

**UNDERGROUND STORAGE TANK CLOSURE REPORT  
FOR  
PARCEL 185 – FORMER DENNIS BUCK PROPERTY  
1001 DICKENSON AVENUE  
GREENVILLE, PITT COUNTY, NORTH CAROLINA**

**STATE PROJECT: U-3315  
WBS ELEMENT: 35781.1.2**

**OCTOBER 8, 2014**

**PREPARED FOR:**



**NCDOT**

**GEOTECHNICAL ENGINEERING UNIT-GEOENVIRONMENTAL SECTION  
1589 MAIL SERVICE CENTER  
RALEIGH, NORTH CAROLINA 27699-1589**

**PREPARED BY:**

**CATLIN ENGINEERS AND SCIENTISTS  
P.O. BOX 10279  
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**CATLIN PROJECT NO. 213161**

**CORPORATE GEOLOGY LICENSE CERTIFICATION NO. C-118  
CORPORATE LICENSURE NO. FOR ENGINEERING SERVICES C-0585**

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**OCTOBER 8, 2014**

**A. GENERAL INFORMATION**

**1. SITE INFORMATION**

**1.1 Site Name**

North Carolina Department Of Transportation (NCDOT)  
Right-of-Way (ROW)  
Parcel 185  
Former Dennis Buck Property  
**Facility I.D. Number:** 00-0-0000018382  
**Groundwater Incident:** 38399

**1.2 Site address, telephone number and county**

1001 Dickinson Avenue  
Greenville, Pitt County, North Carolina 27834  
Telephone: None  
Tank fill port (from GPS survey)  
(See Sheets 1 and 3)  
Longitude: -77.3804302° W  
Latitude: 35.6067436° N

**2. CONTACTS INFORMATION**

**2.1 Name, address, and telephone number of UST owner and operator**

Orphan

**2.2 Property Owner and Occupant**

NCDOT

**2.3 Name, address, telephone number and job title of primary contact person**

Mr. Gordon Box, LG  
NCDOT GeoEnvironmental Section  
1589 MSC  
Raleigh, North Carolina 27699-1589  
Telephone: 919-707-6850

**2.4 Name, address and telephone number of closure contractor**

Mr. Tony Disher  
EVO Corporation  
1703 Vargrave Street  
Winston-Salem, North Carolina 27107  
Telephone: 336-725-5844

**2.5 Name, address and telephone number of primary consultant**

CATLIN Engineers and Scientists (CATLIN)  
Attn: G. Richard Garrett, P.G.  
P.O. Box 10279  
Wilmington, North Carolina 28404-0279  
Telephone: 910-452-5861

**2.6 Name, address, telephone number, and State Certification number of laboratory**

Pace Analytical  
9800 Kinsey Ave. Ste 100  
Huntersville, North Carolina 28405  
Telephone: 704-875-9092  
North Carolina State Certification No. 12

**3. INFORMATION ABOUT RELEASE**

**3.1 Date Discovered:**

Information received by the North Carolina Department of Environment and Natural Resources (NCDENR) Washington Regional Office on March 11, 2013 indicated an underground storage tank (UST) release or discharge of petroleum at the site. A Preliminary Site Assessment (PSA) was conducted by Terracon on behalf of NCDOT. Soil and groundwater samples collected under the supervision of Terracon on September 7, 2012 and submitted for laboratory analysis subsequently revealed petroleum impacts.

## **B. SITE HISTORY AND CHARACTERIZATION**

Currently this site has been obtained by NCDOT ROW and all structures have been razed. According to information provided by the NCDOT and collected by Terracon, there are no known releases associated with tanks at the site, however, soil and groundwater contamination were revealed during Terracon's PSA in 2012. Parcel 185 previously operated as Flemings Gasoline Station. According to the NCDENR UST database, three on-site USTs were removed in 1989 and one UST was closed in place with inert materials. Four previously active USTs are reportedly located on the site and within the adjacent railroad right of way. Two in ground hydraulic lifts were also identified and following building demolition, a UST fill port was identified within the former building. The last date in service for the UST system(s) is unknown.

The facility UST information is summarized on Table 1 (NCDENR Table B-1]. The UST owner and operator information is summarized on Table 2 (NCDENR Table B-2).

According to the NCDOT Request for Proposal (RFP), the current scope of work at the site included excavating and properly disposing of soils necessary for removing the UST inside the former building and the hydraulic lifts (including tank contents). No over-excavation of petroleum impacted soils was requested. The previously active USTs within (or partially within) the railroad right of way are to remain as well as the closed in place UST.

## **C. CLOSURE PROCEDURES**

### **1. PREPARATIONS**

CATLIN was contracted by NCDOT to facilitate roadway construction by removing the UST and hydraulic lifts at the site (and in the right-of-way). CATLIN performed all field work in accordance with the site *Health and Safety Plan* (available for review at the CATLIN Wilmington Office).

CATLIN and subcontractor EVO personnel mobilized to the site on July 29, 2014. A permit was obtained from the City of Greenville and a copy is provided in Appendix A.

### **2. CLOSURE PROCEDURES**

The NCDOT Conventional Plan Sheet Symbols are provided on Sheet 2 and the site layout is illustrated on Sheet 3. As indicated on Table 1, numerous tanks were/are located at the site including a tank previously abandoned in place.

Concrete was removed from around the UST fill port and hydraulic lifts located within the former building. Residual fluid was pumped from the UST and hydraulic lift cylinders by a vacuum truck. The tank was then pressure washed with potable water and pumped dry again. Dry ice was placed in the tank to displace any potentially flammable vapors. EVO personnel measured the inside of the tank for acceptable oxygen and explosive vapor readings prior to removal. The City of Greenville Fire Marshal granted permission to remove the tank.

The top of the tank was approximately one and a half (1.5) feet below land surface (BLS). Sufficient soils were removed from the top and sides of the UST allowing it to be lifted from the excavation. The roughly 350 gallon tank was constructed of steel and found to be in poor condition with severe rusting and holes. The hydraulic lifts consisted of a single post lift (eastern most) approximately seven and a half (7.5) feet long/deep and a dual post lift (western) that was approximately seven and three-quarters (7.75) feet long/deep.

Excavated soils were loaded directly into a dump truck for off-site disposal. A *Site Investigation Report for Permanent Closure or Change-in-Service of UST (UST-2)* form is included in Appendix B.

#### **4. RESIDUAL MATERIAL AND DISPOSAL**

The residual material/fluid in the tank and hydraulic lifts were removed by the vacuum truck and properly disposed of at a permitted facility. According to the Certificates of Disposal in Appendix C, 160 gallons of non-hazardous contaminated water/petroleum/sludge were disposed of. As indicated on the Tank Disposal Certificates in Appendix C, the UST was transported to Triad Metal Recycling in Yadkinville, NC for proper disposal; the hydraulic lifts were transported to OmniSource Southeast in Winston-Salem, NC for proper disposal.

