E komo mai

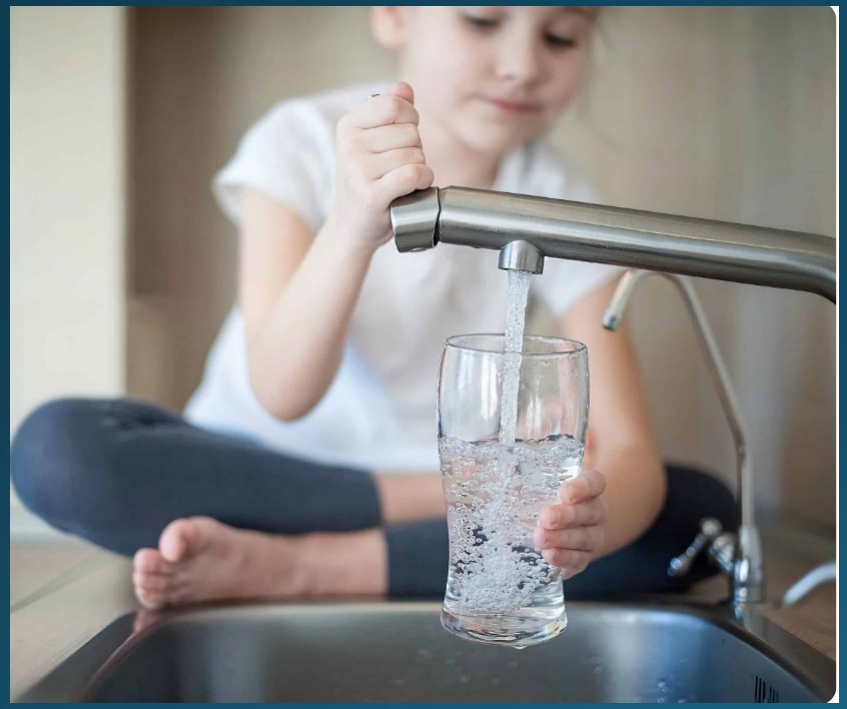
2025

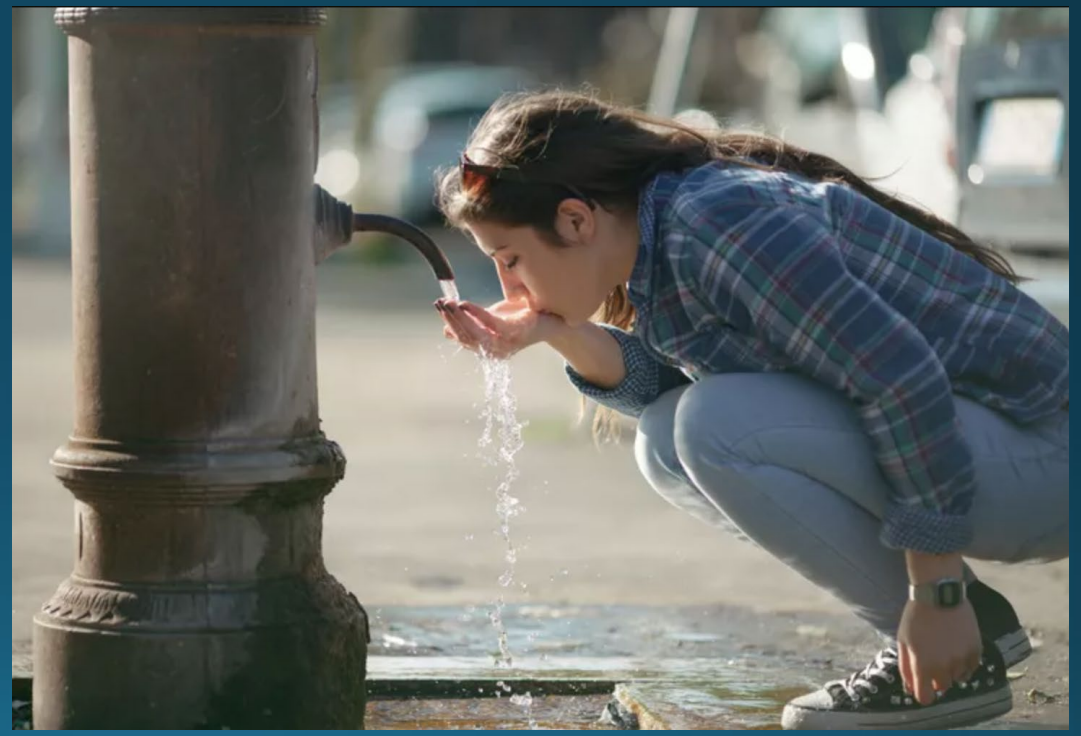
Water Sampler Training

Our Mission

- The mission of the Safe Drinking Water Branch of the Department of Health is to safeguard public health by protecting Hawaii's drinking water sources (surface water and ground water) from contamination and assure that owners and operators of public water systems provide safe drinking water to the community.

Mahalo for providing Safe Drinking Water to the people in your PWS.





Remember back when our parents used to send us to school with no water bottle, no phone, no snacks but somehow we would survive till the end of day.

BACK IN 1974

on the big screen

Blazing Saddles
Towering Inferno
The Trial of Billy Jack
Young Frankenstein
Earthquake
The Godfather: Part II
Airport 1975
The Longest Yard

on television

All in the Family
Chico and the Man
Sanford and Son
M*A*S*H
The Jeffersons

hit songs

"The Way We Were"
- Barbra Streisand
"Seasons in the Sun"
- Terry Jacks
"Love's Theme"
- Love Unlimited Orchestra
"Come and Get Your Love"
- Redbone
"Dancing Machine"
- The Jackson 5

38th U.S. President
GERALD FORD

U.S. Population
214 MILLION

World Population Hit
3.99 BILLION

WHAT HAPPENED

* Richard Nixon becomes the first US president forced to resign after the Watergate Scandal.
* The Kootenai Native American Tribe in Idaho declares war on the United States.
* Stephen King, a 26-year-old author, published his debut novel "Carrie".
* 55 MPH Speed Limit imposed to preserve gas usage US wide.
* President Gerald Ford gives unconditional pardon to Richard Nixon.

