



DEPARTMENT OF THE NAVY

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

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Ser N4/ 198

June 29, 2022

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

Dear Mr. Takaba:

**SUBJECT: THIRD QUARTER 2021 – QUARTERLY GROUNDWATER
MONITORING REPORT
RED HILL BULK FUEL STORAGE FACILITY
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NOS. 990051, 010011, 020028, 140010, AND 210012**

As part of the Red Hill groundwater long-term monitoring (LTM) program, groundwater sampling was conducted from July 7 through August 4, 2021 at 18 conventional monitoring locations and 4 multilevel monitoring locations within the Red Hill groundwater monitoring network. The conventional monitoring locations included the sampling point at Red Hill Shaft (RHMW2254-01), 15 monitoring wells within the Facility boundary (RHMW01 and RHMW01R to RHMW10, RHMW16, RHMW16A, RHMW19, and OWDFMW01), and 2 monitoring wells located outside the Facility (RHMW12A and the Halawa Deep Monitor Well, HDMW2253-03). Two multilevel monitoring locations, RHMW11 and RHMW14, are located outside the Facility. Two multilevel monitoring locations, RHMW13 and RHMW15, are located within the Facility boundary.

Analytical results were compared to 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, RHMW01R, 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 [µg/L]) and benzene (750 µg/L). The groundwater monitoring report, which summarizes sampling activities and laboratory analytical results, is being submitted as Enclosures 1 (hard copy) and 2 (CD).

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If there are any questions regarding this report, or if more information is needed, please contact Ms. Susan Lohr at susan.c.lohr.civ@us.navy.mil or Ms. Caroline Rossi at caroline.e.rossi.civ@us.navy.mil.

Sincerely,



C. J. GEERTSEMA
Captain, CEC, U.S. Navy
Regional Engineer
By direction of the
Commander

- Enclosures: 1. Third Quarter 2021 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, HI, DOH Facility ID No. 9-102271, dated May 30, 2022 (hard copy)
2. Third Quarter 2021 – Quarterly Groundwater Monitoring Report, Red Hill Bulk Fuel Storage Facility, JBPHH, Oahu, HI, DOH Facility ID No. 9-102271, dated May 30, 2022 (CD)

Copy to (electronic via DoD SAFE):

Ms. Gabriela Carvalho, U.S. EPA Region 9, Red Hill Program Coordinator
Mr. Delwyn Oki, United States Geological Survey (USGS)