#### **5. SOIL EXCAVATION ACTIVITIES**

The top of the UST was approximately one and a half (1.5) feet BLS. The UST was four and a half (4.5) feet long and the bottom of the UST was approximately four and a half (4.5) feet BLS. No obvious petroleum contamination was noted. The bottoms of the hydraulic lifts were approximately seven and a half (7.5) feet BLS. Excavation activity photographs are provided in Appendix D.

Sandy clay and clayey sand soils were encountered surrounding the tanks. Soils were removed as necessary to facilitate UST and hydraulic lift tank removal. All excavated soils were loaded directly into a truck for transportation and proper disposal off site.

Clean sand with some clay from an offsite borrow source was used to backfill the excavation to the original ground surface. All backfill was emplaced and tamped with the excavator bucket.

## **D. SITE INVESTIGATION**

### **1. FIELD-SCREENING**

Soil screening with a photo-ionization detector was not conducted during this UST closure.

### **2. SOIL SAMPLING**

UST closure soil samples were collected in general accordance with NCDENR guidance documents. Grab samples were taken from the excavation floor beneath the tank and hydraulic lifts. The UST closure soil sample was collected beneath the middle of the removed tank at approximately six (6) feet BLS. Soil samples were collected beneath the eastern hydraulic lift cylinder at approximately eight (8) feet BLS. Soil samples were collected beneath each cylinder of the dual cylinder western hydraulic lift at approximately eight and a half (8.5) feet BLS.

The UST sample was identified by the parcel number, "UST" and depth [sample ID = 185 UST (6')]. The hydraulic lift soil samples were identified by parcel number, "Lift" and with general orientation, (east and west) and depth [sample identification example = 185 Lift-E (8')]. Soil sample locations are illustrated on Sheet 3. Sample material was obtained by the excavator bucket from beneath the former tank and hydraulic lift locations. Soil samples were packed into the appropriate laboratory provided glassware immediately following collection.

Four (4) soil samples were submitted to the laboratory for Total Petroleum Hydrocarbon (TPH) Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) analysis per Environmental Protection Agency (EPA) Method 8015C. Sample identifications, depths, and times are provided on the Chain-of-Custody in Appendix E.

### **3. GROUNDWATER SAMPLING**

No groundwater samples were collected during this investigation.

### **4. QUALITY CONTROL MEASURES**

Clean disposable nitrile gloves were used for each sampling event. Soil samples were collected by hand from undisturbed material obtained by the excavator bucket and packed directly into new

laboratory provided glassware.

All samples were placed into appropriate sample jars with Teflon<sup>®</sup> lid liners, labeled with the site location, date, time, initials of person collecting sample, sample identification number, depth of sample, and tests required. Samples were then placed on ice in a cooler and maintained at approximately 4° Celsius during storage and transport to the laboratory. A temperature blank and trip blank were preserved in the cooler along with the site samples. A Chain-of-Custody form was maintained from the point of sampling until delivery to the laboratory.

No duplicate samples were submitted for laboratory analysis. According to the attached laboratory report (see Appendix E), the sample results are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards and analytical quality control data is available upon request.

## **6. RESULTS**

Photographs of tank and lift removal and backfilling activities are provided in Appendix D. Summarized soil sample results are provided on Table 3 and illustrated on Sheet 3. The UST closure soil sample revealed TPH DRO and GRO at 678 milligrams per kilogram (mg/kg) and 22 mg/kg, respectively, which are above the NCDENR Action Level of 10 mg/kg.

Soil samples collected below the western dual hydraulic lift [185 Lift-W-W (8.5') and 185 Lift-W-E (8.5')] did not reveal detectable TPH GRO concentrations and TPH DRO concentrations were 1,150 mg/kg and 797 mg/kg, respectively. The soil sample "185 Lift-E (8')" did not reveal TPH DRO or GRO concentrations above 10 mg/kg or the laboratory reporting limits.

The complete laboratory analytical report is provided in Appendix E. No groundwater samples were collected during this investigation. Photographs of the final site conditions are provided in Appendix D.

## **E. SOIL DISPOSAL**

According to the Certificate of Disposal provided in Appendix C, 24.08 tons of soil has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

## **F. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS**

The UST closure and hydraulic lift(s) removal were completed in general accordance with applicable State and Federal Guidelines to facilitate NCDOT



related construction activities. Based on the results of this investigation, residual petroleum impacted soils remain beneath the former UST and western hydraulic lift cylinders. No groundwater sampling was conducted during this investigation. Groundwater impacts have been reported by others at the site.

CATLIN recommends forwarding a copy of this report to the NCDENR Washington Regional Office UST Section with a cover letter indicating the presence of TPH impacted soils above the NCDENR Action Level. Additionally, it is recommended that any utility or roadway construction contractor should be notified of these findings and be advised to be prepared to handle petroleum impacted soils near the former UST. In the event a cut is required for roadway construction or utility installation, any soil samples revealing detectable TPH concentrations will be considered petroleum impacted for handling and disposal purposes.

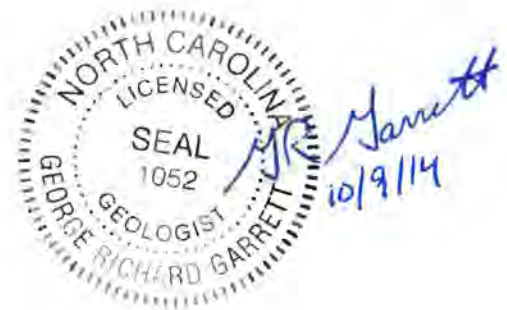
#### G. LIMITATIONS

This report is based on the agreed work scope and a review of available data from limited sampling. It is possible that this investigation may have failed to reveal the presence of contamination on the subject site where such contamination may exist. Although CATLIN has used accepted methods appropriate for UST closure and contaminated soil removal sampling, CATLIN cannot guarantee that additional soil and/or groundwater contamination does not exist.

