

REPORT



**UST CLOSURE REPORT
NCDOT PARCEL NO. 28
TRAILWAY LAUNDRY PROPERTY
320 EAST KING STREET
BOONE, WATAUGA COUNTY, NC
WBS ELEMENT 35015.1.1
TIP U-4020**

Prepared for

North Carolina Department of Transportation
Geotechnical Engineering Unit, GeoEnvironmental Section
Century Center
1020 Birch Ridge Drive
1589 Mail Service Center
Raleigh, NC 27699-1589
Tel. (919) 250-4088
Fax. (919) 250-4237

August 11, 2008



URS Corporation – North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, North Carolina 27560
Tel. (919) 461-1100
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URS Project No. 31825704.00004

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



Walter Plekan, Jr.
Project Manager
URS Corporation – North Carolina

2061
NC License No.

8-11-8
Date

1.0 INTRODUCTION

URS Corporation (URS) was retained by the North Carolina Department of Transportation to oversee the closure of one petroleum underground storage tank (UST) at the Trailway Laundry Property (the site), located at 320 E. King Street in Boone, Watauga County, North Carolina (**Figure 1**). This report documents the UST closure activities and has been prepared following the required NCDENR GW/UST 12 format.

2.0 GENERAL INFORMATION

2.1 Facility Information

The facility ID is unknown and no information relating to the site was available in the NCDENR UST Database. Since the UST system and the tanks have not been used in many years, NCDENR assumed responsibility for the proper closure of the abandoned tanks.

2.2 Contacts

The following list identifies the key contacts involved with closure of the USTs:

1.	UST Owner / Operator	Unknown
2.	Property Owner	Trailway Laundry 320 East King Street Boone, Watauga County, NC 28607 828-264-8415
3.	Primary Contact Person	Mr. Cyrus Parker GeoEnvironmental Project Manager North Carolina Department of Transportation 1589 Mail Service Center Raleigh, NC 27699-1589 919-250-4088
4.	Primary Consultant	Mr. Walter Plekan URS Corporation – North Carolina 1600 Perimeter Park Drive, Suite 400 Morrisville, NC 27560 (919) 461-1100
5.	Closure Subcontractor	A & D Environmental and Industrial Services, Inc. P.O Box 484 High Point, North Carolina (336) 434-7750

6.	Analytical Laboratory	Prism Laboratories, Inc. 449 Springbrook Road Charlotte, NC 28224 (704) 529-6364 NC Certification No. 402
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2.3 UST Information

The UST formerly contained gasoline. The installation date and last use dates are unknown. The UST measured 4 feet in diameter and 12.3 feet long, which equates to an approximate volume of 1150-1200 gallons. The tank was permanently closed through removal and off-site disposal on June 10, 2008.

2.4 Site Characteristics

2.4.1 Past Release Information

No known releases related to the site were identified prior to the closure of the UST.

2.4.2 Facility Status

The facility currently (and formerly) operates as a Laundromat in a two story block building. Interviews with the property owner and others indicate that the past property use is consistent with its current use and a gas station has never operated at this location. The UST fill port or vent lines were not visible during previous Site activities.

2.4.3 Surrounding Property

The surrounding property is mainly commercial properties with some residential properties and is summarized as follows:

- North King Street
- South Vacant residence
- East Vacant property
- West Hillside Drive

2.4.4 Site Setting

According to the Geologic Map of North Carolina the site is located within the Grandfather Mountain Window of middle Proterozoic Biotite/Granite Gneiss. The soil at the site was described as light brown sandy silt.

3.0 CLOSURE PROCEDURES

3.1 Preparation for Closure

URS contacted NC One Call and a private utility locating subcontractor to locate subsurface utilities at the site prior to mobilization. URS also obtained a Tank Removal Permit (**Appendix A**) from the Boone Fire Department. Closure activities were performed on June 10, 2008. Select photographs taken during the closure activities are presented in **Appendix B**.

Approximately 15-inches of liquids/sludge were found in the UST. After removal of the liquids by vacuum truck, the USTs were purged of explosive vapors by adding hydrogen to the tanks. The tanks were then monitored for explosive vapors using an explosimeter that measures the lower explosive limit (LEL) and percentage of oxygen. A representative from the Boone Fire Department was present to observe the tank removal process

Notice of UST closure activities was not provided to the NCDENR prior to removal based on the information collected prior to the UST removal that the tank was believed to non-regulated.

