

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

May 19, 2009

NCDOT Contracted GeoEnvironmental Firms

Geophysical Surveys to Identify USTs Re:

Dear Firm:

In an effort to obtain more consistence comments regarding Underground Storage Tanks (USTs) found in existing and proposed DOT right of way during geophysical surveys, the attached table has been developed from comments solicited from several firms with inhouse geophysical experience. Three levels of confidence have been defined in the enclosed table. The terms "Known", "Probable", or "Possible" are to be used when describing tanks in the text and figures of all future site assessment reports involving USTs. Report figures are to include magnetic contours and radar profiles for any anomaly ranked "Possible UST" or higher.

These terms are to be used knowing that regardless of the certainty of the tank, exceptions to the rule exist and the only way to be 100 percent certain is by excavation. Further investigation may be recommended by the geophysicist based on the findings. This policy is in no way intended to be a substitute for the good judgment of a highly trained and experienced geophysicist.

Sincerely

Cyrus F. Parker, LG, PE GeoEnvironmental Supervisor Geotechnical Engineering Unit

Enclosure

GeoEnvironmental Section Project Managers Mohammed Mulla, PE, Assistant State Geotechnical Engineer

Geophysical Surveys for Underground Storage Tanks on NCDOT Projects

| High Confidence | Intermediate Confidence | Low Confidence | No Confidence |
|------------------------|--|-----------------------------------|-------------------------------------|
| Known UST | Probable UST | Possible UST | Anomaly noted but not |
| Active tank - spatial | Sufficient geophysical data from both | Sufficient geophysical data from | characteristic of a UST. Should be |
| location, orientation, | magnetic and radar surveys that is | either magnetic or radar surveys | noted in the text and may be called |
| and approximate | characteristic of a tank. Interpretation may | that is characteristic of a tank. | out in the figures at the |
| depth determined by | be supported by physical evidence such as | Additional data is not sufficient | geophysicist's discretion. |
| geophysics. | fill/vent pipe, metal cover plate, | enough to confirm or deny the | |
| | asphalt/concrete patch, etc. | presence of a UST. | |