#### H. SIGNATURES



Benjamin J. Ashba, P.G.  
Project Manager



G. Richard Garrett, P.G.  
Senior Project Manager

## TABLES

**TABLE 1  
 SITE HISTORY – UST SYSTEM AND OTHER RELEASE INFORMATION**

Incident Number & Name: 38399 – Former Dennis Buck Property  
 (Previously operated as Flemings Gasoline Station)

Facility ID: 00-0-0000018382

UST ID Number (assumed)	Current/ Last Contents	Previous Contents	Capacity (gallons)	Construction Details	Tank Dimensions	Description of Associated Piping and Pumps	Date Tank Installed	Status of UST	Was release associated with the UST System?
1	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	Removed 1989	Unknown
2	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	Removed 1989	Unknown
3	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	Removed 1989	Unknown
4	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	Closed In Place-1989	Unknown
5	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	Orphan	Unknown
6	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	<b>Orphan</b>	Unknown
7	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	<b>Orphan</b>	Unknown
8	Unknown	Unknown	Unknown	Steel (assumed)	Unknown	Unknown	Unknown	<b>Orphan</b>	Unknown
9	Waste Oil (assumed)	Unknown	350	Steel	3' x 4.5'	None	Unknown	Removed	Yes (assumed)

**TABLE 2  
 SITE HISTORY - UST OWNER AND OPERATOR INFORMATION**

Incident Number & Name: 38399 – Former Dennis Buck Property (Previously operated as Flemings Gasoline Station)

UST ID Numbers	1, 2, 3, 4, 5, 6, 7, 8, 9	Facility ID Number	00-0-0000018382
Name of Owner		Dates of Operation	
Orphan		Unknown	
Street Address			
1001 Dickinson Avenue			
City	State	Zip	Telephone Number
Greenville	NC	27834	None
Name of Operator		Dates of Operation	
Flemings Gasoline Station		Unknown	
Street Address (Site Address)			
1001 Dickinson Avenue			
City	State	Zip	Telephone Number
Greenville	NC	27834	None
Incident Number	38399		
Name of Other Responsible Party		Dates of Release(s)	
None		Unknown	
Street Address			
City	State	Zip	Telephone Number

**TABLE 3  
 SUMMARY OF SOIL LABORATORY RESULTS - EPA METHOD 8015C**

Incident Number: 38399  
 Incident Name: Former Denis Buck Property (Previously operated as Flemings Gasoline Station)  
 Facility ID: 00-0-0000018382

Sample ID	Contaminant of Concern →		TPH Diesel Range Organics (DRO)	TPH Gasoline Range Organics (GRO)
	Date Collected	Location		
185 Lift-E (8')	7/29/14	Beneath removed hydraulic lift cylinder on east side of former garage	<5.8	<5.2
185 Lift-W-W (8.5')	7/29/14	Beneath western hydraulic lift cylinder portion of dual hydraulic lift on west side of former garage	<b>1,150</b>	<5.6
185 Lift-W-E (8.5')	7/29/14	Beneath eastern hydraulic lift cylinder portion of dual hydraulic lift on west side of former garage	<b>797</b>	<6.5
185 UST (6')	7/29/14	Beneath removed tank within the former garage	<b>678</b>	<b>22.0</b>
<b>State Action Level (mg/kg)</b>			<b>10</b>	<b>10</b>

TPH = Total Petroleum Hydrocarbon  
 All results in milligrams per kilogram (mg/kg).  
 Sample depth below land surface provided in parenthesis as part of the sample identification.  
 < = Below Method Detection Limit  
 Bold results exceed the State Action Level of 10 mg/kg.

## FIGURES

DESCRIPTION:  
 FORMER DENNIS BUCK  
 PROPERTY (PARCEL 185)  
 1001 DICKENSON AVE.  
 GREENVILLE, NC



WBS ELEM: 35781.1.2	FIGURE No: 1
ST PROJ: U-3315	TOTAL FIGURES: 3
FA No: N/A	
COUNTY: PITT	

PREPARED BY:

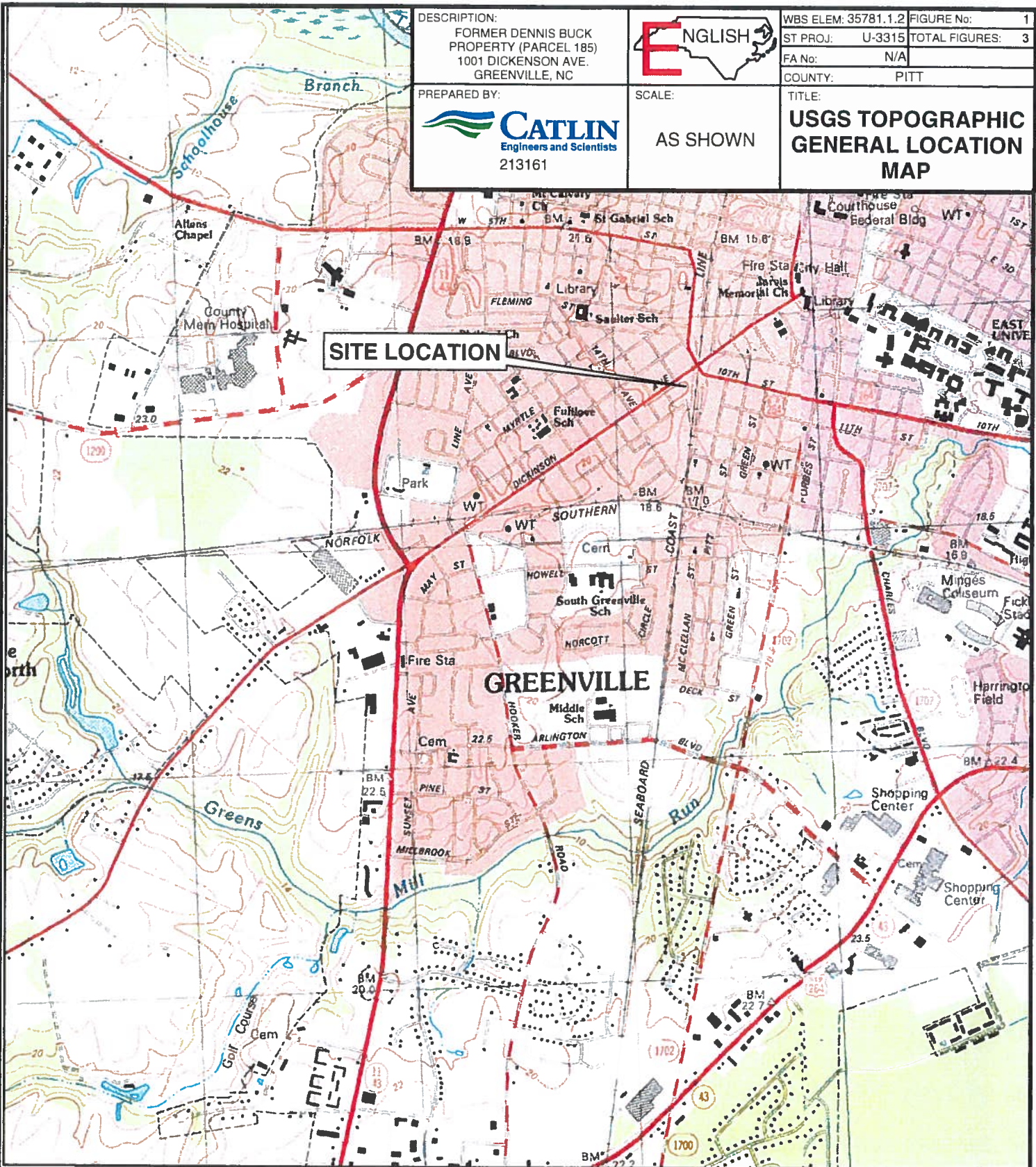


SCALE:

