PSA REPORT

PRELIMINARY SITE ASSESSMENT PARCEL 15 ANDREA MCDONOUGH PROPERTY 154 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 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.

Watto Value 2061	

Walter Plekan, L.G.

Project Manager

URS Corporation - North Carolina

2061

NC License No.

SECTIONONE Introduction

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 15, Andrea Mcdonough Property, located at 154 East King Street. The entire Parcel 15 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:
 <u>Request for Technical and Cost Proposal, Preliminary Site Assessment, Parcel 15, Andrea Mcdonough Property</u>. 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: <u>Revised Technical and Cost Proposal</u>, <u>Preliminary Site Assessment</u>, <u>Parcel 15</u>, <u>Andrea Mcdonough Property</u>.
- NCDOT's March 7, 2008 <u>Notice to Proceed, Preliminary Site Assessment, Parcel 15, Andrea Mcdonough Property.</u>

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) at the southwest corner of East King and Oak Streets. The two story stone building is currently a State Farm Insurance Office.

SECTIONONE Introduction

The parcel lies at an elevation of approximately 3,250 feet above mean sea level (ft msl) and slopes from East King Street to the south and the rear property line allowing two story construction in the rear of the building. No existing monitoring wells were noted during the Site visit; however, one fuel oil UST was noted onsite as shown in **Figure 3**. The UST is located on the east side of the building, under some hedges, near the entrance of the lower elevation of the building. The area of interest is the entire parcel for the proposed ROW.



2.1 GEOPHYSICAL SURVEY

The geophysical survey for Parcel 15 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 infield 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

Ten Geoprobe[®] direct-push soil borings, P15-1 through P15-10, were installed on April 10, 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 (P15-1 thru P15-10) 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

SECTIONTWO

Methods of Investigation

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 <u>Contract Laboratory Program National</u> <u>Functional Guidelines for Organic Data Review</u> (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 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 no unusual EM anomalies indicative of USTs at Parcel 15. However, the EM-61 results indicated widespread areas of elevated responses, particularly to the north of the building, which is likely the presence of reinforcement beneath the asphalt pavement. Follow-up GPR surveying was therefore conducted across the full extents of the parcel to further evaluate the potential presence of USTs in this area. The GPR survey did not indicate the presence of any additional USTs, beyond the UST identified during the Site visit as noted above and shown on **Figures 3, 4,** and **5**.

As mentioned above, a fill port and vent pipe were visually observed at Parcel 15, indicating the presence of an existing UST at the site. Geophysical surveying was not completed over the suspected UST due to the presence of landscaping features. Therefore, the extent of the UST could not be determined.

A total of ten soil borings were advanced to a depth of 12 ft bgs during the PSA investigation at Parcel 15. 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 readings are summarized in **Table 1**, and a PID response was not observed to be present in any of the soil samples collected. Laboratory results (TPH as GRO and DRO) of soil samples collected from each soil boring are also summarized in **Table 1** along with the Unified Soil Classification System (USCS) lithology for each interval. The complete laboratory report is included in **Appendix B**.

TPH as GRO was detected in four samples (P15-6, P15-8, P-15-9., and P-15-10), however the reported concentration range of these samples, 3.9 to 4.6 milligrams per kilogram (mg/kg), is below the NCDENR action level of 10 mg/kg for GRO.

DRO was detected in five samples (P15-2, P15-6, P15-7, P15-8, and P-15-9) of which several locations correlate with the GRO detections. The DRO concentrations ranged from 1.4 to 17 mg/kg. The detected DRO concentration of 17 mg/kg reported in P15-2 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. An UST was found on Parcel 15 but the tank is downgradient of the DRO detection at P15-2 and the one soil sample (P15-6) collected adjacent to the known UST was 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.

SECTIONFOUR 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.

SECTIONFIVE References

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

- North Carolina Department of Transportation, <u>Request for Technical and Cost Proposal</u>, <u>Preliminary Site Assessment, Parcel 15, Andrea Mcdonough Property</u>, February 20, 2008
- URS Corporation North Carolina, Technical and Cost Proposal entitled: <u>Revised Technical</u> <u>and Cost Proposal, Preliminary Site Assessment, Parcel 15, Andrea Mcdonough</u> <u>Property</u>, March 7, 2008
- North Carolina Department of Transportation, <u>Notice to Proceed Preliminary Site Assessment</u>, <u>Parcel 15, Andrea Mcdonough Property</u>, March 7, 2008

