



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 25, 2018

MEMORANDUM TO: Tierre Peterson, PE
PEF Coordination Team Leader
Structures Management Unit

FROM: Dennis G Li, Ph. D., LG
GeoEnvironmental Project Manager
GeoEnvironmental Section
Geotechnical Engineering Unit

DocuSigned by:
Dennis Li
3288528EC798426...
9/26/2018

TIP NO: BR-0011
WBS: 67011.1.1
COUNTY: CHEROKEE
DIVISION: 14
DESCRIPTION: Replacement of Bridge 190002 along NC 141 over Slow Creek. (The project will maintain the 2-lane roadway currently in use.)

SUBJECT: **GeoEnvironmental Planning Report**

The GeoEnvironmental Section of the Geotechnical Engineering Unit performed a Phase I field investigation on July 20, 2018 for the above referenced project to identify geoenvironmental sites of concern. The purpose of this report is to document sites of concern within the project study area that are or may be contaminated. These sites of concern should be included in the environmental planning document in an effort to assist the project stakeholders in reducing or avoiding impacts to these sites. Sites of concern may include, but are not limited to, underground storage tank (UST) sites, dry cleaning facilities, hazardous waste sites, regulated landfills and unregulated dumpsites.

Findings

Three (3) sites of concern were identified within the proposed study area. We anticipate low monetary and scheduling impacts resulting from these sites. See the following table and figure for details.

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) 707-6857.

cc:

John Pilipchuk, LG, PE, State Geotechnical Engineer

Stephen R. Morgan, PE, State Hydraulics Engineer

Brain Hanks, PE, State Structures Engineer

J. Dale Burton, PE, PLS, State Locations and Surveys Engineer

Carl Barclay, PE, State Utilities Manager

Ted Adams, Division 14 Construction Engineer

Frankie Dills, Division 14 Assistant Right of Way Agent

Eric Williams, PE Geotechnical Regional Manager

Jody Kuhne, LG, PE, Regional Geological Engineer

Steve Grimes, ROW Unit, Negotiations, State Negotiator

row-notify@ncdot.gov;

roadwaydesign@ncdot.gov;

hydraulics_notify@ncdot.gov;

[file](#)

(01) Property Name:

Peachtree Corner Express
1825 NC HWY 141
MURPHY, NC 28906

Facility ID: 00-0-0000029288

Property Owner:

KILPATRICK JOSEPH C JR &
W/KILPATRICK VERNIECE R
2870 WHITBY DR
ATLANTA, GA 30340

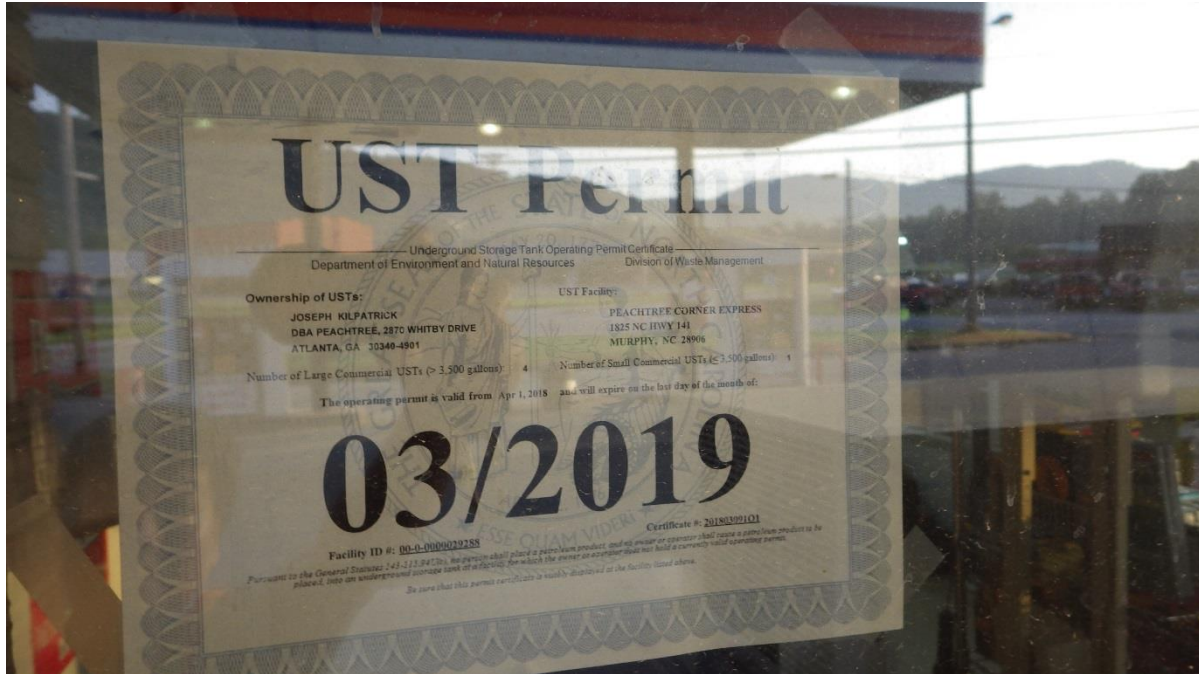
UST Owner:

JOSEPH KILPATRICK DBA Peachtree
2870 WHITBY DR
ATLANTA, GA 30340



Anticipated Impacts: LOW

This is an active gas station and convenience store. No monitoring wells observed on site. No record in NCDEQ's database.



Current UST permit

(02) Property Name:

Peachtree Service Center
1828 NC HWY 141
MURPHY, NC 28906

Property Owner:

COTE RAYMOND P JR & W/COTE
CONSTANCE M
PO BOX 1233
MURPHY, NC 28906

Facility ID: N/A

Incident Type/Number: 5461



Anticipated Impacts: LOW

This is a former gas station. USTs appear to be removed. Contamination occurred and was reported in 1990 and the incident was closed out in 1997. No monitoring wells observed on site during site visit.



Former Disperser island (removed).



Former USTs (removed) area.

(03) Property Name:

MOOG COMPONENTS GROUP(Former
LITTON IND CLIFTON PRECISION DIV)
1995 NC HWY 141
MURPHY, NC 28906

Property Owner:

MOOG COMPONENTS GROUP INC
PO BOX 160
MURPHY, NC 28906

Facility ID: EPA FACILITY ID: NCD044438406

Incident Type/Number: EPA FACILITY ID:
NCD044438406



Anticipated Impacts: LOW

This is a listed superfund Groundwater Incident site. However, based on the EPA report in 2007, the site only poses negligible health effect to anyone exposed to the creek surface water. The site began operations in 1967 as Clifton Precision, under the ownership of Litton Industries. Clifton Precision manufactured small electric rotary components and motors. The operations resulted in releases of VOCs, such as trichloroethylene (TCE), to shallow groundwater from an underground storage tank and from a percolation pit. The shallow groundwater table recharges water to Slow Creek on the north side of the facility (downstream from this bridge project site). The creek has been sampled biannually for VOCs since 1996.



The area in front of the tree line, an air stripping remediation system has been operated there. The location is downstream from the BR-0011 bridge project site. (EPA Report in the project file.)



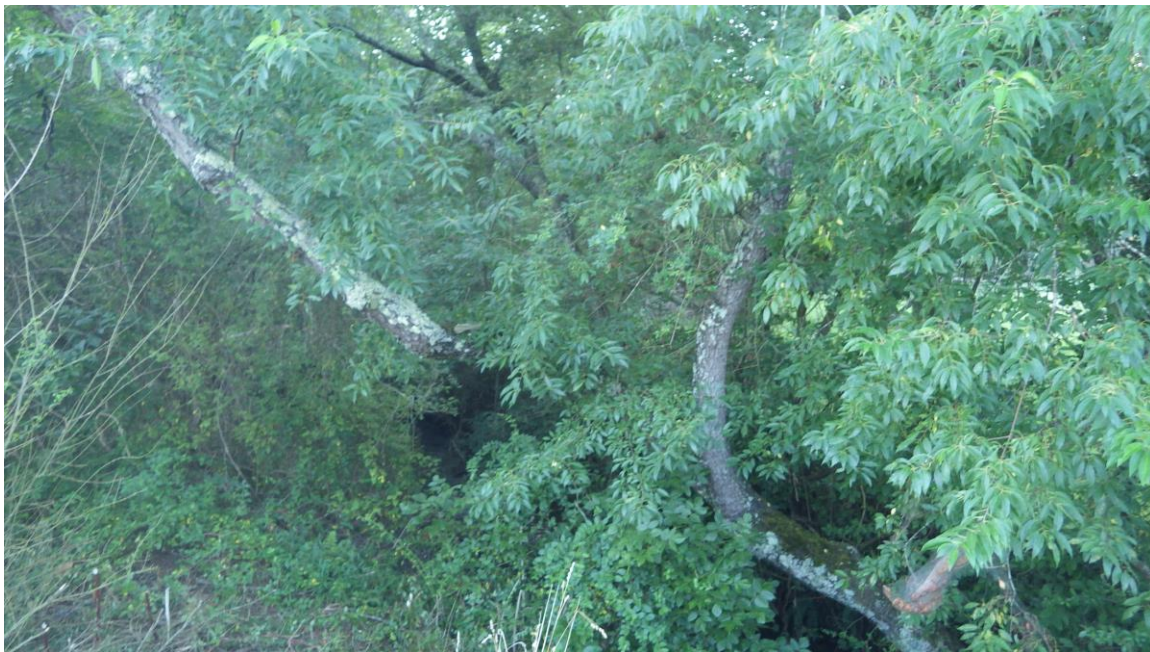
View on NC 141 looking to the South (red brick building is site #3, superfund site).



