



DEPARTMENT OF THE NAVY

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

5090
Ser N4/204
July 7, 2022

CERTIFIED NO: 9489 0090 0027 6232 9897 68

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: SOIL VAPOR SAMPLING RESULTS FOR MARCH 2022
RED HILL TANK COMPLEX
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NO. 990051, 010011, 020028, 140010, AND 210012

Monthly soil vapor samples were collected on March 18, 2022 from beneath all accessible Red Hill tanks, with the exception of Tanks 1 and 19, which are inactive and not included in the sampling network. The 18 tanks in the sampling network have two or three soil vapor monitoring points (SVMPs) screened within designated areas beneath the tanks. These SVMPs are each designated as shallow (S), middle (M), deep (D), or M/D.

To assess the integrity of the associated tank system, an action threshold or level was established as 50 percent of the calculated vapor concentration from fuel-saturated water. This conservative approach generated action thresholds of 280,000 ppbv for SVMPs beneath tanks containing jet fuels (F-24 or JP-5) and 14,000 ppbv for SVMPs beneath tanks containing marine diesel fuel (F-76).

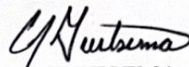
Soil vapor VOC concentrations measured with a photo-ionization detector (PID) in the field are presented with the appropriate action level graphically in an enclosure. At Tank 5, the concentrations of VOCs detected in the SVMPs were 918 ppbv (SV05S), 695 ppbv (SV05M), and 891 ppbv (SV05D). VOC concentrations measured in all down-gradient tank SVMPs were between 376 and 921 ppbv.

All VOC concentrations measured in March were below the action levels, with no consistent trends observed over time. Additional monitoring in accordance with the May 6, 2021 and November 20, 2021 Release Groundwater Sampling Plan is ongoing. These results are reported under separate cover. Regular monthly soil vapor VOC concentrations will continue to be sampled and reported. The April 22, 2022 and May 19, 2022 event results will be submitted under separate cover.

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If there are any questions regarding the March soil vapor sampling results, or if more information is needed, please contact Ms. Susan Lohr at susan.c.lohr.civ@us.navy.mil or Ms. Caroline Rossi at (808) 471-4881.

Sincerely,



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

Enclosure: Graphical Summary of Soil Vapor Sampling Results for Tanks 2 - 18 and 20
Data represented through March 2022 (18 pages)

Copy to:
Mr. John Floyd, NAVSUP FLC Pearl Harbor

Electronic Copies to:
Ms. Gabriela Carvalho, U.S. EPA Region 9, Red Hill Program Coordinator
Mr. John Reed, DLA Energy Pacific
Mr. William Potter, DLA Energy - Engineering, Environmental, Property Directorate