



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION


BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 5, 2011

MEMORANDUM TO: D. Linwood Stone, PE
Project Development Group Supervisor
Project Development and Environmental Analysis Branch

ATTN: Karen Reynolds
Project Development Engineer

FROM: Terry W. Fox, LG 
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

TIP NO: 46136.1.1
WBS: W-5313
COUNTY: Rowan
DIVISION 9
DESCRIPTION: SR 1221 (Old Beatty Ford Road) from SR 1337 (Lentz Road) to
SR 2335 (Lower Stone Church Road)

SUBJECT: **Geotechnical Report for Planning**

The Geotechnical Engineering Unit has completed the Geotechnical Report for Planning. This report has the following components and is transmitted as:

X Hazardous Materials Report (7) pages

An electronic copy of the report can be found on Project Store at:

TIPProjects-W\W5313\Geotech\GeoEnvironmental\W5313_GEO_GEOENV:

Please contact the project team members listed in the report if you have any questions concerning this project.

MAILING ADDRESS:
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RALEIGH NC 27699-1589

TELEPHONE: 919-250-4088
FAX: 919-250-4237

www.ncdot.gov/doh/preconstruct/highway/geotech

LOCATION:
CENTURY CENTER COMPLEX
BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Hazardous Materials Report

The GeoEnvironmental Section of the Geotechnical Engineering Unit has investigated the above referenced project to identify hazardous material sites for inclusion in the environmental document.

HAZARDOUS MATERIALS EVALUATION

Purpose

This section presents the results of a hazardous material evaluation conducted along the above referenced project. The main purpose of this investigation is to identify properties within the project study area that are or may be contaminated and therefore result in increased project costs and future liability if acquired by the Department. Hazardous material impacts may include, but are not limited to, active and abandoned underground storage tank (UST) sites, hazardous waste sites, regulated landfills and unregulated dumpsites.

Techniques/Methodologies

The Geographical Information System (GIS) was consulted to identify known sites of concern in relation to the project corridor. Geotechnical Engineering Unit personnel conducted a field reconnaissance along the 7.4 mile project corridor on December 14, 2010. A search of appropriate environmental agencies' databases was performed to assist in evaluating sites identified during this study.

Findings

UST Facilities

Based on our study, five sites may contain petroleum USTs within the project limits.

Hazardous Waste Sites

No Hazardous Waste Sites were identified within the project limits.

Landfills

No apparent landfills were identified within the project limits.

Other GeoEnvironmental Concerns

No other geoenvironmental concerns were identified within the project limits.

Anticipated Impacts

Five possible UST facilities were identified within the proposed project corridor. We anticipate low monetary and scheduling impacts resulting from these sites. (See the following table and appendices for details)

Known and Potential Hazardous Material Sites

- 1) **Property Name**
 Crossroads Market
 4195 Lentz Road
 China Grove, NC 28023
- Property Owner:**
 A&K II, Inc.
 1778 Park Terrace Lane
 Winston-Salem, NC 27127
- Facility ID #:** 0-035209
Incident-UST #: MO-395
- UST Owner:**
 A&K II, Inc.
 4195 Lentz Road
 China Grove, NC 28023
- Parcel 4
 Steve Bell

This facility currently operates as a convenience store & gas station. It is located in the fork between Old Beatty Ford Road and Lentz Road. The tank bed is located approximately 45 feet from the Lentz Road centerline. According to the UST Section registry there are two tanks currently in use. A groundwater incident occurred in April 1992 while under the ownership of the Carolina Oil Company. The site has since received a No Further Action and the incident closed out in May 1992. There are no monitoring wells on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

- 2) **Property Name**
 Fox General Store
 4875 Old Beatty Ford Road
 China Grove, NC 28023
- Property Owner:**
 John M & Catherine Fox
 4875 Old Beatty Ford Road
 China Grove, NC 28023
- Facility ID #:** 0-019796
Incident #: 08516
- UST Owner:**
 John M. Fox
 4875 Old Beatty Ford Road
 China Grove, NC 28023
- Parcel 33