BORN IN 1974

Leonardo DiCaprio
Victoria Beckham
Eva Mendes
Robbie Williams
Jimmy Fallon
Kate Moss
Sarah Paulson
Christian Bale
Penélope Cruz
Alanis Morissette

what things cost

New House	$34,900.00
New Car	$3,500.00
Gallon of Gas	$0.53
Movie Ticket	$1.89
Loaf of Bread	$0.28
Dozen Eggs	$0.78
Gallon of Milk	$1.57
First-class Stamp	$0.10

Average Income Per Year
$13,900.00

sports champions

NBA:
BOSTON CELTICS
NHL Stanley Cup:
PHILADELPHIA FLYERS
World Series:
OAKLAND ATHLETICS
NFL SuperBowl:
MIAMI DOLPHINS

oscar winners

Best Actor:
JACK LEMMON
Best Actress:
GLENDA JACKSON
Best Director:
GEORGE ROY HILL
Best Picture:
THE STING

The Safe Drinking Water Act (1974)

SDWA was originally passed by Congress in 1974. It aims to protect public health by regulating the nation's public drinking water supply. It requires actions to protect drinking water and its sources, including rivers, lakes, reservoirs, springs, and groundwater wells.

State Rules & Regulations

Statutory Requirements

Federal Requirements
Safe Drinking Water Act of 1974, P.L. 92-523
Safe Drinking Water Act Amendments of 1986, P.L. 99-339
Lead Contamination Control Act of 1988
Safe Drinking Water Act Amendments of 1996, P.L. 104-182
40 Code of Federal Regulations (CFR) Parts 35, 124, 141, 142, 144, 145, 146 and 148

State Law
Chapter 340E, Hawaii Revised Statutes
Chapter 340F, Hawaii Revised Statutes

Hawaii Administrative Rules
HAR Title 11, Chapter 19, Emergency Plan for Safe Drinking Water
HAR Title 11, Chapter 20, Public Water Systems
HAR Title 11, Chapter 21, Backflow and Cross-Connection Control
HAR Title 11, Chapter 23, Underground Injection Control
HAR Title 11, Chapter 23a, 12/21/2000 Amendment, Underground Injection Control
HAR Title 11, Chapter 25, Certification of Public Water System Operators
HAR Title 11, Chapter 65, Environmental State Revolving Funds

Phase I Rule

- Effective on Jan 09, 1989
- This rule, also called the Volatile Organic Chemicals Rule or the VOC Rule
- **Set water quality standards for 8 VOCs**
- Required all Community & Non-Transient, Non-Community water systems to monitor for and, if necessary , treat their supplies for these chemicals.
- VOC monitoring requirements were revised on Jan30, 1991.
- VOCs are among the most widely used chemicals. They are usually found in GW, where they may remain for long periods of time.

Phase II Rule

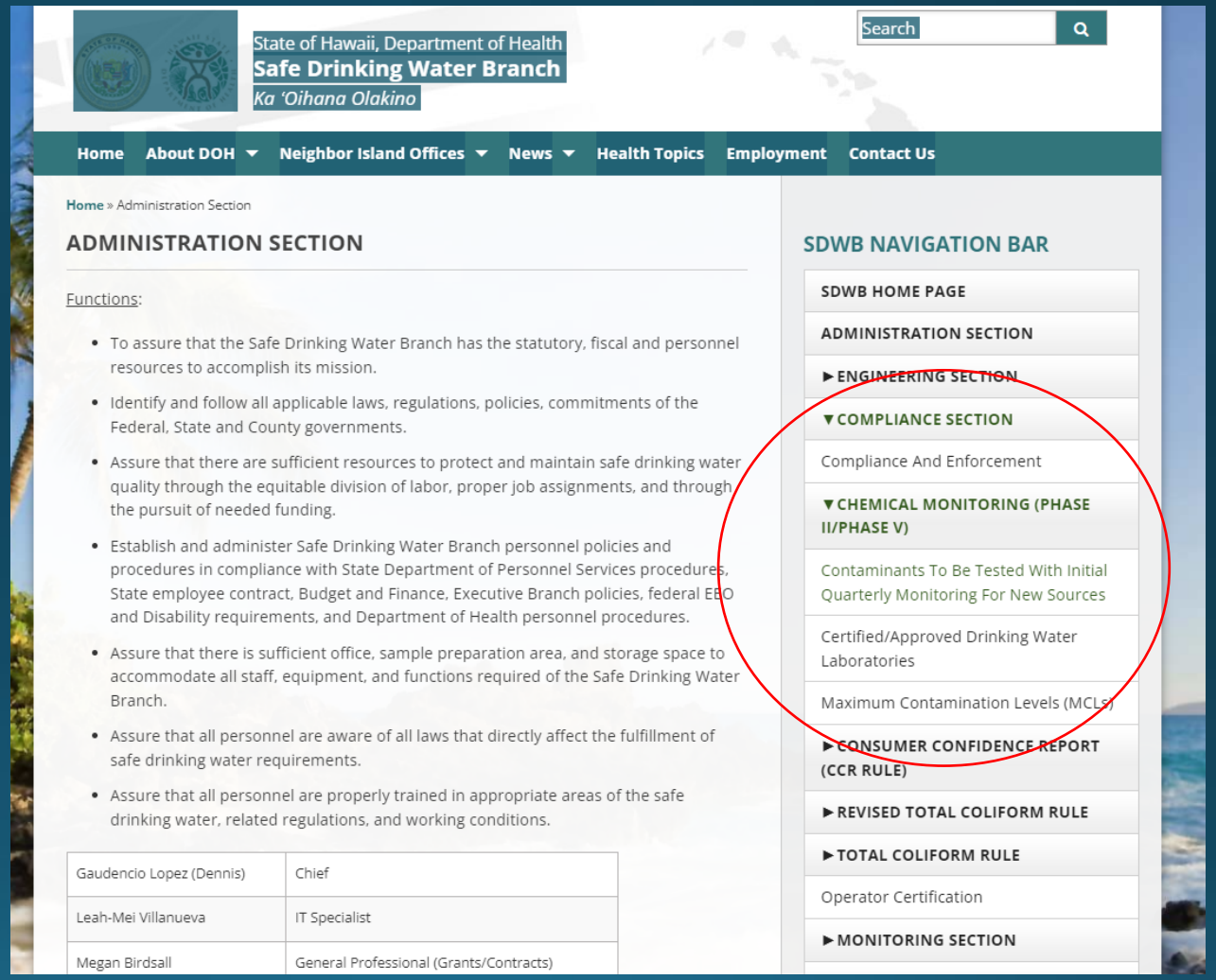
- Effective in 1992 with monitoring requirements beginning on Jan 01, 1993.
- **Rule sets DW standards for 38 inorganic and organic chemicals.**
- All community and Non-Transient, Non-Community water systems are required to monitor for an, if necessary, treat their supply for the regulated chemicals.
- Phase II roughly doubled the number of drinking water standards. While many of the Phase II chemicals occur in DW due to human activity, others are naturally occurring. Some chemicals are rarely found but are regulated because of the likelihood that it may contaminate DW supplies in the future.
- MCLs set for each Phase II chemical.

