# Navy Water System Incident: Update on Drinking Water System Flushing and Water Quality Data Collection

Agenda Item D.2.a.

Hawai'i Department of Health for Department of Land and Natural Resources Commission on Water Resource Management February 15, 2022



# Agenda

- 1. Public Health Advisory
- 2. Status of the Drinking Water System Flushing
- 3. Water Quality Data Collection Sampling Plan & Long Term Monitoring of the Drinking Water
- 4. Guidance to Amending the Public Health Advisory Lines of Evidence



## **Current Advisory**





Navy water system users under advisory should avoid using the water for drinking, cooking or oral hygiene. Pets under advisory should not drink water.



Those who detect a fuel-like odor should also avoid using the water for bathing, dishwashing or laundry.



https://health.hawaii.gov/news/newsroom/hawaii-department-of-health-advisesnavy-water-system-consumers-not-to-drink-consume-tap-water/

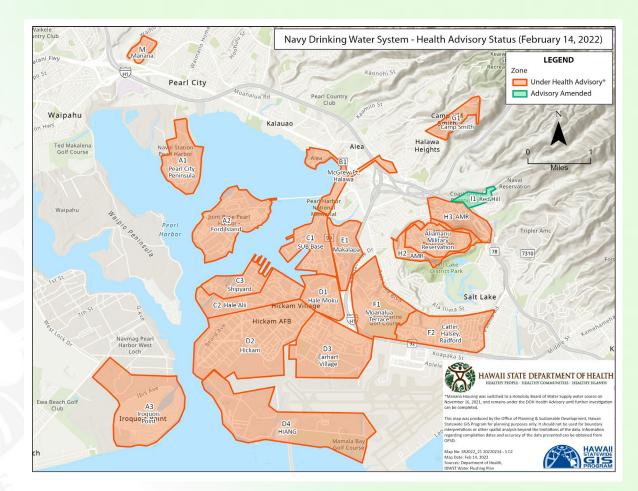
## Symptoms from Exposure to Petroleum Hydrocarbons in Drinking Water

- Stomach upset, nausea, vomiting and diarrhea
- Lightheadedness, headache and difficulty concentrating
- Skin irritation, redness or peeling skin
- Difficulty breathing, coughing and a pneumonia like syndrome
   Hawaii Poison Control Center
   1-800-222-1222





Navy Drinking Water System -Health **Advisory Status** (as of 2/14/2022)



#### https://health.hawaii.gov/about/files/2022/02/SR2022-021-PUBLIC-DOH-IDWST-Water-Flushing-Status-20220214-scaled.jpg

Navy Drinking Water System Flushing Status (as of 2/15/2022)

#### **No Shortcuts: The Path to Safe Tap Water** HEALTH ADVISORY AMENDMENT PROCESS

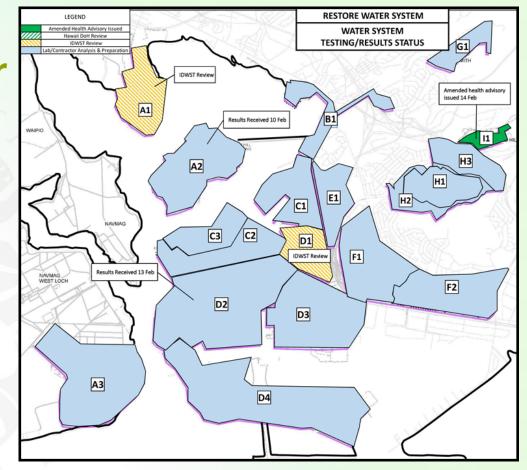


\*\*\*\*\*\*\*\*\* 0 93,000 9,000 19 Residents Families Zones SYSTEM FLUSHING FIRST REPORTS TO DOH DOH ADVISORY: & SAMPLING **OF DRINKING WATER** STOP DRINKING CONTAMINATION THE WATER COMMUNITY IMPACT NOV. 28, 2021 NOV. 29, 2021 19 **Zones completed** flushing UPDATE **RESIDENTIAL &** FINAL **HEALTH ADVISORY CERTIFIED LAB** NON-RESIDENTIAL SAFE TO DRINK WATER **SAMPLING &** FLUSHING & RETURN TO HOMES **FINAL REVIEW** TESTING 19 16 2 0 Zones completed Zones in Zones ready for Zone with flushing testing stage safe tap water