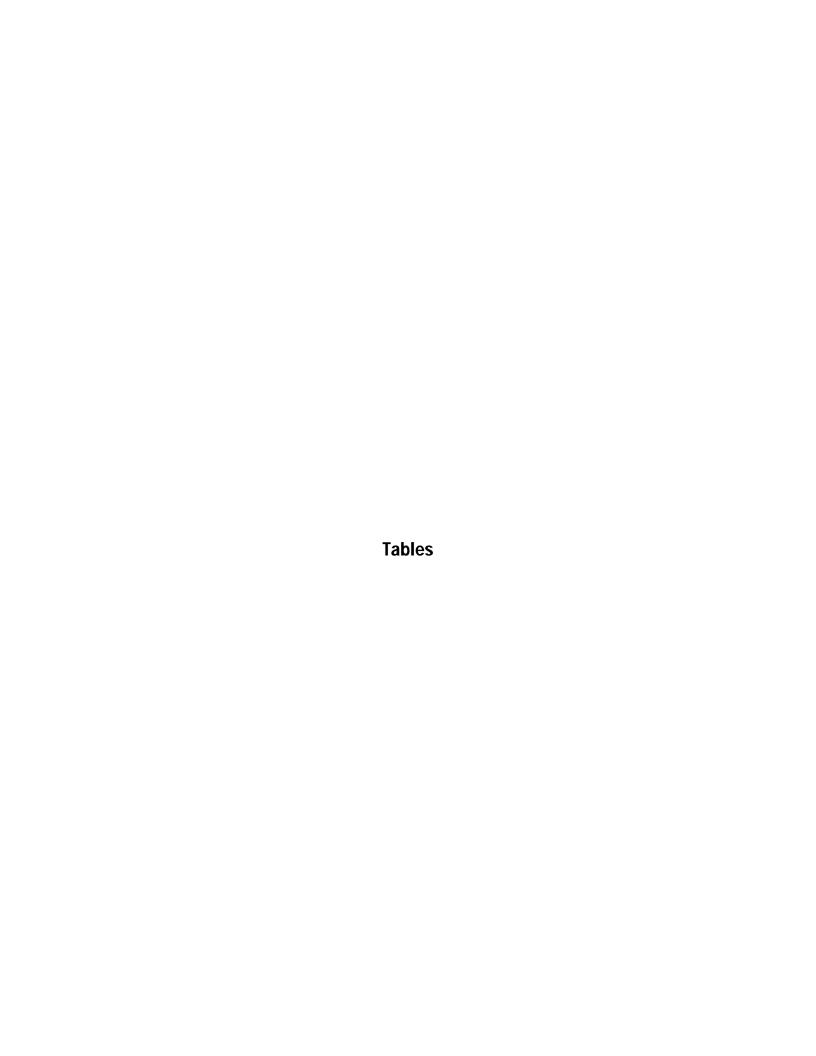


Table 1 SUMMARY OF SOIL ANALYTICAL RESULTS PARCEL 15

ANDREA McDONOUGH PROPERTY 154 EAST KING STREET BOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD	LABORATOR	RY ANALYSES	ı
			SCREENING		ORGANICS	•
		DEPTH	PID	GRO	DRO	USCS
LOCATION	DATE				_	
	04/40/00	(ft bgs)	(ppm) ND	(mg/kg)	(mg/kg)	LITHOLOGY
P15-1	04/10/08	2.		-	-	
		4.	ND ND	-	-	
	•	6.	ND	-	-	SM
		8.	ND ND	-	-	
	•	10.	ND	- ND (0.0)	-	
		12.	ND	ND (3.8)	ND (1.4)	
	04/10/08	2.	ND I		l e	
P15-2	04/10/06	<u> </u>	ND ND	-	- -	ł
						ł
		6.	ND ND	-	-	SM
	•	8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (3.8)	17.	
	0.4/4.0/00		I ND I		T	
P15-3	04/10/08	2.	ND	-	-	
	•	4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.4)	ND (1.6)	
	0.4/4.0/00		l ND I			
P15-4	04/10/08	2.	ND	-	-	
		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	
		10.	ND	-	-	
		12.	ND	ND (4.4)	ND (1.6)	
	0.4/4.0/00		I ND I		T	
P15-5	04/10/08	2.	ND ND	-	-	
	•	4.	ND	-	-	
	•	6.	ND	-	-	SM
	•	8.	ND	-	-	
	•	10.	ND	- ND (0.7)	- ND (4.0)	
		12.	ND	ND (3.7)	ND (1.3)	
	04/10/08	2	ND I			
P15-6	04/10/08	2. 4.	ND ND	-	-	1
				-	-	1
		6.	ND ND	-	-	SM
		8.	ND	-	-	1
		10.	ND	- 4 4	- 1 F	1
		12.	ND	4.1	1.5	
	04/10/08	2.	ND	-	-	
P15-7	0-7/10/00	4.	ND ND	-	-	1
	<u> </u>	6.	ND ND	-	-	1
	ŀ	8.	ND ND	-	-	SM
	<u> </u>	10.	ND ND	-	-	1
	<u> </u>	12.	ND ND	ND (3.6)	5.3 J	1
		14.	טויו	(ט.ט)	J.3 J	l

Table 1 SUMMARY OF SOIL ANALYTICAL RESULTS PARCEL 15

ANDREA McDONOUGH PROPERTY 154 EAST KING STREET BOONE, WATAUGA COUNTY, NORTH CAROLINA

			FIELD		RY ANALYSES	
			SCREENING		ORGANICS	
LOCATION	DATE	DEPTH	PID	GRO	DRO	USCS
LOOKHOK	DAIL	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)	LITHOLOGY
P15-8	04/10/08	2.	ND	-	-	
1 13-0		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	Sivi
		10.	ND	-	-	
		12.	ND	3.9	1.4	
P15-9	04/10/08	2.	ND	-	-	
F 15-9		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	Sivi
		10.	ND	-	-	
		12.	ND	4.2	1.5	
P15-10	04/10/08	2.	ND	-	-	
F 13-10		4.	ND	-	-	
		6.	ND	-	-	SM
		8.	ND	-	-	SIVI
		10.	ND	-	-	
		12.	ND	4.6	ND (1.6)	

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

J - Estimated

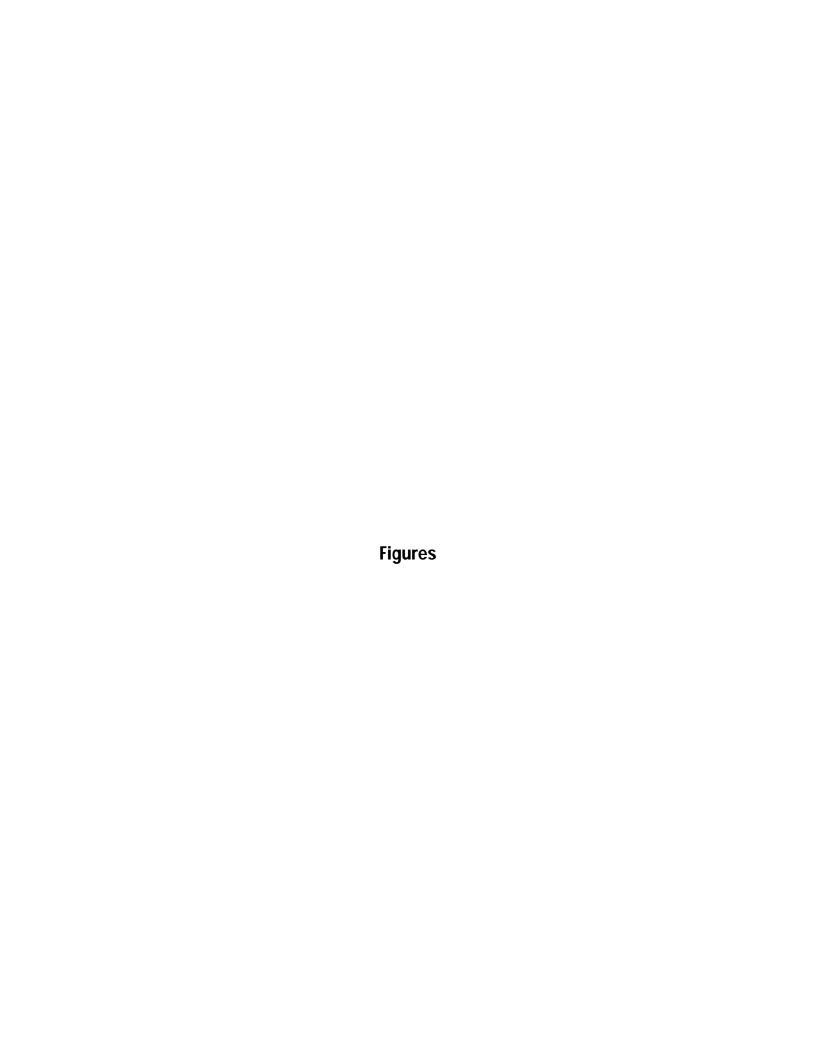
USCS - Unified Soil Classification System.