AS SHOWN

TITLE:

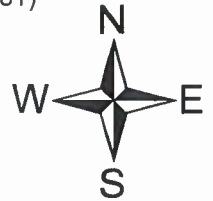
**USGS TOPOGRAPHIC  
 GENERAL LOCATION  
 MAP**



Source: Terrain Navigator Pro USGS Topographic Quadrangle, (Greenville SW and Greenville SE1981)



**SCALE**



Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	-----
Property Corner	-----
Property Monument	-----
Parcel/Sequence Number	-----
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----
Known Soil Contamination: Area or Site	-----
Potential Soil Contamination: Area or Site	-----

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	-----
Sign	-----
Well	-----
Small Mine	-----
Foundation	-----
Area Outline	-----
Cemetery	-----
Building	-----
School	-----
Church	-----
Dam	-----

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	-----
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	-----
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	-----
Existing Right of Way Marker	-----
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	-----
Proposed Control of Access	-----
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Aerial Utility Easement	-----
Proposed Permanent Easement with Iron Pin and Cap Marker	-----

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Curb Ramp	-----
Curb Cut Future Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	-----
Pavement Removal	-----

### VEGETATION:

Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----

Orchard	-----
Vineyard	-----

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	-----
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	-----
Proposed Power Pole	-----
Existing Joint Use Pole	-----
Proposed Joint Use Pole	-----
Power Manhole	-----
Power Line Tower	-----
Power Transformer	-----
U/G Power Cable Hand Hole	-----
H-Frame Pole	-----
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	-----
Proposed Telephone Pole	-----
Telephone Manhole	-----
Telephone Booth	-----
Telephone Pedestal	-----
Telephone Cell Tower	-----
U/G Telephone Cable Hand Hole	-----
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	-----
Water Meter	-----
Water Valve	-----
Water Hydrant	-----
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

### TV:

TV Satellite Dish	-----
TV Pedestal	-----
TV Tower	-----
U/G TV Cable Hand Hole	-----
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

### GAS:

Gas Valve	-----
Gas Meter	-----
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

### SANITARY SEWER:

Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

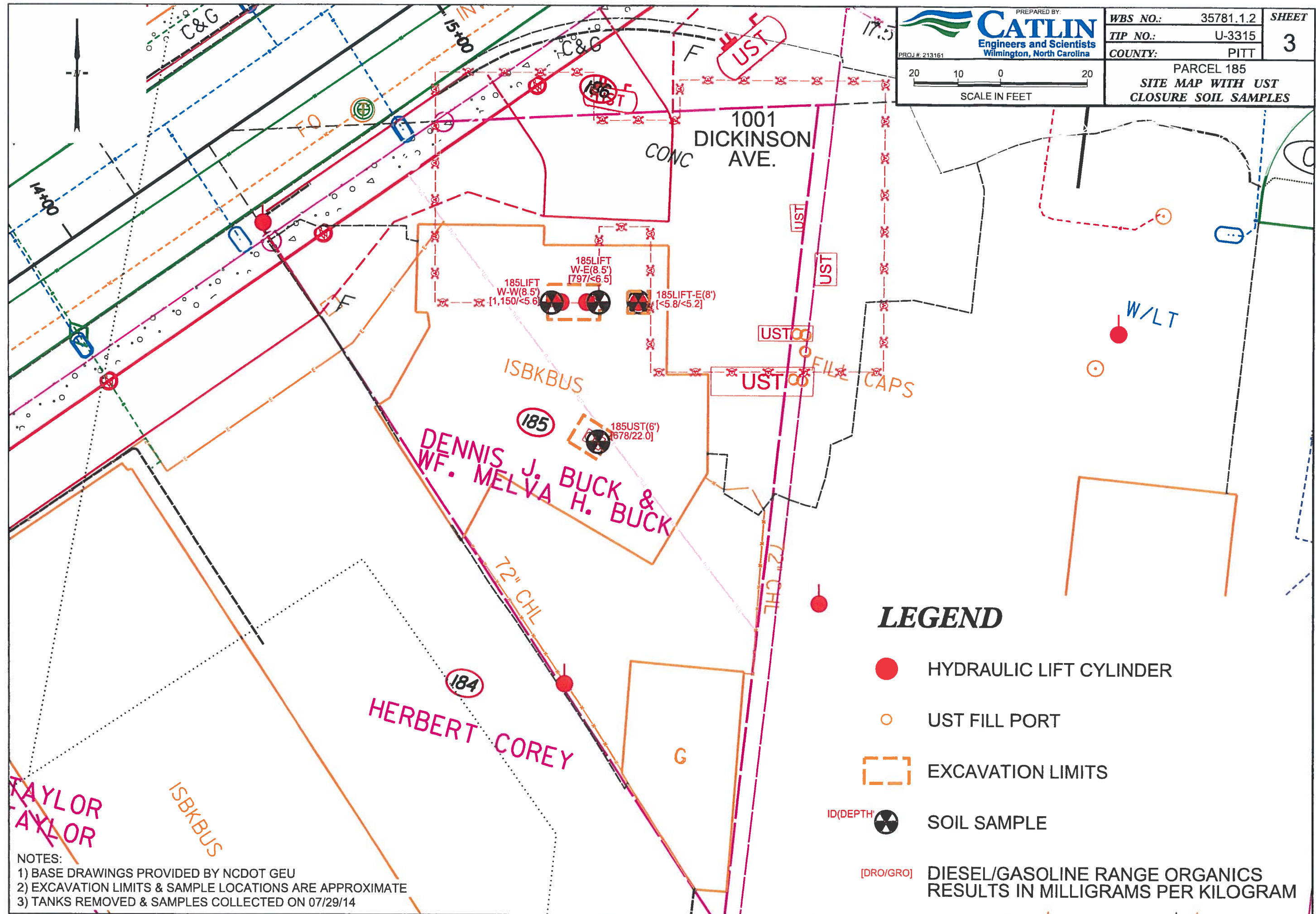
### MISCELLANEOUS:

Utility Pole	-----
Utility Pole with Base	-----
Utility Located Object	-----
Utility Traffic Signal Box	-----
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----
AG Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	-----
U/G Test Hole (S.U.E.*)	-----
Abandoned According to Utility Records	-----
End of Information	-----





PARCEL 185  
 SITE MAP WITH UST  
 CLOSURE SOIL SAMPLES



**LEGEND**

- HYDRAULIC LIFT CYLINDER
- UST FILL PORT
- EXCAVATION LIMITS
- SOIL SAMPLE
- DIESEL/GASOLINE RANGE ORGANICS RESULTS IN MILLIGRAMS PER KILOGRAM

NOTES:  
 1) BASE DRAWINGS PROVIDED BY NCDOT GEU  
 2) EXCAVATION LIMITS & SAMPLE LOCATIONS ARE APPROXIMATE  
 3) TANKS REMOVED & SAMPLES COLLECTED ON 07/29/14