3.2 Residual Material Removed

A total of 270 gallons of liquids was removed from the USTs using a vacuum truck. Liquids pumped from the tanks were transported from the site and disposed of in a manner approved by NCDENR. A disposal certificate for these liquids is presented in **Appendix C**.

3.3 UST Removal

3.3.1 Tank Removal Actions

The UST was removed from the site on June 10, 2008. The UST was located on the west side of the site along the western property boundary along King Street (**Figure 2**). The top of the tank was located just below the asphalt pavement approximately 0.3 feet below ground surface (ft bgs). The tank was found to be in good condition. No product piping was found near the tank.

Upon removal, the UST was removed from the site for proper disposal. The Certificate of Disposal for the UST is presented in **Appendix C**.

3.3.2 Excavations

To facilitate removal of the UST, only the soil necessary to remove the UST was excavated and segregated according to visual observation and field screening with a photo ionization

detector (PID) to identify possible petroleum- impacted soil. Additional information regarding the field screening is described in Section 4.1.

The excavation area was approximately 14 feet by 5 feet by 5 feet deep, which is shown in Figure 3. Excavated soil was stockpiled adjacent to the excavation for later use as backfill.

3.3.3 Disposal of Impacted Soil

No impacted soil was identified during the UST removal activities.

3.4 Site Restoration

The excavation area was backfilled with the excavated soil and additional locally obtained borrow material. The fill material was compacted in 12-inch lifts with the back-hoe bucket to match the existing grade. The area was covered with gravel.

4.0 SITE INVESTIGATION

4.1 Field Screening of Soils

Soils were screened in the field using a PID. The PID was calibrated at the start of each workday using 100-parts per million (ppm) isobutylene calibration gas according to the manufacturer's directions. Discrete soil samples collected from the excavated areas were placed in resealable plastic bags. The bags were sealed and the headspace within the bag was allowed to equilibrate for approximately 10 minutes. The probe of the PID was then inserted into the headspace of the bag and the concentration of volatile vapors [in parts per million (ppm)] present in the headspace was recorded in the field log book. Based on these readings, olfactory indicators, and field observations, no soil impacts were identified.

4.2 Soil Sampling Locations and Sampling Procedures

Two closure samples were collected from beneath the bottom of the UST at approximately 4.5 ft bgs. The samples were collected in laboratory-supplied glassware and were placed on ice in an insulated cooler for delivery to Prism Laboratories, Inc. The soil closure samples were analyzed by EPA Method 8015B for gasoline and diesel range organic (GRO and DRO) total petroleum hydrocarbons (TPH).

4.3 Soil Sampling Results

GRO and DRO were not detected in either of the soil samples above the laboratory reporting limit. The laboratory analytical report is provided in **Appendix D**.

4.4 Quality Control Measures

All samples for laboratory analysis were collected using NCDENR-approved methods with new disposable nitrile gloves and were transferred to laboratory-supplied containers immediately upon collection. The containers were labeled with the sample location information, including date, time of collection, and requested analyses. The filled containers were placed on ice to chill pending delivery to the laboratory. Samples were shipped via overnight courier for delivery to the laboratory under chain of custody procedures.