Phase V Rule

- Effective Jan 17, 1994.
- **Phase V rule added 23 contaminants to the total number of drinking water standards.**

Chemical Monitoring Phase II Phase V

- list found under Maximum Contaminant Levels (MCLs)



Phase II / Phase V Maximum Contaminant Levels

CONTAMINANTS REGULATED BY THE SAFE DRINKING WATER BRANCH (updated 4/24/24)

MICROBIOLOGICAL

Total Coliform Bacteria:

- 40 or more samples per month:
  No more than 5.0% of the samples may be total coliform positive
- Less than 40 samples/month:
  No more than 1 sample/month may be total coliform positive.

E. coli or Fecal Coliform Bacteria:

An acute violation occurs when:

- A total coliform positive routine is followed by an E. coli or fecal coliform positive repeat, OR
- An E. coli or fecal coliform positive routine is followed by a total coliform positive repeat.

INORGANIC CHEMICALS	MCL (mg/l)
Arsenic	0.01
Asbestos (longer than 10 µm)	7 million fibers per liter
Barium	2
Cadmium	0.005
Chromium	0.1
Copper (Action Level)	1.3
Lead (Action Level)	0.015
Mercury	0.002
Nitrate (as Nitrogen)	10
Nitrite (as Nitrogen)	1
Total Nitrate & Nitrite (as Nitrogen)	10
Selenium	0.05
Antimony	0.006
Beryllium	0.004
Cyanide (as free Cyanide)	0.2
Thallium	0.002
Fluoride	4.0

DISINFECTION BYPRODUCTS	MCL (mg/l)
Total trihalomethanes (TTHM) (sum of chloroform, bromoform, bromodichloromethane, dibromochloromethane)	0.080
Total Haloacetic acids (five) (HAA5) (sum of mono-, di-, trichloroacetic acids and mono- and dibromoacetic acids)	0.060
Bromate	0.010
Chlorite	1.0

RADIONUCLIDES (applies to all community water systems)	MCL
Gross alpha particle	15 pCi/l
Combined radium 226/228	5 pCi/l
Uranium	30 µg/L
Beta particle and photon radioactivity	4 mrem/yr

(applies only to water systems designated as vulnerable by the state)

ORGANIC CHEMICALS-*PFAS*	MCL (ng/L)
PFOA	4.0
PFOS	4.0
PFHxS	10
PFNA	10
HFPO-DA	10
PFBS (Mixutre of 2 or more PFHxS, PFNA, HFPO-DA and PFBS)	Hazard Index of 1

MCL fact 20240424 icluding PFAS

ORGANIC CHEMICALS	MCL (mg/l)
Volatile Organic Chemicals	
1,1,1-Trichloroethane	0.2
1,1,2-Trichloroethane	0.005
1,1-Dichloroethylene	0.007
1,2,4-Trichlorobenzene	0.07
1,2-Dichloroethane	0.005
Benzene	0.005
Carbon Tetrachloride	0.005
Chlorobenzene	0.1
cis-1,2-Dichloroethylene	0.07
DCP (1,2-Dichloropropane)	0.005
Dichloromethane	0.005
Ethylbenzene	0.7
o-Dichlorobenzene	0.6
p-Dichlorobenzene	0.075
Styrene	0.1
TCP (1,2,3-Trichloropropane)	0.0006
Tetrachloroethylene	0.005
Toluene	1
trans-1,2-Dichloroethylene	0.1
Trichloroethylene	0.005
Vinyl Chloride	0.002
Xylenes (total)	10
Synthetic Organic Chemicals	
2,3,7,8-TCDD (Dioxin)	3×10^{-8}
2,4,5-TP (Silvex)	0.05
2,4-D	0.07
Alachlor	0.002
Atrazine	0.003
Benzo(a)pyrene	0.0002
Carbofuran	0.04
Chlordane	0.002
Dalapon	0.2
DBCP (Dibromochloropropane)	0.00004
Di(2-ethylhexyl) adipate	0.4
Di(2-ethylhexyl) phthalate	0.006
Dinoseb	0.007
Diquat	0.02
EDB (Ethylene Dibromide)	0.00004
Endothall	0.1
Endrin	0.002
Glyphosate	0.7
Heptachlor	0.0004
Heptachlor Epoxide	0.0002
Hexachlorobenzene	0.001
Hexachlorocyclopentadiene	0.05
Lindane	0.0002
Methoxychlor	0.04
Oxamyl (Vydate)	0.2
Pentachlorophenol	0.001
Picloram	0.5
Polychlorinated biphenyls (PCB)	0.0005
Simazine	0.004
Toxaphene	0.003

