Red Hill Update CWRM



Navy Closure Task Force–Red Hill 17 SEPTEMBER 2024







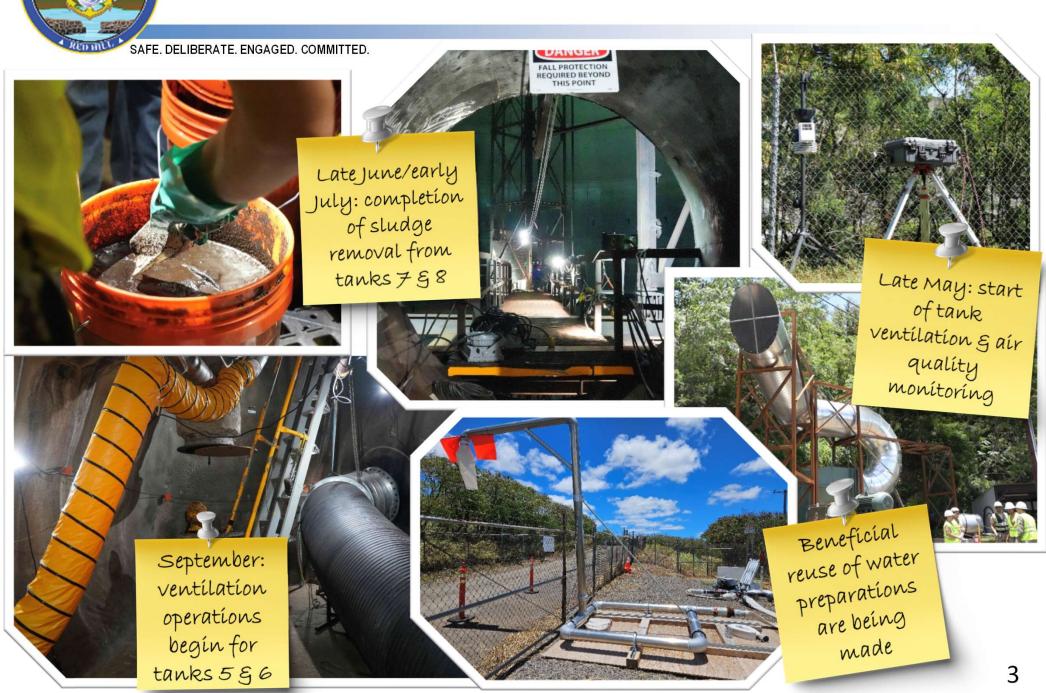
Apple

Android



- Operational Update
- NCTF-RH Dashboard
- Groundwater Network
- Potential New Wells
- Groundwater Sampling
- Groundwater Flow Model
- Environmental Remediation
- Upcoming Engagements