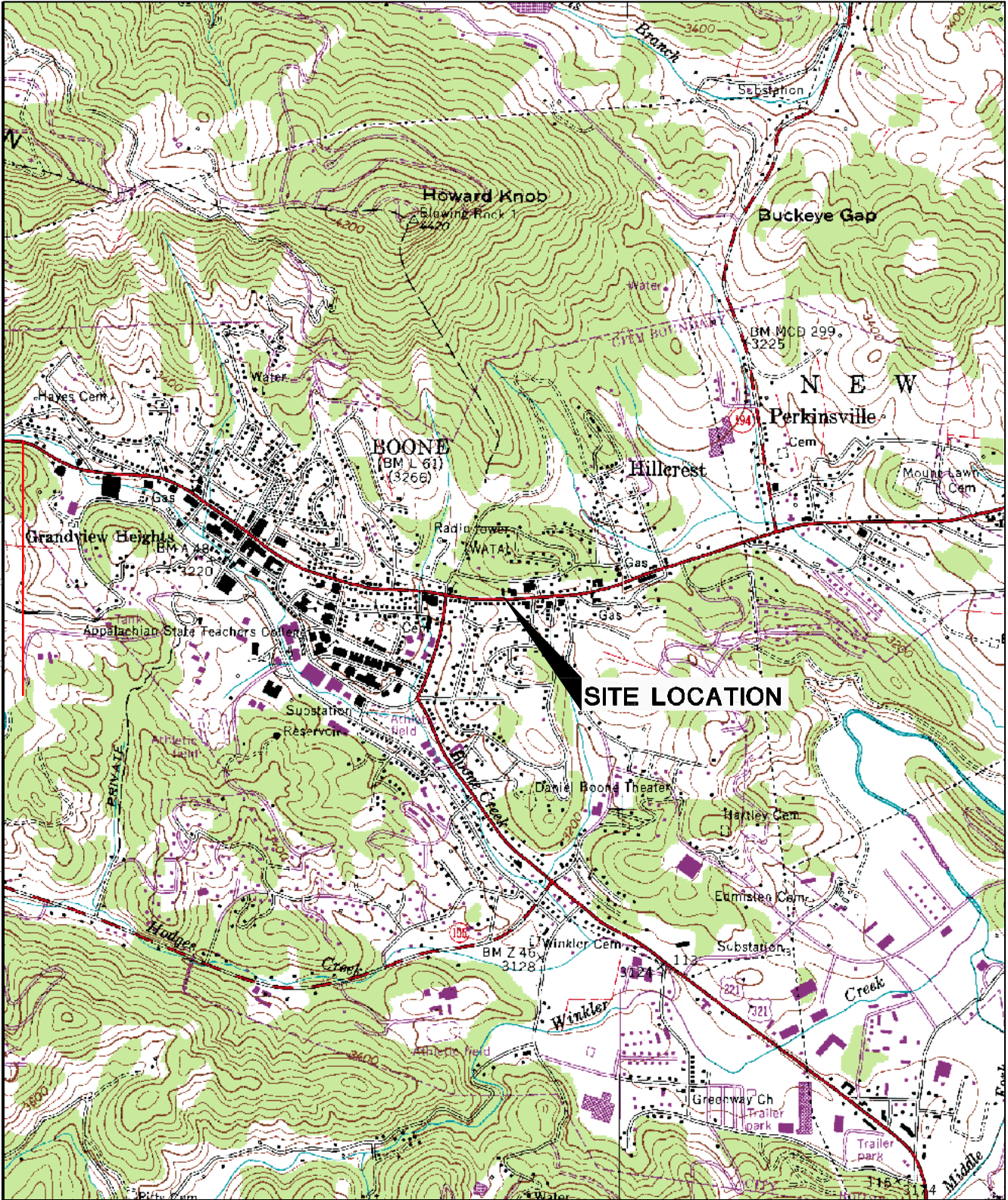
5.0 SUMMARY

One petroleum underground storage tank was permanently closed by removal at the Trailway Laundry Property, located at 320 E. King Street in Boone, Watauga County, North Carolina. Closure activities were conducted on June 10, 2008.

A total of 270 gallons of fluids were removed from the UST for off-site disposal. During the removal of the tank, field observations and field screening did not indicate the presence of petroleum-impacted soils in the overburden adjacent to USTs. Laboratory analytical results of the UST closure samples were below detection levels. No further action is recommended.

FIGURES

P:\Common Projects\NC\DOT\3182_5704_Boone_PSA\6.0_Graphics\6.3 - AutoCad\Figure 1.dwg May 28, 2008 - 1:53 PM