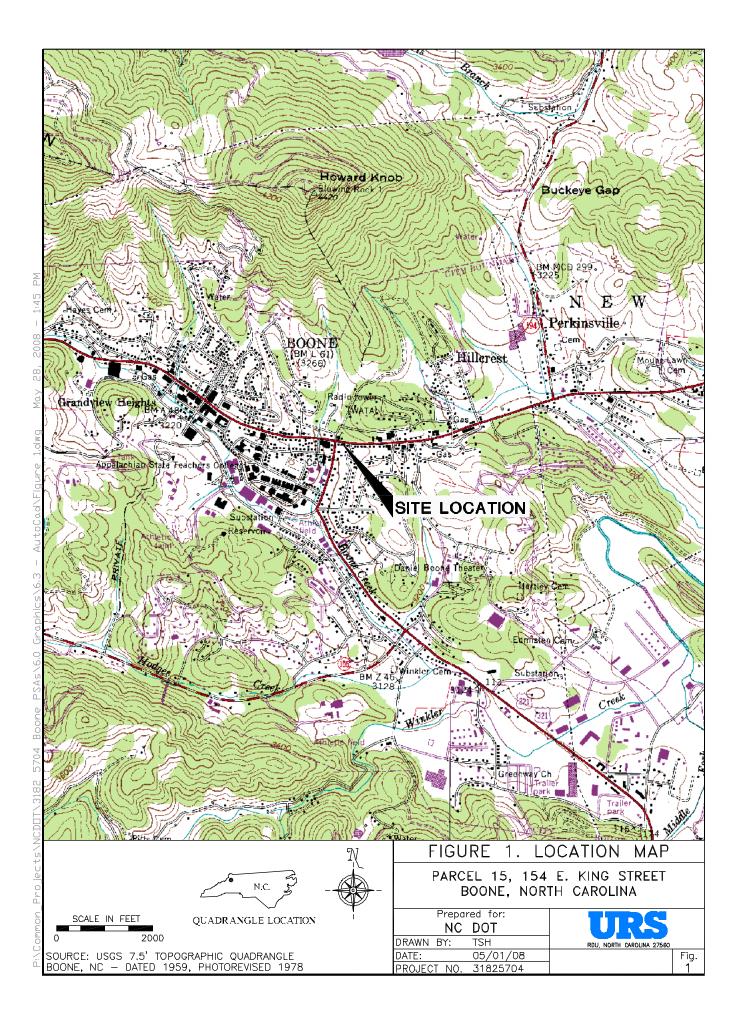
NOTES:

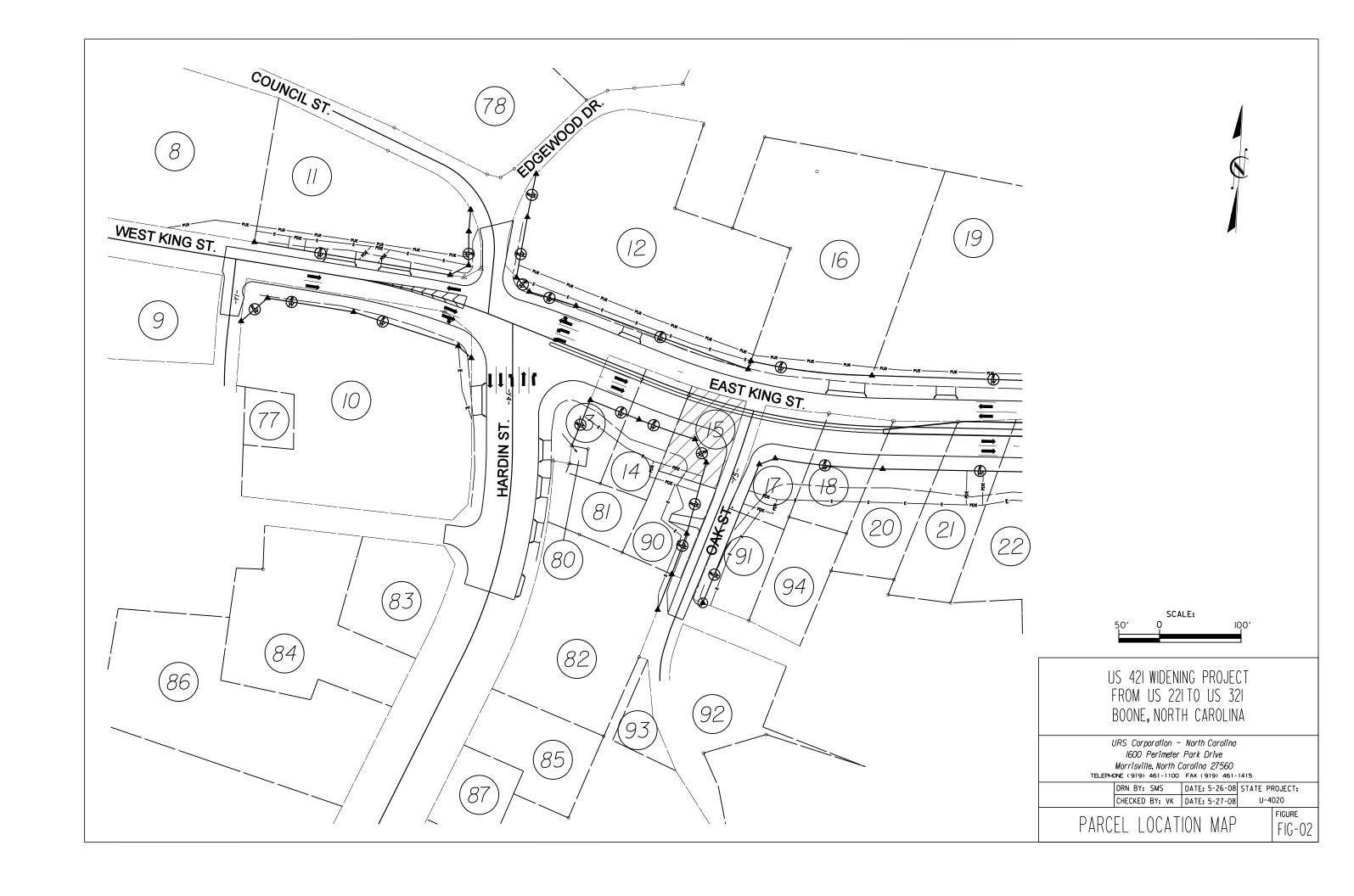
Soil samples were collected by URS on the dates shown.

