



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAT MCCRORY  
GOVERNOR

ANTHONY J. TATA  
SECRETARY

March 4, 2014

MEMORANDUM TO: Brett Abernathy, PE, PLS  
Division Project Manager, Division 9

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

TIP NO: W-5510  
WBS: 50080.1.1  
COUNTY: Forsyth  
DIVISION 9  
DESCRIPTION: SR 4315 (S. Main St) to SR 2648 (Old Winston Rd), SR 4315 (S. Main St) to Business 40/US 421/NC 150 to North of SR 4278 (S. Cherry St), and SR 2648 (Old Winston Rd)

SUBJECT: **GeoEnvironmental Report for Planning**

The GeoEnvironmental Section has completed the GeoEnvironmental Report for Planning. This report has the following components and is transmitted as:

X  Hazardous Materials Report ( 6 ) pages

Please contact me if you have any questions concerning this project.

**MAILING ADDRESS:**  
NC DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL ENGINEERING UNIT  
1589 MAIL SERVICE CENTER  
RALEIGH NC 27699-1589

TELEPHONE: 919-707-6850  
FAX: 919-250-4237  
[www.ncdot.gov/doh/preconstruct/highway/geotech](http://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 roundabout project. GeoEnvironmental Section personnel conducted a field reconnaissance along the above mentioned project on February 20, 2014. A search of appropriate environmental agencies' databases and Sanborn Maps was performed to assist in evaluating sites identified during this study.

#### **Findings**

##### **UST Facilities**

Based on our study, two (2) sites may contain petroleum USTs within the project limits.

##### **Hazardous Waste Sites**

No Hazardous Waste Site was identified within the project limits.

##### **Landfills**

No apparent landfills were identified within the project limits.

##### **Other GeoEnvironmental Concerns**

One (1) geoenvironmental concern, a former dry cleaning operation, was identified within the project limits.

#### **Anticipated Impacts**

Two (2) possible UST facilities and one (1) other geoenvironmental concern, a former dry cleaning operation, were identified within the proposed project limits. 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

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1)	<b>Property Name</b> 4 Brothers Food Store 216 831 S. Main St. Kernersville, NC 27284	<b>Property Owner:</b> NCDOT Parcel 11 Beroth Oil Co. PO Box 4089 Winston-Salem, NC 27115
	<b>Facility ID #:</b> 0-016400 <b>Incident #:</b> 13581	<b>UST Owner:</b> Beroth Oil Co. 20 West 32 <sup>nd</sup> St. Winston-Salem, NC 27105



This BP gas station and convenience store is located on south side of S. Main St and east of the I-40 Business interchange. According to the UST Section Registry there are four (4) tanks currently in use. Ground Water Incident 13581 was assigned to this parcel in 1994 due to MTBE contamination from the previous Amoco station at this location. The monitoring wells related to the gas station have since been abandoned. The active well on site is part of the monitoring system for the Site 3 former Camelot Cleaners dry-cleaning solvent contamination. **This site is anticipated to present low geoenvironmental impacts to the project.**

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2) **Property Name**  
Wilco Food Mart 126  
826 S. Main St.  
Kernersville, NC 27284

**Facility ID #:** 0-015007

**Incident #:** 10840

**Property Owner:** NCDOT Parcel 15  
Eac Investments LLC  
5446 University Parkway  
Winston-Salem, NC 27105

**UST Owner:**  
WilcoHess, LLC  
5446 University Parkway  
Winston-Salem, NC 27105



This gas station and convenience store is located on the northwest quadrant of South Main Street and Old Winston Road intersection. According to the UST Section Registry there are four (4) tanks currently in use. Four (4) tanks were removed in 1992 and Ground Water Incident 10840 was assigned to this property at that time. The site is still being actively monitored. Other wells surrounding this parcel are part of the monitoring system for the Site 3 former Camelot Cleaners dry-cleaning solvent contamination. **This site is anticipated to present low geoenvironmental impacts to the project.**

3) **Property Name**  
Former Camelot Cleaners site  
820 S. Main St.  
Kernersville, NC 27284  
**DSCA ID #:** 34-0007

**Property Owner:** NCDOT Parcel 17  
Dillon & Hastings Real Estate, Inc.  
301 E. Mountain St., E STE A  
Kernersville, NC 27284  
**UST Owner:**  
M.M. Fowler, Inc.



The Duck Palace Sweepstakes and Papa John's Pizza businesses are located on the northeast quadrant of South Main Street and Old Winston Road intersection. According to the DSCA Registry the Camelot Cleaners formerly operated from this parcel at 820 S. Main St. DSCA #34-0007 was assigned to this location. Numerous monitoring wells surround the property to monitor dry-cleaning solvent contamination. Wells near S. Cherry Street will be impacted by the proposed alignment. The top ground water contamination plume is at an average depth of over 20 feet. **This site is anticipated to present low geoenvironmental impacts to the project.**

Please note that discovery of additional sites not recorded by regulatory agencies and not reasonably discernible during the project reconnaissance may occur. The GeoEnvironmental Section 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 919-707-6870.

Handwritten signature of Terry W. Fox in blue ink.

