

### **Environmental Checks and Balances**

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Careful planning allows
NCTF-RH to proactively
identify environmental risks
associated with the closure
process.

The NCTF-RH Team ensures the implementation of protective measures during all closure operations.

The daily process of PLAN-DO-CHECK-ACT allows for early mitigation of new or emerging risks.

NCTF-RH continually monitors the closure progress to identify new or emerging risks.

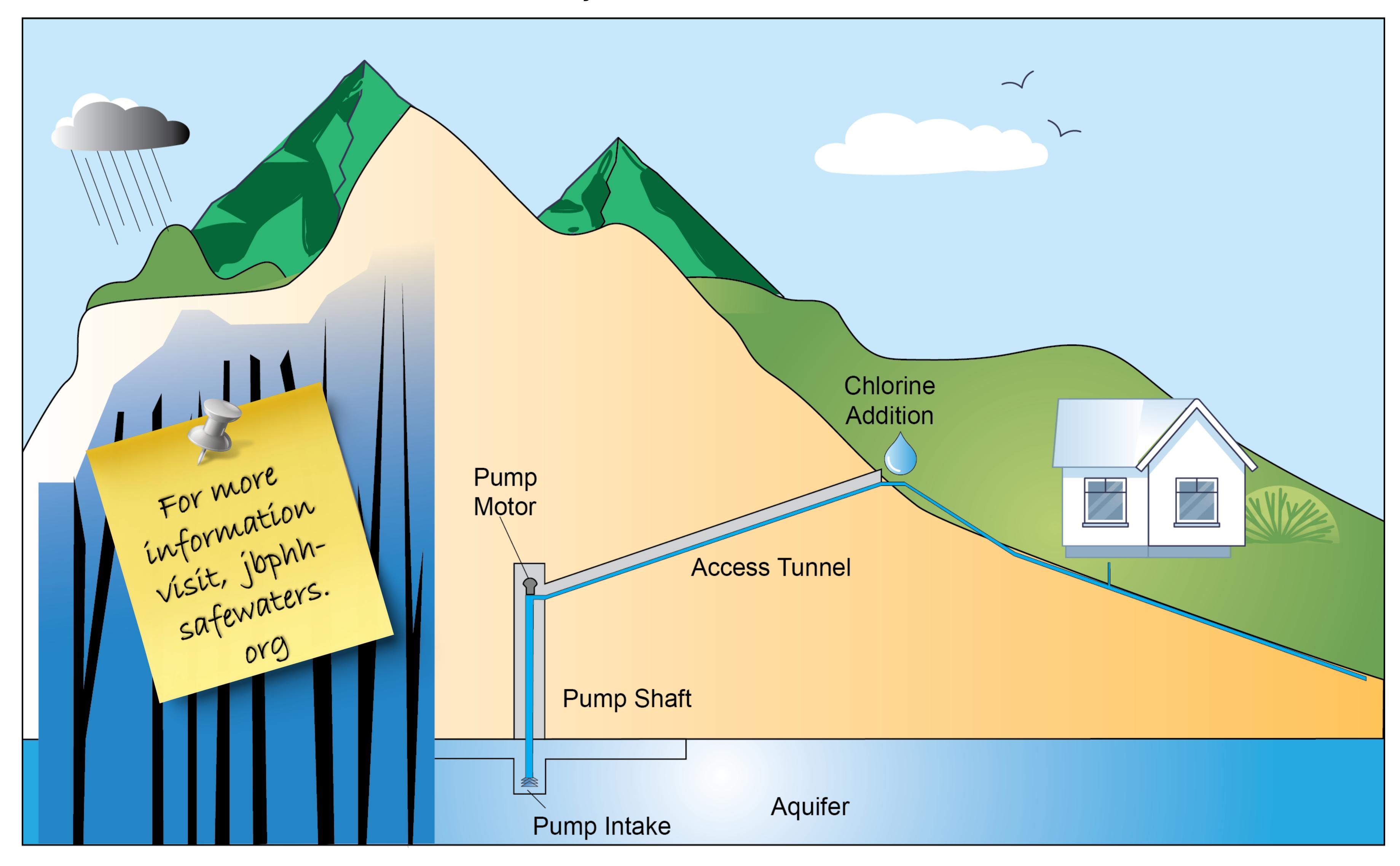
Strong partnerships with our regulators ensure success in the protection of our environment for future generations.