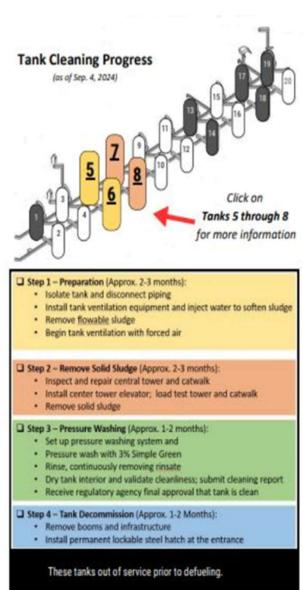
Operational Update

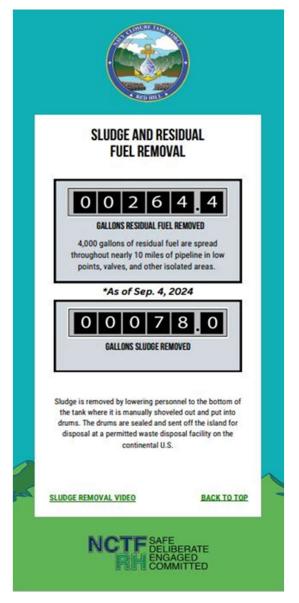




NCTF-RH Dashboard



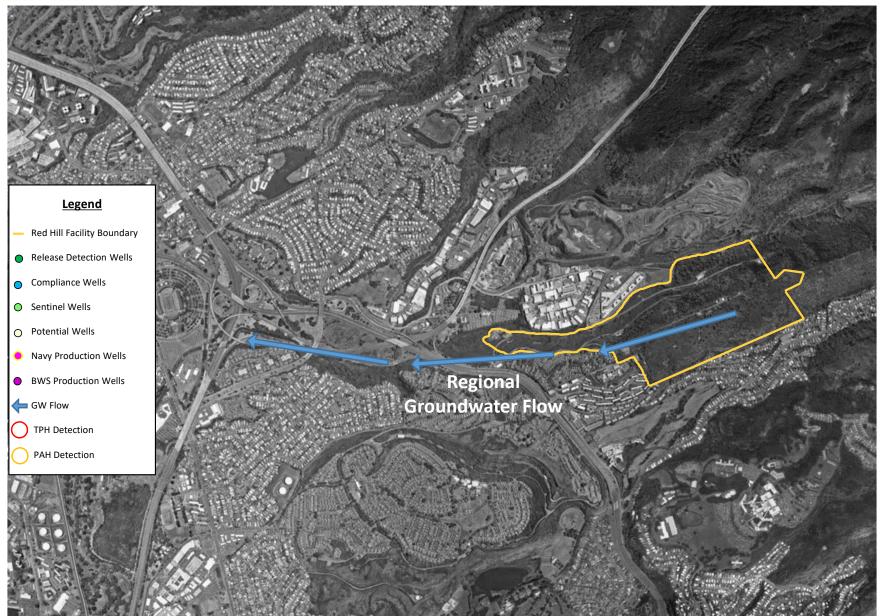






Groundwater Flow

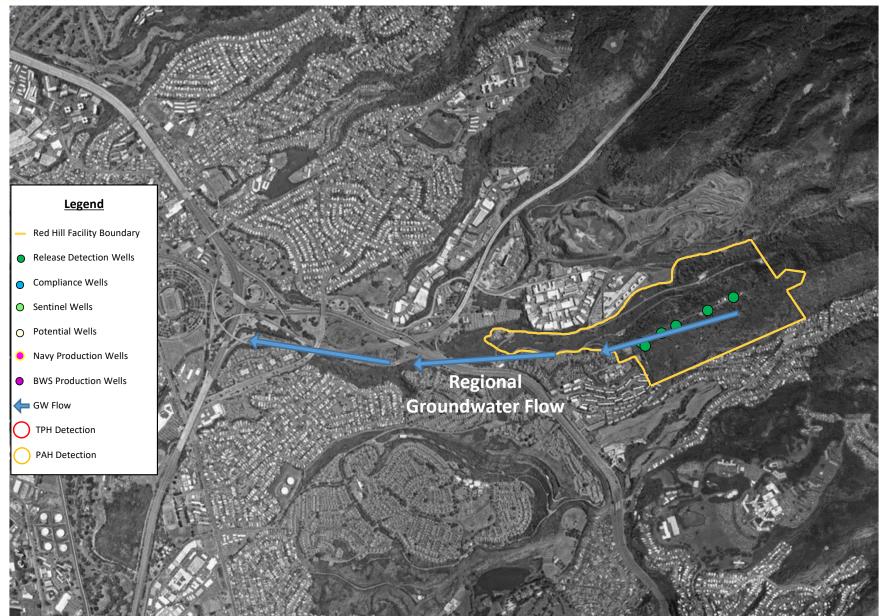
Groundwater Network Layers of Protection





Release Detection Wells

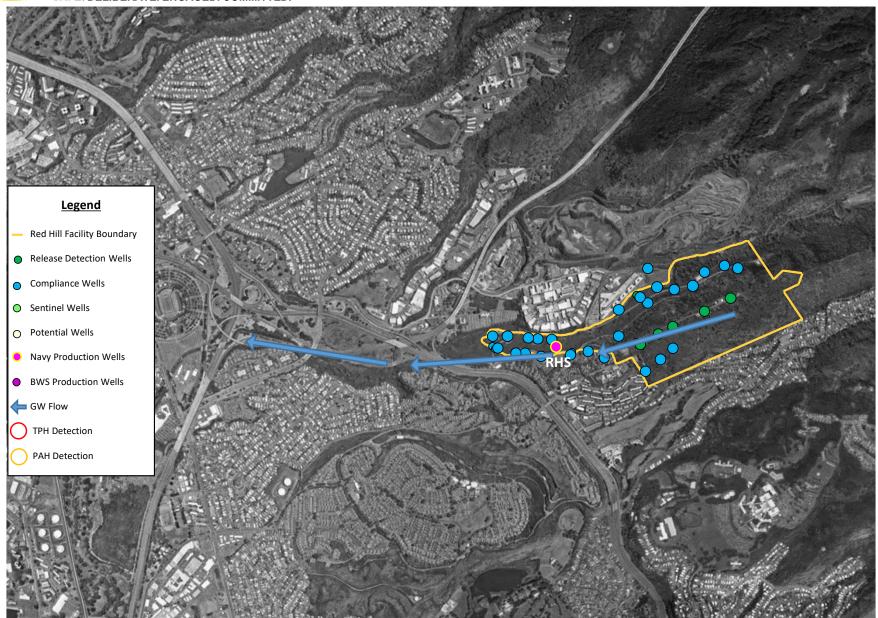
Groundwater Network Layers of Protection





