



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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SECRETARY

January 14, 1997

STATE PROJECT: 8.2251001 (U-2734)
COUNTY: New Hanover
DESCRIPTION: Wilmington, SR 1409 (Military Cutoff Road) from north of US 74
(Eastwood Road) to US 17 (Market Street)

SUBJECT: **GeoEnvironmental Impact Study**
Hazardous Material Evaluation

Purpose

This report presents the results of a "GeoEnvironmental Impact Study" conducted along the above referenced project. The main purpose of this investigation is to identify properties within the project study area that may contain hazardous materials and result in future environmental liability if acquired. These hazards may include, but are not limited to: USTs, hazardous waste sites, regulated landfills and unregulated dump sites.

Methodology

A field reconnaissance survey was conducted within the proposed corridor along existing SR 1409 (Military Cutoff Road), between US 74 (Eastwood Road) and US 17 (Market Street). In addition to the field survey, a file search of appropriate environmental agencies was conducted to identify any known problem sites along the proposed project alignment.

Underground Storage Tank (UST) Facilities

Based on the field reconnaissance survey, 4 (four) facilities with the possibility for USTs were identified. A brief description of these sites is as follows:

- | | | |
|----|---|--|
| 1) | CP&L Eastern Division Complex
347 Military Cutoff Road
Wilmington, NC 28402 | UST Owner: CP&L HEEC
P.O. Box 1551
Raleigh, NC 27602 |
|----|---|--|

Facility I.D. # : 0-022624

This CP&L maintenance facility is located on the east side of SR 1409, south of SR 1889. The facility had a gas station and garage to service their vehicles. According to the field reconnaissance and Division of Water Quality (DWQ) registry, five (5) USTs were removed from the site (one in 1974, the rest in 1992). There are no USTs currently in use at the site. The garage is still in operation. Contamination was evident during the tank removal and the site is currently listed as Groundwater Incident # 3064. Active remediation at the site has been ongoing for the past several years. The project would probably not impact the former tank bed (it is approximately 150 meters from the centerline of SR 1409), but could impact the groundwater plume depending on its size.

- | | | |
|----|--|---|
| 2) | CBC Wilmington
111 Military Cutoff Road
Wilmington, NC 28405 | UST Owner: Carolina Builders Corporation
3000 Yokers Road
Raleigh, NC 27629 |
|----|--|---|

Facility I.D. # : 0-026351

This business is located on the east side of SR 1409, north of SR 1889. According to the field reconnaissance and DWQ registry, one (1) gasoline UST is currently in use at the site. It provides fuel for delivery trucks. It does not appear that the current alignment will impact the tank.

- | | | |
|----|--|-----------------|
| 3) | Ogden-N. Hanover Vol. Rescue Squad
251 Military Cutoff Road
Wilmington, NC 28405 | UST Owner: Same |
|----|--|-----------------|

Facility I.D. # : 0-020657

This rescue facility is located on the east side of SR 1409 across from the service road to the shopping center. According to the field reconnaissance and DWQ registry, one (1) gasoline UST was removed from the site in May 1995. The gasoline UST was in service for approximately 5 years and was used to fuel rescue squad vehicles. The former tank pit is approximately 45 meters from the centerline of SR 1409. A garage also operated at the site. The site does not appear to be under remediation at this time.

- | | | |
|----|---|---|
| 4) | Market Street Citgo
6980 Market Street
Wilmington, NC 28401 | UST Owner: Midstate Petroleum
1820 S. Main Street
Lexington, NC 27293 |
|----|---|---|

Facility I.D. # : 0-002452

This gas station/convenience store is located in the southwest quadrant of the US 17 and SR 1409 intersection. The DWQ registry lists six (6) USTs currently in use at the site. Groundwater has been contaminated at the site (Incident No. 10148) and is currently being monitored by DWQ. The main UST tank bed should not be impacted by the project, but there is one isolated UST approximately 24 meters from the centerline of SR 1409. Also, one set of pump islands is approximately 36 meters away, while another set is about 22 meters from the centerline of SR 1409.

Landfills and Other Potentially Contaminated Properties

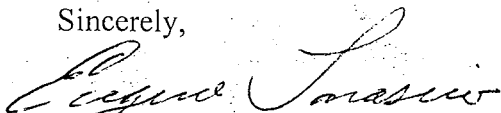
The Geographical Information Service (GIS) was consulted for the project corridor. The research shows that no regulated or unregulated landfills or dumpsites occur within the project limits.