## Where Does My Water Come From?

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Joint Base Pearl Harbor-Hickam's drinking water is supplied solely from the Waiawa shaft, a source over 6 miles away from Red Hill. The water is chlorinated before it enters the distribution system to serve 93,000 customers.





# JOINT BASE PEARL HARBOR-HICKAM DRINKING WATER PROGRAM ENSURING SAFE AND COMPLIANT DRINKING WATER













### Water Quality Action Team

- •24/7 response to consumer concerns through the call center (808) 210-6968.
- Full water quality evaluation for consumer concerns, includes water quality professional.
- Includes investigations for hydrocarbons, bacteria, residual chlorine, water heater, and plumbing concerns.
- A liaison provides information and answers questions.

### Compliance Monitoring

- •Recurring monitoring in accordance with the Safe Drinking Water Act for drinking water systems.
- •Full drinking water analytes sampled for required operational testing (bacteria/chlorine/etc.).
- •Reported to all consumers by the JBPHH consumer confidence report, which is completed each summer.

### **Extended Drinking Water Monitoring Program**

- •Successor to the Long Term Monitoring Program. Will be conducted through March 2025.
- Focus of the monitoring is looking for petroleum hydrocarbon and fuel-related constituents.
- •A goal to sample 100% of homes on the JBPHH drinking water system.

### Drinking Water System Operations and Maintenance

- Source water and wellhead protection plan.
- Unidirectional flushing.
- Backflow and cross connection program.