All results reported on a dry-weight basis.

Action Levels were taken from the NCDENR UST Section, <u>Guidelines for Assessment and Corrective Action</u> (NCDENR, UST Section, July 2001) and <u>Guidelines for the Investigation and Remediation of Contamination from Non-UST Petroleum Releases</u> (NCDENR, UST Section, July 2007).







Fill Port

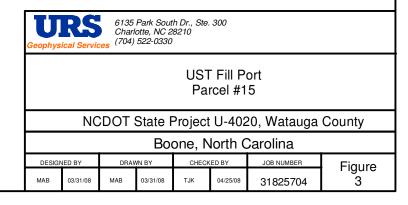
E: 1211323.8 feet N: 908166.7 feet

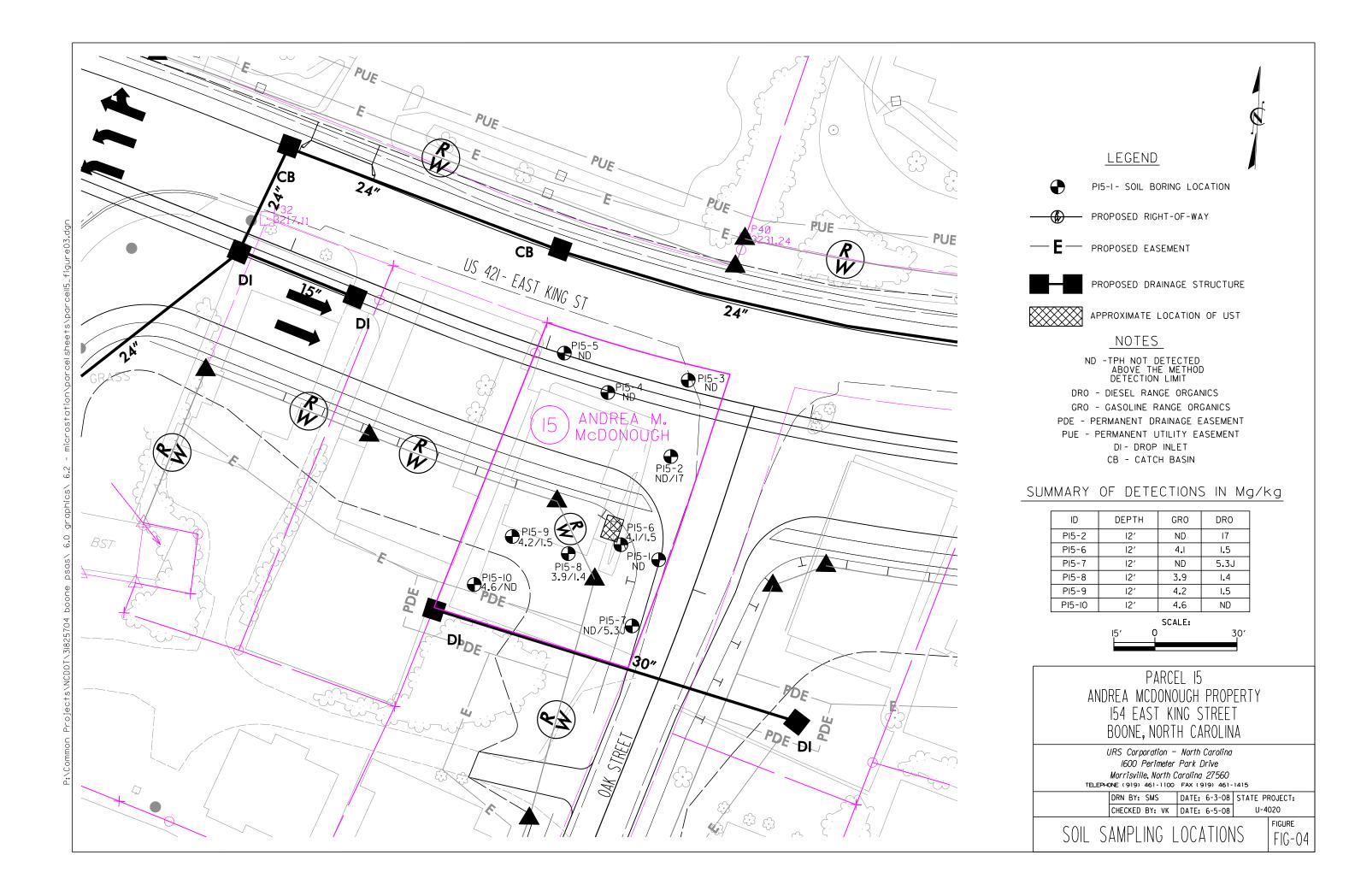
Vent Pipe

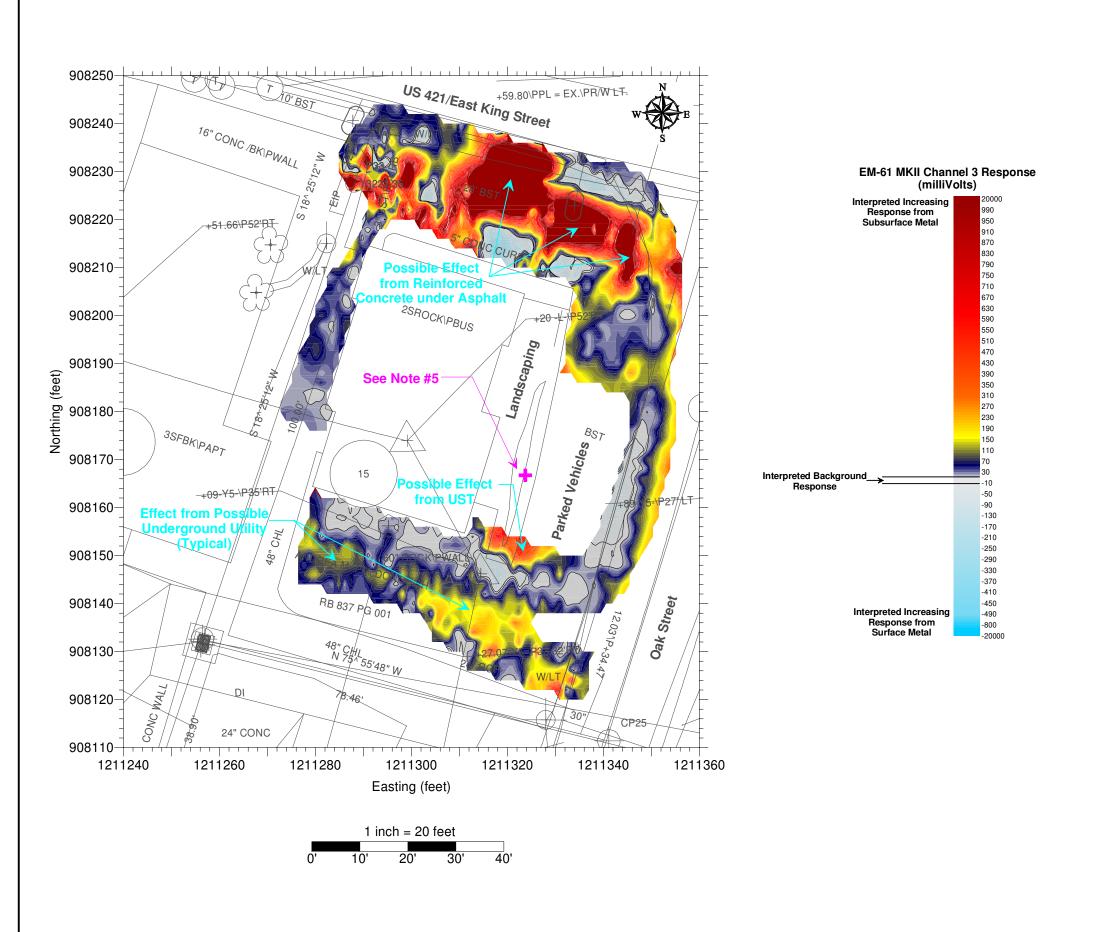


Notes:

- 1. Extents of UST could not be marked due to landscaping.
- 2. View is looking west from the parking area toward the east side of the building on Parcel #15.
- 3. Coordinates in NC State Plane, NAD-83 datum.
- 4. Coordinates from DGPS survey by URS Corporation.







<u>Legend</u>

UST Fill Port

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 UST located under landscaping.
- 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.



MAB

Geophysical Investigation Results Parcel #15

NCDOT State Project U-4020, Watauga County

31825704

Figure

5

Boone, North Carolina

DRAWN BY CHECKED BY JOB NUMBER

JOB NUMBER

Appendix A
Soil Boring Log



Permit # Client NCDOT		Drill Date Use	04/10/08		Site URS Corporation	Parcel 15
Address	Boone, Nort	•			Total Depth (ft)	12
Drilling Method	Direct push		Boring Depth (ft) 1	12	Boring Diam. (in)	2.25
Backfill Material	Bentonite		NA		Static Water Level	unknown
Rmrks <i>Groundwate</i>		ered	TOC Elevation	NA	Sample Method	Acetate liner
in boring						
Depth (ft.) Sample ID	Sample Depth (ft) Blows/ 6"	OVA (ppm)	Geologic	Des	cription	Typical Diagram
0			A	sphalt		
2 —		0.0 ppm				
4 —		0.0 ppm				
		0.0 ppm	Light brown, dry, loos	se, sil	ty Sand (SM), some	<