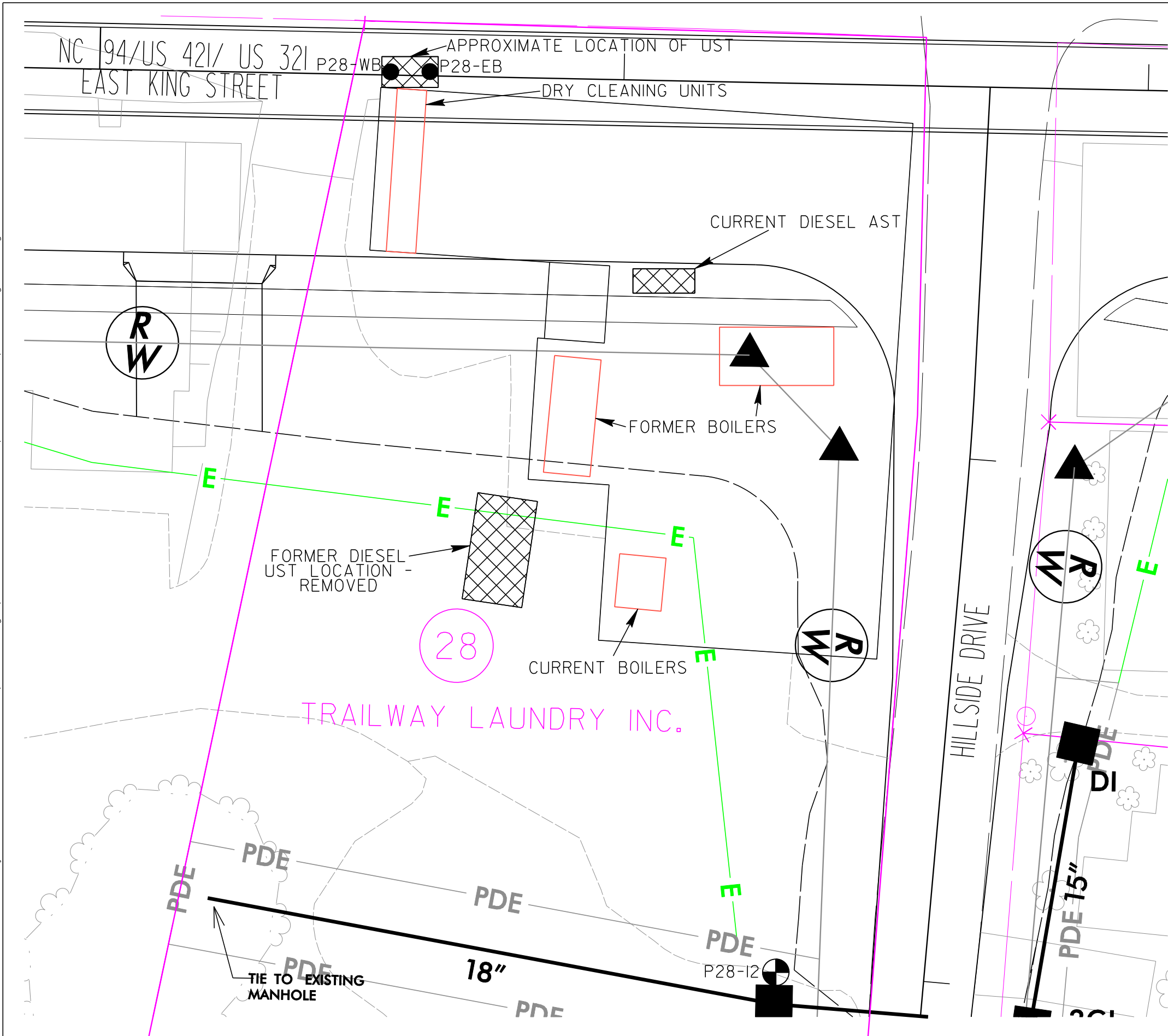
SCALE IN FEET
0 2000

QUADRANGLE LOCATION

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

FIGURE 1. LOCATION MAP	
PARCEL 28, 320 E. KING STREET BOONE, NORTH CAROLINA	
Prepared for: NC DOT	
DRAWN BY: TSH	 RDU, NORTH CAROLINA 27560
DATE: 05/01/08	
PROJECT NO. 31825704	
	Fig. 1

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



LEGEND

- SOIL SAMPLE LOCATION
- ⊗ PROPOSED RIGHT-OF-WAY
- E— PROPOSED EASEMENT
- PROPOSED DRAINAGE STRUCTURE

NOTES

- PDE - PERMANENT DRAINAGE EASEMENT
- PCE - TETRACHLOROETHENE
- CB - CATCH BASIN
- DI - DROP INLET

SCALE: 10' 0 20'

PARCEL 28
 TRAILWAY LAUNDRY PROPERTY
 320 EAST KING STREET
 BOONE, NORTH CAROLINA

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

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

SITE MAP

FIGURE FIG-02

APPENDIX A
SUBMITTED FORMS

**Boone Fire Department
Fire Prevention Permit**

Business Name: TRILWAY CLEANERS
Permit Holder: 1,500 UNDERGROUND TANK/URS CORPORATION

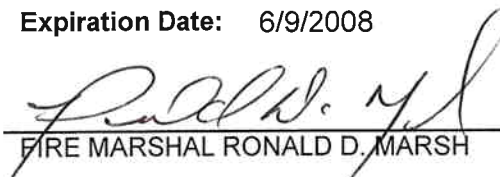
Number	Dir.	Street Name	Type	Suite
0320	E	KING	ST	

Type Of Permit: TANK REMOVAL in accordance with the regulations of the North Carolina Fire Prevention Code.