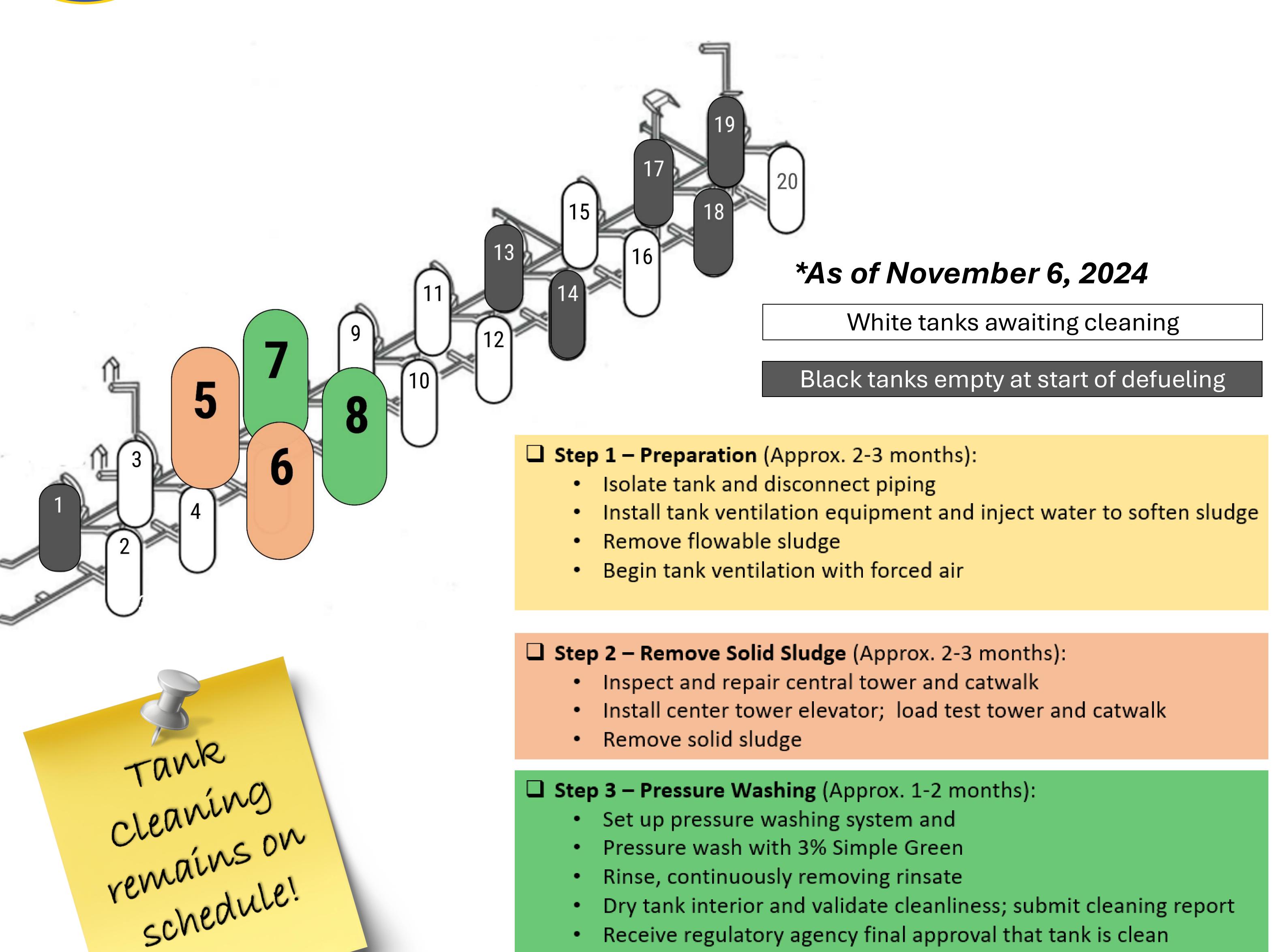
### Medical Monitoring

- •Established Red Hill Clinic and authorizing eligible community members to use the clinic.
- •Established Defense Occupational and Environmental Health Readiness Red Hill Incident Report.
- Ongoing CDC/ATSDR Public Health Assessment and establishment of Red Hill Registry.
- Epidemiological studies and medical record reviews.



## Tank Cleaning Update

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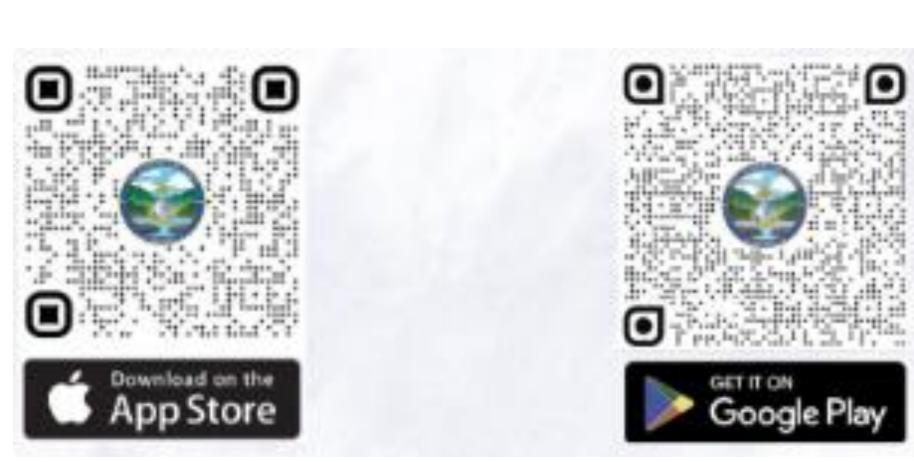
Receive regulatory agency final approval that tank is clean

Install permanent lockable steel hatch at the entrance

☐ Step 4 - Tank Decommission (Approx. 1-2 Months):

