

UNDERGROUND STORAGE TANK CLOSURE REPORT

Oscar L & Carol P Holloman Property - Parcel 49

1311 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**
Oscar L & Carol P Holloman Property - Parcel 49
1311 West 14th Avenue
Greenville, Pitt County, North Carolina
State Project: U-3315
WBS Element: 35781.1.2
ATC Project No. 45.19873.0007

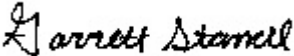
Dear Mr. Box:

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 1311 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

TABLE OF CONTENTS

I. SITE INFORMATION	1
II. INTRODUCTION	2
A. Site History	2
III. GENERAL INFORMATION	4
A. Site Characteristics.....	4
IV. CLOSURE PROCEDURES	5
A. Preparations for Closure.....	5
B. Amount of Residual Material.....	5
C. Storage, Sampling, and Disposal of Residual Material.....	5
D. Excavation.....	5
E. Contaminated Soil	6
V. SITE INVESTIGATION.....	6
A. Field Screening	6
B. Soil Sampling	6
C. Quality Control Measures	6
D. Investigation Results	6
VI. CONCLUSIONS.....	7

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): 38430 (Parcel 49)
Site Name: NCDOT U-3315 WBS Element 35781.1.2 Parcel 49
Site Location: 1311 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): 35.608436 Longitude (decimal degrees): -77.385875

incident:
WA-27385

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 1311 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

According to the request for technical and cost proposal (RFP) dated July 10, 2012, Parcel 49 (site) is located at 1311 West 14th Street in Greenville, North Carolina. Note that the Pitt County online parcel information system lists the site's location as 1401 West 14th Avenue. A site plan is included as Figure 1. The parcel is currently vacant and contains a dilapidated single-story structure. According to the adjacent property owner (Jonathan Sutton), the site may have historically operated as a tobacco warehouse. The parcel is bounded to the north by Farmville Boulevard, to the east by West 14th Avenue, and to the west by Raleigh Avenue. Adjacent properties toward the south are zoned commercial. As cited in the RFP and referenced by the North Carolina Department of Environment and Natural Resources' (NCDENR) Underground Storage Tank (UST) Section's registry, four USTs under facility ID 0-028711 were removed in 1990, 1991, and 1993. In addition, one UST has been reportedly filled with concrete. The historic use of these USTs is unknown; therefore, ATC contacted Jeff Welti of NCDENR on July 16, 2012, to further investigate the site. According to Mr. Welti, NCDENR's records reflect the address of 1311 West 14th Street (as opposed to Avenue). However, the UST owner (AB Whitley, Inc.) is the same as the owner referenced in the RFP. In addition, the records obtained by ATC depict one 1,000-gallon gasoline UST, one diesel UST of unknown size, and one varsol UST of unknown size. According to the November 1990 GW/UST-3 forms, the tanks were abandoned and left in place.

In addition to contacting NCDENR, 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 Parcel 49 based on the site reconnaissance and/or cross-referencing to mapped listings. In addition, Parcel 49 was not listed on any federal databases reviewed for this part of the historical assessment. However, Parcel 49 was listed in the state regulatory section as a UST facility under the name AB Whitley Inc. and located at 1311 West 14th Street. The EDR reported the USTs were installed between 1965 and 1979 and were permanently closed between 1990 and 1993. Details of the report state that the USTs were a 1,000-gallon gasoline, 550-gallon diesel, 550-gallon of unknown contents, 550-gallon of used oil, and a 280-gallon of heating oil UST. No information regarding release incidents was discussed. The 1958 Sanborn Map for the site depicts Growers Warehouse (Tobacco Sales) located on Parcel 49. The 1957 aerial photograph also depicts a structure that appears to be the same warehouse. The remaining historical information depicts the site as vacant.

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 49. 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 49.

Four possible UST locations were explored on Parcel 49. Each 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. ATC collected pictures and backfilled the excavation locations. The known heating oil UST on the property line adjacent to Parcel 170 used by the

current tenant was located but after further discussion with tank owner and NCDOT, it was left in place. See *Figure 1* 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 October, 3 2013 a release was confirmed on Parcel 49 under incident number 38430 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 49 is inactive, currently vacant and contains a dilapidated single-story structure. The last time these USTs were in operation is unknown.

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

Parcel 49 is surrounded by Farmville Boulevard to the north, Raleigh Avenue to the west, commercially zoned property to the south and W. 14th Avenue to the east, 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:

Each 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













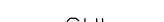


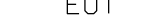
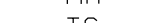







