENO MANAGEMENT LLC PROPERTY
 280 EAST KING STREET
 BOONE, NORTH CAROLINA

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

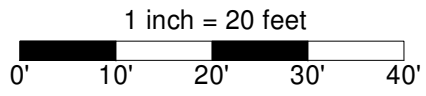
DRN BY: SMS	DATE: 6-3-08	STATE PROJECT:
CHECKED BY: VK	DATE: 6-5-08	U-4020

SOIL SAMPLING LOCATIONS FIGURE FIG-04



- Legend**
- EM-61 Anomaly Surveyed with GPR Follow-Up (Both Surveys Indicate Potential UST)
 - EM-61 Anomaly Surveyed with GPR Follow-Up (GPR Does Not Indicate Potential UST)
 - Linear Anomaly Extending Towards Building
 - UST Fill Port
 - Utility Feature
 - Pole/Light/Sign

- 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.
 5. Extents of UST not marked in field because wooded area was not accessible with geophysical instruments.



		6135 Park South Dr., Ste. 300 Charlotte, NC 28210 (704) 522-0330	
Geophysical Investigation Results Parcel #25			
NCDOT State Project U-4020, Watauga County			
Boone, North Carolina			
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUMBER
MAB	03/31/08	MAB	03/31/08
		TJK	04/25/08
			31825704
			Figure 5

Appendix A
Soil Boring Log



BORING LOG: P25-1

Permit #	Drill Date 04/09/08	Site Parcel 25
Client NCDOT	Use	URS Corporation
Address Boone, North Carolina		Total Depth (ft) 12
Drilling Method 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 NA	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		
6				0.0 ppm	Light brown, dry, loose silty Sand (SM), some mica	
8				0.0 ppm		
10				0.0 ppm		
12	P25-1-12	12'			bottom of boring	Not to Scale

Notes:

Geologist: Michael Meese	Driller: SAEDACCO
---------------------------------	--------------------------

Appendix B
Laboratory Report

Case Narrative



Date: 04/25/08
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: NCDOT: Boone - Parcel 25
Prism COC Group No: G0408349
Collection Date(s): 04/09/08
Lab Submittal Date(s): 04/11/08

Client Project Name Or No: State Project: U-4020/ 280 E. King 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 15 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: Paula A. Gilleland

Project Manager: Robbi A. Jones

Signature:

Paula A. Gilleland

Signature:

Paula A. Gilleland for Robbi Jones

Review Date:

04/25/08

Approval Date:

04/25/08

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

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-1-12
 Prism Sample ID: 211189
 COC Group: G0408349
 Time Collected: 04/09/08 13:25
 Time Submitted: 04/11/08 8:30

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

Percent Solids Determination

Percent Solids	87.1	%			1	SM2540 G	04/15/08 11:15	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	04/21/08 21:39	jvogel	Q31897
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Sample Preparation: 25.26 g / 1 mL 3545 04/18/08 15:30 wcondor P21373

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

Sample Weight Determination

Weight 1	4.76	g			1	GRO	04/17/08 0:00	athao	
Weight 2	4.71	g			1	GRO	04/17/08 0:00	athao	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/14/08 19:31	wbradley	Q31723
-------------------------------	-----	-------	-----	-----	----	-------	----------------	----------	--------

Surrogate	% Recovery	Control Limits
aaa-TFT	109	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

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

Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-2-12
 Prism Sample ID: 211190
 COC Group: G0408349
 Time Collected: 04/09/08 13:45
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	77.5	%			1	SM2540 G	04/15/08 11:15	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	04/21/08 22:15	jvogel	Q31897
Sample Preparation:			25.12 g	/	1 mL	3545	04/18/08 15:30	wconder	P21373
					Surrogate		% Recovery	Control Limits	
					o-Terphenyl		76	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	5.73	g			1	GRO	04/17/08 0:00	athao	
Weight 2	6.03	g			1	GRO	04/17/08 0:00	athao	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.5	4.0	50	8015B	04/14/08 21:06	wbradley	Q31723
					Surrogate		% Recovery	Control Limits	
					aaa-TFT		75	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

04/25/08

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/
 280 E. King St
 Client Sample ID: P25-3-12
 Prism Sample ID: 211191
 Project ID: NCDOT: Boone - Parcel
 25
 COC Group: G0408349
 Project No.: WBS# 35015.1.1
 Time Collected: 04/09/08 14:00
 Sample Matrix: Soil
 Time Submitted: 04/11/08 8:30

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

Percent Solids	80.3	%			1	SM2540 G	04/15/08 11:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	18	mg/kg	8.7	1.4	1	8015B	04/21/08 22:51	jvogel	Q31897
-----------------------------	----	-------	-----	-----	---	-------	----------------	--------	--------

