P S A R E P O R T

PRELIMINARY SITE ASSESSMENT
PARCEL 11
DALE WHISENANT PROPERTY
116 WEST 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
1020 Birch Ridge Drive
Raleigh, NC 27610
Tel. (919) 250-4088

June 4, 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.

2061	6-4-8
NC License No.	Date

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

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 11, Dale Whisenant Property, located at 116 West King Street. Only the portion of Parcel 11 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 11, Dale Whisenant 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 11, Dale Whisenant Property*.
- NCDOT's March 7, 2008 *Notice to Proceed, Preliminary Site Assessment, Parcel 11, Dale Whisenant 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 at the northwest corner of the intersection of US 421 (West King Street) and US 321

(Hardin Street). The parcel lies at an elevation of approximately 3,250 feet above mean sea level (ft msl).

The owner of Parcel 11 indicated that two former gas stations have operated at this location in the past. Both former station buildings are still present on the parcel and are utilized for commercial businesses. 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 southern property boundary.

2.1 GEOPHYSICAL SURVEY

The geophysical survey for Parcel 11 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. 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

Thirteen Geoprobe® direct-push soil borings, P11-1 through P11-13, were installed on April 8, 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 (P11-1 thru P11-13) 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 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 11 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 11 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 thirteen soil borings were completed during the PSA investigation at Parcel 11. All of the borings were advanced to 12 ft bgs with the exception of P11-3, were 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 P11-1, P11-2, P11-3, P11-10, P11-11, and P11-12 and ranged from 3 to 9999+ ppm (see **Table 1**). The highest PID readings were recorded in the 0 to 4 ft bgs interval and generally decreased with depth at theses six locations.

At each of the six borings were elevated PID readings were observed, two samples were collected, a shallow sample between 2 and 4 ft bgs and 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 the six previously mentioned borings with the exception of GRO at P11-12, which was below the detection limit. GRO concentrations ranged from 32 to 4,700 mg/kg and DRO concentrations ranged from 15 to 530 mg/kg. The deeper samples were below detection levels with the exception of P11-10, which was detected at 7.6 mg/kg, below the NCDENR action level.

Based on the boring locations and current laboratory data, it appears that two separate soil impact areas exist within the proposed ROW of Parcel 11. Assuming there was two stations, and based on typical retail station layouts, these two impacted areas may correspond to the two former pump island areas. Based on field screening of soil (**Table 1**), the impacted zone is generally no deeper than 5 to 6 ft bgs. Based on a 10 mg/kg TPH level, a 5 to 6 ft thickness, and the surface areas delineated on **Figure 5**, URS estimates 825 tons of impacted soil is located within the proposed easement of Parcel 11 (note that additional impacted soil may exist between the easement and the buildings to the north). The impacted soil estimates are based on areas with approximate dimensions of 80 ft long by 12 ft wide (west area) and 70 ft long by 25 ft wide (east area) and an average depth of 5.5 ft and an estimated soil density of 1.5 tons/cubic yard.

SECTION FOUR Limitations

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

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 11,Dale Whisenant Property*, February 20, 2008

URS Corporation – North Carolina, Technical and Cost Proposal entitled: *Revised Technical and Cost Proposal, Preliminary Site Assessment, Parcel 11 Dale Whisenant Property*, March 7, 2008

North Carolina Department of Transportation, *Notice to Proceed - Preliminary Site Assessment, Parcel 107, Dale Whisenanat Property*, March 7, 2008

Tables

Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 11
DALE WHISENANT PROPERTY
116 WEST KING STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD SCREENING	LABORATORY ANALYSES TPH RANGE ORGANICS		
LOCATION	**DATE**	**DEPTH (ft bgs)**	**PID (ppm)**	**GRO (mg/kg)**	**DRO (mg/kg)**	**USCS LITHOLOGY**
P11-1	04/08/08	2.	ND	-	-	
		4.	71.4	**32.**	**530.**	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.9)	ND (1.4)	
P11-2	04/08/08	2.	9,999	-	-	
		4.	1,047	**4,700.**	**63.**	
		6.	20	-	-	SM
		8.	67	-	-	
		10.	15	-	-	
		12.	ND	ND (3.8)	ND (1.4)	
P11-3	04/08/08	2.	4,000	**650.**	**76.**	
		4.	ND	-	-	SM
		6.	ND	-	-	
		8.	ND	ND (4.0)	ND (1.4)	
P11-4	04/08/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	ND (1.4)	
P11-5	04/08/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.5)	ND (1.2)	
P11-6	04/08/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.0)	ND (1.4)	
P11-7	04/08/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.9)	ND (1.4)	
P11-8	04/08/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.0)	ND (1.4)	