## APPENDICES

**APPENDIX A**  
**CITY OF GREENVILLE FIRE/RESCUE PERMIT**



# CITY OF GREENVILLE, NC FIRE/RESCUE



## Application for Underground Storage Tank Permit

<p><b>Select Type</b></p> <p><input type="checkbox"/> Installation     \$150.00 per tank</p> <p><input checked="" type="checkbox"/> Extraction     \$125.00 per tank</p> <p><input type="checkbox"/> Abandonment     \$ 50.00 per tank</p> <p><input type="checkbox"/> Re-piping     \$ 50.00 per tank</p> <p><input type="checkbox"/> Follow-Up     \$ 50.00 per tank</p>	<p><b>Class of Work</b></p> <p><input type="checkbox"/> New Facility</p> <p><input checked="" type="checkbox"/> Closed Facility</p> <p><input type="checkbox"/> Repair</p> <p><input type="checkbox"/> Addition</p>	<p><b>Structure</b></p> <p><input checked="" type="checkbox"/> Service Station</p> <p><input type="checkbox"/> Commercial</p> <p><input type="checkbox"/> Multi-family Residential</p> <p><input type="checkbox"/> Other _____</p>
--	---	--

<b>Tank #1</b>	Tank Fee: \$ 125 <sup>00</sup>	Tank size: 550 gallons	Product Stored: Waste Oil
<b>Tank #2</b>	Tank Fee: \$	Tank size:	Product Stored:
<b>Tank #3</b>	Tank Fee: \$	Tank size:	Product Stored:

**Total Amount** \$ 125<sup>00</sup>

Company Name:	Evo Corporation		
Company Address:	1703 VARGRAVE STREET, Winston-Salem, NC 27107		
Site Address:	1001 DICKINSON AVE., GREENVILLE, NC		
Contact Name:	TONY DISHER	Telephone:	336-725-5844
Event Start Date:	07-28-2014	Event End Date:	07-29-2014
Comments:	NC DOT IS NOW THE PROPERTY OWNER		

**At time of payment, the applicant must submit any required copies of certifications, site plans and/or other documentation as stated by the North Carolina Fire Code and the City of Greenville Fire Marshal.**

Mail Application, documentation and payment to: *Greenville Fire/Rescue, PO Box 7207, Greenville, NC 27835* OR Submit in person to: *Greenville Fire/Rescue, 500 S. Greene St, Greenville, NC 27834.*

Make checks payable to: *City of Greenville*

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Fire/Rescue Use Only	
Date Received: 7/28/14	Receipt #: 220577
Date Reviewed: 07/29/14	Reviewed by: <i>Sal [Signature]</i>
<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Denied

**APPENDIX B**

**UST-2 FORM**

# UST-2 Site Investigation Report for Permanent Closure or Change-in-Service of UST

**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)**

For more than five UST systems you may attach additional forms as needed.

Permanent closure – For permanent closure, complete all sections of this form.

Change-in-service – For change-in-service where UST systems will be converted from containing a regulated substance to storing a non-regulated substance, complete sections I, II, III, IV, and VIII

Effective February 1, 1995, all UST closure/change-in-service reports must be submitted in the format provided in the UST-12 form. UST closure and change-in-services must be completed in accordance with the latest version of the *Guidelines for Tank Closure*. A copy of the UST-12 form and the *Guidelines for Tank Closure* can be obtained at [www.wastenotnc.org](http://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.

**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.

I. OWNERSHIP OF TANKS				II. LOCATION OF TANKS			
Owner Name (Corporation, Individual, Public Agency, or Other Entity) Orphan				Facility Name or Company Former Dennis Buck Property - NCDOT ROW			
Street Address				Facility ID # (If known) 00-0-0000018382			
City		County		Street Address 1001 Dickenson Avenue			
State		Zip Code		City Greenville		County Pitt	Zip Code 27834
Phone Number				Phone Number None			

**III. CONTACT PERSONNEL**

Contact for Facility: Gordon Box, LG		Job Title: NCDOT GeoEnvironmental Proj. Mgr.		Phone No: 919-707-6850	
Closure Contractor Name: Tony Disher	Closure Contractor Company: EVO	Address: 1703 Vargrave St. Winston-Salem, NC		Phone No: 336-725-5844	
Primary Consultant Name: Rick Garrett, P.G.	Primary Consultant Company: CATLIN Engineers & Scientists	Address: 220 Old Dairy Rd. Wilmington, NC		Phone No: 910-452-5861	

**IV. UST INFORMATION FOR REGISTERED UST SYSTEMS**

**V. EXCAVATION CONDITION**

Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Change-in-Service Date	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**VI. UST INFORMATION FOR UNREGISTERED UST SYSTEMS**

**VII. EXCAVATION CONDITION**

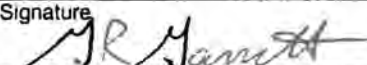
Tank ID No.	Size in Gallons	Tank Dimensions	Last Contents	Last Use Date	Permanent Close Date	Tank Owner Name *	Water in excavation		Free product		Notable odor or visible soil contamination	
							Yes	No	Yes	No	Yes	No
9	350	3' x 4.5'	Unknown	Unknown	7/29/14	Orphan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

\* If the tank owner address is different from the one listed in Section I., then enter the street address, city, state, zip code and telephone no. below:

**VIII. CERTIFICATION**

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  
G. Richard Garrett, P.G.; CATLIN agent for NCDOT

Signature  


Date Signed  
9/22/2014

**APPENDIX C**  
**CERTIFICATES OF DISPOSAL AND**  
**WASTE MATERIAL MANIFESTS**



1703 Vargrave Street  
Winston-Salem, NC 27107  
ph 336-725-5844  
fax 336-725-6244

---

---

## CERTIFICATE OF DISPOSAL

Evo Corporation. does hereby certify that 160 gallons of non-hazardous contaminated sludge received on 07/29/2014 from:

Generator: NCDOT

Originating at: 1001 Dickenson Ave.  
Greenville, NC

EC Waste ID #: 071453

has been disposed of by Evo Corporation. in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett  
CEO  
Evo Corporation





1703 Vargrave Street  
Winston-Salem, NC 27107  
ph 336-725-5844  
fax 336-725-6244

---

---

## TANK DISPOSAL CERTIFICATE

Tank Owner: NCDOT  
Site Address: 1001 Dickenson Ave.  
Greenville, NC

### Tank Description:

<u>Tank Number</u>	<u>Size of Tank</u>	<u>Contents</u>
1	350 Gallons	Waste Oil

Transporter: Evo Corporation

EC Project #: 071453

### Disposal Certification:

Evo Corporation does hereby certify that the above named storage tank was transported to Triad Metal Recycling in Yadkinville, NC for proper disposal and recycling.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett  
CEO  
Evo Corporation