Remove booms and infrastructure



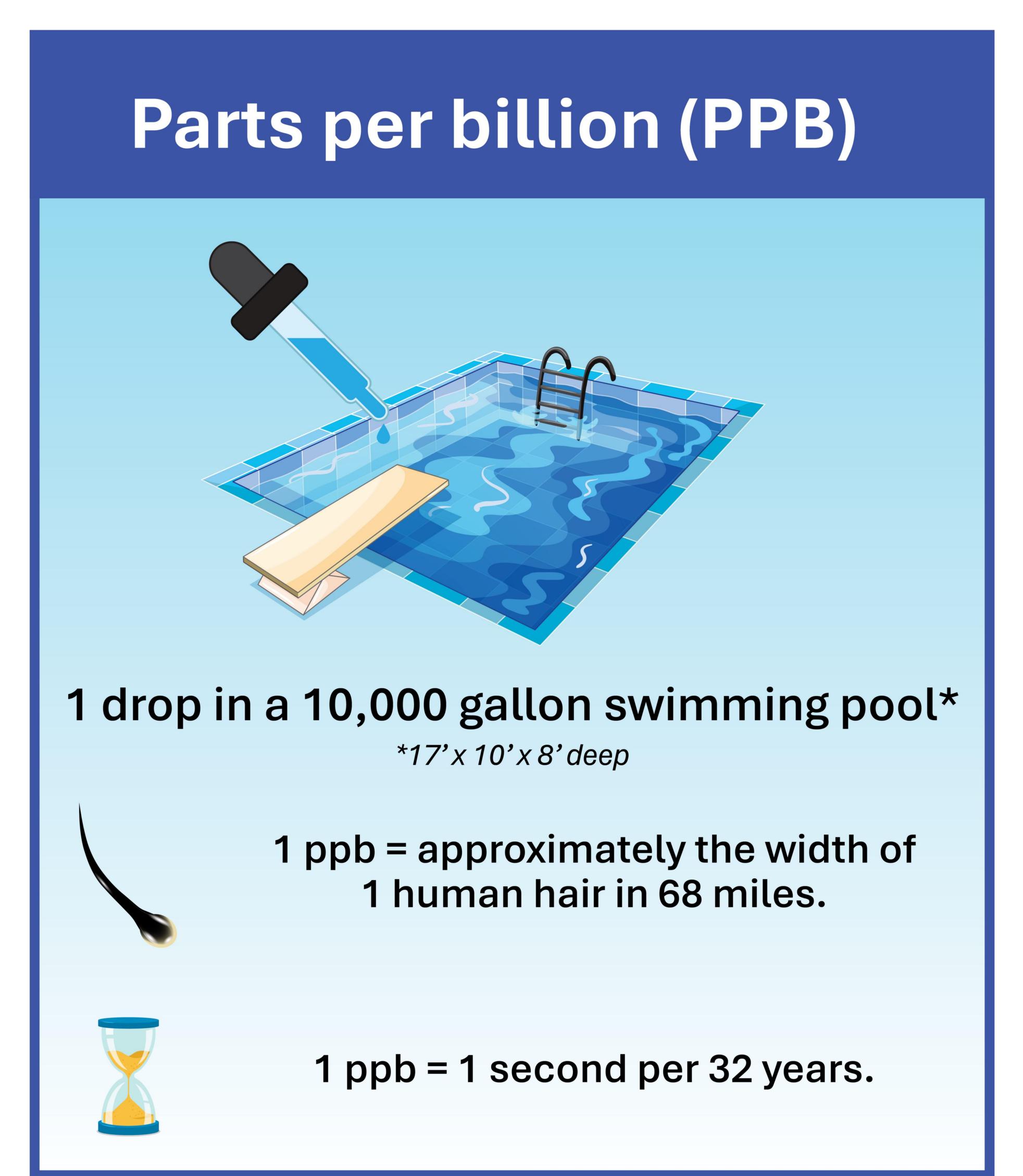


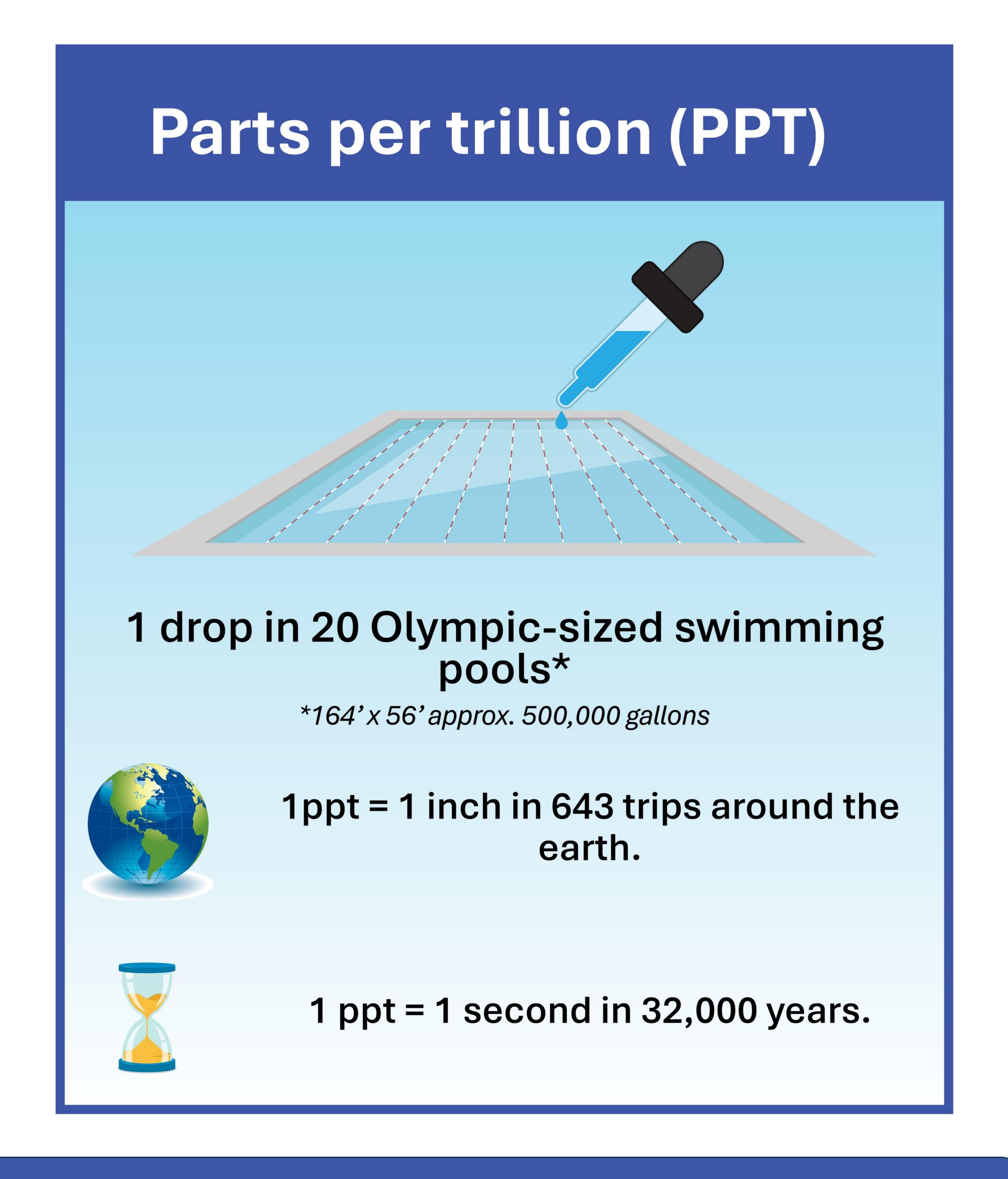
Download our mobile app and stay informed