



State of North Carolina  
 Department of Environment, Health, and Natural Resources  
 Wilmington Regional Office

James G. Martin, Governor  
 William W. Cobey, Jr., Secretary

Bob Jamieson  
 Regional Manager

DIVISION OF ENVIRONMENTAL MANAGEMENT

March 22, 1991

Mr. Julian I. Wooten  
 Assistant Chief of Staff  
 Marine Corps Base  
 Camp Lejeune, North Carolina 28542-5001

Subject: Installation Restoration  
 Documents for Sites 3, 7, 43, 44, 54,  
 63, 65, 80, and 82  
 Marine Corps Base  
 Camp Lejeune  
 Onslow County

Dear Mr. Wooten:

The subject documents have been reviewed for consistency with State of North Carolina guidelines for soil and groundwater sampling. The Health and Safety Plan was not reviewed as it is not within our purview.

The following recommendations are offered for your consideration:

1. Page 5-10 of the Draft Work Plan states that North Carolina has established an action level for soil clean-up criteria of 100 ppm total petroleum hydrocarbon (TPH). The action level is now 10 ppm. Soil clean-up between 10 and 100 ppm is determined by a Site Sensitivity Evaluation. (A copy of NC "Guidelines for Remediation of Soil Contaminated by Petroleum" is enclosed.)
2. EPA Method 418.1 is proposed for soil, sediment, and water analyses. North Carolina does not accept this method. Our requirements are:
  - a. Soil: SW 846 Method 5030 Total Petroleum Fuel Hydrocarbons (TPFH) for low to medium boiling point fuels. SW 846 Methods 5030 and 3550 TPFH for high boiling point fuels. SW 846 Method 9071 for oil and grease. TCLP for waste oil.
  - b. Water: EPA Methods 601 and 602 for gasoline; 625 for diesel (or the SW 846 equivalents).

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2. No mention of the time between construction and development of the wells and sampling is specified. A minimum of three (3) days is recommended.

If you have any questions, please contact Tom Dickey at (919) 395-3900.

Sincerely,

Original Signed By  
**A. Preston Howard, Jr.**  
A. Preston Howard, Jr., P.E.  
Regional Supervisor

APH/RSS/TRD/lfc

Attachment

cc: ✓ WIRO-GWS  
Jack Butler  
Bill Reid  
CF