

UNDERGROUND STORAGE TANK CLOSURE REPORT

Bobby R. Bowen and Blanche H. Wilson Property - Parcel 52

1310 West 14th Avenue

Greenville, Pitt County, North Carolina

ATC Project No. 45.19873.0007

NCDOT Project U-3315

WBS Element 35781.1.2

January 5, 2015

Mr. Gordon Box
NC Department of Transportation
GeoEnvironmental Section
1589 Mail Service Center
Raleigh, North Carolina, 27699-1589

Re: **UST CLOSURE**
Bobby R. Bowen and Blanche H. Wilson Property - Parcel 52
1310 West 14th Avenue
Greenville, Pitt County, North Carolina
State Project: U-3315
WBS Element: 35781.1.2
ATC Project No. 45.19873.0007

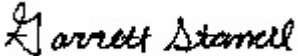
Dear Mr. Box:

ATC Associates of North Carolina, P.C., on behalf of NCDOT, is submitting this UST Closure Report for NCDOT Project U-3315, WBS Element 35781.1.2 located on 1310 West 14th Avenue in Greenville, Pitt County, North Carolina. The report documents a UST closure at the site.

If you have any questions or require additional information, please contact our office at (919) 871-0999.

Sincerely,

ATC Associates of North Carolina, P.C.



Garrett Stancil
Staff Scientist



Jeffrey A. Corson
Senior Project Manager

cc: Terry Farr

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FIGURES

Figure 1 Site Map

APPENDICES

Appendix A GW/UST-3

I. SITE INFORMATION

Date of Report: 1/5/2015
Facility I.D.: N/A
UST Incident Number (if known): 38383 (Parcel 52)
Site Name: NCDOT U-3315 WBS Element 35781.1.2 Parcel 52
Site Location: 1310 West 14th Avenue
Nearest City/Town: Greenville County: Pitt
Description of Geographical Data Point (eg, diesel fill port): Multiple
Location Method (GPS, Topographical map, other): GPS
Latitude (decimal degrees): 35.608341 Longitude (decimal degrees): -77.385475

Contact Information Associated with the UST System

UST Owner: Abandoned in NCDOT Right of Way
Address: 1589 Mail Service Center Raleigh, NC 27699-1589 Phone: 919-707-6850
UST Operator: N/A
Address: _____ Phone: _____
Property Owner: NCDOT
Address: 1589 Mail Service Center Raleigh, NC 27699-1589 Phone: 919-707-6850
Property Occupant: N/A
Address: _____ Phone: _____
Consultant/Contractor: ATC Associates of North Carolina, P.C.
Address: 2725 E. Millbrook Road, Raleigh, NC 27604 Phone: 919-871-0999
Analytical Laboratory: Pace Analytical Services, Inc.
Address: 9800 Kinsey Avenue, Suite 100 Huntersville, NC 28078 Phone: 704-875-9092

Release Information

Date Discovered: N/A
Estimated Quantity of Release: N/A
Cause of Release: N/A
Source of Release (Piping/UST): N/A
Sizes and contents of UST system(s) from which the release occurred: N/A

II. INTRODUCTION

ATC Associates of North Carolina, P.C. (ATC) was retained by NCDOT to supervise the closure of multiple underground storage tanks (USTs) at 1310 West 14th Avenue in Greenville, Pitt County, North Carolina from September 15 to September 18, 2014 and from September 29 to October 3, 2014. The site location is shown on a topographic map in *Figure 1*.

The scope of services provided by ATC included the following:

- Supervision of search and excavation of possible UST locations
- Report preparation

This UST Closure Report presents a summary of field activities and observations and provides documentation of UST disposal and soil analytical results. As required by North Carolina Department of Environment and Natural Resources (NCDENR) guidelines, this UST closure report follows the GW/UST-12 format.