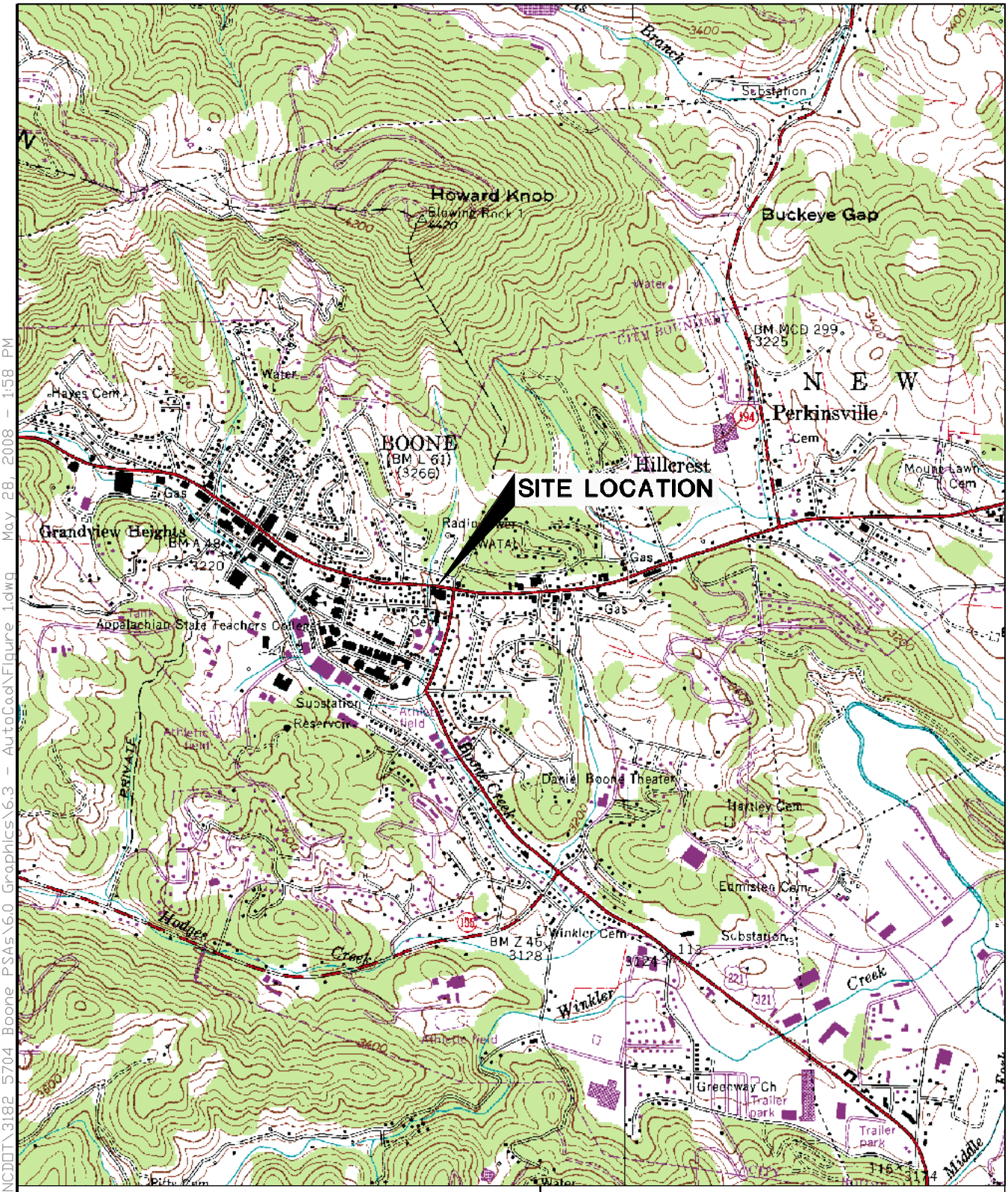
Table 1
SUMMARY OF SOIL ANALYTICAL RESULTS
PARCEL 11
DALE WHISENANT PROPERTY
116 WEST KING STREET
BOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD SCREENING	LABORATORY ANALYSES TPH RANGE ORGANICS		
LOCATION	**DATE**	**DEPTH (ft bgs)**	**PID (ppm)**	**GRO (mg/kg)**	**DRO (mg/kg)**	**USCS LITHOLOGY**
P11-9	04/08/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.7)	ND (1.3)	
P11-10	04/08/08	2.	20.7	-	-	SM
		4.	3,434	**690.**	**67.**	
		6.	5.1	-	-	
		8.	3.0	-	-	
		10.	16.1	-	-	
		12.	ND	7.6	ND (1.4)	
P11-11	04/08/08	2.	ND	-	-	SM
		4.	663	**130.**	**110.**	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	25.2	-	-	
		12.	ND	ND (4.1)	ND (1.5)	
P11-12	04/08/08	2.	ND	-	-	SM
		4.	2,195	ND (3.7)	**15.**	
		6.	119	-	-	
		8.	20	-	-	
		10.	20	-	-	
		12.	ND	ND (4.0)	ND (1.4)	
P11-13	04/08/08	2.	ND	-	-	SM
		4.	ND	-	-	
		6.	ND	-	-	
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	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



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

FIGURE 1. LOCATION MAP

PARCEL 11, 116 W. KING STREET
BOONE, NORTH CAROLINA

Prepared for: NC DOT	URS RDU, NORTH CAROLINA 27560
DRAWN BY: TSH	
DATE: 05/01/08	
PROJECT NO. 31825704	Fig. 1

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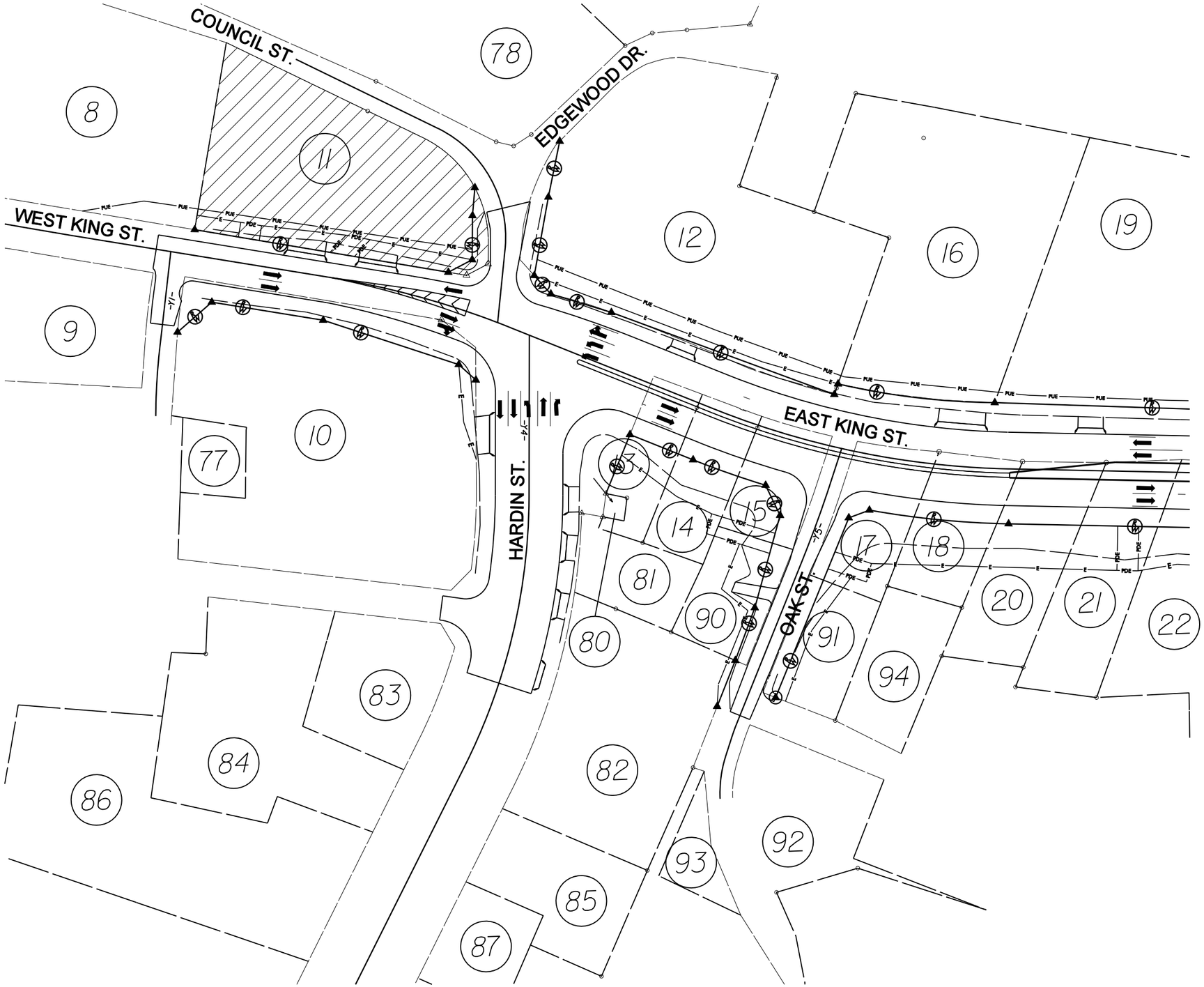


