



State of North Carolina  
Department of Natural Resources and Community Development  
Wilmington Regional Office

James G. Martin, Governor  
CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

S. Thomas Rhodes, Secretary  
DIVISION OF ENVIRONMENTAL MANAGEMENT

May 15, 1985

Major General L.H. Buehl  
Commanding General  
United States Marine Corps  
Marine Corps Base  
Camp Lejeune, NC 28542

Subject: Notice of Violation  
Groundwater Classification  
and Standards  
Source(s) of Groundwater Pollution  
Camp Lejeune Marine Corps Base (MCB)  
Onslow County

Dear General Buehl:

As you know, recent studies performed as prescribed by stage 2 of the NAVCIP program have revealed that ten of the base's community water supply wells contain organic contaminants.

Specifically, the contaminated wells include: HP-601, HP-602, HP-603, HP-608, HP-634, HP-637, HP-642, HP-651, TT-26, and new TT. The organic contaminants include: tetrachloroethylene, trichloroethylene, 1,2-trans-dichloroethylene, methylene chloride, vinyl chloride, 1, 1 - dichloroethane, benzene, toluene, and dichlorobenzene. All the impacted wells are exposed to the Tertiary Sand Aquifer somewhere between 50 and 200 feet below land surface.

A copy of the North Carolina Groundwater Classification and Standards (15 NCAC 2L) is enclosed for your reference. In this instance, the regulations apply as follows:

1. The impacted wells are exposed to GA classified groundwater, which is defined as fresh (and usable) groundwater that occurs at depths greater than 20 feet below land surface.
2. The source(s) of contamination are such that violations of standards have occurred at the perimeter of compliance, or the sources are such that it can be reasonably predicted that violations of standards will occur at the perimeter of compliance. For existing sources, the perimeter of compliance is located 500 feet from the point of discharge, or the property boundary, whichever is less.

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3. Excluding those organic compounds which are classed as trihalomethanes, the presence of any other organic compound in GA classified groundwater (at the perimeter of compliance) constitutes a violation of standards (either by definition and/or as determined by the director).

These violations to 15 NCAC 2L therefore require that the Marine Corps submit to the Division of Environmental Management within thirty (30) days after receipt of this letter a plan of action which contains the following elements:

1. The source(s) of contamination are identified;
2. The horizontal and vertical geometry of the contaminant plume(s) are determined;
3. The quality characteristics of the contaminant plume(s) are satisfactorily defined;
4. The future impacts of these source(s) are projected;
5. Appropriate remedial actions are proposed to restore those polluted groundwaters to GA standards.

Of course, this plan of action must include a schedule which specifies when the investigative phases will begin and end and when the proposed remedial actions will begin.

If you have questions, or need assistance, please do not hesitate to call Mr. Rick Shiver at the phone number shown on the letterhead.

Your cooperation in this matter is appreciated.

Sincerely,



Charles Wakild  
Regional Supervisor

CW/RS/sbm

cc: Mr. L.P. Benton  
Mr. Perry Nelson  
Central Files  
Wilmington Regional Office

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