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

cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer

David Chang, Ph.D, PE, State Hydraulics Engineer

Charles Brown, PE, PLS, State Locations and Surveys Engineer

Tom Koch, PE, Assistant State Structures Engineer

Jay Bennett, PE, State Roadway Design Engineer

Eric Midkiff, PE Project Development Section Head – Central Region

Rodney Hatton, Division Right of Way Agent

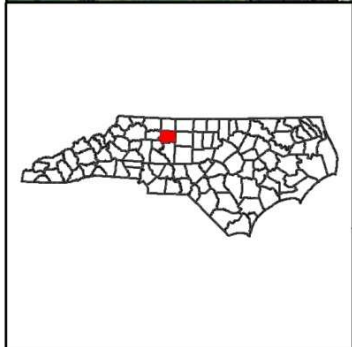
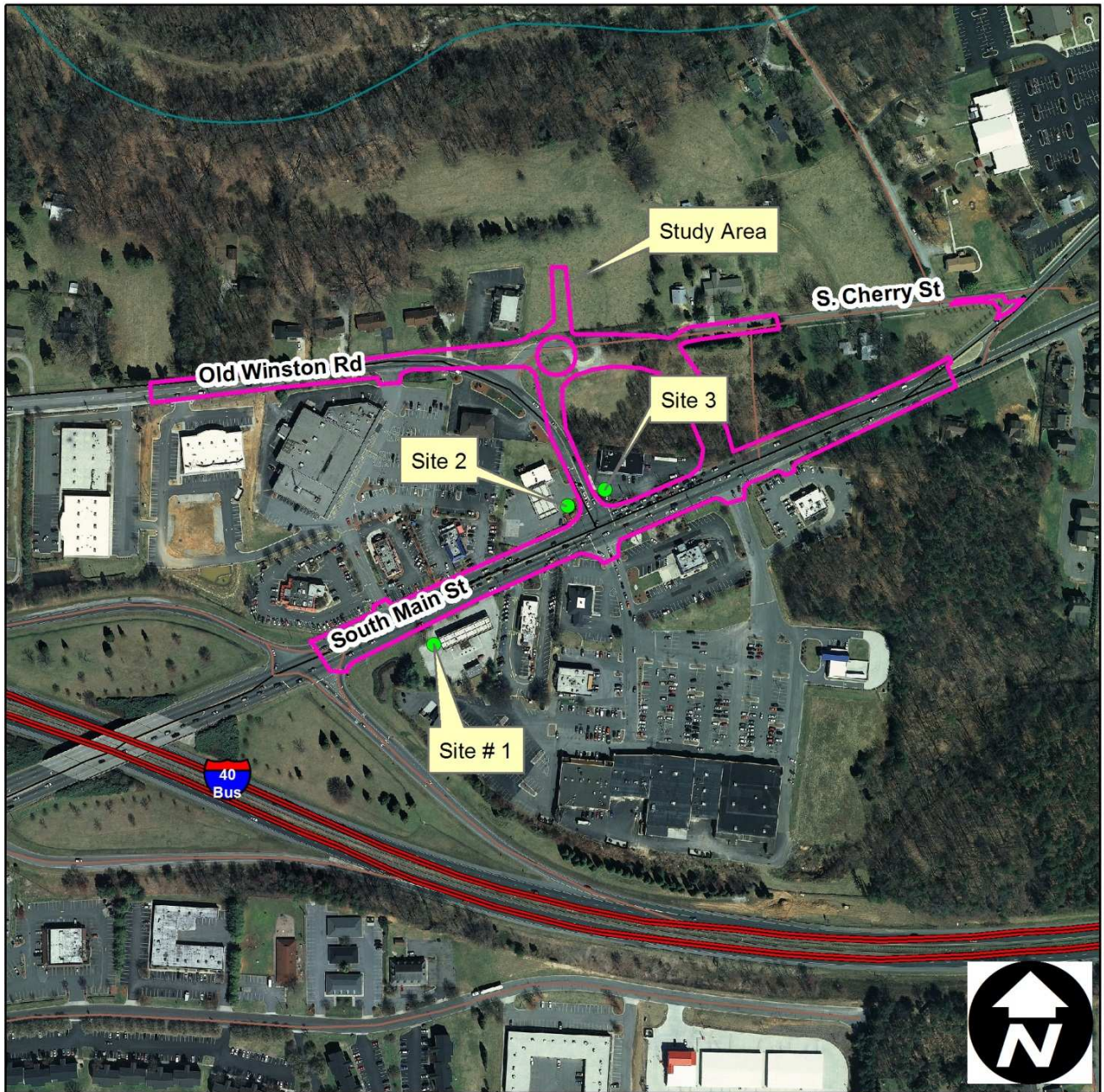
Eric Williams, PE, Geotechnical Regional Manager

Clint Little, LG, Regional Geological Engineer

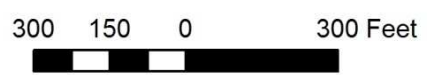
Dennis Li, Ph. D, LG, Production Support Supervisor

File

**Appendix A**  
**Location of USTs, Landfills, & Other Potentially Contaminated Sites**



Project 50080.1.1 (TIP # W-5510)  
 SR 4315 (S. Main St) to SR 2648 (Old Winston Rd),  
 SR 4315 (S. Main St) to Business 40/US 401/150 to  
 North of SR 4278 (S. Cherry St) and SR 2648 (Old Winston Rd)  
 Forsyth County



NC Department of Transportation  
 Geotechnical Engineering Unit  
 GeoEnvironmental Section

