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MCRD PARRIS ISLAND
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EMAIL REGARDING FIELD ACTIVITIES AT SITE 45 DRY CLEANING FACILITY SPILL AREA
MCRD PARRIS ISLAND SC
9/15/2006
NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST

Sladic, Mark -- NUS

From: Sanford, Art F CIV NAVFAC SE [art.sanford@navy.mil]
Sent: Monday, September 18, 2006 10:32 AM
To: mark.sladic@ttnus.com
Subject: FW: Activities at Site 45

FYI

I think Tim asked for a list of Cliff's comrades so he could keep track of them.

From: Casey, Cliff C CIV NAVFAC SE
Sent: Friday, September 15, 2006 15:40
To: Tim Harrington (timothy.j.harrington@usmc.mil)
Cc: Sanford, Art F CIV NAVFAC SE; jacqueline.w.quinn@nasa.gov; Cummings.James@epamail.epa.gov; Puls.Robert@epamail.epa.gov; SOHara@GeoSyntec.com
Subject: Activities at Site 45

Tim,
Briefly, the following activities are taking place.

- 1) USEPA Kerr Laboratory (Dr. Bob Puls and others- Ada, Okalahoma) along with Geosyntec (Suzanne Ohara - Canada) and NASA (Jackie Quinn - Kennedy Space Center) will be injecting emulsified vegetable oil that contains zero valent iron (EZVI) into a source zone near where the old tanks were located. Dr. Puls will be collecting some of the samples before and after injection of the EZVI. They are providing their own source of funding for this work. EZVI injection will take place October 13.
- 2) USEPA Technology Innovation Office (Jim Cummings - Washington DC) along with Tetra Tech EMI, University of Florida (Dr. Mike Annabel) and members from Enviroflux will be installing some passive flux meters and installing additional wells. The purpose of this is to provide a better approach to monitoring the results of remediation. They are providing their own source of funding for this work.
- 3) USGS Applied Geophysics Branch (Dr. John Lane - Storres, Conneticut). John and his team will be monitoring the injection and final placement of the oil using surface geophysics. John provided USGS Toxic Substances Hydrology Program funding for the original baseline survey and will be conducting some post injection monitoring of the EZVI after injection. The objective of this effort is to determine how effective we were in distributing the EZVI in the aquifer. John will be onsite the week of 18 -22 September.
- 4) NAVFAC SE (Cliff Casey) and USGS (Dr. Don Vroblesky) will be collecting samples for compound specific stable isotopes and molecular biological tools to evaluate the performance of these tools as a measure of remediation performance for both MNA, and EZVI. Don and I will be at the site on Sept 26 -28.

Hope this helps.

R,
Cliff

I will be out of the office until Thursday Sept. 21.

12/8/2006