

EPA and DOH Oversight of Environmental Work at the Red Hill Facility

Fuel Tank Advisory Committee
November 15, 2023



Key Updates Since June 2023 FTAC

Increased environmental monitoring efforts for defueling:

- Fuel from tanks was analyzed before defueling began
- Defueling update to the Groundwater Protection Plan was completed and is currently being implemented by the Navy.

October Navy letter acknowledged need to comprehensively address recent and historic releases

Regular Subject Matter Expert Involvement (BWS, CWRM, USGS):

- [Red Hill Remediation Roundtable](#) (bimonthly)
- Subject Matter Expert Workshops (quarterly)
- Well Installation Workshops

EPA increased dedicated Red Hill on-island staffing

DOH/EPA Environmental Oversight

Direct and oversee Navy investigation and remediation work

- Site assessment requirements before and after facility closure
- Independent analysis of groundwater and other site data
- Remedy evaluation, selection, and implementation

Share data and communicate risk information to the public

EPA Website
Groundwater Results App



DOH Website
Red Hill

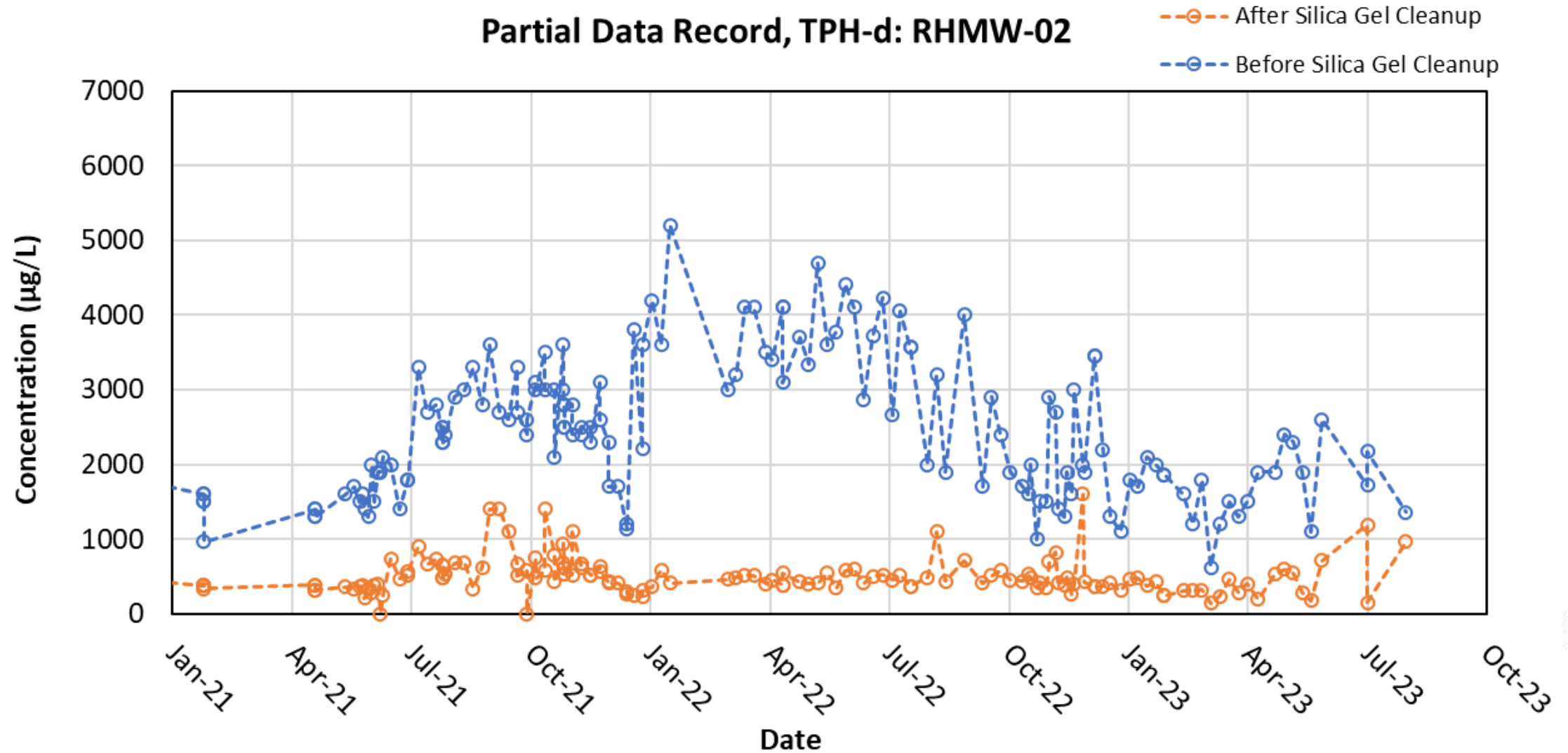


Navy Website
JBPHH Safe Waters



Example of Changes in Concentration Over Time

Partial Data Record, TPH-d: RHMW-02

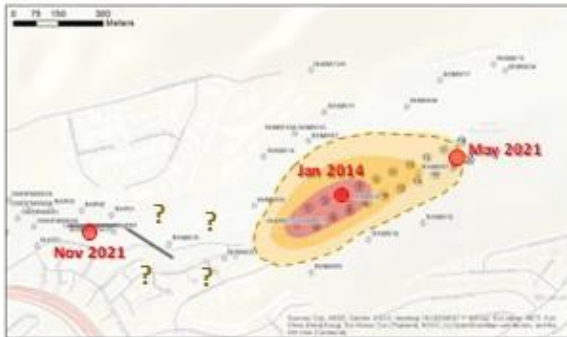


Evaluation of Aquifer Conditions – Mixed TPH

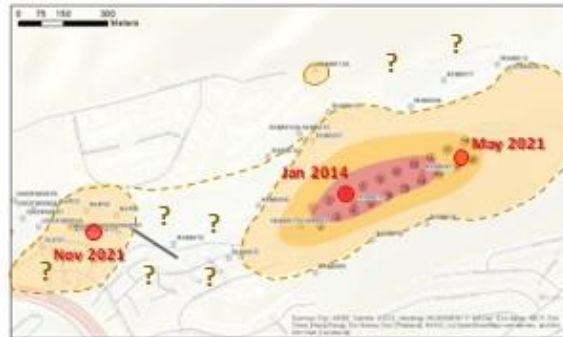
Frequency of EAL exceedances

May 2021 to August 2023

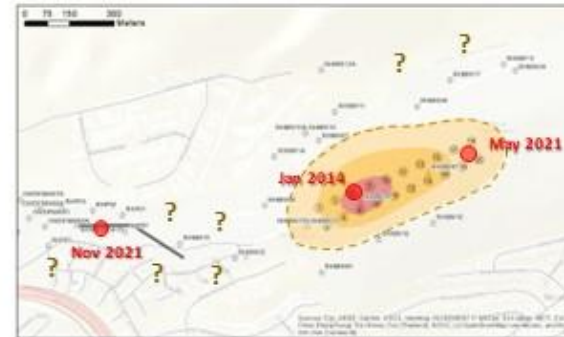
Prior to May 2021



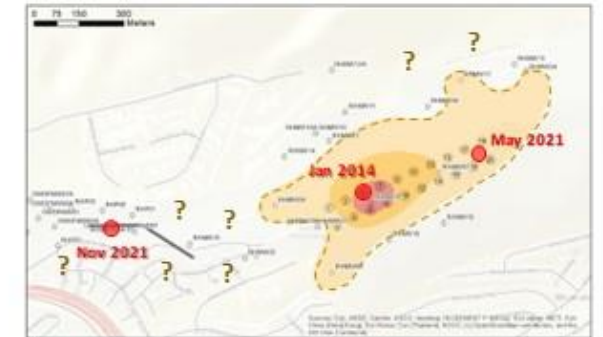
May 5 2021 – May 4 2022



May 5 2022 – May 4 2023



May 5 2023 – August 7 2023



The maps provide a single depiction of conditions in a dynamic environment. Exceedances of the mixed EAL appear over a larger footprint after the May 2021 release. Since May 2022, there have generally been fewer exceedances (smaller red and orange areas), but the outer footprint changed.