Compliance Wells

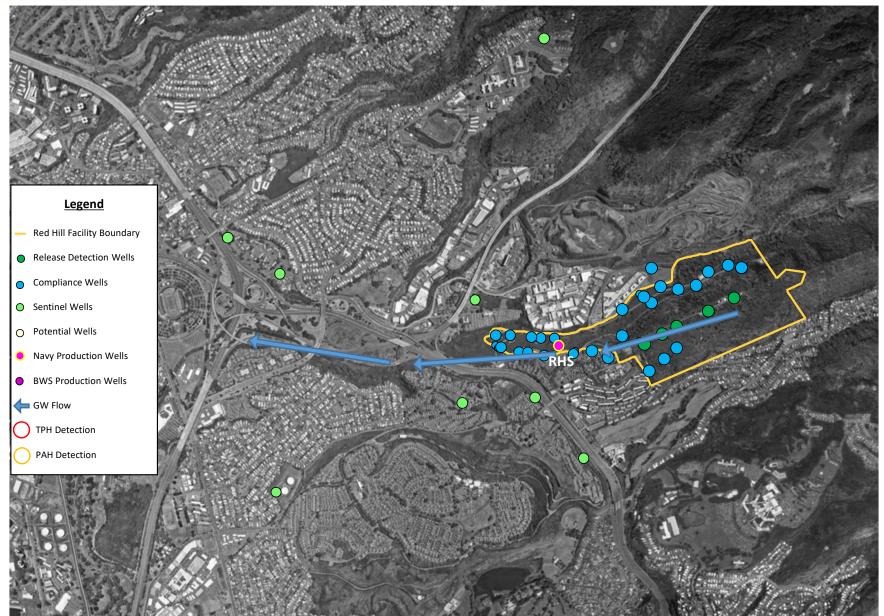
Groundwater Network Layers of Protection





Sentinel Wells

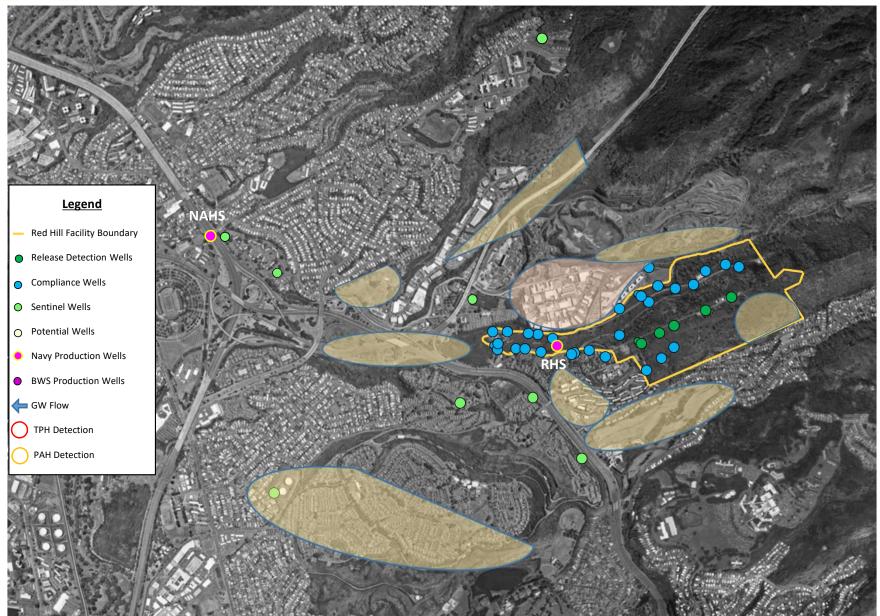
Groundwater Network Layers of Protection