of the latest closure related information.



### What is a ...?

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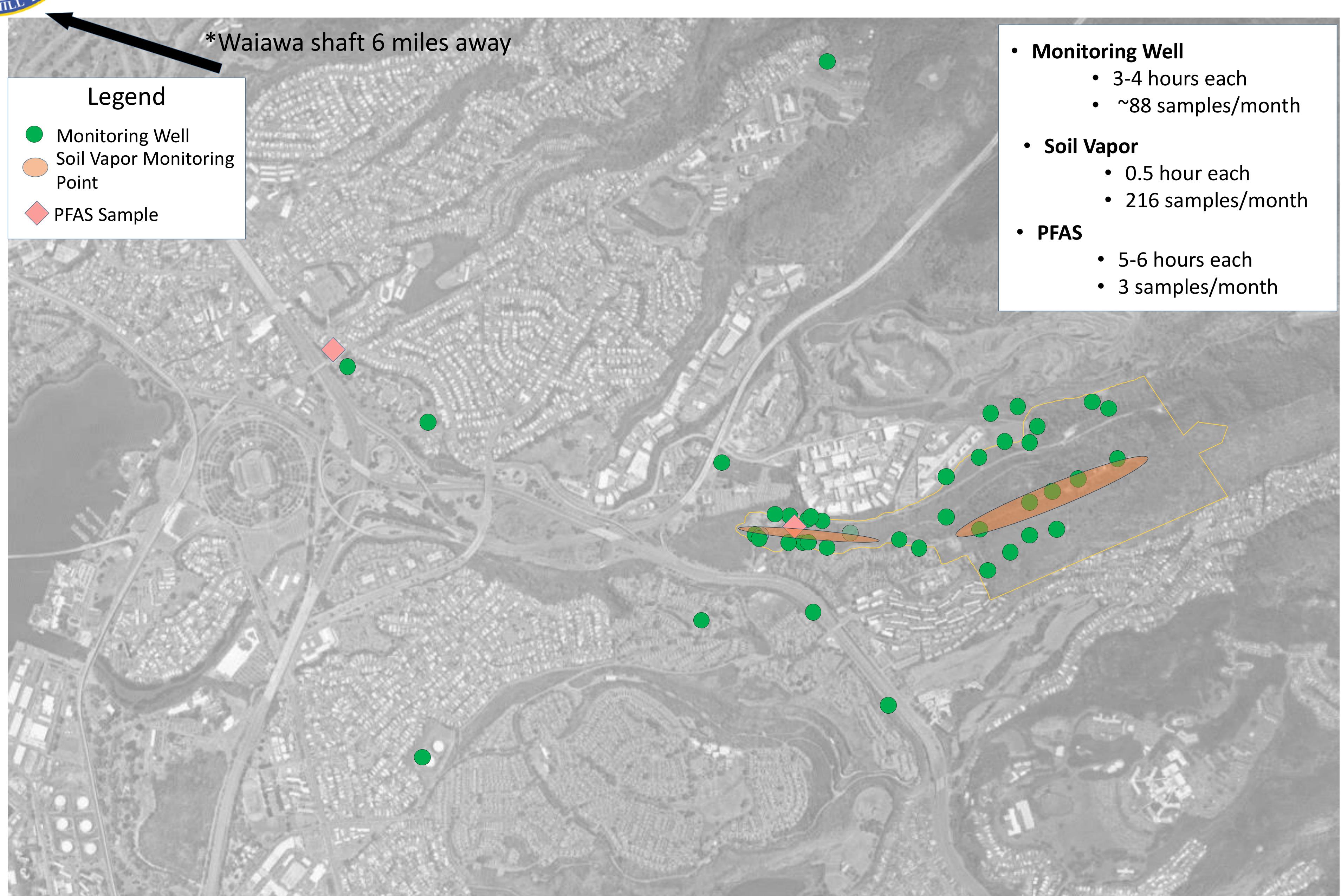