1703 Vargrave Street  
Winston-Salem, NC 27107  
ph 336-725-5844  
fax 336-725-6244

---

---

## EQUIPMENT DISPOSAL CERTIFICATE

Lift Owner: NCDOT  
Site Address: 1001 Dickenson Ave.  
Greenville, NC

### Description of Equipment:

<u>Item Number</u>	<u>Description</u>	<u>Contents</u>
1	Hydraulic Lift	Hydraulic Oil
2	Hydraulic Lift	Hydraulic Oil

Transporter: Evo Corporation

EC Project #: 071453

### Disposal Certification:

Evo Corporation does hereby certify that the above named equipment was transported to OmniSource Southeast in Winston-Salem, NC for proper disposal and recycling.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett  
CEO  
Evo Corporation



1703 Vargrave Street  
Winston-Salem, NC 27107  
ph 336-725-5844  
fax 336-725-6244

---

---

## CERTIFICATE OF DISPOSAL

Evo Corporation does hereby certify that 24.08 tons of non-hazardous contaminated material received on 07/30/2014 from:

Generator: NCDOT

Originating at: 1001 Dickenson Ave.  
Greenville, NC

EC Waste ID #: 071453

has been disposed of by Evo Corporation in a manner approved by the North Carolina Department of Environment and Natural Resources.

A handwritten signature in black ink, appearing to read "Thomas W. Hammett", is written over a horizontal line.

Signature

Thomas W. Hammett  
CEO  
Evo Corporation

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load # \_\_\_\_\_

Manifest No. **71742**

### GENERATOR INFORMATION

Generator: \_\_\_\_\_

Phone: \_\_\_\_\_

Site Address: **NCDOT**

**919-707-6859**

City/State: **1001 Dickenson Ave.**

**Greenville, NC**

Contact: **Gordon Box**

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): \_\_\_\_\_

Material: \_\_\_\_\_

Empty Weight (lbs): \_\_\_\_\_

Contaminant: ~~Product~~ **Sludge** <sup>AR</sup>

Net Weight (lbs): \_\_\_\_\_

~~Waste Oil~~

Quantity

**160**

Tons Drums Pails Sacs Yards **Other: 991**

### TRANSPORTER INFORMATION


Transporter: **Evo Corporation**

Phone: **336-725-5844**

Truck #: \_\_\_\_\_

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: **7-29-14**

### FACILITY INFORMATION

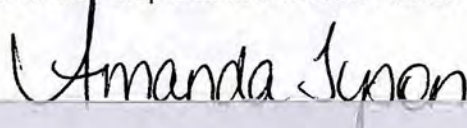
EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Evo Project #: **071453**

Phone: **(336) 725-5844**

Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: **7/29/14**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

# EVO CORPORATION

1703 Vargrave Street, Winston-Salem, NC 27107

www.evocorp.net

## NON-HAZARDOUS MATERIALS MANIFEST

Load #

Manifest No. **71744**

### GENERATOR INFORMATION

Generator: **NCDOT**

Phone: **919-707-6859**

Site Address: **1001 Dickenson Ave.**

City/State: **Greenville, NC**

Contact: **Gordon Box**

### MATERIAL DESCRIPTION / QUANTITY / WEIGHT

Gross Weight (lbs): **84,020**

Material: **Soil**

Empty Weight (lbs): **32,860**

Contaminant: **Waste Oil**

Net Weight (lbs): **48,160**

Quantity

**24.08**

**Tons** Drums Pails Sacs Yards Other: \_\_\_\_\_

### TRANSPORTER INFORMATION

Transporter: **Evo Corporation**

Phone: **336-725-5844**

Truck #: **208/30**

Contact: **Tony Disher**

As the transporter, I certify that the materials described above being shipped under this non-hazardous materials manifest are properly classified, packaged, labeled, secured and are in proper condition for transport in commerce under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.

Driver Signature: 

Date: **7-30-14**

### FACILITY INFORMATION

**071453**

Evo Project #: \_\_\_\_\_

EVO CORPORATION  
1703 Vargrave Street  
Winston-Salem, NC 27107

Phone: **(336) 725-5844**

Contact: **Tony Disher**

I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.

Facility Signature: 

Date: **7/30/14**

White/Facility

Canary/Invoice

Goldenrod/Generator

Pink/Carrier

40289022

TICKET NUMBER

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. If you make an affidavit from other scale companies to show we built up our guarantee with care.

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state BEFORE one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong. OR
- (2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company, direct 24 hours a day, at 1-877-687-SCALE ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

CAT SCALE  
COLLECTION  
CARD  
INSIDE!

CERTIFIED  
AUTOMATED  
TRUCK  
SCALE

CAT SCALE COMPANY  
PO. BOX 630  
WALCOTT, IA 52773  
(563) 284-6283  
[www.catscale.com](http://www.catscale.com)

\*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

7-30-2014

STEER AXLE

9500 lb

DRIVE AXLE

30380 lb

TRAILER AXLE

41140 lb

GROSS WEIGHT

81020 lb

1007

SCALE

40289022 LOCATION:

PUBLIC WEIGHMASTER'S  
CERTIFICATE OF  
WEIGHT & MEASURE

886

COUNTRY MARKET

4787 HWY 11 NORTH

BETHEL NC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

CRISTIAN PARRISH  
PUBLIC WEIGHMASTER  
LICENSE EXPIRES JUNE 30, 2014  
CRISTIAN PARRISH 37022  
(IF APPLICABLE)  
INVALID UNLESS SIGNED

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY: EVO

TRACTOR #

208

TRAILER #

301

WEIGH NUMBER

9022

FEE

\$10.00

WEIGHMASTER OR  
WEIGHER SIGNATURE

*[Signature]*  
KRISTIAN PARRISH

FULL WEIGH  
TICKET #  
(IF REWEIGH)

DO NOT WRITE IN THESE SPACES

CUSTOMER COPY

37063348

TICKET NUMBER



CERTIFIED  
AUTOMATED  
TRUCK  
SCALE

CAT SCALE COMPANY  
P.O. BOX 630  
WALCOTT, IA 52773  
(563) 284-6283  
www.catscale.com

**THE CAT SCALE GUARANTEE**

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

CAT SCALE  
COLLECTOR  
CARD  
INSIDE!

**WEIGH WHAT WE SAY OR WE PAY®**

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

- (1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
- (2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

**IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:**

- 1) Post bond and request a court date.
- 2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit [www.catscaleguarantee.com](http://www.catscaleguarantee.com) for instructions.
- 3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:

7-09-2014

STEER AXLE

9020 lb

DRIVE AXLE

13520 lb

TRAILER AXLE

10320 lb

US 220 N OF GREENBORO NC

32860 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

*Handwritten: New Empty*

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED

FREIGHT ALL KINDS

COMPANY EVD

TRACTOR # 200 TRAILER # 301

WEIGHMASTER OR  
WEIGHER SIGNATURE

*Handwritten Signature: Linda Simmons*

TICKET #  
(IF REWEIGH)

\$10.00

LINDA SIMMONS

© CAT Scale® Reg 3045 04/14

DRIVER, IN TRUCK, UNLESS CHECKED HERE.