Two gun clubs operated from on the east side of SR 1409 just north of Howe Creek. The rifle range operated from 1970 to 1980, while the pistol and skeet range operated until 1993. The main environmental concern would be the lead shot and bullets. It appears that all backstops and shooting took place far enough away from SR 1409 that the proposed widening will not impact this area.

Based on the field reconnaissance and records search, there should be no further environmental conflicts other than those mentioned in this report, which could potentially impact this project.

Roadway design should avoid or limit the proposed right-of-way encroachment at these sites because of potential environmental liabilities for proper cleanup and remediation if contamination exists. If the sites cannot be avoided, a "Preliminary Site Assessment" should be performed prior to right-of-way acquisition to determine the existence and extent of any contamination. This assessment will also be used by the Department to estimate the associated clean up costs.

Sincerely,



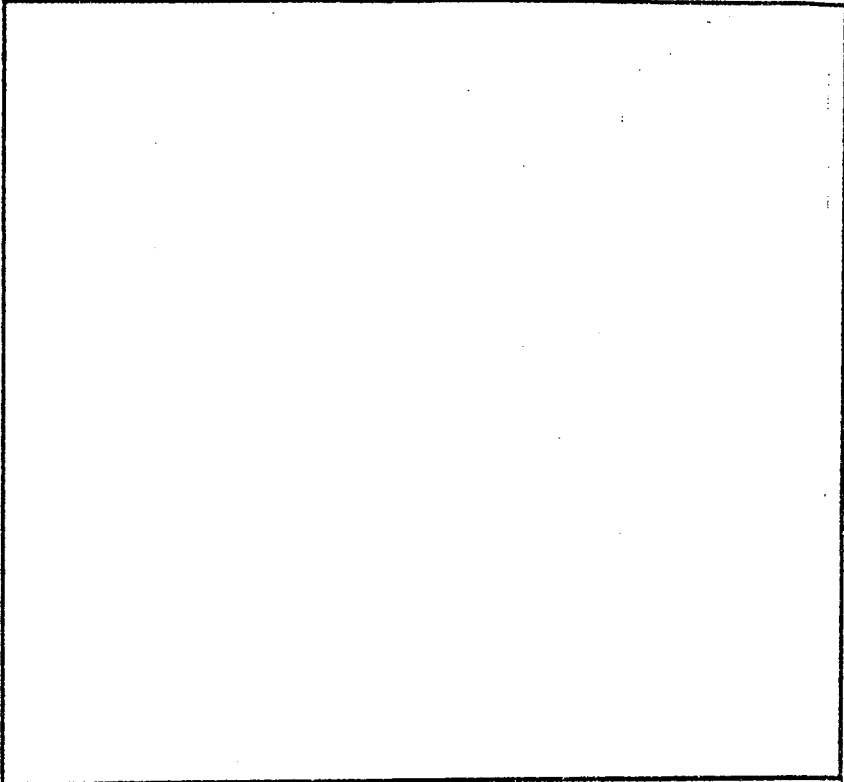
Eugene Tarascio
Project Environmental Geologist
Geotechnical Unit/GeoEnvironmental Section

cc: Ms. Sue R. Flowers, Roadway Design Unit

UST Information Checklist-Site Recon

Sketch Site (Ref. to -C-Line & Intersection)

UST Site # 2
 Project # 8.2251001
 Tip# U-2734
 County New Hanover
 DEM Registry Yes No Pg# 5309
 UST ID# 0-026351
 Installation Date(s): 9/21/88
 UST Type: steel FRP Steel w/FRP
 Cathodic Protection: yes no



UST	size	contents
1	10,000	gas

Site Information

Legend: PI - Pump Island
 O - monitor well

Facility Name: CBC Wilmington
 Address: 111 Military Cutoff ^{off Wilmington} NC 28305
 Phone: (910) 991-9444
 Evidence of UST system (?): yes no
 (ie. fill caps, vent pipes etc.)

UST Owner: Carolina Builders Corporation
 Address: 3000 Yankers Rd ^{Raleigh NC} 27629
 Phone: (919) 828-7471
 Approx # of USTs: 1
 Approx. distance from -C-Line: _____
 (closest point of UST system)

Intersection Quadrant (?): _____

Evidence of UST Removal (?): yes no
 Is site under remediation (?): yes no
 Are remediation wells in place (?): yes no
 Additional Notes: _____