The Navy uses EPA-approved laboratories and methods with state-of-the-art equipment to analyze samples.

# \* CLOSURE TASK FORCE

# Monthly Sampling Snapshot Around Red Hill

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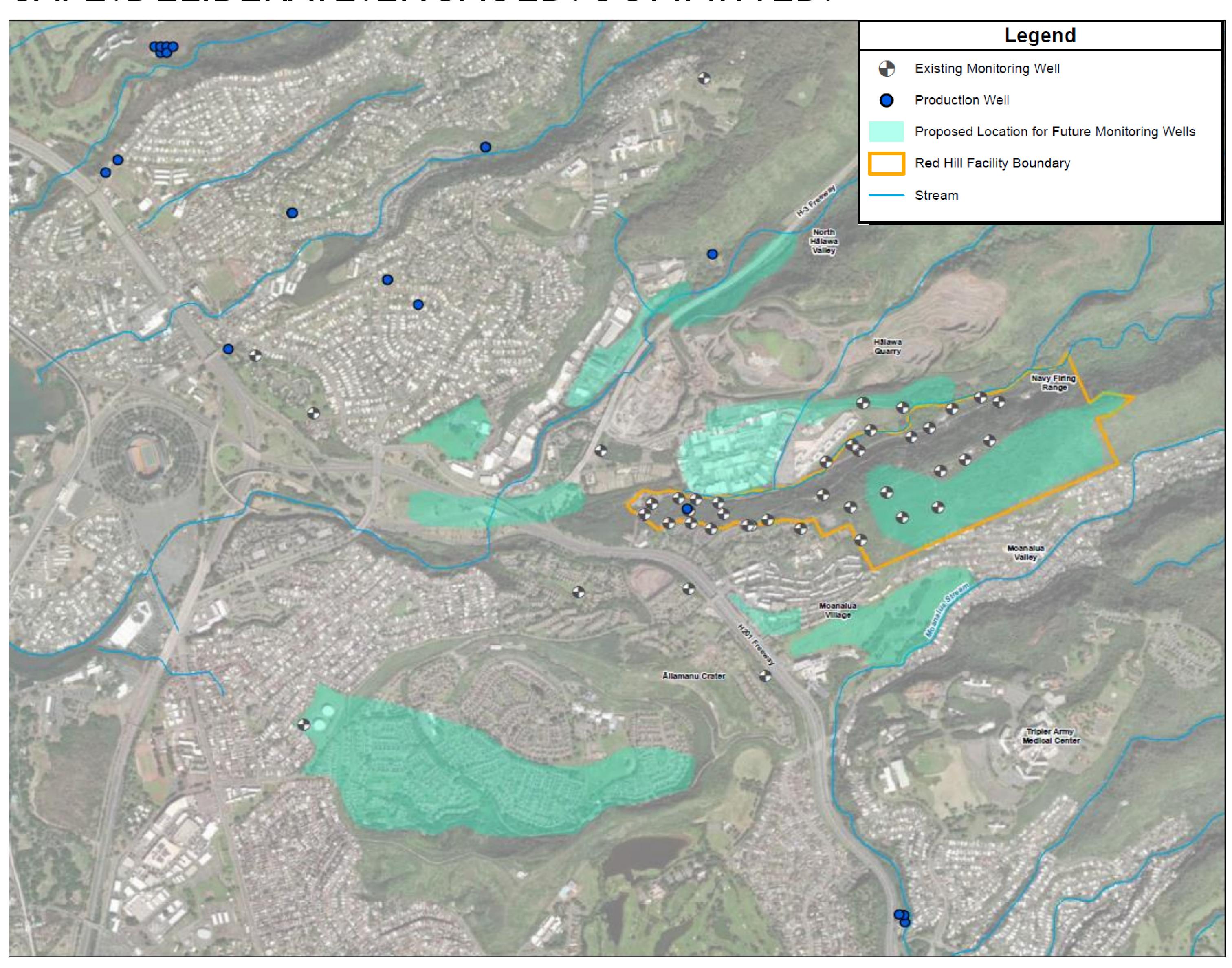