- - - - 8 -		0.0 ppm	r	mica		backfilled with bentonite
10		0.0 ppm				back
		0.0 ppm				Not to Scale
12 P15-1-12	12'		botton	n of bo	ring	

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 15

A. Milleland for Robs: Jone

Prism COC Group No:

G0408350

Collection Date(s):

04/10/08

Lab Submittal Date(s):

04/11/08

Client Project Name Or No: State Project: U-4020/ 154 E. 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 12 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:

Signature:

Review Date:

04/25/08

Approval Date:

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.



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/

154 E. King St.

Project ID: NCDOT: Boone - Parcel

15

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Client Sample ID: P15-1-12

Time Submitted: 04/11/08

Prism Sample ID: 211201

COC Group:

G0408350

Time Collected:

04/10/08

8:10 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analys	st Batch ID
Percent Solids Determination Percent Solids	83.3	%			1	SM2540 G	04/15/08 11:	5 mbarber	
Diesel Range Organics (DRO) by G	C-FID								
Diesel Range Organics (DRO)	BRL	mg/kg	8.4	1.4	1	8015B	04/24/08 21:	26 jvogel	Q31993
Sample Preparation:			25.	.11 g	/ 1 mL	3545	04/23/08 17:	10 wconde	er P21424
					Surrogate	;	% Recove	ery Co	ontrol Limits
					o-Terphen	yl	73		49 - 124
Sample Weight Determination									THE THE PARTY OF T
Weight 1	4.63	g			1	GRO	04/14/08 0:00) lbrown	
Weight 2	4.52	g			1	GRO	04/14/08 0:00) Ibrown	
Gasoline Range Organics (GRO) by	GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	6.0	3.8	50	8015B	04/15/08 23:0)5 wbradley	Q31760
					Surrogate		% Recove	ry Co	ontrol 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



