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NAS CECIL FIELD, FL
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LETTER REGARDING FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
COMMENTS ON DRAFT PILOT STUDY WORK PLAN FOR OPERABLE UNIT 9 (OU 9) SITE
59 NAS CECIL FIELD FL
12/1/2005
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

December 1, 2005

Commanding Officer
Mr. Mark Davidson, Code ES33
SOUTHNAVFACENGCOM
Post Office Box 190010
North Charleston, SC 29419-9010

RE: Draft Pilot Study Work Plan for Site 59, Naval Air Station
Cecil Field, Florida.

Dear Mr. Davidson:

The Department has completed its review of the Draft Pilot Study Work Plan for Site 59, Naval Air Station Cecil Field, dated October 2005 (received October 28, 2005, prepared and submitted by Tetra Tech NUS, Inc. The Department has the following comment and point for consideration:

- (1) Please provide a profile schematic of the injection wells and extraction wells and also specify the screen depths of the proposed new groundwater monitoring wells.
- (2) Two major indicators for reductive dechlorination - pH and redox - are not optimal for this site. However, once TCE breaks down to DCE, removal of the daughter products via natural attenuation should be fairly straightforward under aerobic conditions, particularly with oxygen enhancement. Tetra Tech discusses adding *Dehalococcoides* inoculum to the aquifer via the injection well. Our Department's engineer believes it may be beneficial to consider having a "control" monitoring well in an area that has been similarly treated with lactate and sodium bicarbonate and where similar chemistry occurs but where no bacteria have been inoculated, to see how effectively biodegradation proceeds with the existing microbes as well as determine whether the inoculum will create or exacerbate biofouling problems. If it were found that the inoculum did not have a substantial benefit, this would reduce the cost of a larger scale implementation of the system.

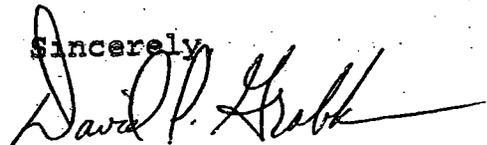
After addressing the first comment and considering the second point, please submit a Final Pilot Study Work Plan that has been signed and sealed by a registered Florida Professional

"More Protection, Less Process."

Mr. Mark Davidson
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Engineer. If you have any concerns regarding this letter, please contact me at (850)245-8997.

Sincerely,



David P. Grabka, P.G.
Remedial Project Manager

CC: Tim Bahr, FDEP
Doyle Brittain, USEPA, Atlanta
John Flowe, City of Jacksonville
Mark Speranza, TtNUS, Pittsburgh
Mike Halil, CH2M Hill, Jacksonville
Mike Fitzsimmons, FDEP, Northeast District

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