A. Site History

As per the Technical and Cost Proposal, ATC obtained a report provided by Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. The report was reviewed for information regarding reported releases of hazardous substances and petroleum products on or near the site. ATC also reviewed the “unmappable” (also referred to as “orphan”) listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the property in question based on the partial street address, city, or zip code. No unmappable sites were identified by ATC as being within the approximate minimum search distance from Parcels 52, 53, 54, and 57 (the Bowen parcels) based on the site reconnaissance and/or cross-referencing to mapped listings. In addition, the Bowen parcels were not listed on any federal/state/local databases reviewed for this part of the historical assessment. The adjacent property to the northwest across Spruce Street was listed as American Auto Body (Parcel 51) which was identified as a RCRA Non Generator and also listed on the FINDS database. The RCRA Non Generator list identifies sites that used to be on the RCRA generators database, but no longer generate wastes. The FINDS database is a “pointer” database that also indicates this site was a generator of hazardous wastes. The Sanborn Maps for the site depict the property as vacant from 1923 to 1946. The property buildings first appear in the 1958 Sanborn Maps. There were three concrete buildings, one each on Parcels 52, 53, and 54 while Parcel 57 is depicted as undeveloped. The building that was on Parcel 53 was labeled as dry cleaning. The building that

was on Parcel 52 was labeled as a Tin Shop. The building that was on Parcel 54 was not labeled. Aerial photographs depict the site developed with the same three buildings back to 1957.

GPS coordinates of anomalies identified as possible or known USTs were collected by Stantec during the preliminary site assessment (PSA) conducted by ATC for Parcel 52. On September 10, 2014 ATC contracted Stantec to conduct a utility locate and explore and mark out the coordinates of the previous anomalies identified as possible or known USTs using Ground Penetrating Radar (GPR) and Electromagnetic Equipment (EM).

On September 15, 2014 ATC contracted A&D Environmental Services, Inc. (A&D) to perform search, excavation and removal of the possible or known USTs. ATC supervised A&D in the search and excavation of Parcel 52.

One possible UST location was explored on Parcel 52. The anomaly identified as a possible UST marked out by Stantec was explored using a backhoe, excavating an area approximately 8 feet wide by 8 feet long by 8 feet deep. Concrete and other small debris was encountered, however no UST was discovered. ATC collected pictures and backfilled the excavation location. See *Figure I* for location of the explored areas.

III. GENERAL INFORMATION

A. Site Characteristics

1. *Describe any past releases at this site:*

According to a State-Lead Acceptance letter from NCDENR dated August, 14 2013 a release was confirmed on Parcel 52 under incident number 38383 and the risk of the release is “Undetermined.” However, no USTs were discovered during search and exploration activities.

2. *Is the facility active or inactive at this time? If the facility is inactive, note the last time the UST(s) were in operation:*

Parcel 52 is inactive and is currently vacant. The last time these USTs were in operation is unknown.

3. *Describe surrounding property use (for example, residential, commercial, farming, etc.):*

Parcel 52 is surrounded by Spruce Street to the north, W. 14th Avenue to the west, and a vacant property to the south and to the east (Parcels 53 and 54 respectively), which includes residential and retail commercial properties.

4. *Describe site geology/hydrogeology:*

The site lies within the coastal plain of North Carolina and is underlain by the Yorktown formation, which generally consists of fossiliferous clays and sands. The site lies in the Tar-Pamlico river basin.

During UST closure activities, the subsurface soils encountered consisted of light brown/orange, sandy clay. Groundwater was encountered at approximately 12 feet below ground surface during excavation activities.

5. *Describe results of receptor survey:*

ATC did not perform a receptor survey and there is no known completed survey.

IV. CLOSURE PROCEDURES

A. Preparations for Closure

In preparation of UST closure activities, ATC completed a Notice of Intent: UST Permanent Closure or Change-in-Service Form (GW/UST-3). A copy of the GW/UST-3 form is included in *Appendix A*.

ATC contacted the North Carolina One Call Center (ULOCO), as well as Stantec to mark underground utilities at the sites prior to tank closure activities. The Fire Marshall for the City of Greenville was also notified by the tank removal subcontractor, A&D, prior to removal activities.

B. Amount of Residual Material

There was no residual material produced from search and exploration activities.

C. Storage, Sampling, and Disposal of Residual Material

There was no residual material produced from search and exploration activities.

