

Safe, dependable, and affordable water now and into the future



Red Hill Bulk Fuel Storage Facility Public Meeting

Moanalua Middle School August 15, 2016

An overview by the Honolulu Board of Water Supply



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Today's Discussion

- Red Hill tanks located 100 ft. above groundwater aquifer used for drinking water
- Navy studies show petroleum chemicals in groundwater and rocks underneath facility
- Red Hill Administrative Order on Consent (AOC) process taking too long and lacks adequate public and stakeholder participation



Ewa Caprock overlying 30203, 30204 & 30205 basal aquifer systems 1/1

08/28/2008

Map Projection: Universal Transverse Mercator

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Fuel Contamination Under Red Hill Tanks

- 1998-2002
 Investigations.
- Basalt rock core samples taken from underneath
 19 out of 20 tanks show petroleum stains.

Red Hill Bulk Fuel Storage Facility, Initial Phase II Site Characterization Report Section: 4
Date: March 1999 Page: 11 of 12

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Figure 4-8 Petroleum Stained Core - B16C, 60' to 69'

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2010 Navy Audit

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> N2010-0049 16 August 2010

Findings

- Groundwater contamination resulting from irregular maintenance and insufficient inspection.
- Delays in completion of the maintenance cycle due to operational and time constraints.
- Inability of current leak detection methods in detecting slow, chronic fuel leaks.
- Non-compliance with terms of the State DOH approved Navy Groundwater Protection Plan (GPP).

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Groundwater Contamination underneath Red Hill Tanks (RHMW02) as of January 2016 7000 Other possible leaks? 6000 1/13/14 Tank 5 leak 5000 TPH-d (ppb) — TPH-d DOH EAL Gross contamination 4000 —____ TPH-d DOH EAL DW Toxicity qdd 3000 2000 1000 190 ppb EAL. DOH action limit for drinking water n 9/20/2005 9/20/2006 9/20/2007 9/20/2008 9/20/2009 9/20/2010 9/20/2011 9/20/2012 9/20/2013 9/20/2014 9/20/2015

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BWS Concerns with AOC

- Too long to install improvements (22 27 years) to a 73 year old facility.
- No specifics. Allows 2 years to do studies that already done in the past.
- Public transparency and participation opportunity is lacking. Public sees only synopsis of work.
- Will it eliminate the risk to our drinking water supply?

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Questions/ Discussion