



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

Michael F. Easley
GOVERNOR

Lyndo Tippet
SECRETARY

February 3, 2006

MEMORANDUM TO: Mr. Rob Hanson, P. E.
Project Development Manager
Project Development and Environmental Analysis Branch

ATTENTION: Beverly Robinson
Project Development Engineer

FROM: Njoroge W. Wainaina, PE
State Geotechnical Engineer

TIP NO. U-4751/R-3300
WBS 40191.1.1/40237
FEDERAL PROJECT: N/A
COUNTY: New Hanover and Pender County
DESCRIPTION: Military Cutoff Road Extension from US 17 (Market Street) to the Proposed I-40 in New Hanover County and the US 17 Bypass in Hamstead in New Hanover and Pender Counties.

SUBJECT: Geotechnical Pre-Scoping Report (PDEA 1C)

The Geotechnical Engineering Unit performed a limited pre-scoping investigation of the above reference project to provide an early identification of any Geotechnical and GeoEnvironmental issues that might impact the project's planning, design or construction. The following information summarizes our findings.

Geoenvironmental Issues

Purpose

This report presents the results of a geoenvironmental impact 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. Geoenvironmental 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 Used

The Geographical Information System (GIS) was consulted to identify known environmentally impacting sites in relation to the project corridor. GeoEnvironmental Section personnel did not conducted a field reconnaissance survey along the project corridor. Once Alternatives have been developed for the projects, a more detailed field reconnaissance will be conducted.

Findings

Underground Storage Tank (UST) Facilities

Forty-three (43) registered UST facilities were identified within the corridor for the two projects.

Hazardous Waste Sites

Five (5) Superfund sites were identified within the corridor for the two projects.

Landfills

Three (3) landfills were identified within the corridor for the two projects.

Other GeoEnvironmental Concerns

Sixty-three (63) groundwater incidents, mainly from USTs, were identified within the corridor for the two projects.

Anticipated Impacts

There are a total of forty-three (43) registered UST facilities, five (5) Superfund sites, three (3) landfills and sixty-three (63) groundwater incidents identified within the corridor for the two projects. We anticipate mainly low to moderate monetary and scheduling impacts resulting from the registered UST facilities and groundwater incidents. For the Superfund sites and landfills, we anticipate moderate to high monetary and scheduling impacts.

The GeoEnvironmental Section observed no additional contaminated properties during the regulatory agencies' records search. The GeoEnvironmental Section will provide soil and groundwater 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 GeoEnvironmental Section should be notified immediately after discovery of such sites so their potential impact(s) may be assessed.

If there are any questions regarding the geoenvironmental comments, please contact Gene Tarascio, GIT, at 919-250-4088.

GEOTECHNICAL ISSUES

Methodology

Existing data regarding local soil characteristics, hydrology, and topography was consulted for this project.

Finds and Anticipated Impacts

There are no known Geotechnical Issues which should impact project planning anticipated on this project. Therefore, Geotechnical issues will be addressed in a later phase.

For Geotechnical Engineering questions please contact Jamey Batts, P.E. at (919) 662-3576 or Dean Argenbright, L.G. at (252) 355-9054.

NWW/ET/JEB/DA/dbm/jb

Figure 1
Locations of USTs, Landfills, & Other Potentially Contaminated Sites