- Please note: There were fewer sampling events between May 5 and August 7, 2023 than between May 2022 and May 2023. Variations due to seasonality and other factors may be more apparent

Data sources: RA compiled Navy Groundwater Data

Recommended Risk-Based Drinking Water Action Levels for Total Petroleum Hydrocarbons (TPH) Associated with Releases of JP-5 Jet Fuel: Hawaii Department of Health, Hazard Evaluation and Emergency Response (HDOH-HEER), April 12, 2022 and revisions (Mixed EAL @346 µg/L)



Current Oversight of Environmental Activities

- Reviewing the collection, evaluation, and reporting of data during defueling to aid in identification of any potential releases
- Overseeing site investigation at the Facility
 - Expansion of groundwater monitoring well network
 - Continued groundwater and soil vapor monitoring
 - Nov. 2021 fuel release investigations (Adit 3)
 - Nov. 2022 AFFF concentrate release (Adit 6)
 - Red Hill Facility-wide PFAS investigation
- Overseeing evaluation of potential remedial options
 - Soil vapor extraction pilot study

Anticipated Oversight of Environmental Activities Associated with Closure

- Overseeing the Site Investigation of the Facility
 - Includes the entire UST system
 - Comprehensive Closure Site Assessment
 - Continued investigation of recent and historical Red Hill releases
 - Support the University of Hawaii/Office of Naval Research regarding studies of environmental conditions around Red Hill
- Overseeing the Evaluation of Potential Remedial Options
 - Evaluation of remedial options
 - Selection of preferred remedial option (including public participation)
 - Implementation of selected remedial option