D. Excavation

1. *Describe excavation procedures noting the condition of the soil encountered and the dimensions of the excavation in relation to the tanks, piping, and/or pumps:*

The anomaly identified as a possible UST marked out by Stantec was explored using a backhoe, excavating an area approximately 8 feet wide by 8 feet long by 8 feet deep. Concrete and other small debris was encountered, however no USTs were discovered.

2. *Note the depth of tank burial(s) (from land surface to top of tank):*

There were no USTs discovered during search/excavation activities on this parcel.

3. *Note volume of soil excavated:*

Soils that were excavated to search and explore the possible UST areas were clean per photoionization detector (PID) field screening measurements and used to backfill after finding no USTs.

4. *Describe soil type(s) encountered:*

Soils encountered during excavation at the site consisted of light brown/ orange, sandy clays.

5. *Describe type and source of backfill used:*

Soils that were excavated to search and explore the possible UST areas were clean per PID field screening measurements and used to backfill after finding no USTs.

6. *Describe condition of UST system(s) (i.e., pitting, holes, etc.):*

There were no USTs discovered during search/excavation activities on this parcel.

E. Contaminated Soil

1. *Describe how it was determined to what extent to excavate the soil:*

There was no contaminated soil discovered during search/excavation activities on this parcel.

2. *Describe method of temporary storage, sampling, and treatment/disposal of soil:*

There was no contaminated soil discovered during search/excavation activities on this parcel.

V. SITE INVESTIGATION

A. Field Screening

Soils that were excavated to search and explore the possible UST areas were clean per photoionization detector (PID) field screening measurements and used to backfill after finding no USTs.

B. Soil Sampling

No USTs were discovered and all soils explored were clean per PID field screening measurements, therefore no soil sampling was conducted.