SCALE:
50' 0 100'

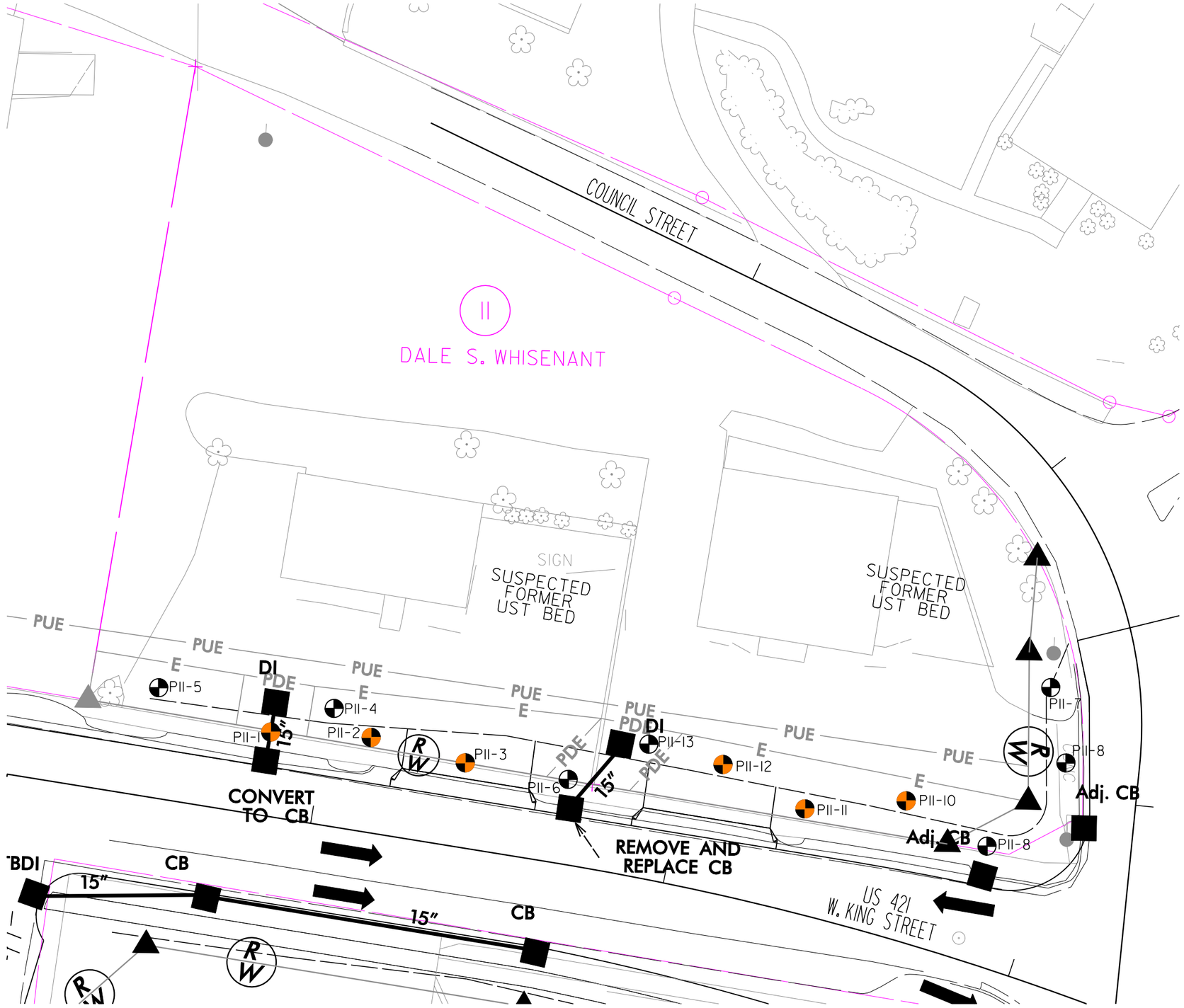
US 421 WIDENING PROJECT
FROM US 221 TO US 321
BOONE, NORTH CAROLINA

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

- PII-I - SOIL BORING LOCATION
- BORING CONTAINED PID RESPONSE
- PROPOSED RIGHT-OF-WAY
- E — PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE

NOTES

DRO - DIESEL RANGE ORGANICS
GRO - GASOLINE RANGE ORGANICS
PDE - PERMANENT DRAINAGE EASEMENT
PUE - PERMANENT UTILITY EASEMENT
CB - CATCH BASIN
DI - DROP INLET