Sample Preparation: 25.15 g / 1 mL 3545 04/18/08 15:30 wconder P21373

Surrogate	% Recovery	Control Limits
o-Terphenyl	76	49 - 124

Sample Weight Determination

Weight 1	5.54	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.63	g			1	GRO	04/14/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.2	3.9	50	8015B	04/14/08 21:38	wbradley	Q31723
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Surrogate	% Recovery	Control Limits
aaa-TFT	63	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

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-4-12
 Prism Sample ID: 211192
 COC Group: G0408349
 Time Collected: 04/09/08 14:15
 Time Submitted: 04/11/08 8:30

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

Percent Solids	86.6	%			1	SM2540 G	04/15/08 11:15	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	04/21/08 23:26	jvogel	Q31897
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Sample Preparation: 25.28 g / 1 mL 3545 04/18/08 15:30 wconder P21373

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

Sample Weight Determination

Weight 1	4.08	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.06	g			1	GRO	04/14/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/14/08 22:09	wbradley	Q31723
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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

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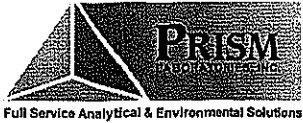
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Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-5-12
 Prism Sample ID: 211193
 COC Group: G0408349
 Time Collected: 04/09/08 14:25
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	94.5	%			1	SM2540 G	04/15/08 11:15	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	7.3	1.2	1	8015B	04/22/08 0:02	jvogel	Q31897
Sample Preparation:			25.24 g	/	1 mL	3545	04/18/08 15:30	wconder	P21373
			Surrogate				% Recovery	Control Limits	
			o-Terphenyl				70	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	4.72	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.97	g			1	GRO	04/14/08 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.3	3.3	50	8015B	04/14/08 22:41	wbradley	Q31723
			Surrogate				% Recovery	Control Limits	
			aaa-TFT				80	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

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-6-12
 Prism Sample ID: 211194
 COC Group: G0408349
 Time Collected: 04/09/08 14:40
 Time Submitted: 04/11/08 8:30

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

Percent Solids	83.4	%			1	SM2540 G	04/15/08 11:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.3	1.3	1	8015B	04/22/08 0:38	jvogel	Q31897
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Sample Preparation: 25.36 g / 1 mL 3545 04/18/08 15:30 wconder P21373

Surrogate	% Recovery	Control Limits
o-Terphenyl	70	49 - 124

Sample Weight Determination

Weight 1	5.14	g			1	GRO	04/17/08 0:00	athao	
Weight 2	4.78	g			1	GRO	04/17/08 0:00	athao	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.8	50	8015B	04/14/08 23:12	wbradley	Q31723
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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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Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-7-12
 Prism Sample ID: 211195
 COC Group: G0408349
 Time Collected: 04/09/08 14:55
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	87.7	%			1	SM2540 G	04/15/08 11:15	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	7.9	1.3	1	8015B	04/22/08 1:14	joegel	Q31897
Sample Preparation:			25.37 g	/	1 mL	3545	04/18/08 15:30	wconder	P21373
		Surrogate		% Recovery		Control Limits			
		o-Terphenyl		61		49 - 124			
Sample Weight Determination									
Weight 1	4.67	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	4.85	g			1	GRO	04/14/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.7	3.6	50	8015B	04/14/08 23:44	wbradley	Q31723
		Surrogate		% Recovery		Control Limits			
		aaa-TFT		67		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
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Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-8-12
 Prism Sample ID: 211196
 COC Group: G0408349
 Time Collected: 04/09/08 15:15
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	86.8	%			1	SM2540 G	04/15/08 11:15	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	04/22/08 1:50	jvogel	Q31897
Sample Preparation:				25 g	/	1 mL	3545	04/18/08 15:30	wconder P21373
				Surrogate			% Recovery	Control Limits	
				o-Terphenyl			79	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	3.80	g			1	GRO	04/17/08 0:00	athao	
Weight 2	4.52	g			1	GRO	04/17/08 0:00	athao	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/15/08 0:47	wbradley	Q31723
				Surrogate			% Recovery	Control Limits	
				aaa-TFT			105	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Angela D. Overcash, V.P. Laboratory Services



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 NC Drinking Water Cert. No. 37735

Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-9-12
 Prism Sample ID: 211197
 COC Group: G0408349
 Time Collected: 04/09/08 15:35
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID						
<u>Percent Solids Determination</u>															
Percent Solids	82.6	%			1	SM2540 G	04/15/08 11:15	mbarber							
<u>Diesel Range Organics (DRO) by GC-FID</u>															
Diesel Range Organics (DRO)	BRL	mg/kg	8.4	1.4	1	8015B	04/22/08 2:26	jvogel	Q31897						
Sample Preparation:			25.25 g	/	1 mL	3545	04/18/08 15:30	wconder	P21373						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>o-Terphenyl</td> <td>68</td> <td>49 - 124</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	o-Terphenyl	68	49 - 124
Surrogate	% Recovery	Control Limits													
o-Terphenyl	68	49 - 124													
<u>Sample Weight Determination</u>															
Weight 1	5.11	g			1	GRO	04/14/08 0:00	lbrown							
Weight 2	5.00	g			1	GRO	04/14/08 0:00	lbrown							
<u>Gasoline Range Organics (GRO) by GC-FID</u>															
Gasoline Range Organics (GRO)	BRL	mg/kg	6.1	3.8	50	8015B	04/15/08 9:58	wbradley	Q31723						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>aaa-TFT</td> <td>84</td> <td>55 - 129</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	aaa-TFT	84	55 - 129
Surrogate	% Recovery	Control Limits													
aaa-TFT	84	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

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-10-12
 Prism Sample ID: 211198
 COC Group: G0408349
 Time Collected: 04/09/08 15:50
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	85.3	%			1	SM2540 G	04/15/08 11:15	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.1	1.3	1	8015B	04/22/08 3:02	jvogel	Q31897
Sample Preparation:			25.38 g	/	1 mL	3545	04/18/08 15:30	wconder	P21373
		Surrogate		% Recovery		Control Limits			
		o-Terphenyl		74		49 - 124			
Sample Weight Determination									
Weight 1	4.67	g			1	GRO	04/17/08 0:00	athao	
Weight 2	5.00	g			1	GRO	04/17/08 0:00	athao	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015B	04/15/08 10:32	wbradley	Q31723
		Surrogate		% Recovery		Control Limits			
		aaa-TFT		85		55 - 129			

Sample Comment(s):

BRL = Below Reporting Limit
 J- Estimated value between the Reporting Limit and the MDL
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Laboratory Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-11-12
 Prism Sample ID: 211199
 COC Group: G0408349
 Time Collected: 04/09/08 16:05
 Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID						
Percent Solids Determination															
Percent Solids	83.6	%			1	SM2540 G	04/15/08 11:15	mbarber							
Diesel Range Organics (DRO) by GC-FID															
Diesel Range Organics (DRO)	BRL	mg/kg	8.2	1.3	1	8015B	04/23/08 13:40	jvogel	Q31961						
Sample Preparation:			25.47 g	/	1 mL	3545	04/22/08 16:30	wconder	P21413						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>o-Terphenyl</td> <td>61</td> <td>49 - 124</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	o-Terphenyl	61	49 - 124
Surrogate	% Recovery	Control Limits													
o-Terphenyl	61	49 - 124													
Sample Weight Determination															
Weight 1	5.12	g			1	GRO	04/14/08 0:00	lbrown							
Weight 2	4.93	g			1	GRO	04/14/08 0:00	lbrown							
Gasoline Range Organics (GRO) by GC-FID															
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.7	50	8015B	04/15/08 2:22	wbradley	Q31723						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>aaa-TFT</td> <td>65</td> <td>55 - 129</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	aaa-TFT	65	55 - 129
Surrogate	% Recovery	Control Limits													
aaa-TFT	65	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

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P25-12-12
 Prism Sample ID: 211200
 COC Group: G0408349
 Time Collected: 04/09/08 16:30
 Time Submitted: 04/11/08 8:30

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

Percent Solids	78.7	%			1	SM2540 G	04/15/08 11:15	mbarber	
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Diesel Range Organics (DRO) by GC-FID

Diesel Range Organics (DRO)	BRL	mg/kg	8.9	1.4	1	8015B	04/24/08 1:38	jvogel	Q31961
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Sample Preparation: 25.05 g / 1 mL 3545 04/22/08 16:30 wcondor P21413

Surrogate	% Recovery	Control Limits
o-Terphenyl	73	49 - 124

Sample Weight Determination

Weight 1	4.60	g			1	GRO	04/14/08 0:00	lbrown	
Weight 2	5.67	g			1	GRO	04/14/08 0:00	lbrown	

Gasoline Range Organics (GRO) by GC-FID

Gasoline Range Organics (GRO)	BRL	mg/kg	6.4	4.0	50	8015B	04/15/08 2:53	wbradley	Q31723
-------------------------------	-----	-------	-----	-----	----	-------	---------------	----------	--------

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

Level II QC Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 Project No.: 25
 WBS# 35015.1.1

COC Group Number: G0408349
 Date/Time Submitted: 4/11/200 8:30

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q31723		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	47.8	50		mg/kg	96	67-116	Q31723		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
211189 Gasoline Range Organics (GRO)	49.0	50		mg/kg	98	57-113	Q31723		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
211189 Gasoline Range Organics (GRO)	49.4	50		mg/kg	99	57-113	1	0 - 23	Q31723