Unregulated Contaminant	MRL (mg/l)
Dieldrin	0.00001

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Mercury	0.002
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Total Nitrate & Nitrite (as Nitrogen)	10
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Antimony	0.006
Beryllium	0.004
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Thallium	0.002
Fluoride	4.0

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Bromate	0.010
Chlorite	1.0

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(applies to all community water systems)	
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Combined radium 226/228	5 pCi/l
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PFOS	4.0
PFHxS	10
PFNA	10
HFPO-DA	10
PFBS (Mixutre of 2 or more PFHxS, PFNA, HFPO-DA and PFBS)	Hazard Index of 1

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1,1,2-Trichloroethane	0.005
1,1-Dichloroethylene	0.007
1,2,4-Trichlorobenzene	0.07
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Benzene	0.005
Carbon Tetrachloride	0.005
Chlorobenzene	0.1
cis-1,2-Dichloroethylene	0.07
DCP (1,2-Dichloropropane)	0.005
Dichloromethane	0.005
Ethylbenzene	0.7
o-Dichlorobenzene	0.6
p-Dichlorobenzene	0.075
Styrene	0.1
TCP (1,2,3-Trichloropropane)	0.0006
Tetrachloroethylene	0.005
Toluene	1
trans-1,2-Dichloroethylene	0.1
Trichloroethylene	0.005
Vinyl Chloride	0.002
Xylenes (total)	10
Synthetic Organic Chemicals	
2,3,7,8-TCDD (Dioxin)	3×10^{-8}
2,4,5-TP (Silvex)	0.05
2,4-D	0.07
Alachlor	0.002
Atrazine	0.003
Benzo(a)pyrene	0.0002
Carbofuran	0.04
Chlordane	0.002
Dalapon	0.2
DBCP (Dibromochloropropane)	0.00004
Di(2-ethylhexyl) adipate	0.4
Di(2-ethylhexyl) phthalate	0.006
Dinoseb	0.007
Diquat	0.02
EDB (Ethylene Dibromide)	0.00004
Endothall	0.1
Endrin	0.002
Glyphosate	0.7
Heptachlor	0.0004
Heptachlor Epoxide	0.0002
Hexachlorobenzene	0.001
Hexachlorocyclopentadiene	0.05
Lindane	0.0002
Methoxychlor	0.04
Oxamyl (Vydate)	0.2
Pentachlorophenol	0.001
Picloram	0.5
Polychlorinated biphenyls (PCB)	0.0005
Simazine	0.004
Toxaphene	0.003

Unregulated Contaminant	MRL (mg/l)
Dieldrin	0.00001

Certified Approved Drinking Water Laboratories

- Always ensure that the Private Laboratory being used is Certified or approved by the HDOH State Laboratories Division before scheduling with them.
- Wang recommends "When using an external lab, SAMPLE BEFORE SUMMER."

rev. May 31, 2024

DIRECTORY OF DRINKING WATER LABORATORIES
CERTIFIED OR APPROVED BY THE HAWAII DEPARTMENT OF HEALTH,
STATE LABORATORIES DIVISION

Note for those who want to test their own drinking water

1. Please consult with the lab regarding its certification status before sending any sample.
2. Since only a few labs are able to do all the tests, please make sure that the lab sub-contracts the samples only with the other certified lab(s).
3. Always call the Safe Drinking Water Branch (808-586-4258) if you have any question regarding lab status and drinking water tests.

Local Private Labs (accept private samples)

AECOS Laboratory, Inc.
45-939 Kamehameha Highway, Suite 104
Kaneohe, Hawaii 96744
(808) 234-7770

FQ Labs
3170-A Ualena Street
Honolulu, Hawaii 96819
(808) 839-9444

County/Military Labs (do not accept any private samples)

Honolulu Board of Water Supply
630 Beretania Street
Honolulu, Hawaii 96813
Chemistry Laboratory (808) 748-5840
Micro Laboratory (808) 748-5841

HECO Chemistry Laboratory
Environmental Department
P.O. Box 2750
Honolulu, Hawaii 96840
(808) 543-4297

Kauai Department of Water
4398 Pua Loke Street
Lihue, Hawaii 96766

County of Hawaii Department of Water Supply Microbiology Laboratory
25 Aupuni Street
Hilo, Hawaii 96720

Maui Department of Water Supply
614 Palapala Drive
Kahului, Hawaii 96732
(808) 270-7816

Tripler Army Medical Center
Preventive Medicine Services Env. Laboratory
Attn: MCHK-PV (Maj. Stacy Mosko)
CDR TAMC
1 Jarrett White Road
Tripler Army Medical Center, Hawaii 96859-5000

Other Labs

ACZ Laboratories, Inc.
2773 Downhill Drive
Steamboat Springs, Colorado 80487
(970) 879-6590 x531
(800) 334-5493

Agriculture & Priority Pollutants Laboratories, Inc.
908 N. Temperance Avenue
Clovis, California 93611
(559) 275-2175

Alloway Marion Laboratory
1776 Marion-Waldo Road
Marion, Ohio 43302
(419) 223-1362

ALS Environmental, Houston
19408 Park Row, Suite 320
Houston, Texas 77084-4949
(800) 695-7222

ALS Environmental, Kelso
1317 South 13th Avenue
Kelso, Washington 98626
(360) 577-7222

Antek Labs, Inc.
1282 Alturas Drive
Moscow, ID 83843
9208) 883-2839

Associated Laboratories
806 North Batavia
Orange, California 92868-1225
(714) 771-6900

Updates

- 2025 is the END of the current 3-year compliance period
- Lab-On-Line does not track the compliance report. Systems need to manually keep track of sampling requirements.
- Review the last Sample Schedule Report from June 17, 2024.