SUMMARY OF DETECTIONS IN Mg/kg

ID	DEPTH	GRO	DRO
PII-1	4'	32	530
PII-2	4'	4700	63
PII-3	2'	650	76
PII-10	4'	690	67
PII-10	12'	7.6	ND
PII-11	4'	130	110
PII-12	4'	ND	15

SCALE: 15' 0 30'

PARCEL II
DALE S. WHISENANT PROPERTY
EAST KING ST & EDGEWOOD DR
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: U-4020
	CHECKED BY: VK	DATE: 6-5-08	

SOIL SAMPLING LOCATIONS

FIGURE FIG-03

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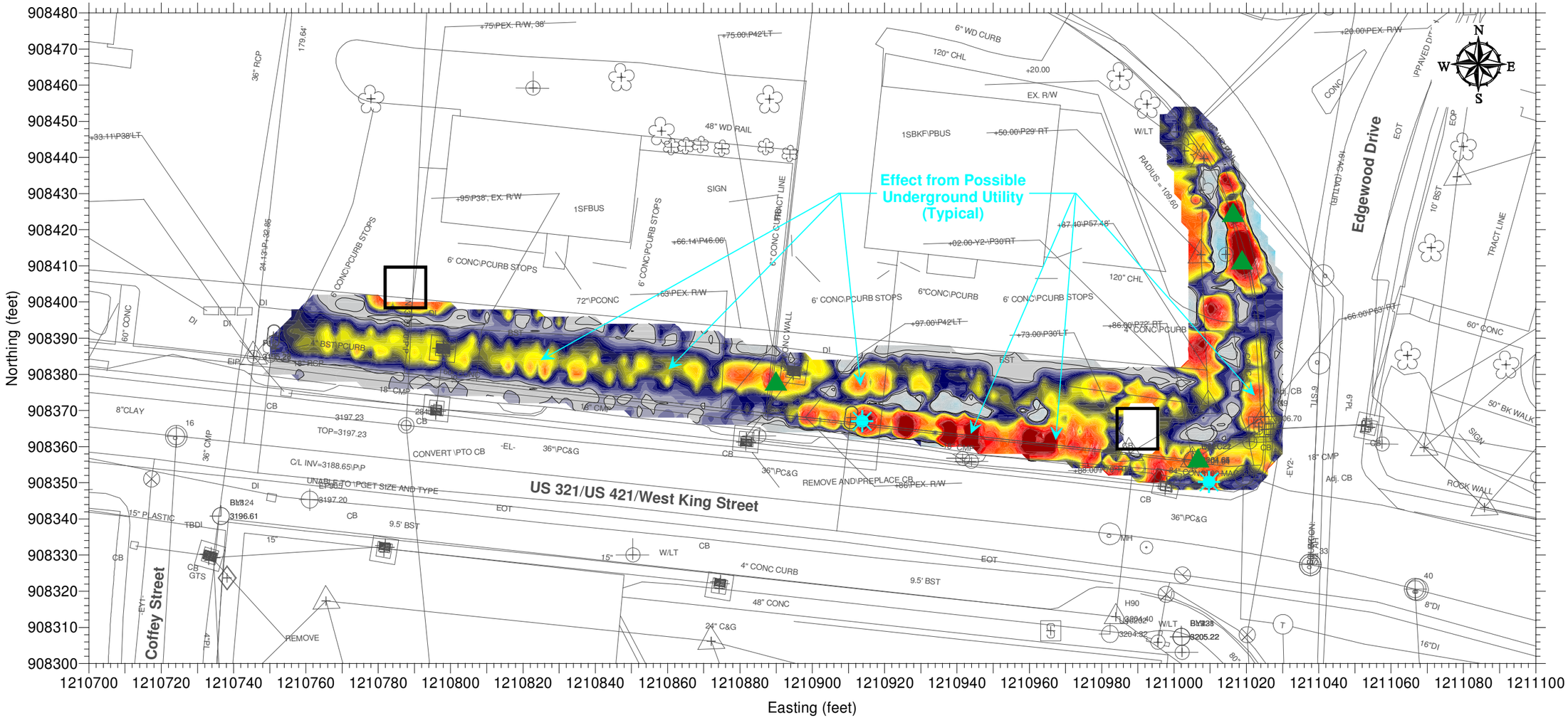
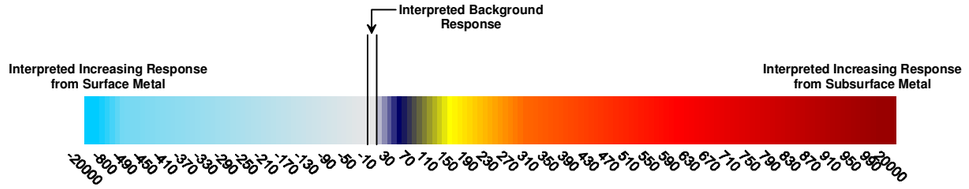


Legend

- Utility Feature
- Pole/Light/Sign
- Vehicle

1 inch = 30 feet

0' 10' 20' 30' 40' 50' 60'



EM-61 MKII Channel 3 Response Contours

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. Verification GPR survey conducted across extent of the survey area as deemed necessary to investigate widespread high amplitude EM-61 responses. No additional anomalies indicative of USTs interpreted from GPR results.