Zone status as of February 15, 2022



**IDWST Water** System **Flushing** Zone Water System Testing/ Results Status (as of 2/14/2022)



#### https://jbphh-

safewaters.org/public/framework/appcontainer.aspx?url=../homepage/html\_title.aspx&idhtml=10738&title=Water% 20System%20Flushing%20Zone%20Map&idMenu=88798&ddIDSN=SYSTM&DSN=SYSTM

Stage 4 Sampling **Results Report Red** Hill Housing (Flushing Zone I1) (as of 2/9/2022)



Interagency Drinking Water System Team

Drinking Water Distribution System Recovery Plan: Stage 4 Sampling Results Report for Red Hill Housing (Zone I1) Joint Base Pearl-Hickam (JBPHH) 09 February 2022



Neighborhoods included in Zone I1: Red Hill Housing



#### Drinking Water Sampling Plan: Initial Sampling Effort

Initial Sampling Effort of 10% of homes and non-residential buildings with a minimum of 3 non-residential buildings per zone. All Schools and Child Development Centers were sampled.

Zone I1 135 houses + 6 non-residences + 1 School = 142 total

Initial samples collected by Navy and DOH during Public Health Advisory = 30 house/buildings (25 @ 25 houses; 20 @ 1 school; 4 @ 4 buildings)



## Drinking Water Sampling Plan: Long Term Monitoring

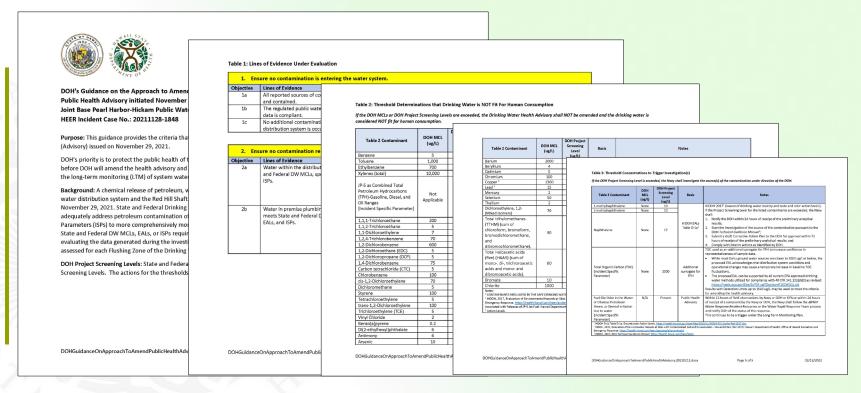
Months 1-3 after initial sampling: Sample an additional 5% of homes per month, per Zone; minimum of 5 houses/buildings.
Months 4-24 after initial sampling: Sample an additional 10% of the homes per zone over each 6-month and remaining 3-month period (i.e., not per month); minimum of 15 houses/buildings per period.

#### Zone I1 total samples collected under Long Term Monitoring Plan:

- 3 months of 8 houses/buildings = 24 houses/buildings
- 4 periods of 15 houses/buildings = 60 houses/buildings
   Total # houses/buildings sampled in Zone I1 (initial & LTM sampling) = 133



## **DOH Guidance to Amend the Public Health Advisory**





#### **Contact the following with concerns**

Department of Health Safe Drinking Water Branch 808-586-4258 / <u>sdwb@doh.hawaii.gov</u>

US Navy: 808-449-1979 808-448-3262 808-448-2557 808-448-2570 808-448-2583 US Army: 808-620-7938 808-620-7951





# DOH's mission is to protect public health and the environment.