Laboratory Report

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/

154 E. King St.

Project ID: NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Client Sample ID: P15-2-12

Prism Sample ID: 211202

COC Group:

G0408350

Time Collected:

04/10/08 Time Submitted: 04/11/08

8:35 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Percent Solids Determination						THE PROPERTY STATES AND ADDRESS OF THE PARTY	u-		
Percent Solids	81.8	%			1	SM2540 G	04/15/08 11:15	mbarber	

Diesel Range Organics (DRO) by GC-FID

Diesel	Range	Organic	s (DRO)	

17

BRL

mg/kg

8.6

6.1

mg/kg

8015B

04/25/08 8:48 jvogel

Q31993

Sample Preparation:

25.18 g /

1 mL

3545

8015B

04/23/08 17:10

wconder

P21424

Q31760

			Surrogate		% Recover	y Control Limit
			o-Terpher	nyl	74	49 - 124
Sample Weight Determination	<u>on</u>					
Weight 1	5.39	g	1	GRO	04/14/08 0:00	lbrown
Weight 2	5.10	g	1	GRO	04/14/08 0:00	lbrown

3.8

50

Surrogate	% Recovery	Control Limits			
aaa-TFT	87	55 - 129			

04/15/08 23:37 wbradley

Sample Comment(s):

BRL = Below Reporting Limit

Gasoline Range Organics (GRO)

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



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/

154 E. King St.

NCDOT: Boone - Parcel

15

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Project ID:

Client Sample ID: P15-3-12

Prism Sample ID: 211203

COC Group:

G0408350

Time Collected:

04/10/08

0/08 8:55 1/08 8:30

Time Submitted: 04/11/08 8:

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID	
Percent Solids Determination Percent Solids	71.4	%			1	SM2540 G	04/16/08 15:15	5 mbarber		
Diesel Range Organics (DRO) by GO	: <u>-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.7	1.6	1	8015B	04/24/08 22:38	3 jvogel	Q31993	
Sample Preparation:			25.	.28 g	/ 1 mL	3545	04/23/08 17:10) wconder	P21424	
					Surrogate		% Recover	y Con	Control Limits	
					o-Terphen	yl	69		49 - 124	
Sample Weight Determination										
Weight 1	4.37	g			1	GRO	04/21/08 0:00	Athao		
Weight 2	5.18	g			1	GRO	04/21/08 0:00	Athao		
Gasoline Range Organics (GRO) by	GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.0	4.4	50	8015B	04/16/08 0:08	wbradley	Q31760	
					Surrogate	1	% Recover	y Con	trol Limits	
					aaa-TFT		77		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



Laboratory Report

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/

154 E. King St.

NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Project ID:

Client Sample ID: P15-4-12

Prism Sample ID: 211204

COC Group:

G0408350

Time Collected:

04/10/08

9:15

Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Tir		Analys	t Batch ID
Percent Solids Determination										
Percent Solids	70.7	%			1	SM2540 G	04/16/08	15: 1 5	mbarber	
Diesel Range Organics (DRO) by G	C-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.8	1.6	1	8015B	04/25/08	6:25	jvogel	Q31993
Sample Preparation:	:		25.	.17 g	/ 1 mL	3545	04/23/08	17:10	wconde	P21424
					Surrogate	!	% Re	covery	, Co	ntrol Limits
					o-Terphen	yl		55		49 - 124
Sample Weight Determination							,			
Weight 1	5.16	g			1	GRO	04/11/08	0:00	Ibrown	
Weight 2	5.35	g			1	GRO	04/11/08	0:00	Ibrown	
Gasoline Range Organics (GRO) b	y GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.1	4.4	50	8015B	04/16/08	1:11	wbradley	Q31760
					Surrogate)	% Re	cover	, Co	ntrol Limits
					aaa-TFT			63	•	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



Laboratory Report

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/

154 E. King St.

Project ID: NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Client Sample ID: P15-5-12

Prism Sample ID: 211205

COC Group:

G0408350

Time Collected:

04/10/08 Time Submitted: 04/11/08

10:00 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time		alyst Batch ID
Percent Solids Determination Percent Solids	84.9	%			1	SM2540 G	04/16/08 1	5:15 mbart	per
Diesel Range Organics (DRO) by G	<u>C-FID</u> BRL	malka	8.1	1.3	1	8015B	04/24/08 1	0:20 ivoqel	Q3199
Diesel Range Organics (DRO) Sample Preparation:		mg/kg		.33 g <i>i</i>		3545	04/23/08 1		onder P21424
					Surrogate	•	% Reco	overy	Control Limits
					o-Terphen	yl		54	49 - 124
Sample Weight Determination Weight 1	4.72	g			1	GRO	04/14/08 0	1:00 lbrow	n
Weight 2	5.72	g			1	GRO	04/14/08 0):00 lbrowi	n
Gasoline Range Organics (GRO) by	v GC-FID								
Gasoline Range Organics (GRO)	BRL	mg/kg	5.9	3.7	50	8015B	04/16/08 1	:43 wbrac	lley Q317
					Surrogate	•	% Reco	overy	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



Laboratory Report

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/

154 E. King St.

NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Project ID:

Client Sample ID: P15-6-12

Prism Sample ID: 211206

COC Group:

G0408350

Time Collected:

04/10/08 10:30

Time Submitted:	04/11/08	8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Tir		Analys	t Batch ID
Percent Solids Determination Percent Solids	76.3	%			1	SM2540 G	04/16/08	15:15	mbarber	
Diesel Range Organics (DRO) by G	C-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	9.0	1.5	1	8015B	04/24/08	20:15	jvogel	Q31993
Sample Preparation:			25.	.44 g	/ 1 mL	3545	04/23/08	17:10	wconde	r P21424
					Surrogate	1	% Re	covery	, Co	ntrol Limits
					o-Terphen	yl		57		49 - 124
Sample Weight Determination										
Weight 1	5.05	g			1	GRO	04/14/08	0:00	Ibrown	
Weight 2	4.91	g			1	GRO	04/14/08	0:00	lbrown	
Gasoline Range Organics (GRO) by	/ GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.6	4.1	50	8015B	04/16/08	2:15	wbradley	Q31760
					Surrogate	•	% Re	cover	, Co	entrol Limits
					aaa-TFT			80		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