Permit Date: 6/9/2008

Expiration Date: 6/9/2008

Please post in a conspicuous location.



FIRE MARSHAL RONALD D. MARSH

URS CORPORATION
1600 PREMETER PARK DRIVE, SUITE 400
MORRISVILLE, NC 27560

UST-2

Site Investigation Report for Permanent Closure or Change-in-Service of UST

**FOR TANKS
IN
NC**

Return completed form to:
The DWM Regional office in the area the facility is located. SEE MAP ON THE BACK OF THIS FORM FOR REGIONAL OFFICE ADDRESSES. Return the yellow copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED".

STATE USE ONLY:
I.D. # _____
Date Received _____

I. OWNERSHIP OF TANKS

II. LOCATION OF TANKS

Owner Name (Corporation, Individual, Public Agency, or Other Entity) Trailway Laundry Inc.
Street Address 320 East King Street
City Boone County Watawga
State NC Zip Code 28607
Area Code (828) Phone Number 264-8415

Facility Name or Company Trailway Laundry Inc.
Facility ID # (if known) Unknown
Street Address 320 East King Street
City Boone County North Carolina Zip Code 28607
Area Code (828) Phone Number 264-8415

III. CONTACT PERSONNEL

Name Cyrus Parker Job Title Project Manager Tel. No. (919) 250-4088
Closure Contractor A+D Environmental Address High Point, N.C. Tel. No. (800) 434-7750
Primary Consultant URS Corporation Address Morrisville, NC Tel. No. (919) 461-1100
Lab Prism Address Charlotte, NC Tel. No. (704) 529-6364

IV. UST INFORMATION

V. EXCAVATION CONDITION

VI. ADDITIONAL INFORMATION

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in excavation		Free product		Notable odor or visible soil contamination	
				Yes	No	Yes	No	Yes	No
1	1,200	4' diam / 12.25' len	Gasoline		✓		✓		✓

See reverse side of pink copy (owner's copy) for additional information required by NC DWM in the written report and sketch.

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. CHECKLIST (CHECK THE ACTIVITIES COMPLETED)

PERMANENT CLOSURE

(For Removal or Abandonment-in-Place)

- Contact local fire marshal
- Notify DWM Regional Office before abandonment
- Drain and flush piping into tank
- Remove all product and residuals from tank
- Excavate down to tank
- Clean and inspect tank
- Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps, and all other tank fixtures
- Cap or plug all lines except the vent and fill lines
- Purge the tank of all product and flammable vapors
- Cut one or more large holes in the tank
- Backfill the area

Date tank(s) Permanently Closed: June 9, 2008

Date of Change in-service: _____

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening
- Plug or cap all openings
- Disconnect and cap or remove vent line
- Solid inert material used --specify _____

REMOVAL

- Create vent hole
- Label tank
- Dispose of tank in approved manner. Final tank destination: _____

