



DEPARTMENT OF THE NAVY  
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NAVY REGION HAWAII  
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July 16, 2012

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Mr. Richard Takaba  
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 Mr. Takaba:

SUBJECT: RED HILL TANK COMPLEX APRIL 2012 GROUNDWATER MONITORING  
REPORT FACILITY ID NO. 9-102271 / RELEASE ID NO. 99051,  
010011 AND 020028 990051

Environet, Inc. collected groundwater samples from five wells at the Red Hill Fuel Storage Facility on April 16 and 17, 2012. The groundwater samples were analyzed for petroleum constituents.

Analytical Results

Laboratory analytical results indicated that TPH-DRO was detected in the groundwater beneath the Facility at concentrations that met and exceeded the DOH Drinking Water EAL for Human Toxicity and the DOH Groundwater Gross Contamination EAL. TPH-DRO was detected at a concentration of 1,200 ug/L in monitoring well RHMW02. The DOH Drinking Water EAL for Human Toxicity for TPH-DRO is 210 ug/L. The DOH Groundwater Gross Contamination EAL for TPH-DRO is 100 ug/L. The Site-Specific Risk Based Level (SSRBL) for TPH-DRO is 4,500 ug/L.

No other chemicals of potential concern (COPCs) were detected at concentrations above the DOH Drinking Water or Groundwater Gross Contamination EALs.

Current Groundwater Status

The groundwater monitoring wells were assessed monthly for the presence of free product. No free product was observed.

In monitoring wells RHMW01 and RHMW05, COPCs were not detected at or above the limits of detections or limits of quantitation. Although an estimated concentration of trichloroethene was detected in RHMW2254-01, the well does not fall into the Category 1 status since no contamination trend has been established. Therefore, according to the January 2008 (revised December 2009) Red Hill Bulk Fuel Storage

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reports to document activities, including analytical results, wastes disposal, conclusions and recommendations after completion of sampling event.

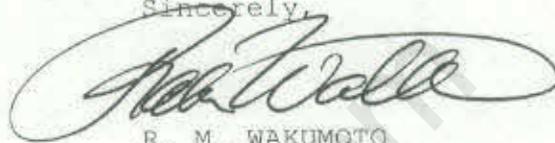
Item 4. See Item 3.

Item 5. Excerpts from a 1949 study of tanks 14 and 16 are included as enclosure (1). FISC is currently planning to have another structural study on the Red Hill Tanks done. The Navy will provide a schedule to DOH as soon as available.

Item 6. FISC, DESC, and NAVPET are currently and voluntarily looking at current technology of leak detection systems which is currently available.

If there are any questions regarding this matter, or if more information is needed, please contact Mr. Darren Uchima at (808) 471-1171, extension 217.

Sincerely,



R. M. WAKUMOTO  
Director  
Regional Environmental Department  
By direction of  
Commander, Navy Region Hawaii

Enclosure: 1. Excerpts of Engineering Report on the results of survey of Navy Petroleum Facilities at Pearl Harbor dated May 12, 1949

Facility Final Groundwater Protection Plan, monitoring wells RHMW01, RHMW05, and RHMW2254-01 are not assigned to a category status.

**Category 1:**

Monitoring well RHMW03 is presently in Category 1 status since a COPC was detected at a concentration above the detection limit, but below the Drinking Water EAL, and the trend for all compounds is stable or decreasing.

Dissolved lead was detected in RHMW03 at a concentration of 1.4 ug/L, which was below the DOH Drinking Water EAL for Human Toxicity (15 ug/L).

The following response is required for monitoring well RHMW03:

- a) Send quarterly reports to the DOH

**Category 2:**

Monitoring well RHMW02 is presently in Category 2 status since the TPH-DRO concentration was greater than the DOH Drinking Water EAL, but less than half the SSRBL.

The following responses are required for monitoring well RHMW02:

- a) Send quarterly reports to the DOH
- b) Begin program to determine if tanks are leaking

A description of some of the actions already taken and the Navy's plans for the remaining required responses are listed below.

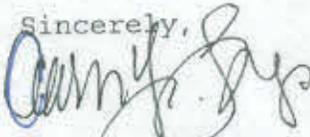
- a) **Send quarterly reports to the DOH**  
The Quarterly Groundwater Monitoring Report is being submitted as Enclosure 1.
- b) **Begin program to determine if tanks are leaking**  
Tank tightness testing was performed on all 15 in-service tanks from January to March 2011. No leaks were detected.
- c) **Remove sampling pumps, measure product in pertinent wells with interface probe, re-install pumps if product is not detected**  
Free product measurements have been taken monthly since July 2009 in the Facility wells (RHMW01, RHMW02, RHMW03, and RHMW05). No free product has been detected. Dedicated oil/water interface probes were installed so sampling pumps no longer need to be removed. Free product thickness will continue to be measured and reported monthly.

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There is no indication of an immediate threat of disruption to the U.S. Navy Well 2254-01 drinking water resources. TPH-DRO was not detected at nearby monitoring well RHMW05. The concentration of TPH-DRO at RHMW02 was less than half of the SSRBL and within historical ranges. The responses required by the Groundwater Protection Plan will be performed as described above.

If there are any questions regarding this matter, or if more information is needed, please contact Ms. Raelynn Della Sala at (808) 471-1171, extension 337.

Sincerely,



AARON Y. POENTIS  
Director

Regional Environmental Department  
By direction of the  
Commander

Enclosure: 1. Quarterly Groundwater Monitoring Report, Red Hill Fuel Storage Facility, Pearl Harbor, Oahu, Hawaii of July 2012 (1 hard copy, 1 CD)

Copy to: Ms. Joanna Seto, DOH Safe Drinking Water Branch (1 CD)  
Mr. Christopher Lau, NAVSUP Fleet Logistics Center Pearl Harbor (1 hard copy, 1 CD)