Sample Schedule Report

Disclaimer: Recently collected samples may not be immediately reflected in the "Last Collection On" and "Previous Collection On" fields.

MAUI NON-DWS

Water System: HI0000230 - HOOLEHUA (2,400)
Facility: TP002 - BLEND OF 2 KAULUWAI WELLS CHLORINATOR
Sampling Point: 004 - HOOLEHUA 1 MG HH TANK

Monitoring Schedules (2023 - 2025)	Last Collected On	Previous Collection On	Next Collect By	Analyzed By
Carbamate Pesticide: 1 Routine every 3 Years	2022-03-09	2019-07-16	2025-12-31	SLD
EDB/DBCP/TCP: 1 Routine every 3 Years	2022-03-09	2019-07-16	2025-12-31	SLD
Glyphosate: 1 Routine every 3 Years	2022-03-09	2019-07-16	2025-12-31	SLD
Herbicides-Chlorinated Acids: 1 Routine every 3 Years	2022-03-09	2019-07-16	2025-12-31	SLD
Metals: 1 Routine every 3 Years	2022-03-09	2017-11-07	2025-12-31	SLD
Nitrate and Anions: 1 Routine every 1 Year	2024-04-16	2023-06-13	2025-12-31	SLD
Synthetic Organic Chemicals: 1 Routine every 3 Years	2022-05-17	2019-07-16	2025-12-31	SLD
Volatile Organic Compounds: 1 Routine every 3 Years	2022-03-09	2019-07-16	2025-12-31	SLD
Cyanide: 1 Routine every 3 Years	2022-06-01	2019-10-14	2025-12-31	External
Dioxin: 1 Routine every 3 Years	2022-06-01	2019-10-14	2025-12-31	External
Diquat: 1 Routine every 3 Years	2022-06-01	2019-10-14	2025-12-31	External
Endothall: 1 Routine every 3 Years	2022-06-01	2019-10-14	2025-12-31	External
Radiological (including alpha/beta, Radium 226/228 and Uranium): 1 Routine every 9 Years	2016-05-03		2025-12-31	External
Semivolatiles (Method 525.2): 1 Routine every 3 Years	2022-07-11	2019-10-14	2025-12-31	External

(*) For "2 routines in 3 years" schedules, the 2 samples must be collected in 2 quarters of the same calendar year.
Samples labeled "SLD" are typically analyzed at the State Laboratories Division.

Water System: HI0000230 - HOOLEHUA (2,400)
Facility: DS230 - HOOLEHUA DISTRIBUTION SYSTEM
Monitoring Schedule: Asbestos: 1 Routine every 9 Years

Sampling Points	Last Collected On	Previous Collection On	Next Collect By	Last Waiver
Asbestos: 1 Routine every 9 Years	2022-10-18		2031-12-31	

Water System: HI0000230 - HOOLEHUA (2,400)
Facility: DS230 - HOOLEHUA DISTRIBUTION SYSTEM
Monitoring Schedule: Disinfection Byproducts Stage 2: 2 Routine every 1 Year (***)

Sampling Points	Last Collected On	Previous Collection On	Next Collect By

Water System: HI0000230 - HOOLEHUA (2,400)

Facility: DS230 - HOOLEHUA DISTRIBUTION SYSTEM

Monitoring Schedule: Lead and Copper: 10 Routine every 3 Years (**)

	Last Collected On	Previous Collection On	Next Collect By
Lead and Copper: 10 Routine every 3 Years (**)	2021-06-09	2020-08-11	2024-09-30

(**) For lead and copper samples taken every 1 or 3 years, the samples must be collected between June 1 and September 30.

Water System: HI0000230 - HOOLEHUA (2,400)

Facility: DS230 - HOOLEHUA DISTRIBUTION SYSTEM

Monitoring Schedule: Total Coliform Bacteria: 2 Routine every 1 Month

	Last Collected On	Previous Collection On	Next Collect By
Total Coliform Bacteria: 2 Routine every 1 Month			

PFAS

Per- and polyfluoroalky substance

Updates

PFAS Rule

- On April 10, 2024, EPA announced the final National Primary Drinking Water Regulation (NPDWR) for six PFAS.

PFAS	*MCLG (ppt)*	*MCL(ppt)*
PFOA	0	4.0
PFOS	0	4.0
PFHxS	10	10
PFNA	10	10
HFPO-DA (GenX)	10	10
Mixture of **2 or more** PFHxS, PFNA, HFPO-DA and PFBS	Hazard Index of 1	Hazard Index of 1

PFAS MCL Promulgation Timeline

Effective Date 6/25/2024

Initial Monitoring 6/25/24-4/26/27

Ongoing Compliance Monitoring by 4/26/29

Compliance – Starting 2029

Initial Monitoring Requirements

PWS Size (population)	Water source	
	SW/GWUDI System	GW System
>10,000	Quarterly at each EPD with 12-month period, collected 2 to 4 months apart.	Quarterly at each EPD with 12-month period, collected 2 to 4 months apart.
≤10,000		Twice at each EPD with 12-month period, collected 5 to 7 months apart.

Rain catchment systems are treated as the surface water systems.

Methods, Laboratories and Sampling

- Samples are collected from EPDs
- EPA is not allowing composite samples.
- EPA 533 and EPA 537.1 are approved methods.

PFAS sampling sets

Methods, Laboratories and Sampling (cont'd)

- 13 Mainland laboratories are certified by State Laboratory Division (SLD) currently for 6 regulated PFAS. https://health.hawaii.gov/sdwb/files/2024/07/Certified-Labs-2024-June.pdf
- Follow the lab's sample collection SOP.
- State Lab Division is developing the PFAS test currently.