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true accurate and complete

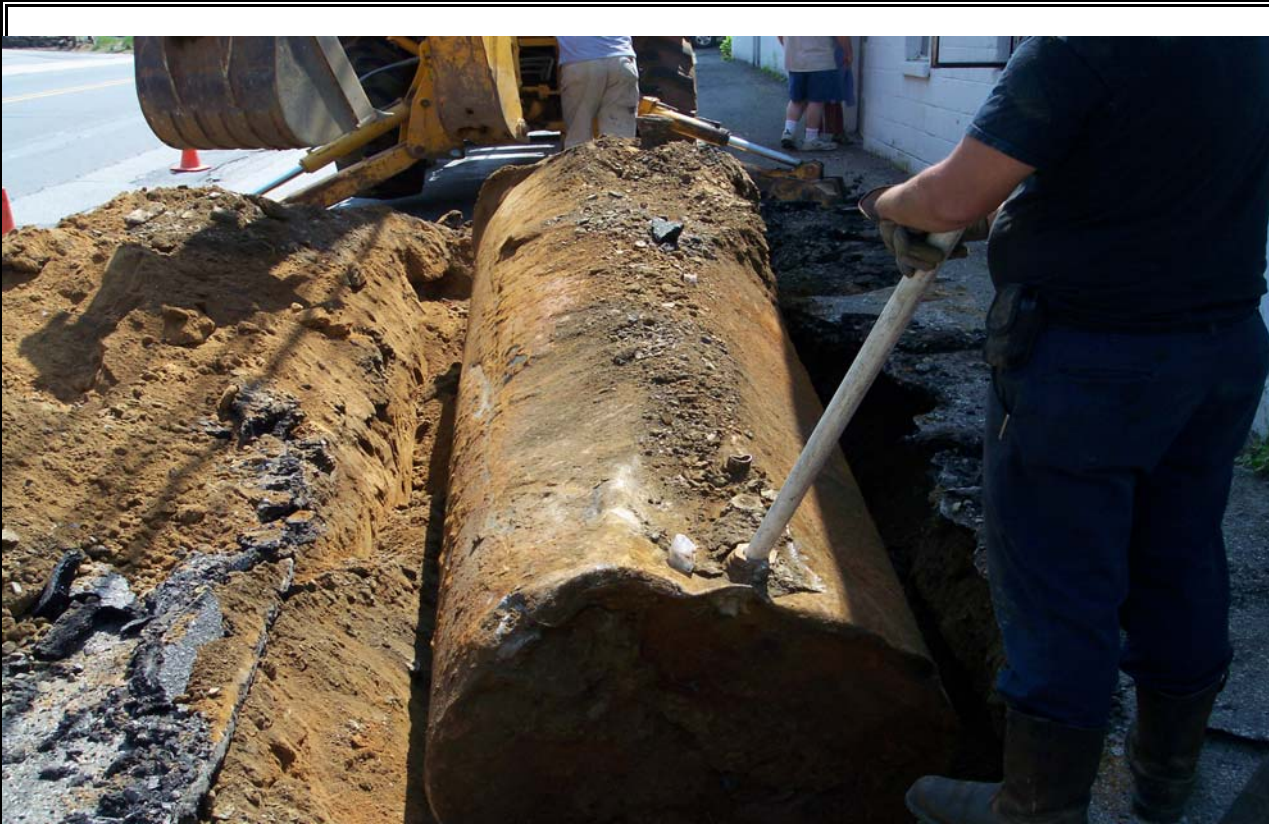
Print name and official title of owner or owner's authorized representative

Signature

Date Signed

APPENDIX B
PHOTOGRAPHS

**PARCEL 28 - TRAILWAY LAUNDRY PROPERTY
320 EAST KING STREET, BOONE, WATUGA COUNTY, NC**



Photograph 1: Removal of the remaining contents of Parcel 28 UST with vac truck.



Photograph 2: Removed UST from Parcel 28.

APPENDIX C

MANIFEST AND DISPOSAL CERTIFICATES



Environmental Services, Inc.

P.O. Box 484 • High Point, NC • Phone (336) 434-7750 • FAX (336) 434-7752

TANK DISPOSAL MANIFEST

1) Tank Owner/Authorized Representative: Name and Mailing Address _____

Trailway Laundry
320 E. King St. Parcel #28
Boone NC

2) Tank Owner/Authorized Representative: Contact _____

URS Craft Plekan
Phone#: 919 461 1223

3) Description Of Tanks:

<u>Tank No.</u>	<u>Capacity</u>	<u>Previous Contents</u>	<u>Comments</u>
<u># 1</u>	<u>1150</u>	<u>#2 oil</u>	<u>empty</u>

4) Tank Owner/Authorized Representative Certification: The undersigned certifies that the above listed storage tanks have been removed from the premises of the tank owner.

Michael Meese as agent for NCDOT Michael Meese 6-10-08
Printed/Typed Name Signature Month/Day/Year

5) Transporter: The undersigned certifies that the above listed storage tanks have been transported to A&D Environmental and Industrial Services, 2718 Uwharrie Road, Archdale, N.C. 27263.

Scott Newton Scott Newton 6-10-08
Printed/Typed Name Signature Month/Day/Year

6) Disposal Certification: The undersigned certifies that the above-named storage tank(s) have been cut into scrap pieces and accepted by the metal recycling facility.

Recycling Facility: Hayes Iron & Metal Providence NC
Travis Clapp Travis Clapp 6-19-08
Printed/Typed Name Signature Month/Day/Year

MATERIAL MANIFEST



**Environmental
Services, Inc.**

A40 10 / 85

EMERGENCY PHONE NO.
(800) 434-7750

POST OFFICE BOX 484
HIGH POINT, NC 27261

TEL (336) 434-7750
FAX (336) 434-7752

Manifest Document No.	
Page	of
A & D Job No.	