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

Geophysical Investigation Results
Parcel #11

NCDOT State Project U-4020, Watauga County

Boone, North Carolina

DESIGNED BY		DRAWN BY		CHECKED BY		JOB NUMBER	Figure
MAB	03/31/08	MAB	03/31/08	TJK	04/25/08	31825704	4

II DALE S. WHISENANT

SIGN

SUSPECTED FORMER UST BED

SUSPECTED FORMER UST BED

PUE E PDE DI PII-5 PII-1 15" PII-4 PII-2 RW PII-3 PII-6 PII-13 PII-12 PII-11 PII-10 CONVERT TO CB REMOVE AND REPLACE CB CB 15" CB US 421 W. KING STREET

LEGEND

- PII-1 - 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

DRO - DIESEL RANGE ORGANICS
GRO - GASOLINE RANGE ORGANICS
PDE - PERMANENT DRAINAGE EASEMENT
PUE - PERMANENT UTILITY EASEMENT
CB - CATCH BASIN
DI - DROP INLET

SCALE: 10' 0 20'

PARCEL II
DALE S. WHISENANT PROPERTY
EAST KING ST & EDGEWOOD DR
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	

IMPACTED SOIL MAP — FIGURE FIG-05

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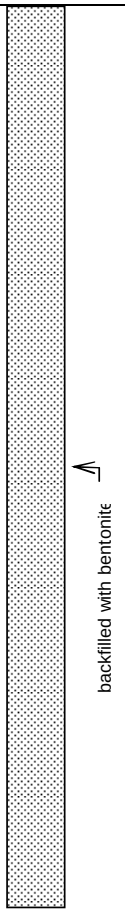
Appendix A
Soil Boring Logs

BORING LOG: P11-1

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				0.0 ppm		
2				71.4 ppm		
4	P11-1-4	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	P11-1-12	12'			Bottom of boring	



Not to Scale

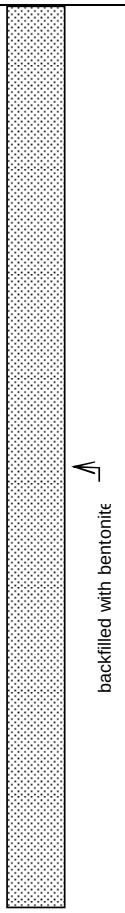
Notes:

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

BORING LOG: P11-2

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				9999 ppm		
2				1047 ppm		
4	P11-2-4	4'		20 ppm		
6				67 ppm	loose, dry, light brown, silty Sand (SM), mica	
8				15 ppm		
10				0.0 ppm		
12	P11-2-12	12'			Bottom of boring	



Not to Scale

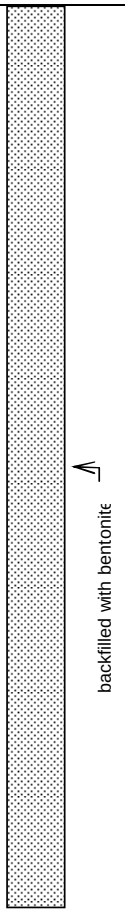
Notes:

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

BORING LOG: P11-3

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				4000 ppm		
2	P11-3-2	2'				
				0.0 ppm		
4					loose, dry, light brown, silty Sand (SM), mica	
				0.0 ppm		
6						
				0.0 ppm		
8	P11-3-8	8'			Refusal at 8'	
10						
12						



Not to Scale

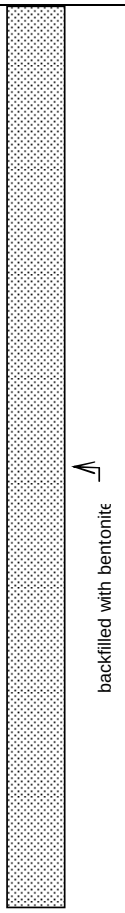
Notes:

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

BORING LOG: P11-4

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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), asphalt	
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	P11-4-12	12'			Bottom of boring	



Not to Scale

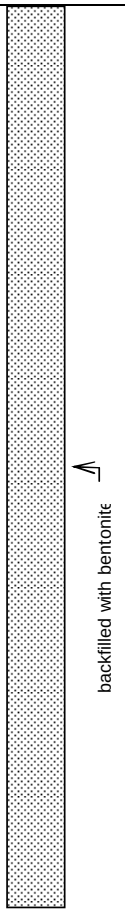
Notes:

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

BORING LOG: P11-5

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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), asphalt	
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	P11-5-12	12'			Bottom of boring	



Not to Scale

Notes:

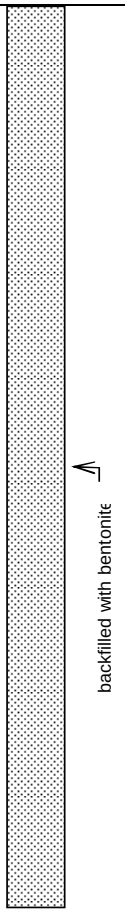
Geologist: ***Michael Meese*** Driller: ***SAEDACCO***

BORING LOG: P11-6

Permit #		Drill Date	*04/08/08*	Site	*Parcel 11*
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
0				0.0 ppm	loose, dry, light brown, silty Sand (SM), asphalt
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	P11-6-12	12'			Bottom of boring

Typical Diagram



Not to Scale

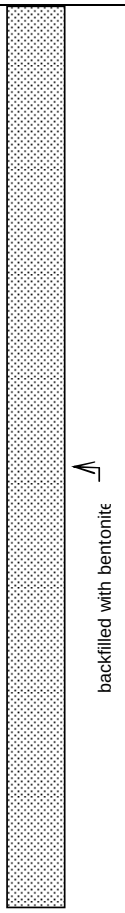
Notes:

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

BORING LOG: P11-7

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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), organics	
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	P11-7-12	12'			Bottom of boring	



Not to Scale

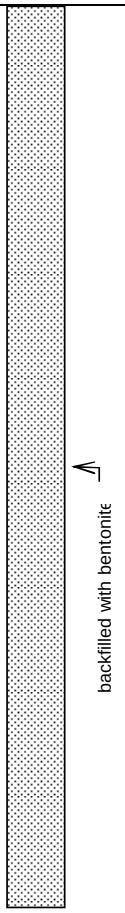
Notes:

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

BORING LOG: P11-8

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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), asphalt	
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	P11-8-12	12'			Bottom of boring	



Not to Scale

Notes:

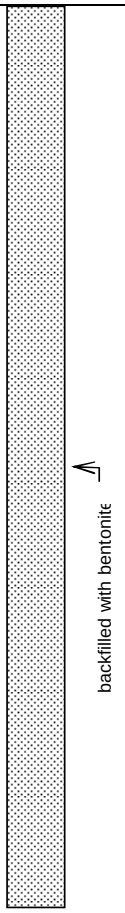
Geologist: ***Michael Meese*** Driller: ***SAEDACCO***

