



Red Hill Bulk Fuel Storage Facility Tank Cleaning

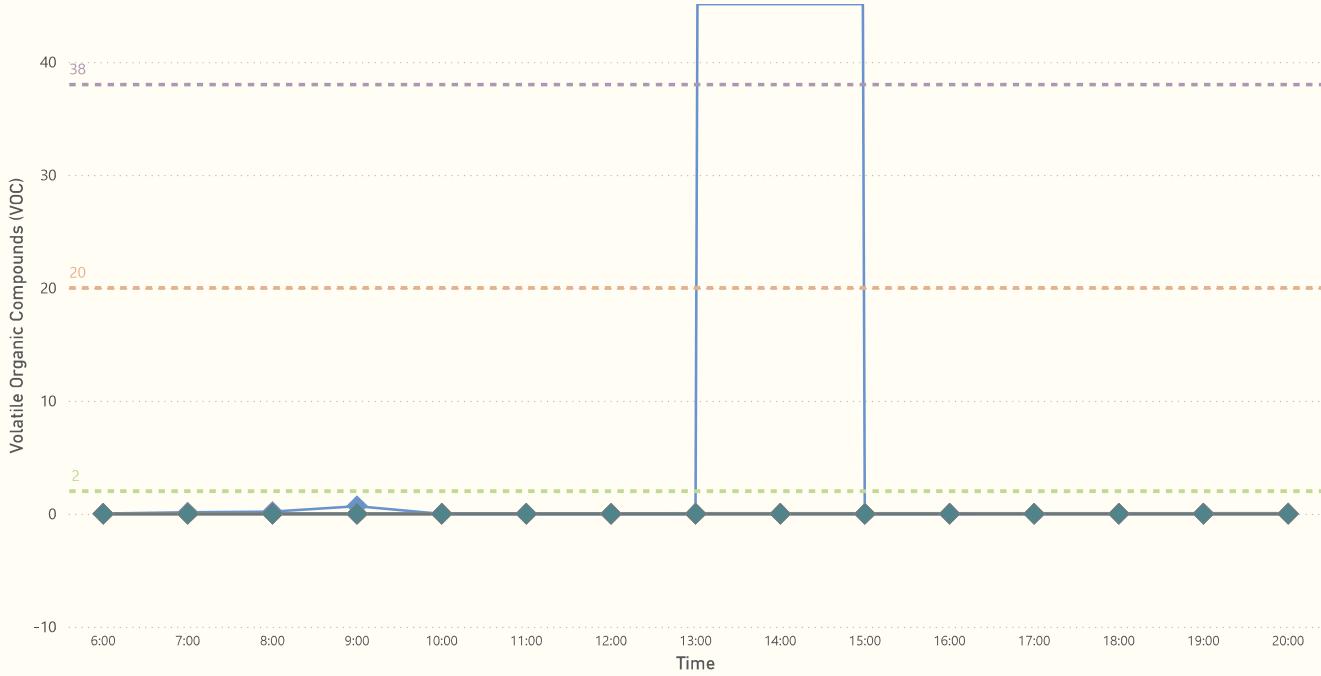
Air Quality Monitoring - Current

11/5/2024 8:00 PM

Red Hill Air Quality Monitor Readings

Parts Per Million by Volume (ppmv)

Station Name ◆ RH-AQM-1 ◆ RH-AQM-2 ◆ RH-AQM-3 ◆ RH-AQM-4 ◆ RH-AQM-5 ◆ RH-AQM-6 ◆ RH-AQM-7 ◆ RH-AQM-8 ◆ RH-AQM-9



VOC Readings Over 0

Station Name	ppmv	Date & Time
RH-AQM-4	0.001	11/5/24 8:00 PM
RH-AQM-1	0.054	11/5/24 8:00 PM
RH-AQM-1	0.045	11/5/24 7:00 PM
RH-AQM-1	0.029	11/5/24 6:00 PM
RH-AQM-1	0.020	11/5/24 5:00 PM
RH-AQM-1	0.003	11/5/24 4:00 PM
RH-AQM-1	0.001	11/5/24 3:00 PM
RH-AQM-1	1991.524	11/5/24 2:00 PM
RH-AQM-1	0.683	11/5/24 9:00 AM
RH-AQM-1	0.174	11/5/24 8:00 AM
RH-AQM-1	0.125	11/5/24 7:00 AM
RH-AQM-1	0.020	11/5/24 6:00 AM

The data on this web page are preliminary and await review and validation by qualified staff. The data may be revised after review. Every effort is made to assert the validity and integrity of the data, but data can be affected by equipment malfunctions, technical difficulties, and other unforeseen circumstances.

Note: Active tank ventilation has not occurred since 10/22/2024. However, on 11/5/24, the 02:00 PM readings indicated elevated VOC levels at RH-AQM-1. Upon investigation, it was determined there was a PID malfunction at RH-AQM-1 which had triggered false alarm notifications. There were obvious signs water has affected the sensor. The PID has been pulled from service and a new PID has been installed.

Volatile Organic Compounds (VOC) Levels Legend

0 - 2 ppmv	Ambient Level (Perimeter)	20 ppmv	Cease Ventilation Operations (1 Hr total weight average)	38 ppmv	Public Notification level 1 (8 hr exposure) (Perimeter)	144 ppmv	Level 2 (Perimeter)
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HOW WE ARE MONITORING YOUR AIR

The Hawaii State Department of Health (DOH) has set guidelines for air quality monitoring during tank ventilation at the Red Hill Bulk Fuel Storage Facility (RHBFsf). The Environmental Protection Agency's (EPA) Acute Exposure Level Guidelines (AELG) provide limits for the release of specific chemicals into the air which may cause health effects to occur. EPA's AELG is in place to protect the elderly, children, and other individuals who may be susceptible to health effects caused from the release of these airborne chemicals.



NCTF-RH will monitor the levels of emission every hour and provide updates on the air quality levels through our mobile app.



In the event air levels reach a threshold of 20 parts per million by volume (ppmv) at the stack (i.e., at the ventilation system exit point), NCTF-RH will investigate and cease ventilation operations until levels have decreased.



In compliance with DOH guidelines, should air quality levels reach 38 ppmv, regulators and local emergency agencies will be notified. The public will also be notified via the NCTF-RH app and a media press release. Per EPA's AELG, this is considered Level 1. Conditions may include discomfort, irritation, or certain asymptomatic non-sensory effects. These effects are not disabling, are transient and reversible upon cessation of exposure.



Per EPA's AELG, air quality levels at 144 ppmv are considered a Level 2 exposure. These conditions may include serious, long-lasting adverse health effects or an impaired ability to escape.



For concerns regarding air quality contact the Navy Call Center at (808) 210-6968.



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Air Quality Monitoring - Current

11/5/2024 8:00 PM

Red Hill Air Quality Monitor Readings

Parts Per Million by Volume (ppmv)

Time	RH-AQM-1	RH-AQM-2	RH-AQM-3	RH-AQM-4	RH-AQM-5	RH-AQM-6	RH-AQM-7	RH-AQM-8	RH-AQM-9	Hr Avg VOC
6:00	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
7:00	0.125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014
8:00	0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019
9:00	0.683	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.076
10:00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11:00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12:00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13:00	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14:00	1991.524	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	221.280
15:00	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
16:00	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
17:00	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
18:00	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
19:00	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005
20:00	0.054	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.006
AQM Avg VOC	132.845	0.000	14.761							

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