NCTF-RH team members collect over 350 samples of various types across more than 130 dispersed sample locations each month, or an average of 12 per day.



# Current & Proposed Monitoring Well Network

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The Navy's monitoring well network extends beyond RHBFSF boundaries, with more coming. Each new well provides more data to ensure continued protection of the aquifer and help inform the Navy's groundwater flow model.



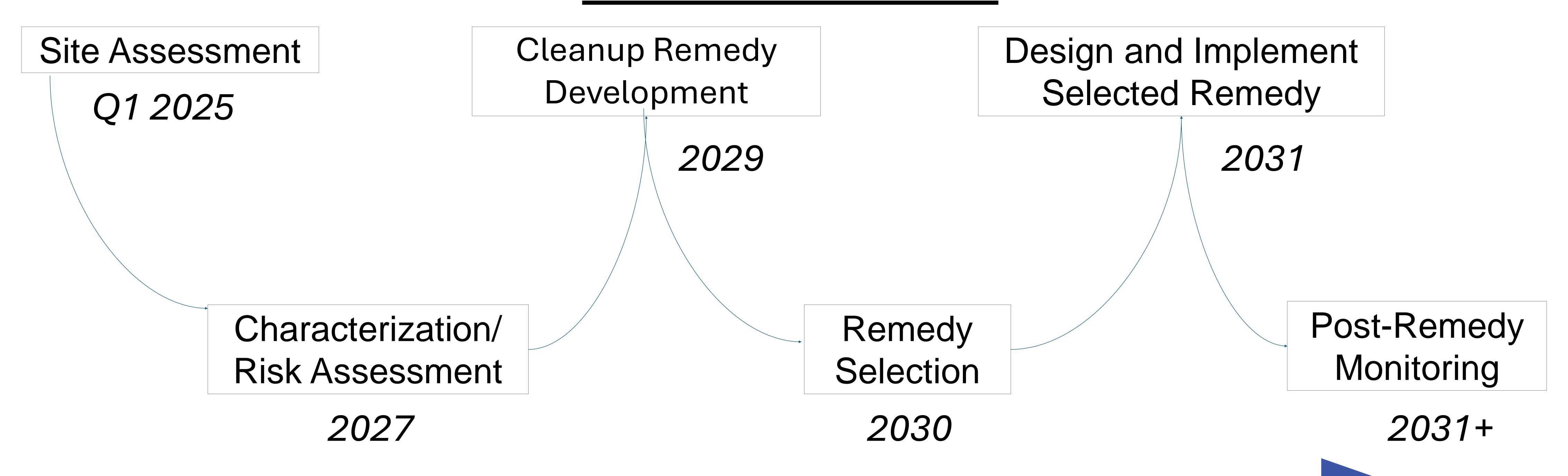
### **Environmental Remediation**

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### Site Assessment

- Regulatory driven requirement
- Looks at historic releases (known and unknown)
- Conduct sampling and analysis to determine characterization of a release
- Deliberate, data-driven process

### General Process Flow



Concurrent Navy PFAS Remedial Investigation (CERCLA)