BORING LOG: P11-9

Permit #		Drill Date	*04/08/08*	Site	*Parcel 11*
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
0				0.0 ppm	loose, dry, light brown, silty Sand (SM), asphalt
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	P11-9-12	12'			Bottom of boring

Typical Diagram



Not to Scale

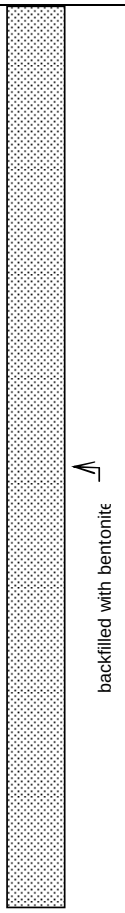
Notes:

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

BORING LOG: P11-10

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				20.7 ppm		
2				3434 ppm		
4	P11-10-4	4'		5.1 ppm		
6				3.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
8				16.1 ppm		
10				0.0 ppm		
12	P11-10-12	12'			Bottom of boring	



Not to Scale

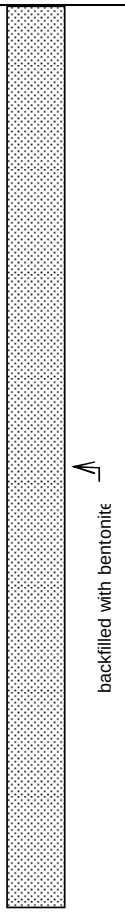
Notes:

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

BORING LOG: P11-11

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				0.0 ppm		
2				663 ppm		
4	P11-11-4	4'		0.0 ppm		
6				0.0 ppm	loose, dry, light brown, silty Sand (SM), mica	
8				25.2 ppm		
10				0.0 ppm		
12	P11-11-12	12'			Bottom of boring	



Not to Scale

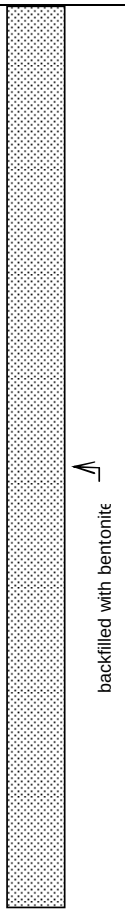
Notes:

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

BORING LOG: P11-12

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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					loose, dry, light brown, silty Sand (SM), asphalt	
				0.0 ppm		
2				2195 ppm		
4	P11-12-4	4'		119 ppm		
6				20 ppm	loose, dry, light brown, silty Sand (SM), mica	
8				20 ppm		
10				0.0 ppm		
12	P11-12-12	12'			Bottom of boring	



Not to Scale

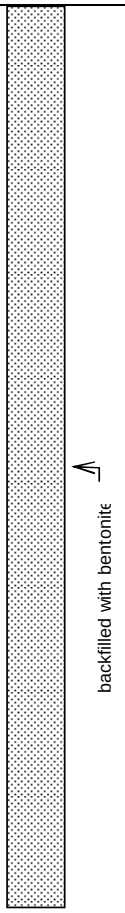
Notes:

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

BORING LOG: P11-13

Permit #		Drill Date	***04/08/08***	Site	***Parcel 11***
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), asphalt	
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	P11-13-12	12'			Bottom of boring	



Not to Scale

Notes:

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

Appendix B
Laboratory Report

PRISM
LABORATORIES,INC.

Case Narrative

Date: 04/22/08
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 11
Prism COC Group No: G0408281
Collection Date(s): 04/08/08
Lab Submittal Date(s): 04/09/08

Client Project Name Or No: State Project: U-4020/ 116 W. King

This data package contains the analytical results for the project identified above and includes a Case Narrative, Laboratory Report and Quality Control Data totaling 21 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

Analysis Note for Q31875 MSD Diesel Range Organics (DRO): MSD recovery outside the control limits. Matrix interference is suspected.

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
Signature: Robbi A. Jones
Review Date: 04/22/08

Project Manager: Robbi A. Jones
Signature: Robbi A. Jones
Approval Date: 04/22/08

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.

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-1-4
Prism Sample ID: 210969
COC Group: G0408281
Time Collected: 04/08/08 9:00
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**90.5**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**530**	mg/kg	76	12	10	8015B	04/21/08 14:43	jvogel	Q31875
Sample Preparation:				25.3 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	104	49 - 124

Sample Weight Determination									
Weight 1	**5.51**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.70**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**32**	mg/kg	5.5	3.5	50	8015B	04/13/08 21:17	wbradley	Q31689

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

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

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-1-12
Prism Sample ID: 210970
COC Group: G0408281
Time Collected: 04/08/08 9:10
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**81.1**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.5	1.4	1	8015B	04/18/08 22:59	jvogel	Q31875
Sample Preparation:			25.25 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	96	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**4.94**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.44**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.2	3.9	50	8015B	04/13/08 21:50	wbradley	Q31689

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

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-2-4
Prism Sample ID: 210971
COC Group: G0408281
Time Collected: 04/08/08 9:30
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.5**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**63**	mg/kg	8.5	1.4	1	8015B	04/21/08 12:27	jvogel	Q31875
Sample Preparation:			25.04 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	113	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**5.77**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**6.40**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**4700**	mg/kg	120	75	1000	8015B	04/14/08 14:23	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	DO #	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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Laboratory Report

04/22/08

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c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-2-12
Prism Sample ID: 210972
COC Group: G0408281
Time Collected: 04/08/08 9:40
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.0**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.5	1.4	1	8015B	04/18/08 23:36	jvogel	Q31875
Sample Preparation:			25.08 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	94	49 - 124

Sample Weight Determination									
Weight 1	**5.29**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.24**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.1	3.8	50	8015B	04/13/08 22:21	wbradley	Q31689

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

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All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

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PRISM LABORATORIES, INC.
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NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert. No. 37735

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-3-2
Prism Sample ID: 210973
COC Group: G0408281
Time Collected: 04/08/08 10:10
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.4**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**76**	mg/kg	8.4	1.4	1	8015B	04/19/08 8:42	jvogel	Q31875
* Analysis Note for Diesel Range Organics (DRO): surrogate recovery was outside of the control limits. Matrix interference is suspected.									
Sample Preparation:			25.27 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	146 #	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**4.53**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.17**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**650**	mg/kg	61	38	500	8015B	04/14/08 13:13	wbradley	Q31689