This facility currently operates as a convenience store & gas station. It is located in the southwest quadrant of Old Beatty Ford Road and Old Concord Road intersection. The tank bed is located approximately 40 feet from the Old Beatty Ford Road centerline. According to the UST Section registry there are two tanks currently in use. Four tanks were removed in 1993. There are monitoring wells on site and Ground Water Incident # 08516 has been assigned to this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

- 3) **Property Name**
 Menius Tractor Repair Entrance
 5920-30 Old Beatty Ford Road
 Rockwell, NC 28138
- Property Owner:**
 Jacob H.H. Sloop
 6020 Old Beatty Ford Road
 Rockwell, NC 28138
- Facility ID #:** 0-022027
Incident-UST #: MO-1473
- UST Owner:**
 Jacob H.H. Sloop
 6020 Old Beatty Ford Road
 Rockwell, NC 28138
- Off Project

The parcel currently operates as a farm tractor repair shop which is located several hundred feet north of the highway. The entrance is 450 feet west of Log Barn Farm Drive. A Sinclair Gas sign is located at the entrance and 80 feet north of the Old Beatty Ford Road centerline. According to the UST Section registry four tanks were removed from this parcel in 1985. A groundwater incident occurred in March 1990 and the incident closed out in April 1990. There are no monitoring wells on site. **This site is anticipated to present low geoenvironmental impacts to the project.**

4)	Property Name Former Gas Station 6825 Old Beatty Ford Road Rockwell, NC 28138 Facility ID #: N/A	Property Owner: John & Martha Russell 6825 Old Beatty Ford Road Rockwell, NC 28138 UST Owner: John & Martha Russell 6825 Old Beatty Ford Road Rockwell, NC 28138	Parcel 86
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This storage building once operated as a gas station as confirmed by local residents. It is located in the south side of Old Beatty Ford Road and approximately 600 feet east of Phaniel Church Road. The front of the structure is 50 feet from the Old Beatty Ford centerline. This facility does not appear on the UST Section registry and no monitoring wells were noted. **This site is anticipated to present low geoenvironmental impacts to the project.**

5)	Property Name Cheeseman's Grocery 9805 Old Beatty Ford Road Rockwell, NC 28138 Facility ID #: 0-034540	Property Owner: Larry & Jane Cheeseman 486 Carter Loop Road Rockwell, NC 28138 UST Owner: Cheeseman's Enterprises 9805 Old Beatty Ford Road Rockwell, NC 28138	W-5146
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This facility currently operates as a convenience store & gas station. It is located in the south quadrant of Old Beatty Road and Organ Church Road intersection. The tank bed is located approximately 100 feet from the center of the intersection. According to the UST Section registry there are four tanks currently in use. There are no monitoring wells on site and no ground water incidents associated with this facility. **This site is anticipated to present low geoenvironmental impacts to the project.**

The Geotechnical Engineering Unit can provide assessments on each of the above properties after identification of the selected alternative and before right of way acquisition. Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernable during the project reconnaissance may occur. The Geotechnical Engineering Unit should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

If there are questions regarding the geoenvironmental issues, please contact me, at 919-250-4088.

cc:

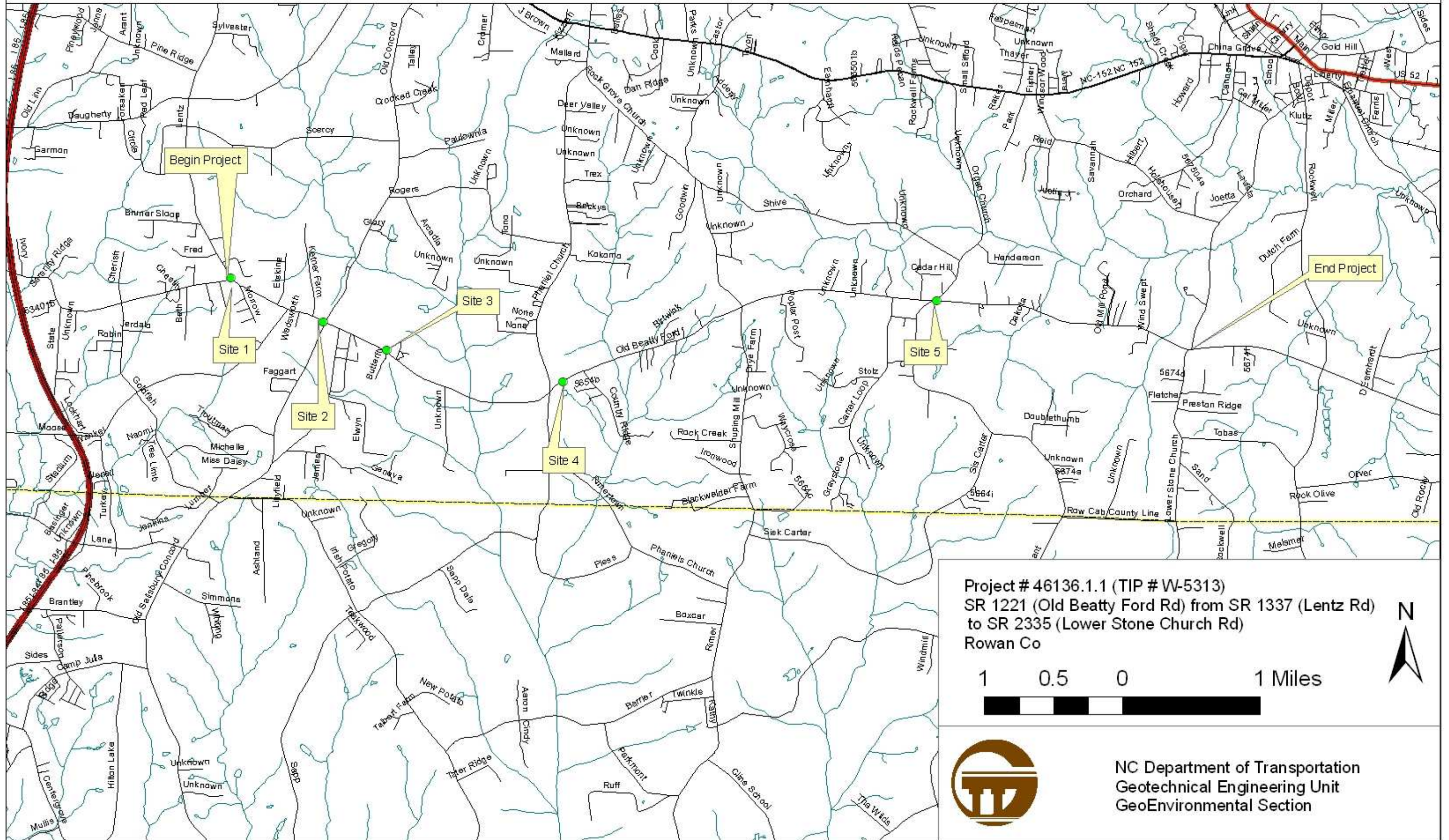
Tony Houser, PE, Roadway Project Engineer

Rodney Hatton, Division 9 Right of Way Agent

John Pilipchuk, PE, LG, Western Regional Geotechnical Engineering Unit Office

File

Appendix A Locations of USTs, Landfills, & Other Potentially Contaminated Sites



TIP W-5313

Site Photographs

December 14, 2010



Site 1: Crossroads Market. View to the north.



Site 2: Fox General Store. View to the northwest.



Site 3: Former gas station site. View to the north.



Site 4: Former gas station. View to the south.



Site 5: Cheeseman's Grocery. View to the southwest.