Laboratory Report

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/

154 E. King St.

NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Project ID:

Client Sample ID: P15-7-12

Prism Sample ID: 211207

COC Group:

G0408350

Time Collected:

04/10/08

10:50

Time Submitted: 04/11/08

8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Ti		Analys	Batch ID
Percent Solids Determination										
Percent Solids	85.9	%			1	SM2540 G	04/16/08	15:15	mbarber	
Diesel Range Organics (DRO) by Go	C-FID									
Diesel Range Organics (DRO)	5.3 J	mg/kg	8.1	1.3	1	8015B	04/24/08	23:14	jvogel	Q31993
Sample Preparation:			25.	18 g	1 mL	3545	04/23/08	17:10	wconder	P21424
					Surrogate	•	% Re	covery	, Co	ntrol Limits
					o-Terphen	yl		71		49 - 124
Sample Weight Determination										
Weight 1	3.84	g			1	GRO	04/17/08	0:00	athao	
Weight 2	5.43	g			1	GRO	04/17/08	0:00	athao	
Gasoline Range Organics (GRO) by	GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	5.8	3.6	50	8015B	04/16/08	2:47	wbradley	Q31760
					Surrogate	.	% Re	cover	, Co	ntrol Limits

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



Laboratory Report

04/25/08

N. C. Department of Transportation

Attn: Martha Mevers-Lee

c/o URS

1600 Perimeter Park Dr. Suite 400

Morrisville, NC 27560

Project Name: State Project: U-4020/

154 E. King St.

Project ID: NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

San

Client Sample ID: P15-8-12

Prism Sample ID: 211208

COC Group:

G0408350

Time Collected: 04/10/08

11:10

8:30

oject No.:	WBS# 35015.1.1	Time Submitted:	04/11/09	
mple Matrix:	Soil	Time Submitted.	04/11/00	

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Tir		Analys	t Batch ID
Percent Solids Determination Percent Solids	79.3	%			1	SM2540 G	04/16/08	15:15	mbarber	
Diesel Range Organics (DRO) by GO	C-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	8.8	1.4	1	8015B	04/24/08	23:50	jvogel	Q31993
Sample Preparation:			25.	16 g	/ 1 mL	3545	04/23/08	17:10	wconder	P21424
					Surrogate	ı	% Re	covery	Co	ntrol Limits
					o-Terphen	yl		69		49 - 124
Sample Weight Determination						. ,				
Weight 1	5.08	g			1	GRO	04/17/08	0:00	athao	
Weight 2	3.98	g			1	GRO	04/17/08	0:00	athao	
Gasoline Range Organics (GRO) by	GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.3	3.9	50	8015B	04/16/08	3:18	wbradley	Q31760
					Surrogate	ı	% Re	сочегу	Co	ntrol Limits
					aaa-TFT			96		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



Laboratory Report

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/

154 E. King St.

NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1

Sample Matrix: Soil

Project ID:

Client Sample ID: P15-9-12

Prism Sample ID: 211209

COC Group: G0408350

Time Collected: 04/10/08 11:25

Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Ti		Analys	t Batch ID
Percent Solids Determination						,				
Percent Solids	73.8	%			1	SM2540 G	04/16/08	15:15	mbarber	
Diesel Range Organics (DRO) by G	<u>iC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	9.5	1.5	1	8015B	04/25/08	1:02	jvogel	Q31993
Sample Preparation:			25.	.03 g	/ 1 mL	3545	04/23/08	17:10	wconde	P21424
					Surrogate	•	% Re	covery	Co	ntrol Limits
					o-Terphen	yl		74		49 - 124
Sample Weight Determination										
Weight 1	5.34	g			1	GRO	04/17/08	0:00	athao	
Weight 2	5.18	g			1	GRO	04/17/08	0:00	athao	
Gasoline Range Organics (GRO) b	y GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	6.8	4.2	50	8015B	04/16/08	3:50	wbradley	Q31760
					Surrogate	•	% Re	covery	Co	ntrol Limits
					aaa-TFT			83		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

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



Laboratory Report

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/

154 E. King St.

Project ID: NCDOT: Boone - Parcel

Project No.: WBS# 35015.1.1 Client Sample ID: P15-10-12

Prism Sample ID: 211210

COC Group:

G0408350

Time Collected:

04/10/08

11:45

•			
ample I	Matrix:	Soil	

Time Submitted: 04/11/08 8:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analys Date/Tir		Analys	t Batch ID
Percent Solids Determination Percent Solids	68.4	%			1	SM2540 G	04/16/08	15:15	mbarber	
Diesel Range Organics (DRO) by G	C-FID									
Diesel Range Organics (DRO)	BRL	mg/kg	10	1.6	1	8015B	04/25/08	1:38	jvogel	Q31993
Sample Preparation:			25.	18 g	/ 1 mL	3545	04/23/08	17:10	wconde	P21424
					Surrogate	•	% Re	covery	, Co	ntrol Limits
					o-Terphen	yl		69		49 - 124
Sample Weight Determination										
Weight 1	5.02	g			1	GRO	04/14/08	0:00	lbrown	
Weight 2	5.88	g			1	GRO	04/14/08	0:00	lbrown	
Gasoline Range Organics (GRO) by	GC-FID									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.3	4.6	50	8015B	04/16/08	4:21	wbradley	Q31760
					Surrogate	.	% Re	covery	, Co	ntrol Limits
					aaa-TFT			75		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



Level II QC Report

4/25/08

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/

154 E. King St.

Project ID:

NCDOT: Boone - Parcel

Project No.: 1

WBS# 35015.1.1

COC Group Number: G0408350

Date/Time Submitted: 4/11/08 8:30

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

Result	RL	Control Limit	Units					QC Batch ID
ND	5	<2.5	mg/kg					Q31760
Result	Spike Amou	nt	Units	Recovery %	Recovery Ranges %			QC Batch ID
49.4	50		mg/kg	99	67- 116			Q31760
		-		Recovery	Recovery			QC Batch
Result	Spike Amou	nt	Units	%	Kanges %		~	1D
55.9	50		mg/kg	112	57-113			Q31760
		-		Recovery	Recovery	DDD	RPD	QC Batch
Result	Spike Amou	nt	Units	%	Ranges %	КРО %	Range %	ID
54.8	50		mg/kg	110	57-113	2	0 - 23	Q31760
	ND Result 49.4 Result 55.9	Result Spike Amount 49.4 50 Result Spike Amount 55.9 50 Result Spike Amount	ND 5 <2.5 Result Spike Amount 49.4 50 Result Spike Amount 55.9 50 Result Spike Amount	ND 5 <2.5 mg/kg Result Spike Amount Units 49.4 50 mg/kg Result Spike Amount Units 55.9 50 mg/kg Result Spike Amount Units	ND 5 <2.5 mg/kg Result Spike Amount Units Recovery 49.4 50 mg/kg 99 Result Spike Amount Units Recovery 55.9 50 mg/kg 112 Result Spike Amount Units Recovery Units W N	ND 5 <2.5 mg/kg Result Spike Amount Units Recovery Ranges % 49.4 50 mg/kg 99 67-116 Result Spike Amount Units Recovery Ranges % Recovery Ranges % 55.9 50 mg/kg 112 57-113 Result Spike Amount Units Recovery Ranges % Recovery Ranges %	ND 5 <2.5 mg/kg Result Spike Amount Units Recovery Ranges % 49.4 50 mg/kg 99 67-116 Result Spike Amount Units Recovery Ranges % Recovery Ranges % 55.9 50 mg/kg 112 57-113 Result Spike Amount Units Recovery Ranges % Recovery Ranges % Result Spike Amount Units Recovery Ranges % RPD %	ND 5 <2.5 mg/kg

Method Blank		•							QC Batch
	Result	RL	Control Limit	Units					GI
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg					Q31993
Laboratory Control Sample	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %		And Rain Line Bull Line	QC Batch ID
Diesel Range Organics (DRO)	53.0	80		mg/kg	66	55-109			Q31993
Matrix Spike Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %			QC Batch ID
211201 Diesel Range Organics (DRO)	43.6	80		mg/kg	55	50-117			Q31993
Matrix Spike Duplicate Sample ID:	Result	Spike Amou	int	Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
211201 Diesel Range Organics (DRO)	40.0	80		mg/kg	50	50-117	9	0 - 24	Q31993



Full Service Analytical & Environmental Solutions

449 Springbrook Road • P.O. Box 240543 • Charlotte, NC 28224-0543 Phone: 704/529-6364 • Fax: 704/525-0409 52714400 が - Fax(Yes) ANO): (PR) 46 - 1415 GOD Pandr Palle Dr S Site Location Physical Address: 154 Report To/Contact Name: MaThy A Excel Xother Client Company Name: URS Email (Yes) (No) Email Address Site Location Name: 「タムピ Phone: (9.f.) 4(4-1/00 Reporting Address: EDD Type: PDF_ Morrism

ENSURE PROPER BILLING:

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

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL Sample Iced Upon Collection: YES YNO Water Chlorinated: YES ___ NO 🛬 Certification: - 350/5.1. ☐ 6-9 Days Astandard 10 days ☐ Rush Work Must Be Furnaround time is based on business days, excluding weekends and holidays. Requested Due Date 🗆 1 Day 🗆 2 Days 🗀 3 Days 🗀 4 Days 🗅 5 Days (SEE REVERSE FOR TEHMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT) Purchase Order No./Billing Reference WBS Flaux Samples received after 15:00 will be processed next business day "Working Days"

Α×

OTHER

냅

USACE

NELAC

PROPER PRESERVATIVES indicated? Received WITHIN HOLDING TIMES? CUSTODY SEALS INTACT? VOLATILES rec'd W/OUT HEADSPACE? PROPER CONTAINERS used?	
(a)	'

少人

Received ON WET ICE? Temp Samples INTACT upon arrival?

PRISM	LAB ID NO.	أحجالها	هجوالم	Allasz	Hash	त्राविञ्ड	Allast	Gliasz	ने।।३३	નુગાય જ્વ	Allaw	7 - 3 COPIES	PRISM USE ONLY	Time:
/ /	REMARKS	•	7. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	TYPE INTO A TOTAL	The state of the s			TOTOTO AND				PRESS DOWN FIRMLY - 3 COPIES	PRISM	Additional Comments: Site Arrival Time:
ANALYSES REQUESTED	TO SOUNT HE	2 1 1	2 1	1) 2	7 1 2	1) 2	1 1 2	1 1 2	1 1 2	2 ((1 1 2	Affiliation UP.S	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.	DA SEATHOUND SCOTTO
DDGCEDVA											•	year	with the analyses as requested above. An nges after analyses have been initialized	
SAMPLE CONTAINER	SIZE	202-1										Michal)	the analyses s after analys	Treo
	NO.	h	200	7	<u></u>	7		ی		<u>و</u> 	حو		eed with	K
	*TYPE SEE BELOW	نځ									≥ેડ	(Print Name)	Prism to proc arges for any	Recoved By: (Brigmeture)
MATRIX (SOIL.	WATER OR SLUDGE)	1,05								\	50,	Sampled By (Print Name)	orization for lere	Heco
TIME	MILITARY HOURS	0//8	835	855	915	1000	1030	65g/	01/1	1125	11,45-	Men	ly is your auth t Manager. Th	١
DATE	соггестер	80-01-h								_}	4-10-08	hailu	Chain of Custod	M
CLIENT	SAMPLE DESCRIPTION	P15-1-12	P15-2-12	P15-3-12	P15-4-12	PIS-8-12	P15-6-12	815-7-12	915-8-12	P15-9-18-	P15-10-12-4-10-08	Sampler's Signature	Upon relinquishing, this submitted in writing to the	Relinquished By: (Signature)

ONC OSC

ONC OSC LANDFILL

ONC DSC

ONC OSC

CERCLA

RCRA:

SOLID WASTE: ONC OSC

DRINKING WATER:

Prism Field Service **ÖNDWATER:**

☐ Hand-delivered

☐ Fed Ex ☐ UPS

ONC OSC

anc asc

ONC OSC ONC OSC

GRO

UST

NPDES:

OTHER:

Got 335

Site Departure Time: Field Tech Fee:

Mileage:

8:30

M-11-08

COC Group No.

AMMA THINE SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CURROUS SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

Received For Prism I

ORIGINAL

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