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State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management



James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

September 14, 1995

Commander, Atlantic Division
Naval Facilities Engineering Command
Code 1823-2

Attention: MCB Camp Lejeune, RPM
Ms. Katherine Landman
Norfolk, Virginia 23511-6287

Commanding General

Attention: AC/S, EMD/IRD
Marine Corps Base
PSC Box 20004
Camp Lejeune, NC 28542-0004

RE: Record of Decision for Operable Unit 4 (Sites 41
and 74), MCB Camp Lejeune.

Dear Ms. Landman:

Attached is a summary of discussions held with the Water Quality Section of the DEHNR-Wilmington Regional Office regarding the acceptable alternatives for the seeps at Site 41. These changes should be incorporated in the Revised Final Record of Decision for Operable Unit 4 along with those revisions needed to accommodate the discussions on the selected groundwater remediation alternative. Note also that our concurrence letter for the Revised Final Record of Decision may include appropriate caveats since the selected methods involve further regulatory action by the State. Please call me at (919) 733-2801 x-282 if you have any questions about this.

Sincerely,

Patrick Watters

Patrick Watters
Environmental Engineer
Superfund Section

Attachment

cc: Gena Townsend, US EPA Region IV
Neal Paul, MCB Camp Lejeune
Bruce Reed, DEHNR - Wilmington Regional Office
Dave Adkins, DEHNR - Wilmington Regional Office

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MEMORANDUM

TO: Dave Adkins - Water Quality Section - WiRO

FROM: Patrick Watters - NC Superfund Section (919) 733-2801 *BD.*

SUBJECT: Water Quality Issues at Camp Lejeune Site 41

This is written to document our discussion (on 9/5) regarding the water quality issues at Site 41 and the possible courses of action for the US Navy.

Site 41 is part of the Superfund work being performed at Camp Lejeune. As you are aware, this site is a former landfill that is suspected of having unexploded ordnance and chemical warfare material. The water quality issues stem from two seeps that discharge into an unnamed tributary that feeds Tank Creek.

The most significant contaminants discharging from the seeps that are above NC water quality standards are: Manganese, Iron, and Mercury. While manganese and iron are of concern, the greatest concern is the mercury. The levels of these contaminants seen along the seeps and where the seeps meet the unnamed tributary are as follows:

<u>CONTAMINANT</u>	<u>RANGE</u>	<u>2B STANDARD</u>
Manganese	52 - 1,700 ug/L	50 ug/L
Iron	1,340 - 245,000 ug/L	1000 ug/L
Mercury	.21 - .56 ug/L	.012 ug/L

The US Navy is proposing to perform quarterly monitoring and not actively remediate this site because the contamination source(s) cannot be removed due to the explosives and chemical warfare potential at the landfill.

Based on our discussions, alternatives for this site that would be acceptable to the State are:

1 - Collect the discharge from the seeps and treat for metals (primarily mercury) removal prior to release of the unnamed tributary regardless of whether or not the source is removed.

2 - Request a variance from the surface water standards as provided for in Section .0218 of the 2B Surface Water regulations.

Thanks for your help on this. Please call if you need more information.