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

Sample Comment(s):

BRL = Below Reporting Limit

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04/22/08

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-3-8
Prism Sample ID: 210974
COC Group: G0408281
Time Collected: 04/08/08 10:15
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**79.1**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.8	1.4	1	8015B	04/19/08 9:20	jvogel	Q31875
Sample Preparation:				25.1 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	94	49 - 124

Sample Weight Determination									
Weight 1	**5.54**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.45**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.3	4.0	50	8015B	04/13/08 22:53	wbradley	Q31689

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

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-4-12
Prism Sample ID: 210975
COC Group: G0408281
Time Collected: 04/08/08 10:45
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**83.4**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.4	1.4	1	8015B	04/19/08 9:57	jvogel	Q31875
Sample Preparation:			25.08 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	83	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**4.96**	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	**5.01**	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.0	3.8	50	8015B	04/13/08 23:24	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	78	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-5-12
Prism Sample ID: 210976
COC Group: G0408281
Time Collected: 04/08/08 11:40
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**90.2**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	7.7	1.2	1	8015B	04/19/08 10:35	jvogel	Q31875
Sample Preparation:			25.12 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	107	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**4.73**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**4.84**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	5.5	3.5	50	8015B	04/13/08 23:56	wbradley	Q31689

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

04/22/08

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Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-6-12
Prism Sample ID: 210977
COC Group: G0408281
Time Collected: 04/08/08 12:00
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**78.7**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.7	1.4	1	8015B	04/19/08 11:13	jvogel	Q31875
Sample Preparation:			25.43 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	104	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**5.28**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.33**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.4	4.0	50	8015B	04/14/08 0:28	wbradley	Q31689

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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Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-7-12
Prism Sample ID: 210978
COC Group: G0408281
Time Collected: 04/08/08 12:15
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.4**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.5	1.4	1	8015B	04/19/08 11:51	jvogel	Q31875
Sample Preparation:			25.62 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	97	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**5.01**	g			1	GRO	04/21/08 0:00	Athao	
Weight 2	**5.26**	g			1	GRO	04/21/08 0:00	Athao	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.2	3.9	50	8015B	04/14/08 0:59	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	64	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

04/22/08

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-8-12
Prism Sample ID: 210979
COC Group: G0408281
Time Collected: 04/08/08 12:30
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**78.3**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.9	1.4	1	8015B	04/19/08 12:29	jvogel	Q31875
Sample Preparation:			25.01 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	102	49 - 124

Sample Weight Determination									
Weight 1	**5.01**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**4.80**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.4	4.0	50	8015B	04/14/08 1:31	wbradley	Q31689

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

04/22/08

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1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-9-12
Prism Sample ID: 210980
COC Group: G0408281
Time Collected: 04/08/08 13:25
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**84.9**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.1	1.3	1	8015B	04/19/08 13:06	jvogel	Q31875
Sample Preparation:				25.37 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	101	49 - 124

Sample Weight Determination									
Weight 1	**4.72**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.11**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	5.9	3.7	50	8015B	04/14/08 2:02	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	113	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-10-4
Prism Sample ID: 210981
COC Group: G0408281
Time Collected: 04/08/08 13:45
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**80.2**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**67**	mg/kg	8.7	1.4	1	8015B	04/19/08 13:44	jvogel	Q31875
Sample Preparation:			25.16 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	114	49 - 124

Sample Weight Determination									
Weight 1	**5.74**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.34**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**690**	mg/kg	120	77	1000	8015B	04/14/08 16:19	wbradley	Q31689

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

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-10-12
Prism Sample ID: 210982
COC Group: G0408281
Time Collected: 04/08/08 13:50
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**82.2**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.5	1.4	1	8015B	04/19/08 14:22	jvogel	Q31875
Sample Preparation:			25.01 g	/	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	96	49 - 124

Sample Weight Determination									
Weight 1	**4.98**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**4.81**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**7.6**	mg/kg	6.1	3.8	50	8015B	04/14/08 3:06	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	81	55 - 129

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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Morrisville, NC 27560

Project Name: State Project: U-4020/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-11-4
Prism Sample ID: 210983
COC Group: G0408281
Time Collected: 04/08/08 14:15
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**74.7**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**110**	mg/kg	9.3	1.5	1	8015B	04/21/08 11:49	jvogel	Q31875
Sample Preparation:				25.3 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	114	49 - 124

Sample Weight Determination									
Weight 1	**6.11**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.86**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**130**	mg/kg	6.7	4.2	50	8015B	04/14/08 3:37	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	98	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

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

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-11-12
Prism Sample ID: 210984
COC Group: G0408281
Time Collected: 04/08/08 14:20
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**77.1**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	9.0	1.5	1	8015B	04/19/08 15:00	jvogel	Q31875
Sample Preparation:				25.18 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

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

Sample Weight Determination									
Weight 1	**5.73**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.82**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.5	4.1	50	8015B	04/14/08 10:49	wbradley	Q31689

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

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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-12-4
Prism Sample ID: 210985
COC Group: G0408281
Time Collected: 04/08/08 14:40
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**84.4**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**15**	mg/kg	8.1	1.3	1	8015B	04/21/08 11:12	jvogel	Q31875
Sample Preparation:				25.47 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

Surrogate	% Recovery	Control Limits
o-Terphenyl	113	49 - 124

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**5.71**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.77**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	5.9	3.7	50	8015B	04/14/08 11:21	wbradley	Q31689

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

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

PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-12-12
Prism Sample ID: 210986
COC Group: G0408281
Time Collected: 04/08/08 14:45
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**78.4**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.9	1.4	1	8015B	04/19/08 15:38	jvogel	Q31875
Sample Preparation:					25.14 g / 1 mL	3545	04/17/08 17:40	wconder	P21369

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

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Sample Weight Determination									
Weight 1	**5.50**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**5.43**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.4	4.0	50	8015B	04/14/08 12:10	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	78	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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PRISM LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

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

Laboratory Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1
Sample Matrix: Soil