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			Q31897		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	56.4	80		mg/kg	71	55-109	Q31897		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
211179 Diesel Range Organics (DRO)	57.5	80		mg/kg	72	50-117	Q31897		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	
211179 Diesel Range Organics (DRO)	54.4	80		mg/kg	68	50-117	6	0 - 24	Q31897



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

Level II QC Report

04/25/08

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/
 280 E. King St
 Project ID: NCDOT: Boone - Parcel
 25
 Project No.: WBS# 35015.1.1

COC Group Number: G0408349
 Date/Time Submitted: 4/11/200 8:30

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			Q31961		
Laboratory Control Sample									
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	QC Batch ID		
Diesel Range Organics (DRO)	59.7	80		mg/kg	75	55-109	Q31961		
Matrix Spike									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	QC Batch ID		
211199 Diesel Range Organics (DRO)	65.1	80		mg/kg	81	50-117	Q31961		
Matrix Spike Duplicate									
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
211199 Diesel Range Organics (DRO)	56.6	80		mg/kg	71	50-117	14	0 - 24	Q31961

#- See Case Narrative



Full Service Analytical & Environmental Solutions

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

Client Company Name: URS Corp project on

Report To/Contact Name: Martha Meyers-Lee

Reporting Address: 1600 Perimeter Center Dr. Suite 400

Morrisville NC 27560

Phone: 719-461-1100 Fax (Yes) (No): 719-461-1415

Email (Yes) (No) Address: Meyers-Lee@urscorp.com

EDD Type: PDF Excel Other

Site Location Name: Perceel 3.5

Site Location Physical Address: 280 E. King St.

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: NCDOT - Boone UST Project: (Yes) (No) (No)

Short Hold Analysis: (Yes) (No) (No) UST Project: (Yes) (No) (No)

*Please ATTACH any project specific reporting (QC LEVEL I II III IV)

provisions and/or QC Requirements

Invoice To: District Bill: NCDOT

Address: State project U-4020

Purchase Order No./Billing Reference URS Eminent 35015.11

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)

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
Received ON WET ICE? Temp 3.2
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

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				
P25-1-12	4-9-08	1325	Soil	G	4	2-40cc 1-80cc 1-20cc				211189
P25-2-12		1345			4					211190
P25-3-12		1400			4					211191
P25-4-12		1415			4					211192
P25-5-12		1425			4					211193
P25-6-12		1440			4					211194
P25-6-12		1455			4					211195
P25-8-12		1515			4					211196
P25-9-12		1535			4					211197
P25-10-12	4-9-08	1550	Soil	G	4	2-40cc 1-80cc 1-20cc				211198

PRISM USE ONLY

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

Additional Comments:

Date 4-9-08 Military/Hours 1430
Date 4-11-08 830
Date 4-11-08 830
COC Group No. 60408349

Sampler's Signature Kelly May Affiliation URS

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) Kelly May Received By (Signature) Daniel Moya

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Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Fed Ex UPS Hand-delivered Prism Field Service Other

NPDES: NC SC NC SC NC SC 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)

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: Martha Meyers Lew
 Reporting Address: 1600 Perimeter Park Dr. Suite 400
Morrisville NC 27560

Phone: (919) 461-1100 Fax: (919) 461-1415
 Email: (No) Email Address
 EDD Type: PDF Excel Other
 Site Location Name: Parcel 25
 Site Location Physical Address: 280 E. King St

CHAIN OF CUSTODY RECORD

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING:

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

Purchase Order No./Billing Reference: WBS Element 350514
 Requested Due Date: 1 Day 2 Days 3 Days 4 Days 5 Days
 "Working Days" 6-8 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)

LAB USE ONLY

Samples INTACT upon arrival? YES NO N/A
 Received ON WET ICE? Temp 3.2
 PROPER PRESERVATIVES indicated?
 Received WITHIN HOLDING TIMES?
 CUSTODY SEALS INTACT?
 VOLATILES rec'd W/O/T HEADSPACE?
 PROPER CONTAINERS used?

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

CLIENT 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				
P25-11-12	4-9-08	1605	Soil	6	4	400ml		2	1	Q11199
P25-12-12	4-9-08	1630	Soil	6	4	1-2oz		2	1	Q11200

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [Signature] Sampled By (Print Name): Michael Meesp Affiliation: URS
 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: 4/10/08 Military/Day's: 1450
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 4/10/08
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 4/10/08 Military/Day's: 830
 Additional Comments:
 Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
 Fed Ex UPS Hand-delivered Prism Field Service Other

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

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