



DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY GARRISON FORT MONMOUTH
FORT MONMOUTH, NEW JERSEY 07703-5101

REPLY TO
ATTENTION OF

Directorate of Public Works

May 6, 2005

State of New Jersey
Department of Environmental Protection
Division of Responsible Party Site Remediation
Bureau of Case Management
401 East State Street, 5th Fl., West Wing
ATTN: Mr. Greg Zalaskus
PO Box 028
Trenton, New Jersey 08625-0028

RE: 800 and 400 Area Remedial Action Report Meeting Summary

Dear Mr. Zalaskus:

The following summary is based on the meeting between USAG Fort Monmouth Directorate of Public Works (FMDPW) personnel and New Jersey Department of Environmental Protection (NJDEP) personnel on April 19, 2005.

Attendees:

Greg Zalaskus - Case Manager (NJDEP)
John Prendergast (NJDEP)
Doug Guenther (FMDPW)
Dinker Desai (FMDPW)
Joe Fallon (FMDPW)
Lou Benevides (FMDPW)

Discussed assessment and remediation activities performed at the "800" and "400" Areas in support of the Army's Residential Communities Initiative (RCI) which entails future family housing construction. Ft. Monmouth has contracted Tetra-Tech EM, Inc to prepare a Remedial Action Report (RAR) for the 800/700/400 Areas assessment and soil cleanup actions.

Site actions discussed:

800 Area

Objectives

- Investigate and characterize environmental conditions at the 800 Area site, which has been designated for future residential housing construction (footprint approximately 13 acres).

Underground Storage Tanks and Closures

- Geophysical study performed (total area approximately 32 acres)-Eight anomalies confirmed as USTs in Area of Concern.
- Tanks #1, #15, #16, #19, #20, #21, and #22 - 1,000-Gallon, Steel, Heating Oil USTs. Supplied fuel for barracks around 1940s-60s. Unregulated, residential. Tank #2 - 500-Gallon, Steel Heating Oil UST.
- Eight tanks removed. Three tank locations indicated releases and over-excavation performed as required. Soil closure samples collected. NJDEP contacted; reported three UST releases.
- All areas of petroleum impacted soils above NJDEP criteria removed.

Geoprobe Investigation

- Geoprobe survey at approximately 100' Intervals (75 borings) within RCI footprint area. Soil samples collected and logged from a 4' core.
- 0 to 6" below ground surface (bgs) analyzed for semi-volatile organic compounds (SVOCs); Pesticides/PCBs; TAL Metals; 18-24" analyzed for volatile organic aromatics (VOAs); Below 24", PID reads 50 ppm or below collected one sample at highest reading, analyzed for total petroleum hydrocarbon concentrations (TPHC).

Geoprobe Follow-up

- Seven boring locations (19, 32, 35, 39, 44, 45, and 75) had soil above NJDEP Residential Direct Contact Soil Cleanup Criteria (RDCSCC) for SVOCs, Pesticides/PCBs, and/or arsenic.
- The SVOCs may be present from the breakdown of petroleum-based products historically used as a delivery matrix during normal application of pesticides to the ground. One boring had an exceedence of PCBs and one other boring had an exceedence of arsenic above the RDCSCC. No volatiles were reported above criteria in any soil sample.
- As follow-up, collected four soil samples 0-6" bgs on each side of a 10' x 10' square area around each of 6 boring locations and one soil sample from directly adjacent to the original borehole at a depth of 12-18" for a vertical extent. Continued step outs until NJDEP RDCSCC concentrations were met. Boring 35 had an exceedence of Dinitrotoluene 2,4 at a concentration of 1.6 ppm which was left in place (at the time of this meeting) as the concentration was just over the cleanup criteria of 1.0 ppm and was not identified in any of the other soil samples collected at the site. Delineation of soil at all other locations was completed.
- Excavated delineated areas of concern. Work completed in November 2003.

NOTE: *As follow-up, on April 28, 2005, DPW personnel excavated a 10'x10' square by 18" deep area centered on Boring 35 to remove soils above NJDEP RDCSCC. One post excavation soil sample was collected and results indicate SVOC concentrations below RDCSCC.*

800 Area – Outside of RCI footprint.

Objectives

- Investigate remaining geophysical anomalies identified in First Atlantic Federal Credit Union Parking lot and drive-thru area (Main Post).

Underground Storage Tanks and Closures

- Geophysical study performed-Four anomalies confirmed as USTs in Area of Concern.
- Tanks #9, #10, #12, and #14 - 1,000-Gallon, Steel, Heating Oil USTs. Supplied fuel for barracks around 1940s-60s. Unregulated, residential.
- Four tanks removed. Two tank locations indicate releases and over-excavation performed as required. Soil closure samples collected. NJDEP contacted; reported two UST releases.
- All identified areas of petroleum impacted soils above NJDEP criteria removed. Work completed in May 2004.

400 Area

Objectives

- Investigate and characterize environmental conditions at the 400 Area site, which has been designated for future maintenance building construction (footprint approximately one acre).

Geophysical Survey

- Geophysical study performed on approximately 30 acres in and around the "400 Area"- only one anomaly identified which may be a UST in Area of Concern. After investigation, no UST found.

Geoprobe Investigation

- Geoprobe survey at approximately 50' Intervals (17 borings) within the one acre footprint. Soil samples collected and logged from an 8' core.
- 0 to 6" bgs and analyzed for SVOCs; Pesticides/PCBs; TAL Metals, TPHC; 18-24" analyzed for VOAs +15; Below 24", collected one sample analyzed for TPHC.

Geoprobe Follow-up

- Five boring locations have soil above NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) for SVOCs and PCBs.
- As stated previously, the SVOCs may be present from the breakdown of petroleum-based products which may have been used as a delivery matrix during normal application of pesticides to the ground. One boring had PCBs above the NRDCSCC (source unknown). No other contaminants were reported above criteria in any soil sample.
- As follow-up, collected four soil samples 0-6" bgs on each side of a 10' x 10' square area around each of the 5 boring locations and continued step outs until NJDEP criteria concentrations were met. Also, collected one soil sample at each of the five borings from 12-18" bgs for vertical delineation of pertinent constituent.
- All delineated areas of impacted soils above NJDEP NRDCSCC were removed. Work completed in November 2004.

Final Tasks

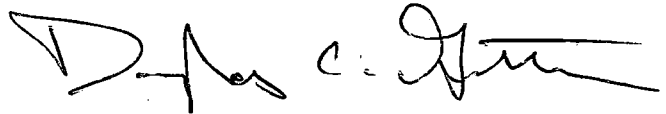
- Prepare and submit required report to NJDEP.

The 700 Area Enhanced Use Lease project site which is part of the RAR was not discussed at the meeting, however this site will be discussed with NJDEP when the Final RAR is submitted.

Upon receipt of the Final RAR, based on supporting documentation demonstrating compliance with soil cleanup standards as discussed during this meeting, Mr. Zalaskus indicated the NJDEP would provide a No Further Action letter for the 800 Area site and a No Further Action with Restrictions for the 400 Area (due to cleanup to non-residential standards) regarding soil conditions at these sites.

UST Closure reports for the tanks with case numbers that were removed from the 800 Area (three tanks), the 800 Area Credit Union lot (two tanks) and the former Building 884 site (one tank) will be submitted in the near future. As demonstrated in the meeting, cleanup of soils for all these cases has been completed in compliance with NJDEP requirements and, as discussed, closure will be approved by NJDEP upon receipt of said reports.

Sincerely,



Douglas C. Guenther
Environmental Protection Specialist
Directorate of Public Works

cc: File