



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
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*Commissioner*

December 14, 2015

John Occhipinti  
BRAC Environmental Coordinator  
OACSIM – U.S. Army Fort Monmouth  
PO Box 148  
Oceanport, NJ 07757

Re: *Final Groundwater Sampling Report – Third 2014 FTMM-22, FTMM-53 and FTMM-68*  
Fort Monmouth  
Monmouth County  
PI # G000000032  
Activity Number: RPC000001

Dear Mr Occhipinti:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced Groundwater Sampling Reports for FTMM-22, FTMM-53 and FTMM-68, submitted pursuant to the Department of Defense State Memorandum of Agreement (DSMOA) executed on April 3, 1992 and the Technical Requirements for Site Remediation at N.J.A.C. 7:26E. The Department's comments on the submittal are provided below.

A quarterly ground water sampling event was conducted at three parcels (FTMM-22, 53, 68) at the Fort Monmouth property. Sampling was conducted between July and September 2014. Sampling methodology used passive diffusion bag samplers (PDBS). Ground water samples from FTMM-22 (Lime Pit) wells exceeded the Ground Water Quality Standards (GWQS) for TCE, which is consistent with historical sampling results. Two additional wells (CW1MW28 and CW1MW37) have been added to the monitoring program. Ground water samples from FTMM-53 (Former Gas Station) wells exceeded the GWQS for benzene and 1,2,4-Trimethylbenzene. Ground water samples from the FTMM-68 (Former Dry Cleaners) wells exceeded the GWQS for PCE, TCE, cis-1,2-DCE and vinyl chloride which is consistent with historical sampling results.

### **FTMM-22**

The addition of wells CW1MW28 and CW1MW37 to the quarterly monitoring program for the FTMM-22 site is appropriate.

**FTMM-53**

Previous ground water sampling reports indicated ground water flow direction at FTMM-53 is to the south. This current report indicates ground water flows to the east across the site. Confirmation of true flow direction is required for the next progress report. If flow direction is to the east, then additional wells/well points are required east of well 699MW06 to complete horizontal and vertical ground water delineation of contaminants.

**FTMM-68**

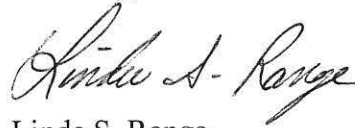
Future sampling reports for the FTMM-68 site must include ground water contour maps constructed from ground water-elevation data obtained from wells within and in the vicinity of the site.

The BGWPA previously provided comments regarding the use of PDBS at the FTMM-68 site. The BGWPA stated that PDBS for long-term monitoring would be acceptable if low-flow sampling is conducted concurrently once or twice for comparison. Low-flow sampling has not been conducted at this site. Future sampling must include low-flow sampling conducted concurrently with PDBS for a minimum of one or 2 quarters.

The chlorinated VOC contamination beneath the FTMM-68 site must be horizontally and vertically delineated.

Please contact this office if you have any questions.

Sincerely,



Linda S. Range

C: Joe Pearson, Calibre  
Rich Harrison, FMERA  
Joe Fallon, FMERA  
James Moore, USACE  
Frank Barricelli, RAB