



MAY 13 2019

DEPARTMENT OF THE NAVY

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

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Ser N45/0526
May 9, 2019

CERTIFIED NO: 7016 0910 0001 0891 7345

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
FIRST QUARTER 2019 - QUARTERLY GROUNDWATER MONITORING
REPORT
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NO. 990051, 010011, 020028, AND 140010

Groundwater sampling was conducted in January and February 2019 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 (October) 2018 groundwater samples collected from sampling point RHMW2254-01. Additional groundwater samples were collected from RHMW2254-01 in November and December 2018 to confirm the VOC detections. Results for the November 2018 confirmation sampling event was reported with the Fourth Quarter 2018 Groundwater Monitoring Report. Results for the December 2018 confirmation sampling event are reported with the First Quarter 2019 Groundwater Monitoring Report.

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.

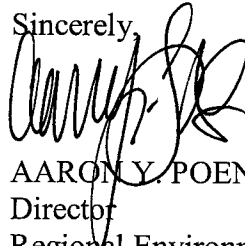
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Analytical results were compared to the current LTM screening criteria. The LTM screening criteria were agreed upon by the Parties to the Administrative Order on Consent (AOC) and are presented in the February 4, 2016, AOC Statement of Work Sections 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. First Quarter 2019 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, Hawaii, DOH Facility ID No. 9-102271, DOH Release ID Nos. 990051, 010011, 020028, and 140010, dated May 2019 (hard copy)
2. First Quarter 2019 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, Hawaii, DOH Facility ID No. 9-102271, DOH Release ID Nos. 990051, 010011, 020028, and 140010, dated May 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
Mr. Elton Saito, DLA Installation Support for Pacific