



DEPARTMENT OF THE NAVY

COMMANDER  
NAVY REGION HAWAII  
850 TICONDEROGA ST STE 110  
JBPHH, HAWAII 96860-5101

MAR 27 2019

*cdnerd*

5090

Ser N45/0470

March 26, 2019

**CERTIFIED NO: 7016 0910 0001 0891 6805**

Mr. Richard Takaba  
Hawaii State Department of Health  
Environmental Management Division  
Solid and Hazardous Waste Branch  
Underground Storage Tank Section  
2827 Waimano Home Road #100  
Pearl City HI 96782

Dear Mr. Takaba:

SUBJECT: RED HILL BULK FUEL STORAGE FACILITY  
FOURTH QUARTER 2018 - QUARTERLY GROUNDWATER MONITORING  
REPORT  
DOH FACILITY ID NO. 9-102271  
DOH RELEASE ID NO. 990051, 010011, 020028, AND 140010

Groundwater sampling was conducted in October 2018 as part of the Red Hill groundwater long-term monitoring (LTM) program. Groundwater samples were collected from all 13 conventional monitoring locations and 1 multilevel monitoring location within the Red Hill groundwater monitoring network. The conventional monitoring locations include the sampling point at Red Hill Shaft (RHMW2254-01), 11 monitoring wells within the Facility boundary (RHMW01 to RHMW10 and OWDFMW01), and the Halawa Deep Monitoring Well (HDMW2253-03) located outside the Facility. The multilevel monitoring location, RHMW11, is located outside the Facility.

Low-level concentrations of volatile organic compounds (VOCs) were detected in the Fourth Quarter 2018 groundwater samples collected from sampling point RHMW2254-01. Additional groundwater samples from RHMW2254-01 were collected in November 2018 to confirm the VOC detections in the Fourth Quarter 2018 sampling. To further evaluate the effects of the Red Hill Shaft water supply pumping on the groundwater COPC concentrations, the confirmation samples were collected on two consecutive days, with the groundwater samples collected on the first day with the Red Hill Shaft water supply pumps running, and on the second day with the pumps off at least 3 hours prior to and during the sampling.

Analytical results from the quarterly groundwater monitoring event were compared to the current LTM screening criteria. The LTM screening criteria were agreed upon by the Parties to the Administrative Order on Consent (AOC) and are presented in the February 4, 2016, AOC

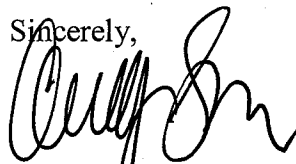
5090  
Ser N45/0470  
March 26, 2019

Statement of Work Sections 6 and 7 scoping completion letter. The LTM screening criteria were updated (when applicable) with the most current (Fall 2017) DOH Tier 1 Groundwater Environmental Action Levels for sites where groundwater is a potential or current drinking water resource and the nearest surface water body is greater than 150 meters from the release site. Analytical results for wells RHMW01, RHMW02, and RHMW03 were also compared to site specific risk based levels (SSRBLs) for total petroleum hydrocarbons as diesel fuel (TPH-d) (4,500 micrograms per liter [ $\mu\text{g/L}$ ]) and benzene (750  $\mu\text{g/L}$ ).

A groundwater monitoring report, which summarizes sampling activities and laboratory analytical results, is being submitted as Enclosures 1 and 2.

If there are any questions regarding this matter, or if more information is needed, please contact me at (808) 471-3858.

Sincerely,



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

Enclosures:

1. Fourth Quarter 2018 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, Hawaii, DOH Facility ID No. 9-102271, DOH Release ID No. 140010, dated March 2019 (hard copy)
2. Fourth Quarter 2018 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, Hawaii, DOH Facility ID No. 9-102271, DOH Release ID No. 140010, dated March 2019 (CD)

Copy to:

Mr. Omer Shalev, U.S. EPA Region 9, Underground Storage Tank Program Office  
Mr. John Floyd, NAVSUP FLC Pearl Harbor  
Mr. Ralph Wells, DLA Energy Pacific