DEPARTMENT OF THE NAVY
COMMANDER
NAVY REGION HAWAII
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JBPHH, HAWAII 96860-5101

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Ser N45/609
August 11, 2014

CERTIFIED NO: 7012 3050 0000 0992 9937

Ms. Roxanne Kwan
Hawaii State Department of Health
Environmental Management Division
Solid and Hazardous Waste Branch
Underground Storage Tank Section
919 Ala Moana Boulevard, Room 212
Honolulu, HI 96814

Dear Ms. Kwan:

SUBJECT: RED HILL TANK 5 RELEASE
WEEKLY STATUS REPORT NO. 23
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NO. 140010

As requested in DOH letter U0205RK of February 26, 2014, the following information is provided as the twenty-third weekly status report for the confirmed release of JP-8 fuel from Tank 5 at the Red Hill Fuel Storage Facility. This is the same information that was emailed to you on August 6, 2014. To ease reading, only sections with changes will be annotated.

1. Preliminary Work Plan

No change.

a) Item 1- Models to estimate downward vertical migration of free product.

No change.

b) Item 2 - Methods or options for non-invasive scanning of basalt to determine area and volume of contaminant mass prior to any drilling investigation.

Information from our consultants and other industry queries provided that non-invasive scanning of basalt for contaminant mass is less effective than the proposed Tank 5 site characterization. Action complete.

c) Item 3 - Methods and locations for borings to most efficiently characterize the extent of contamination.

No change.

2. Release Response Action Items (initiate immediately, complete as soon as practicable)

a) Action 1 - Provide a schedule for the ventilation of Tank 5 and an estimated date to commence the investigation of release point(s) within Tank 5.

b) Action 2 - The rate of vertical migration for the released JP 8 free product is unknown. Information from the previously collected basalt cores could be used for initial modeling of vertical migration. This information is necessary to protect drinking water resources from petroleum contamination. Prepare models for petroleum JP-8 releases of 10,000, 20,000 and 30,000 gallons from points at 25% intervals from the bottom to the top of Tank 5. Progress in developing these models should be included in the preliminary work plan.

No change.

c) Action 3 - Removal of petroleum free product from the area outside the tank will reduce downward migration of the released JP-8 free product. Characterization of the free product plume and recovery of free product with increased monitoring are required to address this plume.

If free product is found in the groundwater in the characterization wells, efforts to the maximum extent practicable will be made for removal. No free product plume has been found in the groundwater in the well closest to Tank 5, or in any other existing monitoring wells. Free product removal from basaltic rock has not been feasible at similar sites and appreciable amounts are not expected at Tank 5. Free product removal from the tank structure (interstitial spaces and tunnels) is currently being evaluated by the tank experts.

d) Action 4 - Additional studies and procedures are required to address the potential and impact of any future releases from the USTs within the Complex. This will require new financial and personnel resources to complete. Funding for the preliminary work plan and all necessary following work is critical.

The Navy submitted responses to DOH and EPA comments on the Draft Work Plan for Installation of Two Sentinel Wells.

The Draft Site Characterization Work Plan/ Sampling and Analysis Plan was submitted to the DOH and EPA on July 29, 2014.

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If there are any questions regarding this matter, or if more information is needed, please contact me at (808) 471-1171, extension 226.

Sincerely,

AARON Y. POENTIS
Director
Regional Environmental Department
By direction of the
Commander

Copy to: LT Andrew Lovgren, NAVSUP FLC Pearl Harbor
Walter Riddlehoover, DLA Energy Pacific