C. Quality Control Measures

N/A

D. Investigation Results

N/A

























VI. CONCLUSIONS

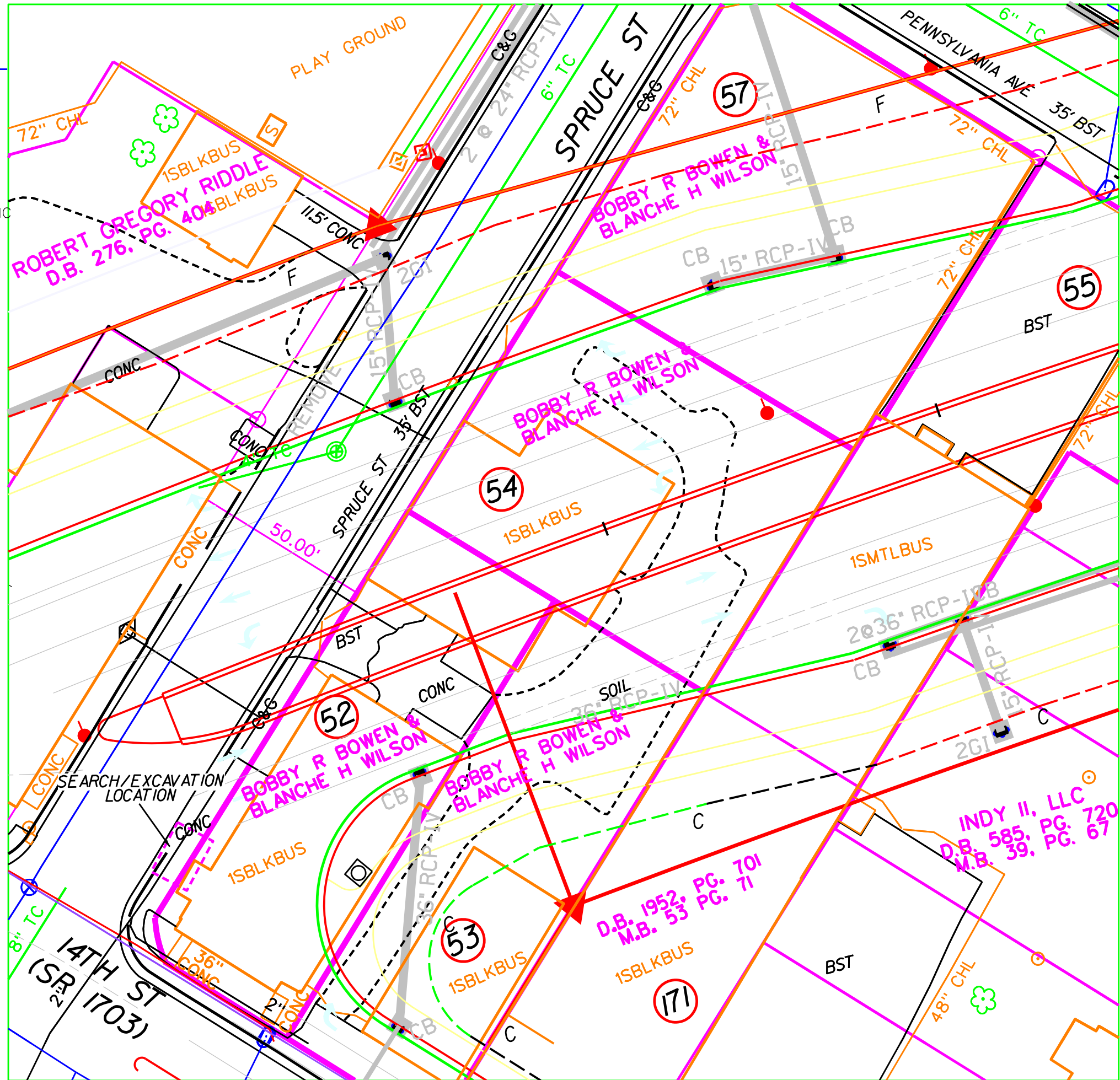
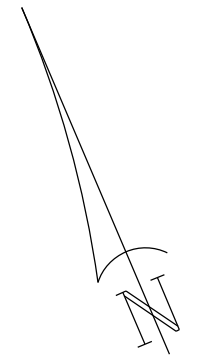
ATC has completed search and excavation of possible UST location activities at the Parcel 52 site in Greenville, North Carolina. The results of the activities indicate that no USTs occupy the possible locations that were designated. Based on a review of the site's historical data, geophysical investigation, and field assessment, ATC does not anticipate construction activities to come into contact with impacted soil and/or groundwater. However, if impacted soil or groundwater is encountered during construction activities, appropriate measures should be taken to ensure worker safety. In addition, any impacted soil or groundwater disturbed during construction should be handled and disposed of in accordance with applicable regulations.

ATC appreciates the opportunity to assist the NCDOT with this project. If you have questions or require additional information, please do not hesitate to contact us at (919) 871-0999.

FIGURES

LEGEND

-  EXISTING RIGHT OF WAY
-  PROPOSED RIGHT OF WAY
-  PROPERTY LINE
-  U/G CABLE TV
-  U/G CABLE TELEPHONE
-  U/G CABLE TELEPHONE FIBER OPTIC
-  U/G ELECTRIC
-  EXISTING HYDRO
-  U/G CABLE TV FIBER OPTIC
-  PERMANENT UTILITY EASEMENT
-  FILL LINE
-  CUT LINE
-  CHAIN LINK
-  CATCH BASIN
-  REINFORCED CONCRETE PIPE
-  EDGE OF TRAVEL
-  MANHOLE
-  TERRA COTTA PIPE
-  TRAFFIC SIGNAL POLE
-  UTILITY POLE
-  LIGHT POLE
-  SOIL BORING LOCATION
-  TEMPORARY WELL LOCATION
-  SEARCH/EXCAVATION LOCATION



ATC Associates of North Carolina, P.C.
 RALEIGH, NORTH CAROLINA (919) 871-0999 FAX (919) 871-0335
 SCALE 1"=30'-0" DATE 11-26-2014 PROJECT NO. 45.19873.0007

TITLE **FIGURE 1**
 SITE MAP
 BOBBY R BOWEN & BLANCHE H WILSON PROPERTY -
 PARCELS 52
 1310 W 14TH AVE
 GREENVILLE NC 27858
 WBS ELEMENT 35781.1.2
 PREP. BY GS
 REV. BY JC

NOTES:
 1) POSSIBLE JUST WAS NOT FOUND DURING EXPLORATION.