Client Sample ID: P11-13-12
Prism Sample ID: 210987
COC Group: G0408281
Time Collected: 04/08/08 15:10
Time Submitted: 04/09/08 15:50

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination									
Percent Solids	**81.5**	%			1	SM2540 G	04/11/08 14:00	mbarber	
Diesel Range Organics (DRO) by GC-FID									
Diesel Range Organics (DRO)	**BRL**	mg/kg	8.6	1.4	1	8015B	04/19/08 16:15	jvogel	Q31875
Sample Preparation:				25.1 g /	1 mL	3545	04/17/08 17:40	wconder	P21369

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

Sample Weight Determination									
Weight 1	**4.88**	g			1	GRO	04/11/08 0:00	lbrown	
Weight 2	**4.89**	g			1	GRO	04/11/08 0:00	lbrown	
Gasoline Range Organics (GRO) by GC-FID									
Gasoline Range Organics (GRO)	**BRL**	mg/kg	6.1	3.8	50	8015B	04/14/08 12:41	wbradley	Q31689

Surrogate	% Recovery	Control Limits
aaa-TFT	87	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

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

Full Service Analytical & Environmental Solutions

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

Level II QC Report

04/22/08

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/ 116 W. King St
Project ID: NCDOT: Boone - Parcel 11
Project No.: WBS# 35015.1.1

COC Group Number: G0408281
Date/Time Submitted: 4/9/2008 15:50

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

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg	Q31689

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Gasoline Range Organics (GRO)	51	50	mg/kg	102	67-116	Q31689

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
210969 Gasoline Range Organics (GRO)	74.7	50	mg/kg	92	57-113	Q31689

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210969 Gasoline Range Organics (GRO)	76	50	mg/kg	95	57-113	2	0 - 23	Q31689

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

Method Blank	Result	RL	Control Limit	Units	QC Batch ID
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg	Q31875

Laboratory Control Sample	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
Diesel Range Organics (DRO)	77.4	80	mg/kg	97	55-109	Q31875

Matrix Spike Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	QC Batch ID
210969 Diesel Range Organics (DRO)	568	80	mg/kg	111	50-117	Q31875

Matrix Spike Duplicate Sample ID:	Result	Spike Amount	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
210969 Diesel Range Organics (DRO)	505	80	mg/kg	33 #	50-117	12	0 - 24	Q31875

#-See Case Narrative

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

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: URS Corporation
Report To/Contact Name: Martha Meyers-Lee
Reporting Address: 1600 Perimeter Park Dr. Suite 400 Morrisville, NC, 27560
Phone: (919) 461-1100 Fax (Yes) (No): (919) 461-1415
Email (Yes) (No) Email Address: Martha_Meyers-Lee@URScorp.com
EDD Type: PDF ___ Excel ✓ Other ___
Site Location Name: Pincel 11
Site Location Physical Address: 116 W. King St.

Project Name: NCDOT: 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: 35015.1.1

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 15:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE? Temp 5.7	✓		
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 Y
Sample Iced Upon Collection: YES X NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH: GRO	TPH: DRO	% Solids				REMARKS	PRISM LAB ID NO.
P11-1-4	4-8-08	0900	Soil	G	4	2-40ml 1-8oz 1-20z		2	1	1					210969
P11-1-12		0910						2	1	1					210970
P11-2-4		0930						2	1	1					210971
P11-2-12		0940						2	1	1					210972
P11-3-2		1010						2	1	1					210973
P11-3-8		1015						2	1	1					210974
P11-4-12		1045						2	1	1					210975
P11-5-12		1140						2	1	1					210976
P11-6-12		1200						2	1	1					210977
P11-7-12		1215						2	1	1					210978

Sampler's Signature Michael Meese Sampled By (Print Name) Michael Meese Affiliation URS Corp

PRESS DOWN FIRMLY - 3 COPIES

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.

		Date	Military/Hours
Relinquished By: (Signature) Kelly May	Received By: (Signature) David Morris	4-9-08	0916
Relinquished By: (Signature) David Morris 4-9-08 1550	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 4/9/08	1550

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 ___

COC Group No. G0408281

Additional Comments:

PRISM USE ONLY

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

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

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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

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 II III IV) provisions and/or QC Requirements

Invoice To: Direct Bill : NCDOT

Address: State Project: U-4020

Purchase Order No./Billing Reference WBS Elem.#: 35015.1.1

Client Company Name: URS Corporation
Report To/Contact Name: Martha Meyers-Lee
Reporting Address: 1600 Perimeter Park Dr. Suite 400 Morrisville, NC, 27560
Phone (919) 461-1100 Fax (Yes) (No) (919) 461-1415
Email (Yes) (No) Email Address Martha.Meyers-Lee@URSCorp.com
EDD Type: PDF ___ Excel V Other ___
Site Location Name: Parcel 11
Site Location Physical Address: 116 W. King St.

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 5-7	✓		
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 *TYPE SEE BELOW	SAMPLE CONTAINER NO.	SAMPLE CONTAINER SIZE	PRESERVATIVES	ANALYSES REQUESTED TPH: GRO	TPH: DRO	% Solids				REMARKS	PRISM LAB ID NO.
P11-8-12	4-8-08	1230	Soil	G	4	2 = 40ml 1 = 8oz 1 = 2oz		2	1	1					210979
P11-9-12		1325			4			2	1	1					210980
P11-10-4		1345			4			2	1	1					210981
P11-10-12		1350			4			2	1	1					210982
P11-11-4		1415			4			2	1	1					210983
P11-11-12		1420			4			2	1	1					210984
P11-12-4		1445			4			2	1	1					210985
P11-12-12		1445			4			2	1	1					210986
P11-13-12		1510			4			2	1	1					210987

Sampler's Signature _____ Sampled By (Print Name) Michael Meese Affiliation URS Corp.

PRESS DOWN FIRMLY - 3 COPIES

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.

		Date	Military/Hours
Relinquished By: (Signature) Kelly Nay	Received By: (Signature)	4-9-08	0916
Relinquished By: (Signature) 4-9-08 1550	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 4/9/08	1550

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 _____

COC Group No. G040329

Additional Comments:

PRISM USE ONLY

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

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