Potential New Wells

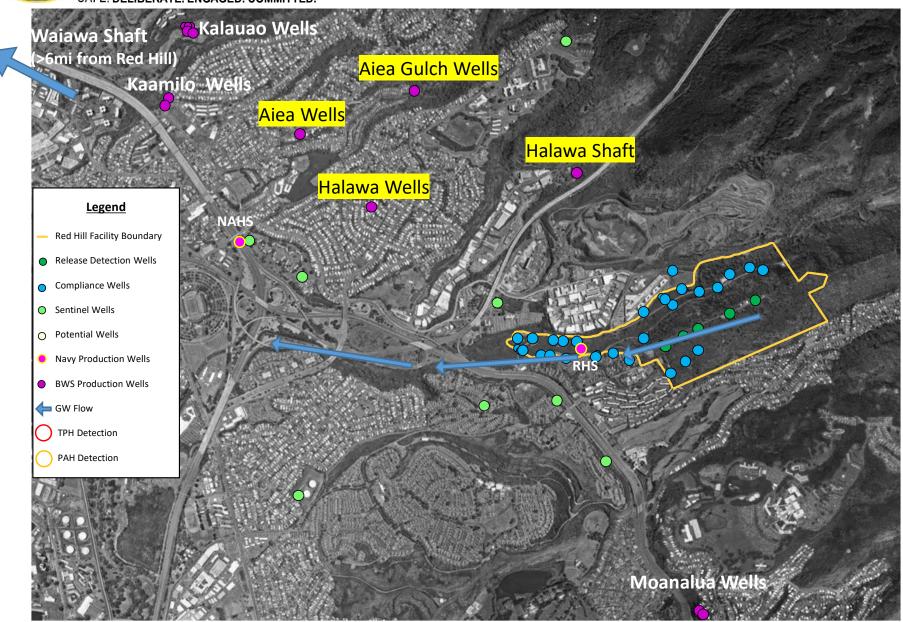
Groundwater Network Layers of Protection





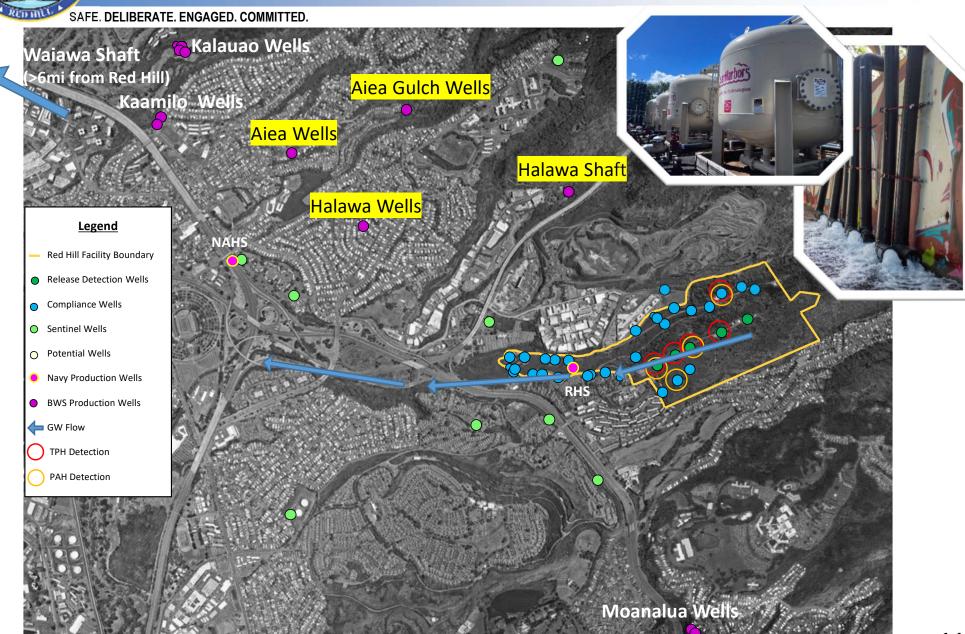
BWS Production Wells

Groundwater Network Layers of Protection



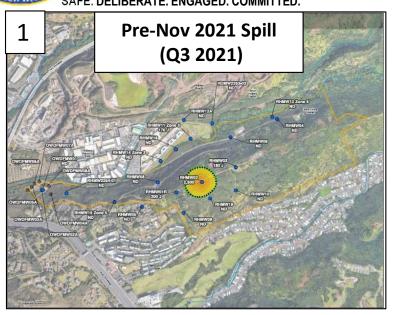
Navy Results Groundwater Netv

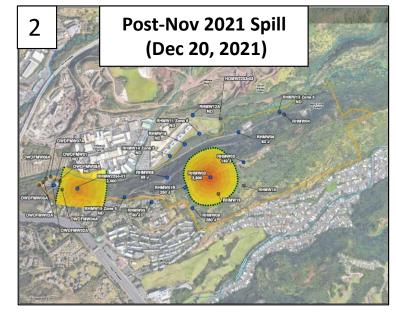
Groundwater Network Layers of Protection