GENERATOR INFORMATION

Name <i>Trailway Laundry Parcel 28</i>	US EPA ID No.
Street Address <i>320 E. King St. Boone NC</i>	Mailing Address
	Phone No.
	Contact

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class or Div.	UN / NA ID No.	Packing Group	Containers		Total Quantity	Unit Wt./ Vol.
						Qty.	Type		
a.		<i>Non-Hazardous liquid N.O.S.</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>1</i>	<i>TT</i>	<i>142</i>	<i>G</i>
b.									
c.									

ADDITIONAL INFORMATION

	ERG No.	A & D Profile Code	Facility Use
a.			<i>Gas, water mix for recycling</i>
b.			
c.			

GENERATOR'S CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed / Typed Name <i>Michael Meese as agent for NCDOT</i>	Signature <i>Michael Meese</i>	Mo. / Day / Yr. <i>6-9-08</i>
-----------------------------------------------------------------	-----------------------------------	----------------------------------

TRANSPORTER INFORMATION

Transporter A & D ENVIRONMENTAL SERVICES, INC	<i>I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.</i>	
Address 2718 UWHARRIE ROAD ARCHDALE, NC 27263	Signature <i>Rodney Reetz</i>	Shipment Date <i>6-9-08</i>
Transporter or EPA ID No. <i>NCD986232221</i>	<i>I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.</i>	
Unit No.	Signature <i>Rodney Reetz</i>	Delivery Date <i>6-9-08</i>
Phone (336) 434-7750		

FACILITY INFORMATION

Facility A & D ENVIRONMENTAL SERVICES, INC	<i>I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.</i>	
Address 2718 UWHARRIE ROAD ARCHDALE, NC 27263	Signature <i>[Signature]</i>	Receipt Date <i>6-9-08</i>
Facility or EPA ID No. <i>NCD986232221</i>	Discrepancies / Routing Codes / Handling Methods	
Phone (336) 434-7750	<i>Recycle</i>	
Contact Tim Parker <i>Tim Parker</i>		

APPENDIX D

LABORATORY ANALYICAL REPORTS

Case Narrative



Date: 06/23/08
Company: N. C. Department of Transportation
Contact: Martha Meyers-Lee
Address: c/o URS
1600 Perimeter Park Dr. Suite 400
Morrisville, NC 27560

Client Project ID: NCDOT: Boone - Parcel 28
Prism COC Group No: G0608270
Collection Date(s): 06/09/08
Lab Submittal Date(s): 06/11/08

Client Project Name Or No: State Project: U-4020/ 320 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 4 pages. A chain-of-custody is also attached for the samples submitted to Prism for this project.

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

Semi Volatile Analysis

No Anomalies Reported

Volatile Analysis

No Anomalies Reported

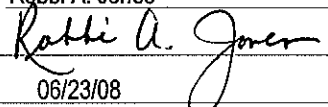
Metals Analysis

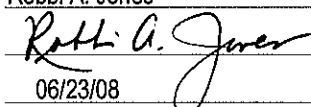
N/A

Wet Lab and Micro Analysis

N/A

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

Date Reviewed by: Robbi A. Jones
Signature: 
Review Date: 06/23/08

Project Manager: Robbi A. Jones
Signature: 
Approval Date: 06/23/08

Data Qualifiers Key Reference:

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

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



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

Laboratory Report

06/23/08

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

Project Name: State Project: U-4020/
 320 E. King St.
 Project ID: NCDOT: Boone - Parcel
 28
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P28-WB-4
 Prism Sample ID: 216486
 COC Group: G0608270
 Time Collected: 06/09/08 13:00
 Time Submitted: 06/11/08 8:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID						
<u>Percent Solids Determination</u>															
Percent Solids	71.1	%			1	SM2540 G	06/13/08 13:15	mbarber							
<u>Diesel Range Organics (DRO) by GC-FID</u>															
Diesel Range Organics (DRO)	BRL	mg/kg	9.8	1.6	1	8015B	06/16/08 13:52	ivogel	Q33279						
Sample Preparation:			25.04 g	/	1 mL	3545	06/12/08 11:00	wconder	P21834						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>o-Terphenyl</td> <td>98</td> <td>49 - 124</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	o-Terphenyl	98	49 - 124
Surrogate	% Recovery	Control Limits													
o-Terphenyl	98	49 - 124													
<u>Sample Weight Determination</u>															
Weight 1	5.20	g			1	GRO	06/13/08 0:00	lbrown							
Weight 2	5.16	g			1	GRO	06/13/08 0:00	lbrown							
<u>Gasoline Range Organics (GRO) by GC-FID</u>															
Gasoline Range Organics (GRO)	BRL	mg/kg	7.0	4.4	50	8015B	06/18/08 11:24	wbradley	Q33385						
<table border="1"> <thead> <tr> <th>Surrogate</th> <th>% Recovery</th> <th>Control Limits</th> </tr> </thead> <tbody> <tr> <td>aaa-TFT</td> <td>91</td> <td>55 - 129</td> </tr> </tbody> </table>										Surrogate	% Recovery	Control Limits	aaa-TFT	91	55 - 129
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
 The results in this report relate only to the samples submitted for analysis and meet state certification requirements other than NELAC certification except for those instances indicated in the case narrative and/or test comments.
 All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services



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

Laboratory Report

06/23/08

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

Project Name: State Project: U-4020/
 320 E. King St.
 Project ID: NCDOT: Boone - Parcel
 28
 Project No.: WBS# 35015.1.1
 Sample Matrix: Soil

Client Sample ID: P28-EB-4
 Prism Sample ID: 216487
 COC Group: G0608270
 Time Collected: 06/09/08 13:15
 Time Submitted: 06/11/08 8:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<u>Percent Solids Determination</u>									
Percent Solids	67.7	%			1	SM2540 G	06/13/08 13:15	mbarber	
<u>Diesel Range Organics (DRO) by GC-FID</u>									
Diesel Range Organics (DRO)	BRL	mg/kg	10	1.7	1	8015B	06/16/08 14:33	jvogel	Q33279
Sample Preparation:			25.21 g	/	1 mL	3545	06/12/08 11:00	wconder	P21834
						Surrogate	% Recovery	Control Limits	
						o-Terphenyl	104	49 - 124	
<u>Sample Weight Determination</u>									
Weight 1	4.59	g			1	GRO	06/13/08 0:00	lbrown	
Weight 2	4.54	g			1	GRO	06/13/08 0:00	lbrown	
<u>Gasoline Range Organics (GRO) by GC-FID</u>									
Gasoline Range Organics (GRO)	BRL	mg/kg	7.4	4.6	50	8015B	06/18/08 12:10	wbradley	Q33385
						Surrogate	% Recovery	Control Limits	
						aaa-TFT	82	55 - 129	

Sample Comment(s):

BRL = Below Reporting Limit

J- Estimated value between the Reporting Limit and the MDL

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

All results are reported on a dry-weight basis

Angela D. Overcash, V.P. Laboratory Services

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

Level II QC Report

6/23/2008

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/
 320 E. King St.
 Project ID: NCDOT: Boone - Parcel
 28
 Project No.: WBS# 35015.1.1

COC Group Number: G0608270
 Date/Time Submitted: 6/11/200 8:45

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Diesel Range Organics (DRO)	ND	7	<3.5	mg/kg			Q33279		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Diesel Range Organics (DRO)	73.2	80		mg/kg	92	55-109	Q33279		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
216380 Diesel Range Organics (DRO)	77.8	80		mg/kg	88	50-117	Q33279		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
216380 Diesel Range Organics (DRO)	76.3	80		mg/kg	87	50-117	2	0 - 24	Q33279

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

Method Blank							QC Batch ID		
	Result	RL	Control Limit	Units					
Gasoline Range Organics (GRO)	ND	5	<2.5	mg/kg			Q33385		
Laboratory Control Sample							QC Batch ID		
	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
Gasoline Range Organics (GRO)	47.8	50		mg/kg	96	67-116	Q33385		
Matrix Spike							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %			
216411 Gasoline Range Organics (GRO)	36.8	50		mg/kg	74	57-113	Q33385		
Matrix Spike Duplicate							QC Batch ID		
Sample ID:	Result	Spike Amount		Units	Recovery %	Recovery Ranges %	RPD %	RPD Range %	QC Batch ID
216411 Gasoline Range Organics (GRO)	39.0	50		mg/kg	78	57-113	6	0 - 23	Q33385

#-See Case Narrative