CUSTOMER COPY

**APPENDIX D**  
**PHOTOGRAPHS**



**PARCEL 185 – FORMER DENNIS BUCK PROPERTY  
1001 DICKENSON AVENUE**



Looking north from southern portion of former building. UST fill port in foreground and hydraulic lift cylinders in background.



Looking west from eastern portion of former building. Single post (eastern most) hydraulic lift cylinder in foreground and dual post (western most) hydraulic lift cylinders in background.

**PARCEL 185 – FORMER DENNIS BUCK PROPERTY  
1001 DICKENSON AVENUE**



UST Excavation



Removed single post hydraulic lift.

**PARCEL 185 – FORMER DENNIS BUCK PROPERTY  
1001 DICKENSON AVENUE**



Dual post hydraulic lift excavation.



Removed hydraulic lift cylinders.

**PARCEL 185 – FORMER DENNIS BUCK PROPERTY  
1001 DICKENSON AVENUE**



Removed UST.



Looking north from southern portion of former building.  
Backfilled UST excavation in foreground and backfilled hydraulic lift cylinder  
excavations in background.

**APPENDIX E**

**LABORATORY ANALYTICAL REPORTS  
AND  
CHAIN-OF-CUSTODY DOCUMENTATION**

August 08, 2014

Ben Ashba  
CATLIN Engineers & Scientists, Inc.  
220 Old Dairy Road  
Wilmington, NC 28405

RE: Project: Parcel 185 WBS35781.1.2  
Pace Project No.: 92211575

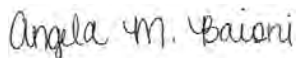
Dear Ben Ashba:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angela Baioni  
angela.baioni@pacelabs.com  
Project Manager

Enclosures

cc: Chemical Testing Engineer, NCDOT  
Rick Garrett, CATLIN Engineers and Scientists



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

---

### **Charlotte Certification IDs**

9800 Kincey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

---

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### SUMMARY OF DETECTION

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92211575001</b>	<b>185 Lift-E (8')</b>					
ASTM D2974-87	Percent Moisture	14.3 %		0.10	08/05/14 16:47	
<b>92211575002</b>	<b>185 Lift-W-W (8.5')</b>					
EPA 8015 Modified	Diesel Components	1150 mg/kg		28.9	08/07/14 23:11	
ASTM D2974-87	Percent Moisture	13.5 %		0.10	08/05/14 16:47	
<b>92211575003</b>	<b>185 Lift-W-E (8.5')</b>					
EPA 8015 Modified	Diesel Components	797 mg/kg		21.9	08/07/14 23:34	
ASTM D2974-87	Percent Moisture	8.7 %		0.10	08/05/14 16:47	
<b>92211575004</b>	<b>185 UST (6')</b>					
EPA 8015 Modified	Diesel Components	678 mg/kg		12.1	08/07/14 23:58	
EPA 8015 Modified	Gasoline Range Organics	22.0 mg/kg		6.0	08/04/14 22:25	
ASTM D2974-87	Percent Moisture	17.2 %		0.10	08/05/14 16:47	

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



## ANALYTICAL RESULTS

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

**Sample: 185 Lift-E (8')**      **Lab ID: 92211575001**      Collected: 07/29/14 10:30      Received: 08/01/14 09:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	ND	mg/kg	5.8	1	08/04/14 16:25	08/07/14 23:11	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	59	%	41-119	1	08/04/14 16:25	08/07/14 23:11	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	5.2	1	08/05/14 15:14	08/05/14 10:54	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	90	%	70-167	1	08/05/14 15:14	08/05/14 10:54	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>14.3</b>	%	0.10	1		08/05/14 16:47		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## ANALYTICAL RESULTS

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

**Sample: 185 Lift-W-W (8.5')**      **Lab ID: 92211575002**      Collected: 07/29/14 11:00      Received: 08/01/14 09:35      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 3546				
Diesel Components	<b>1150</b>	mg/kg	28.9	5	08/04/14 16:25	08/07/14 23:11	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	0 %		41-119	5	08/04/14 16:25	08/07/14 23:11	629-99-2	S4
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B				
Gasoline Range Organics	ND	mg/kg	5.6	1	08/04/14 15:03	08/04/14 21:40	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	87 %		70-167	1	08/04/14 15:03	08/04/14 21:40	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>13.5</b>	%	0.10	1		08/05/14 16:47		

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

### ANALYTICAL RESULTS

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

**Sample:** 185 Lift-W-E (8.5')    **Lab ID:** 92211575003    Collected: 07/29/14 11:10    Received: 08/01/14 09:35    Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 3546						
Diesel Components	<b>797</b>	mg/kg	21.9	4	08/04/14 16:25	08/07/14 23:34	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	391	%	41-119	4	08/04/14 16:25	08/07/14 23:34	629-99-2	S5
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified    Preparation Method: EPA 5035A/5030B						
Gasoline Range Organics	ND	mg/kg	6.5	1	08/04/14 15:03	08/04/14 22:03	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	85	%	70-167	1	08/04/14 15:03	08/04/14 22:03	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>8.7</b>	%	0.10	1		08/05/14 16:47		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

**Sample: 185 UST (6)**      **Lab ID: 92211575004**      Collected: 07/29/14 15:00      Received: 08/01/14 09:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015 GCS THC-Diesel</b>		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 3546				
Diesel Components	<b>678</b>	mg/kg	12.1	2	08/04/14 16:25	08/07/14 23:58	68334-30-5	
<b>Surrogates</b>								
n-Pentacosane (S)	83	%	41-119	2	08/04/14 16:25	08/07/14 23:58	629-99-2	
<b>Gasoline Range Organics</b>		Analytical Method: EPA 8015 Modified		Preparation Method: EPA 5035A/5030B				
Gasoline Range Organics	<b>22.0</b>	mg/kg	6.0	1	08/04/14 15:03	08/04/14 22:25	8006-61-9	
<b>Surrogates</b>								
4-Bromofluorobenzene (S)	99	%	70-167	1	08/04/14 15:03	08/04/14 22:25	460-00-4	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87						
Percent Moisture	<b>17.2</b>	%	0.10	1		08/05/14 16:47		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Parcel 185 WBS35781.1.2  
Pace Project No.: 92211575

QC Batch: GCV/8406 Analysis Method: EPA 8015 Modified  
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics  
Associated Lab Samples: 92211575002, 92211575003, 92211575004

METHOD BLANK: 1256078 Matrix: Solid  
Associated Lab Samples: 92211575002, 92211575003, 92211575004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.9	08/04/14 20:31	
4-Bromofluorobenzene (S)	%	87	70-167	08/04/14 20:31	

LABORATORY CONTROL SAMPLE: 1256079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	49.4	47.4	96	70-165	
4-Bromofluorobenzene (S)	%			89	70-167	