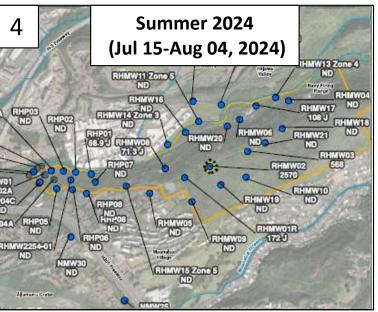
REDUIT

Contaminant Mapping (TPH-d): 2021–2024









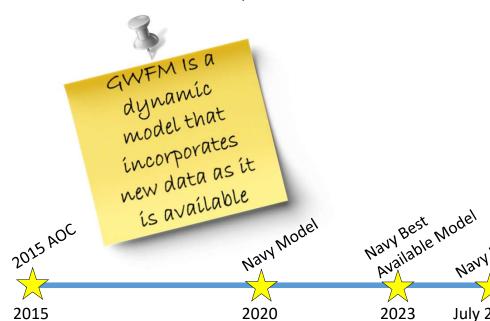


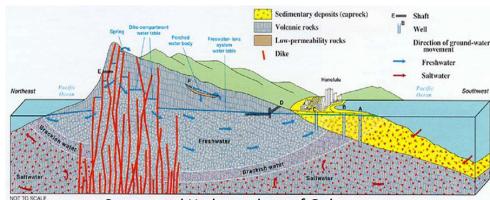
Groundwater Flow Model

SAFE, DELIBERATE, ENGAGED, COMMITTED.

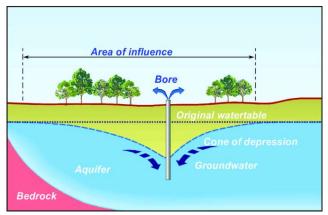
Composite model:

- Geological Conceptual Site Model
 - Estimation of the geologic material distribution
- **Groundwater Flow Model**
 - Estimates flow direction and flow rates of groundwater
- Vadose Zone Model
 - Studies processes that occur in the geology between the land surface and groundwater table
- Contaminant Fate and Transport Model
 - Estimates migration pathways of contaminants
 - Estimates how natural processes affect concentrations





Conceptual Hydrogeology of Oahu



Capture Zone created by a pumping well

Navy Draft Model

July 2024

2023

Naw Final Wodel

Sep 2024



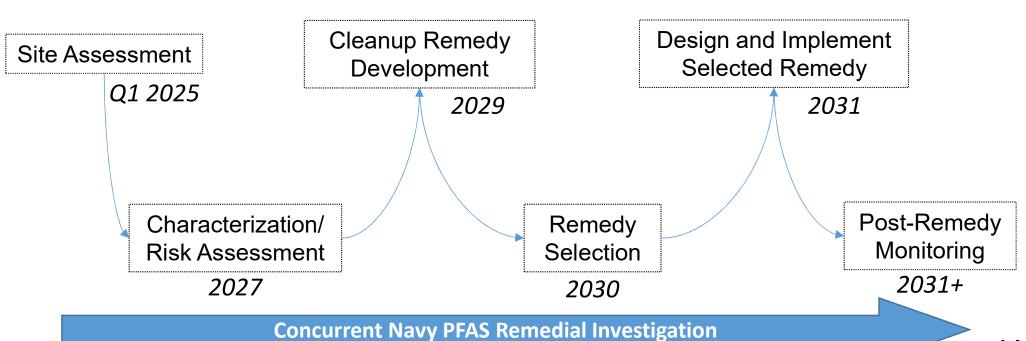
Environmental Remediation

Remediation
began in 2021
and will
continue until
complet

SAFE, DELIBERATE, ENGAGED, COMMITTED.

- Site Assessment Purpose: determine if historic releases (known and unknown) have impacted the facility
 - Will meet all regulatory requirements
 - Sampling and analysis to determine presence or absence of a release
- Deliberate, data-driven process

General Process Flow



REDUIT

Upcoming Public Engagements



24SEPT:
 GROUNDWATER
 NETWORK WEBINAR

- · 09OCT: FTAC
- 100CT: RH
 REMEDIATION
 ROUNDTABLE
- · 14NOV: OPEN HOUSE
- 160CT: GROUNDWATER
 FLOW MODEL WEBINAR





Navy's Commitment

SAFE. DELIBERATE. ENGAGED. COMMITTED.



The Navy's priority is protection of Oahu's aquifer now and into the future.

Protecting the aquifer protects all people.

The Navy is committed to ensuring JBPHH's water distribution system continues to meet state and federal standards and the water remains safe for consumption.