

DEPARTMENT OF THE NAVY

COMMANDER
NAVY REGION HAWAII
850 TICONDEROGA ST STE 110
JBPHH, HAWAII 96860-S101

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5090 Ser N45/0955 September 28, 2012

CERTIFIED MAIL NO. 7011 2000 0002 7211 7849

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

JULY 2012 GROUNDWATER MONITORING REPORT 490051 FACILITY ID NO. 9-102271 / RELEASE ID NO. 99051,

010011 AND 020028

Environet, Inc. collected groundwater samples from five wells at the Red Hill Fuel Storage Facility on July 17, 18, and 20, 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 a concentration that exceeded the DOH Drinking Water EAL for Human Toxicity and the DOH Groundwater Gross Contamination EAL. TPH-DRO was detected at a concentration of 1,700 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.

PAHs (1-methylnaphthalene and naphthalene) were also present in monitoring well RHMW02 at concentrations equal to the DOH Drinking Water EALs. No other chemicals of potential concern (COPCs) were detected at concentrations above the DOH Drinking Water or Groundwater Gross Contamination EALs.

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Current Groundwater Status

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

Although dissolved lead was detected at RHMW2254-01, the well does not fall into the Category 1 status since no contamination trend has been established. Similarly, trace concentrations of dissolved lead and naphthalene were detected at RHMW01 and RHMW05, but since no contamination trend have been established, the wells do not meet the Category 1 definition. No COPCs were detected at RHMW03. Therefore, according to the January 2008 (revised December 2009) Red Hill Bulk Fuel Storage Facility Final Groundwater Protection Plan, monitoring wells RHMW01, RHMW03, RHMW05, and RHMW2254-01 are not assigned to a category status.

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.

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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, RHWM02, 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.

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.

Maria V

AARON Y. POENTIS

Director

Sincerely

Regional Environmental Department By direction of the Commander

Enclosure: 1. Quarterly Groundwater Monitoring Report, Red Hill Fuel Storage Facility, Pearl Harbor, Oahu, Hawaii of September 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)



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COMMANDER
NAVY REGION HAWAII
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5090 Ser N45/0926 September 27, 2012

CERTIFIED MAIL NO. 7011 2000 0002 7211 7832

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, JULY 2012 GROUNDWATER MONITORING

RESULTS FOR OUTSIDE (NON-TUNNEL) WELLS, FACILITY ID NO. 9

102271, RELEASE ID NO. 99051, 010011, AND 020028

On July 19, 2012, Environet, Inc. (TEC) collected groundwater samples from wells OWDFMW01 and HDMW2253-03, which are located outside the Red Hill Fuel Storage Facility. The groundwater samples were analyzed for petroleum constituents.

Laboratory analytical results indicate all chemical of potential concern (COPC) concentrations were below the DOH Drinking Water EALs for Human Toxicity and the DOH Groundwater Gross Contamination EALs. TPH-DRO concentrations in both wells decreased to non-detectable levels.

Analytical results indicate concentrations of COPCs detected within the facility are not impacting the two outside monitoring wells. Continued quarterly sampling is recommended for both groundwater monitoring wells.

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.

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AARON Y.

Director/

Regional Environmental Department

By direction of the

Commander

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Enclosures: 1. Quarterly Groundwater Monitoring Report - Outside (Non-Tunnel) Wells, Red Hill Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oahu, Hawaii of

September 2012 (1 hard copy)

 Quarterly Groundwater Monitoring Report - Outside (Non-Tunnel) Wells, Red Hill Fuel Storage Facility, Joint Base Pearl Harbor-Hickam, Oahu, Hawaii of September 2012 (1 CD)

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Harbor (1 hard copy, 1 CD)