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### QUALITY CONTROL DATA

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

QC Batch:	GCV/8408	Analysis Method:	EPA 8015 Modified
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	92211575001		

METHOD BLANK: 1256496 Matrix: Solid

Associated Lab Samples: 92211575001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	5.9	08/05/14 10:08	
4-Bromofluorobenzene (S)	%	85	70-167	08/05/14 10:08	

LABORATORY CONTROL SAMPLE: 1256497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	48.8	45.4	93	70-165	
4-Bromofluorobenzene (S)	%			87	70-167	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256498 1256499

Parameter	Units	92211575001		MSD		MSD		% Rec		RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec			
Gasoline Range Organics	mg/kg	ND	43.3	43.3	48.4	49.3	111	113	47-187	2	
4-Bromofluorobenzene (S)	%						87	89	70-167		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

QC Batch: OEXT/29201 Analysis Method: EPA 8015 Modified  
 QC Batch Method: EPA 3546 Analysis Description: 8015 Solid GCSV  
 Associated Lab Samples: 92211575001, 92211575002, 92211575003, 92211575004

METHOD BLANK: 1256163 Matrix: Solid  
 Associated Lab Samples: 92211575001, 92211575002, 92211575003, 92211575004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Components	mg/kg	ND	5.0	08/06/14 22:46	
n-Pentacosane (S)	%	71	41-119	08/06/14 22:46	

LABORATORY CONTROL SAMPLE: 1256164

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Components	mg/kg	66.7	49.7	74	49-113	
n-Pentacosane (S)	%			69	41-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1256165 1256166

Parameter	Units	92211575002		1256165		1256166		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Diesel Components	mg/kg	1150	77.1	77.1	1130	1120	-18	10-146	1	M3
n-Pentacosane (S)	%						296	41-119		S5

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### QUALITY CONTROL DATA

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

QC Batch: PMST/6883

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92211575001, 92211575002, 92211575003, 92211575004

SAMPLE DUPLICATE: 1256450

Parameter	Units	92211549012 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	12.8	17.1	29	R1

SAMPLE DUPLICATE: 1256451

Parameter	Units	92211575004 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	17.2	16.5	4	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Parcel 185 WBS35781.1.2  
Pace Project No.: 92211575

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

- M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Parcel 185 WBS35781.1.2

Pace Project No.: 92211575

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92211575001	185 Lift-E (8')	EPA 3546	OEXT/29201	EPA 8015 Modified	GCSV/18448
92211575002	185 Lift-W-W (8.5')	EPA 3546	OEXT/29201	EPA 8015 Modified	GCSV/18448
92211575003	185 Lift-W-E (8.5')	EPA 3546	OEXT/29201	EPA 8015 Modified	GCSV/18448
92211575004	185 UST (6')	EPA 3546	OEXT/29201	EPA 8015 Modified	GCSV/18448
92211575001	185 Lift-E (8')	EPA 5035A/5030B	GCV/8408	EPA 8015 Modified	GCV/8414
92211575002	185 Lift-W-W (8.5')	EPA 5035A/5030B	GCV/8406	EPA 8015 Modified	GCV/8409
92211575003	185 Lift-W-E (8.5')	EPA 5035A/5030B	GCV/8406	EPA 8015 Modified	GCV/8409
92211575004	185 UST (6')	EPA 5035A/5030B	GCV/8406	EPA 8015 Modified	GCV/8409
92211575001	185 Lift-E (8')	ASTM D2974-87	PMST/6883		
92211575002	185 Lift-W-W (8.5')	ASTM D2974-87	PMST/6883		
92211575003	185 Lift-W-E (8.5')	ASTM D2974-87	PMST/6883		
92211575004	185 UST (6')	ASTM D2974-87	PMST/6883		

### REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Revised: April 07, 2014  
Page 1 of 2

Document Number:  
**F-CHR-CS-003-rev.14**

Issuing Authority:  
Pace Huntersville Quality Office

Client Name: CARLIN / NCDOT

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Custody Seal on Cooler/Box Present:  yes  no    Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_

Thermometer Used: IR Gun T1102 **T1401**    Type of Ice: Wet Blue None  Samples on ice, cooling process has begun

Temp Correction Factor    T1102: No Correction    T1301: No Correction

Corrected Cooler Temp.: 5.6 °C    Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: ans 8/1/14

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?    Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

SCURF Review:	<u>AMTB</u>	Date:	<u>8/1/14</u>
SRF Review:	<u>JNB</u>	Date:	<u>8/2/14</u>

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

**WO#: 92211575**

92211575

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1  
**1657245**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <u>CATLM/NCCOAT</u>	Report To: <u>Ben Ashby &amp; CATLM</u>	Attention: <u>Geo Enunio</u>	Company Name: <u>NCCOAT</u>	Regulatory Agency: <u>NC</u>	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Address: <u>220 Old Dairy Rd.</u>	Copy To: <u>WAS: 35781.1.Z PITH County</u>	Address: _____	Company Name: _____	Requested Analysis Filtered (Y/N)	
Email To: <u>benashby@catlm-usa.com</u>	Purchase Order No.: <u>J-3315</u>	Pace Quote Reference: <u>NCCOAT</u>	Pace Project Manager: <u>Angela</u>	Requested Analysis Filtered (Y/N)	Temp in °C _____ Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____
Phone: <u>910-452-5661</u>	Fax: <u>910-452-7523</u>	Pace Profile #: <u>5838-2</u>	Site Location STATE: <u>NC</u>		
Requested Due Date/TAT: <u>STANDARD</u>	Project Number: <u>2131614</u>	Project Name: <u>NCCOAT Greenville Race 185</u>			

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives		Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>			
1	185 Liff-E (B)	DW WT WW	SL6	X	DATE	TIME	DATE	TIME	4	2	↓	TPH 620 TPH DR0	001
2	185 Liff-W-W (B.S)	Waste Water Product Soil/Solid	↓	↓									002
3	185 Liff-W-E (B.S)	P SL OL	↓	↓									003
4	185 UST (G)	Oil Wipe Air Tissue Other	↓	↓									004
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS		REINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		<u>Ben Ashby/CATLM/Agent NCCOAT</u>		<u>7-31-14</u>		<u>1520</u>		<u>J Dixon/Pace</u>		<u>7-31-14</u>		<u>1520</u>		<u>Y N Y</u>	
								<u>Wagner Plumbing Pace</u>		<u>8/14/14</u>		<u>0935</u>		<u>5.6 N Y</u>	

**ORIGINAL**

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: Ben Ashby  
SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 07/31/14

Temp in °C \_\_\_\_\_  
Received on Ice (Y/N) \_\_\_\_\_  
Custody Sealed Cooler (Y/N) \_\_\_\_\_  
Samples Intact (Y/N) \_\_\_\_\_

F-ALL-Q-020-rev.07, 15-May-2007