APPENDIX A

FORM GW/UST-3

UST-3 Notice of Intent: UST Permanent Closure or Change-in-Service

Return completed form to:

The DWM Regional Office located in the area where the facility is located. Send a copy to the Central Office in Raleigh so that the status of the tank may be changed to "PERMANENTLY CLOSED" and your tank fee account can be closed out. SEE MAP ON THE BACK OF THIS FORM FOR THE CENTRAL AND REGIONAL OFFICE ADDRESSES.

STATE USE ONLY

I.D. # _____

Date Received _____

INSTRUCTIONS (READ THIS FIRST)

Complete and return at least **thirty (30) days** prior to closure or change-in-service activities. If a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports then at least a **five (5) working days** notice is acceptable.

Completed UST closure or change-in-service site assessment reports, along with a copy of the UST-2 form, should be submitted to the appropriate Division of Waste Management (DWM) Regional Office within thirty (30) days following closure activities. The UST-2 form should also be submitted to the Central Office in Raleigh so that the status of the tanks may be changed to permanently closed and your tank fee account can be closed out.

UST closure and change-in-service site assessments must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. The *Guidelines for Tank Closure* can be obtained at www.wastenotnc.org.

You must make sure that USTs removed from your property are disposed of properly. When choosing a closure contractor, ask where the tank(s) will be taken for disposal. Usually, USTs are cleaned and cut up for scrap metal. This is dangerous work and must be performed by a qualified company. Tanks disposed of illegally in fields or other dumpsites can leak petroleum products and sludge into the environment. If your tanks are disposed of improperly, you could be held responsible for the cleanup of any environmental damage that occurs.

I. OWNERSHIP OF TANKS		II. LOCATION			
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Abandoned in NCDOT Right of Way		Facility Name or Company Parcel 52 (NCDOT)			
Street Address 1589 Mail Service Center		Facility ID # (If known) Unknown			
City Raleigh	County Wake	Street Address 1310 W. 14 th Avenue			
State NC	Zip Code 27699	City Greenville	County Pitt	Zip Code 27834	
Phone Number 919-707-6850		Phone Number 707-6850			

III. CONTACT PERSONNEL

Name: Jeff Corson	Company Name: ATC Associates	Job Title: Project Manager	Phone Number: 871-0999
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IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN SERVICE

- Contact local fire marshal.
- Plan entire closure event.
- Conduct Site Soil Assessment.
- If removing tanks or closing in place, refer to API Publication 2015 *Cleaning Petroleum Storage Tanks* and 1604 *Removal and Disposal of Used Underground Petroleum Storage Tanks*.
- Provide a sketch locating piping, tanks and soil sampling locations.
- Submit a closure report in the format of UST-12 (including the form UST-2) within thirty (30) days following the site investigation.
- If a release from the tanks 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. If a release has not occurred, the supervision, signature or seal of a P.E. or L.G. is not required.
- Keep closure records for three (3) years.

V. WORK TO BE PERFORMED BY

Contractor Name: A & D Environmental Services, Inc.		Contractor Company Name: A & D Environmental Services, Inc.		
Address: P.O. Box 484 High Point		State: NC	Zip Code: 27261	Phone No: 336-289-2835
Primary Consultant Name: ATC Associates		Primary Consultant Company Name: ATC Associates		Consultant Phone No: 919-871-0999

VI. TANKS SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

Tank ID No.	Size in Gallons	Last Contents	Proposed Activity		
			Closure		Change-In-Service New Contents Stored
			Removal	Abandonment in Place *	
6		Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7		Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8		Unknown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

* Prior written approval to abandon a tank in place must be received from a DWM Regional Office.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

I understand that I can be held responsible for environmental damage resulting from the improper disposal of my USTs.

Print name and official title: Garrett Stancil - Staff Scientist

Signature <u>Garrett Stancil (on behalf of NCDOT)</u>	Date Signed <u>2/13/15</u>	SCHEDULED REMOVAL DATE 9/16/14	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
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