# **Ensuring Water for the Long-Term**

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# Pathway to **Resiliency**, **Redundancy** and **Security** to the JBPHH Drinking Water System

- Infrastructure Improvements
- Shaft Reactivations
- Treatment Systems
- Cybersecurity Improvements
- Leak Detection Programs
- Watershed Projects

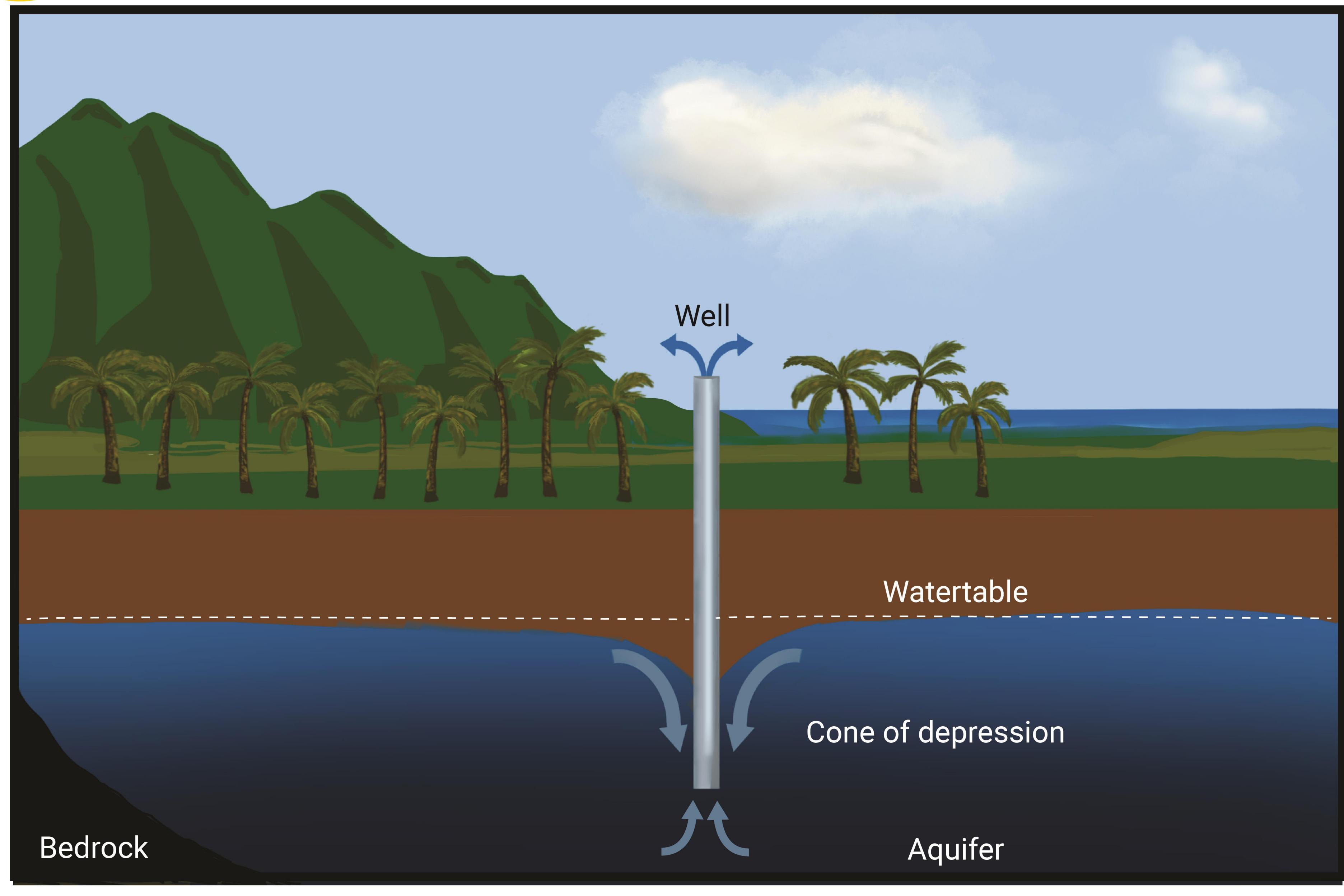


Joint effort between NCTF-RH, JBPHH, NAVFAC, Navy Region Hawaii and community partners.



# Capture Zone

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# Cleanup Process

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