VI. CONCLUSIONS

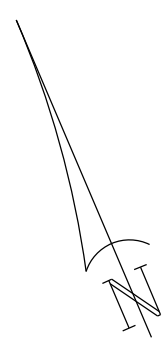
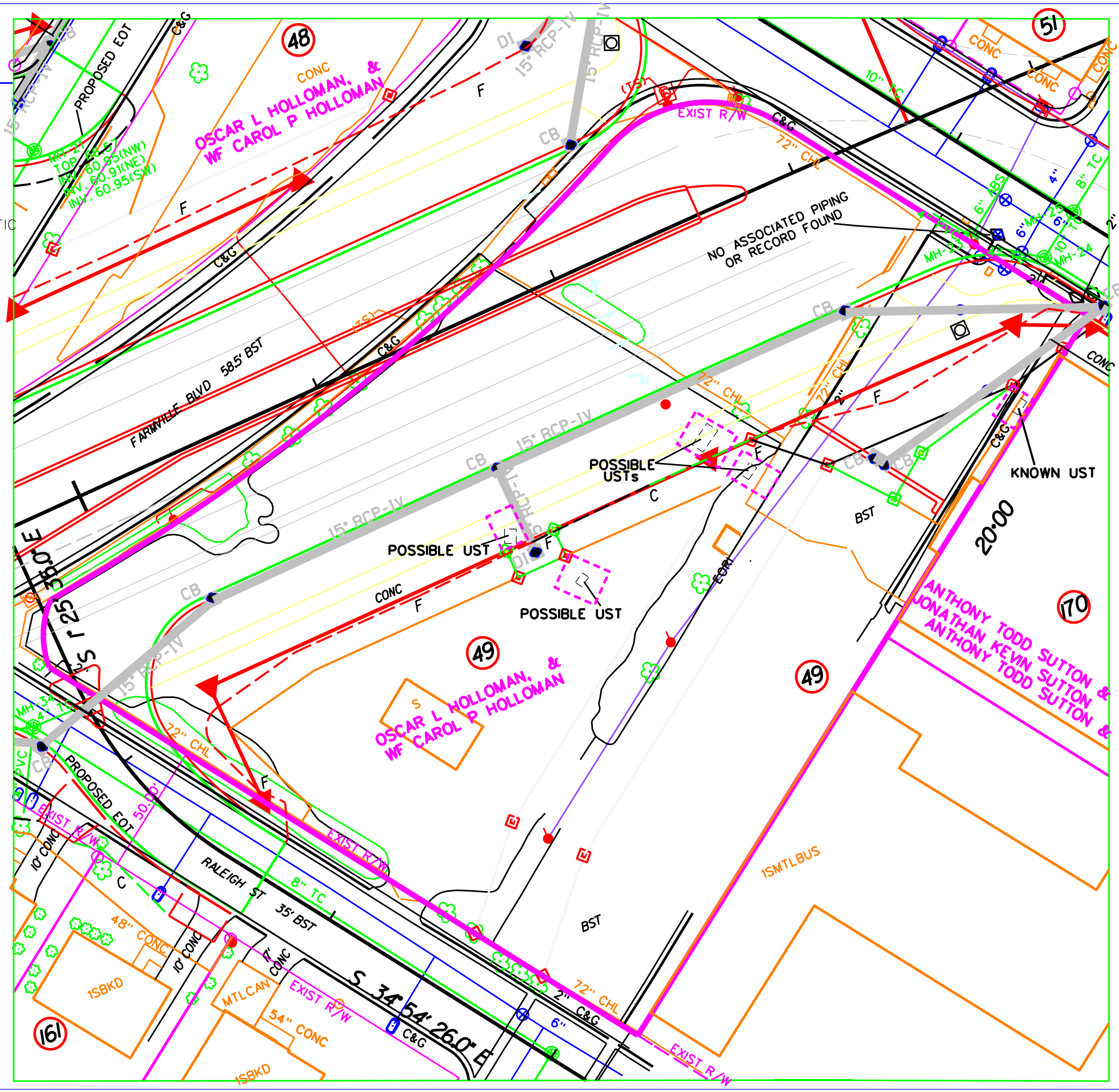
ATC has completed search and excavation of possible UST location activities at the Parcel 49 site in Greenville, North Carolina. The results of the activities indicate that no USTs occupy the possible locations that were designated. Based on a review of the site's historical data, geophysical investigation, 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
-  CHL CHAIN LINK
-  CB CATCH BASIN
-  RCP REINFORCED CONCRETE PIPE
-  EOT EDGE OF TRAVEL
-  MH MANHOLE
-  TC 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
 PROJECT NO. 45.19873.0007
 DATE 11-26-2014
 SCALE 1"=40'-0"
 REV. BY JC
 PREP. BY GS
 WBS ELEMENT 35781.1.2

TITLE **FIGURE 1**
 SITE MAP
 OSCAR L & CAROL P HOLLOWMAN PROPERTY - PARCEL 49
 1401 W 14TH AVE
 GREENVILLE NC 27858
 CAD FILE

NOTES:
 1) POSSIBLE UST'S WERE NOT FOUND DURING EXPLORATION.
 2) HEATING OIL TANK ADJACENT TO PARCEL 170 LEFT IN PLACE PER DIRECTION OF NCDOT.

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 49 (NCDOT)			
Street Address 1589 Mail Service Center		Facility ID # (If known) Unknown			
City Raleigh	County Wake	Street Address 1311 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

- | | | |
|--|--|---|
| <ol style="list-style-type: none"> Contact local fire marshal. Plan entire closure event. Conduct Site Soil Assessment. If removing tanks or closing in place, refer to API Publication 2015 <i>Cleaning Petroleum Storage Tanks</i> and 1604 <i>Removal and Disposal of Used Underground Petroleum Storage Tanks</i>. | <ol style="list-style-type: none"> 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 | <ol style="list-style-type: none"> 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		
			Removal	Abandonment in Place *	Change-In-Service New Contents Stored
1	1000	Gasoline, Gas Mix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2	550	Dielsel, Dielsel Mix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3	550	Dielsel, Dielsel Mix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	550	Dielsel, Dielsel Mix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5	280	Other Petroleum	<input checked="" 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 <u>9/16/14</u>	Notify your DWM Regional Office 48 hours before this date if scheduled removal date changes
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