Grandfathering of Existing Data

- Previously monitoring data (UCMR5 and SDWB-study) may be used as the Initial Monitoring data.
- If multiple years of data, the most recent data must be used.
- Several criteria:

  - collection date (on or after 1/1/2019)
  - sampling site (must be collected from the EPD.)
  - method (either EPA 533 or 537.1 version 2.0)
  - no MCL exceedance
  - MRL (≤2 ppt for PFOA and PFOS)

Time Requirements
PWS with Quarterly Initial Monitoring

- Must collect samples in the quarters not represented from the EPD with 2 to 4 months apart.

- New samples must be collected in the same calendar year.

PFAS Treatment

- Treatment
  - *Granular Activated Carbon (GAC)*
  - *Ion Exchange (IX)*
  - *Nanofiltration (NF) and Reverse Osmosis (RO)*

- Requirement from SDWB
  - *no pilot testing is needed.*
  - *increasing monitoring is required in the initial phrase of the treatment plant to figure out the break-through.*

GAC - Granular Activated Carbon

IX - Ion Exchange

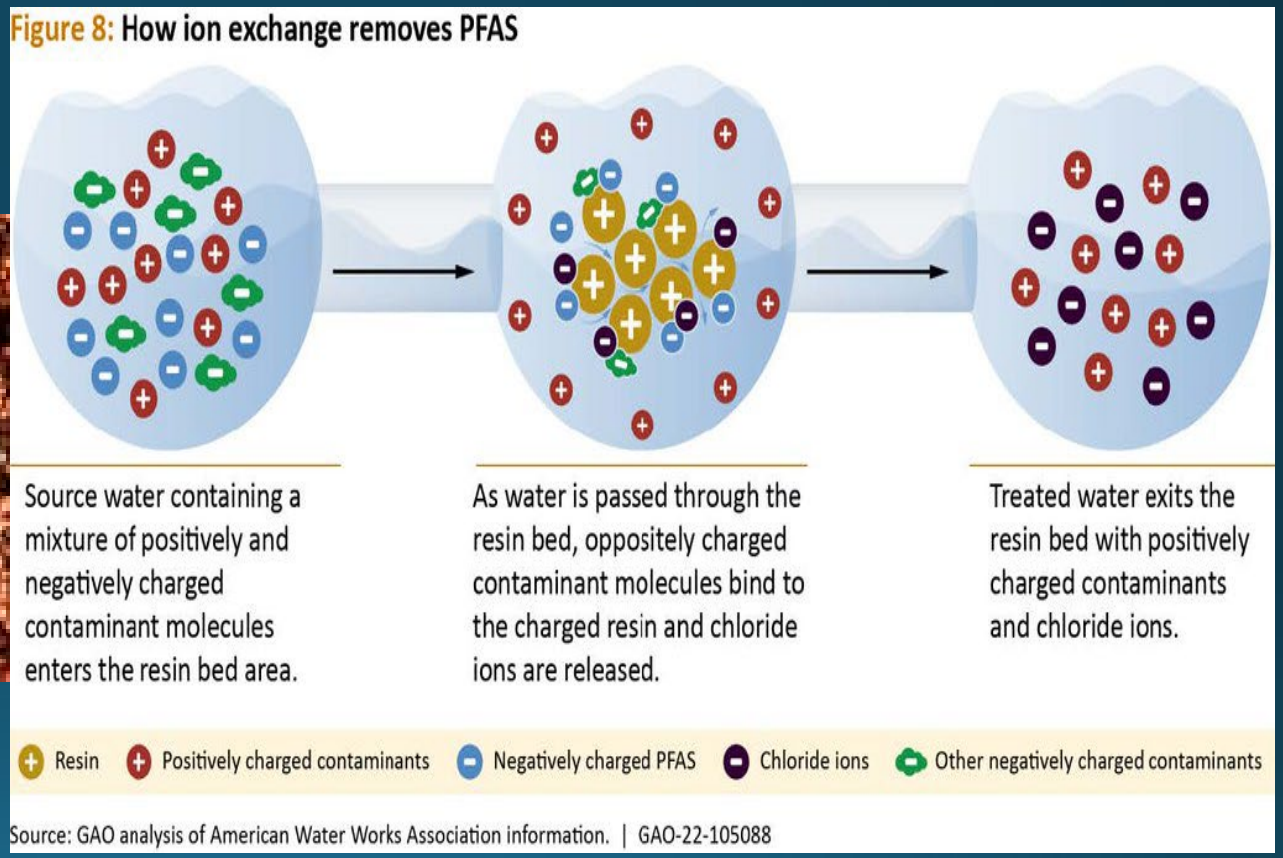
RO - Reverse Osmosis

GAC - Granular Activated Carbon

IX - Ion Exchange

Orange County Water District & Yorba Linda Water District – U.S. largest IX treatment plant.

IX Resin & How it Works:



Nanofiltration (NF) Membrane System

RO – Reverse Osmosis


PFAS
FREE

MCL Violation

- No MCL violation during the Initial Monitoring (6/25/2024-4/26/27).
- Ongoing Compliance Monitoring (4/27/27- 4/26/29)

- Results of initial monitoring must be included in Consumer Confidence Reports.

- Regular monitoring for compliance must begin, and results of compliance monitoring must be included in Consumer Confidence Reports.

- Public notification for monitoring and testing violations.

Initial Detection and Press Release (cont'd)

- Due to the prevalence, the high sensitivity of the methods and the low MCL, PFAS will be initially detected in certain water systems.

- According to Hawaii Revised Statutes (HRS) Section 340E-24, if initial detection of any PFAS occurs, the water system must report to SDWB promptly, DOH will do the press release.