View on NC 141 looking to the North.

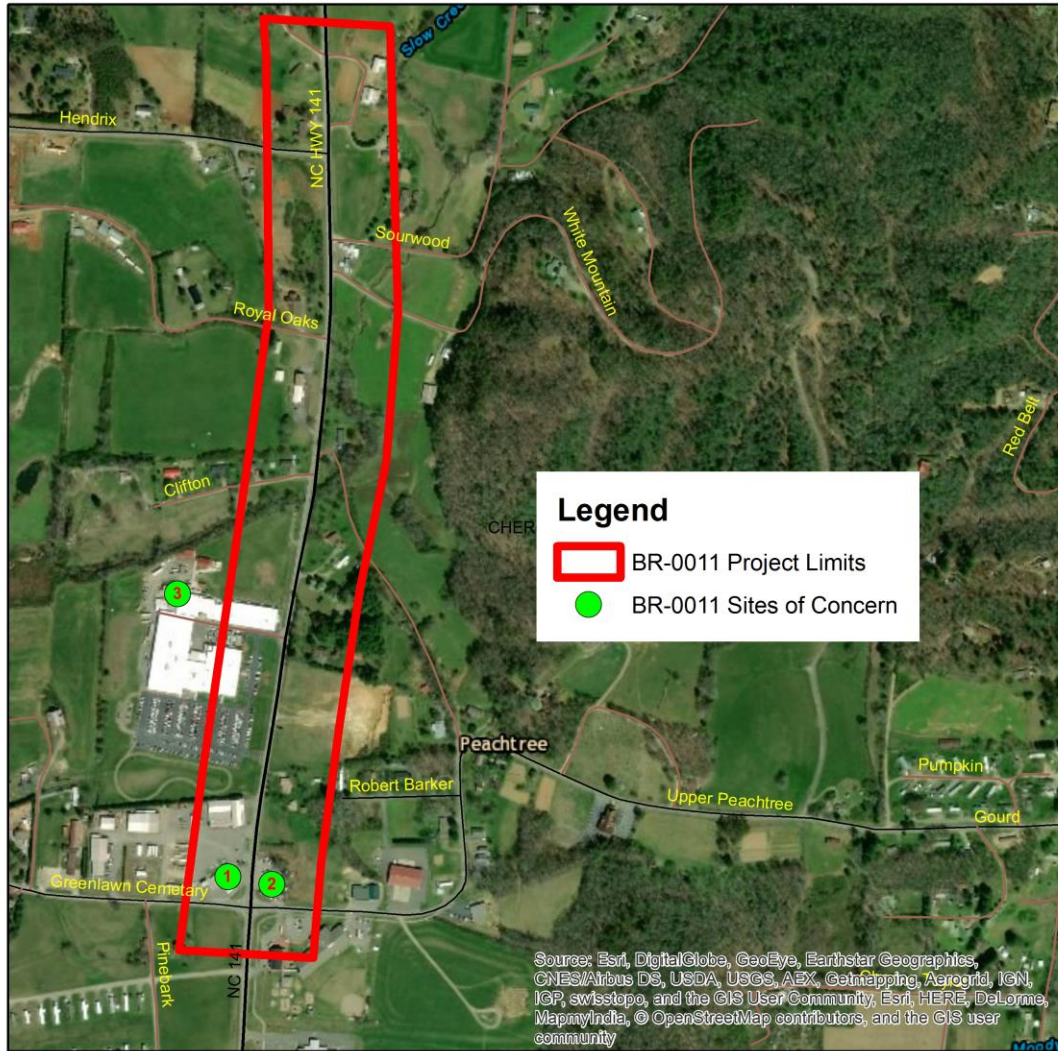


View of the downstream of the bridge.



View of the upstream of the bridge.

Appendix A
Location of GeoEnvironmental Sites of Concern



Project: 67011.1.1 (TIP # BR-0011)
Replacement of Bridge #190002 on NC 141
over Slow Creek (The project will maintain
the 2-lane roadway currently in use) in Cherokee County.



NC Department of Transportation
Geotechnical Engineering Unit
GeoEnvironmental Section