CCR for 2024-26

- PFAS result is not required to report in CCR for 2024-26.
- No MCL violation during the Initial Monitoring (6/25/2024-4/26/27).
- SDWB encourages the water system to report the PFAS detection in CCR's water quality table.
- Source of PFAS and Potential Health Effects from Long-Term Exposure Above the MCL is available in EPA site:

https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations#seven

CCR for 2024-26 (cont'd)

For unregulated PFAS

- Source of PFAS: "*Synthetic chemical used in a wide range of consumer products and industrial applications.*"
- Potential health effects: "*PFAS exposure over a long period of time can cause cancer and other illnesses that decrease quality of life or result in death. PFAS exposure during critical life stages such as pregnancy or early childhood can also result in adverse health impacts.*"

Funding

- $9 billion from the Bipartisan Infrastructure Law
- SDWB has various fund sources to support the water system on evaluation, design/build the treatment plant.
- Contact Judy (judy.hayducsko@doh.hawaii.gov)

Resources

- 40 CFR 141.901 and 902
- EPA monitoring fact sheet https://www.epa.gov/system/files/documents/2024-04/pfas-npdwr_fact-sheet_monitoring_4.8.24_0.pdf
- EPA PFAS NPDWR website: https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas

Emergency Response

Discussion

Have an Emergency Response Plan

- Even if it's a simple written plan.
- Write out what needs to be done
- Write names & numbers of who will need to be contacted
- Every scenario will be different and may have different players

Practice Your Plan with Mock Drills

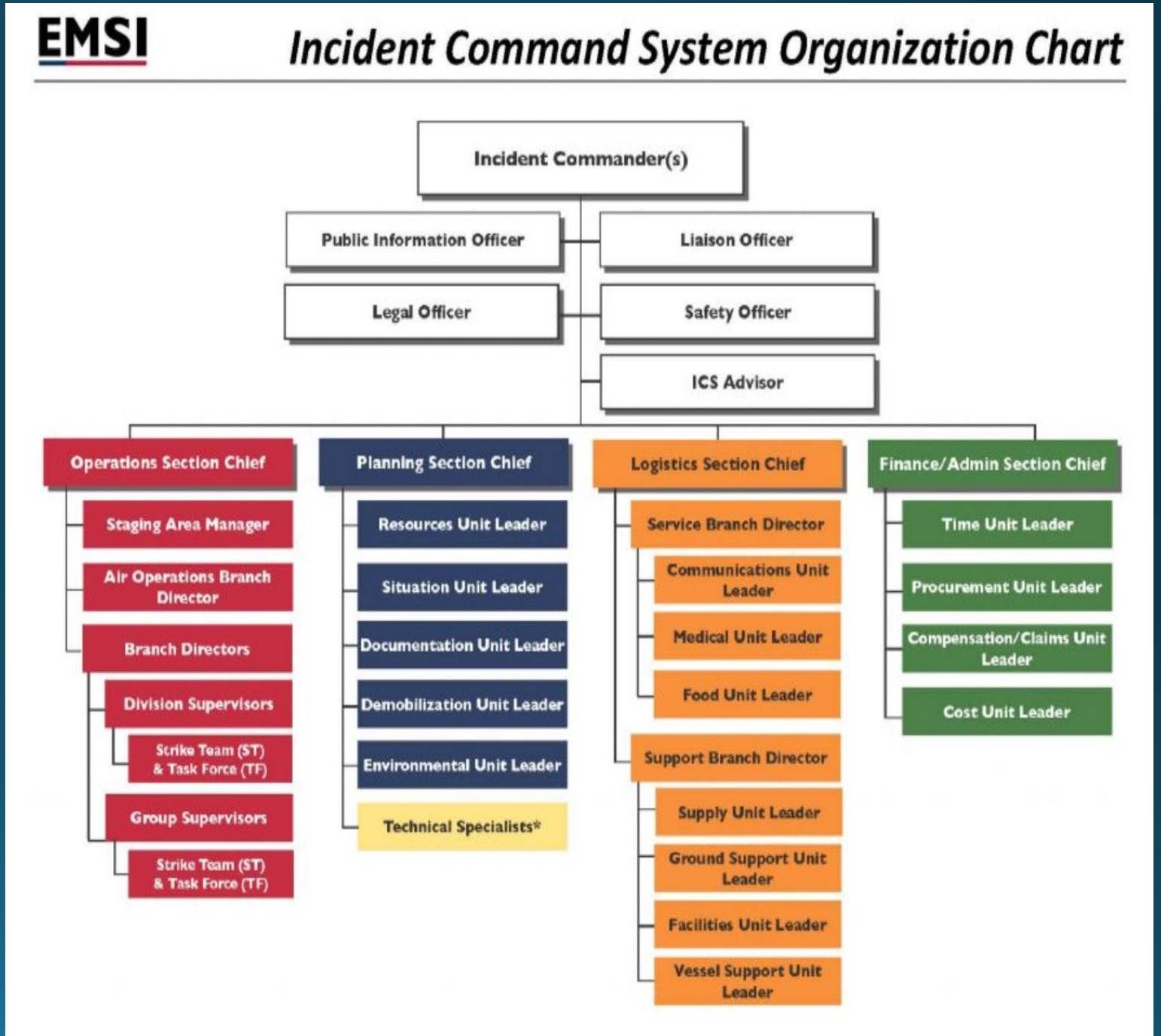
Mock drills are invaluable tools for enhancing emergency preparedness, developing essential skills, assessing procedures, and fostering effective teamwork.

By regularly conducting these drills, organizations and communities can significantly improve their ability to respond to emergencies and safeguard lives and property.

Investing time and resources in mock drills is a proactive approach that pays off in the readiness and resilience of individuals and organizations alike.

Get Familiar with I.C.S.

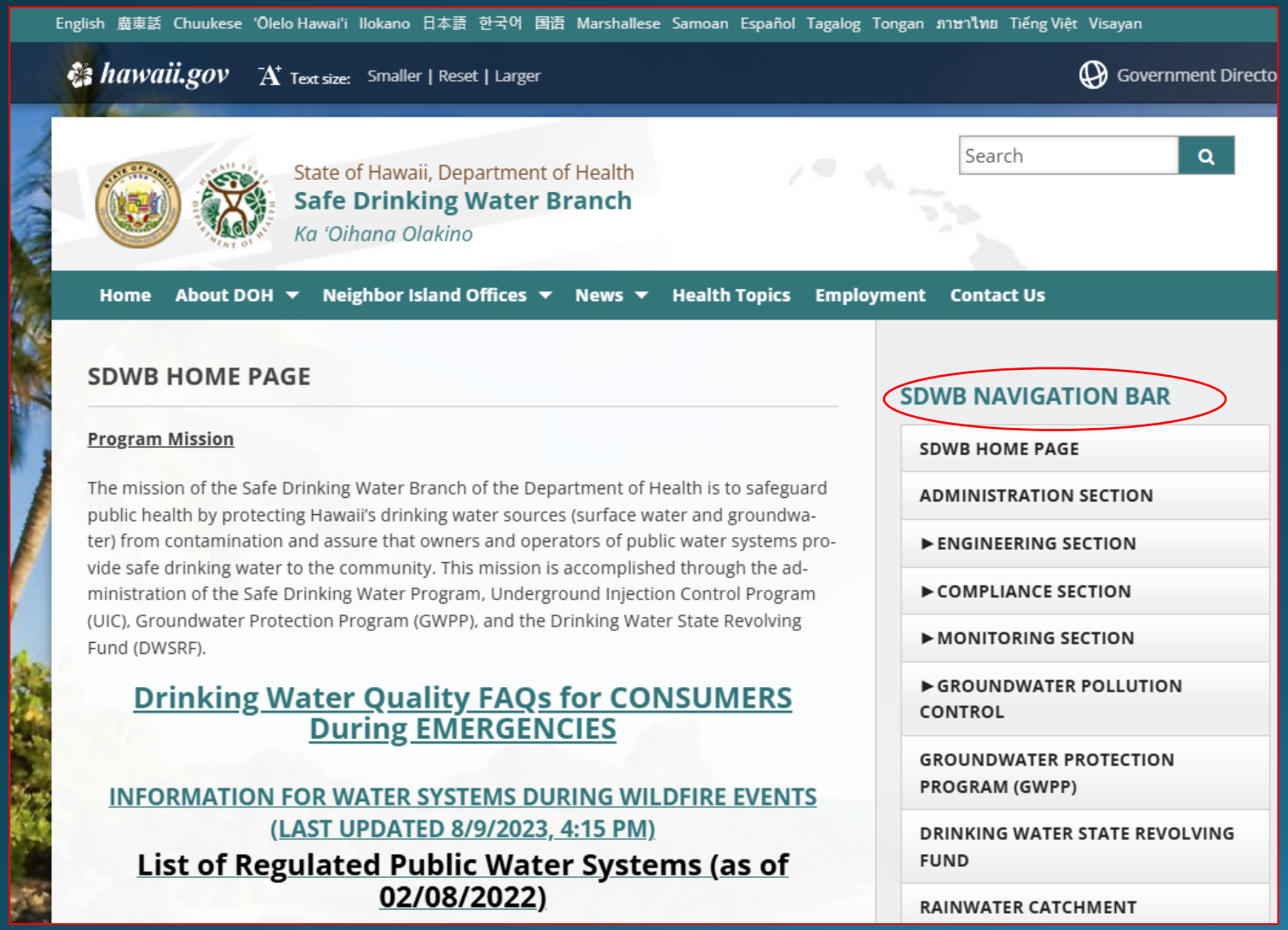
The intent of ICS is to be applicable across a full spectrum of potential incidents and hazard scenarios, regardless of size or complexity and to improve coordination and cooperation between public & private entities in a variety of domestic incident management activities.

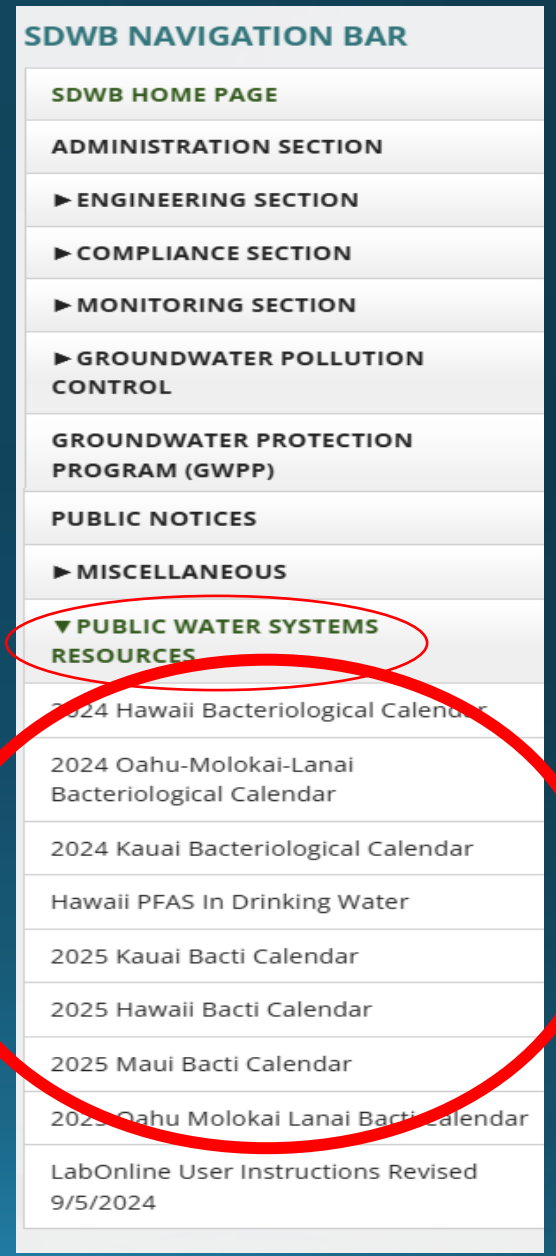


SDWB Website Overview
Information available

- Chlorine Proficiency Certification
- Bacti calendars
- LabOnLine Instructions
- Certified / Approved Drinking Water Laboratories

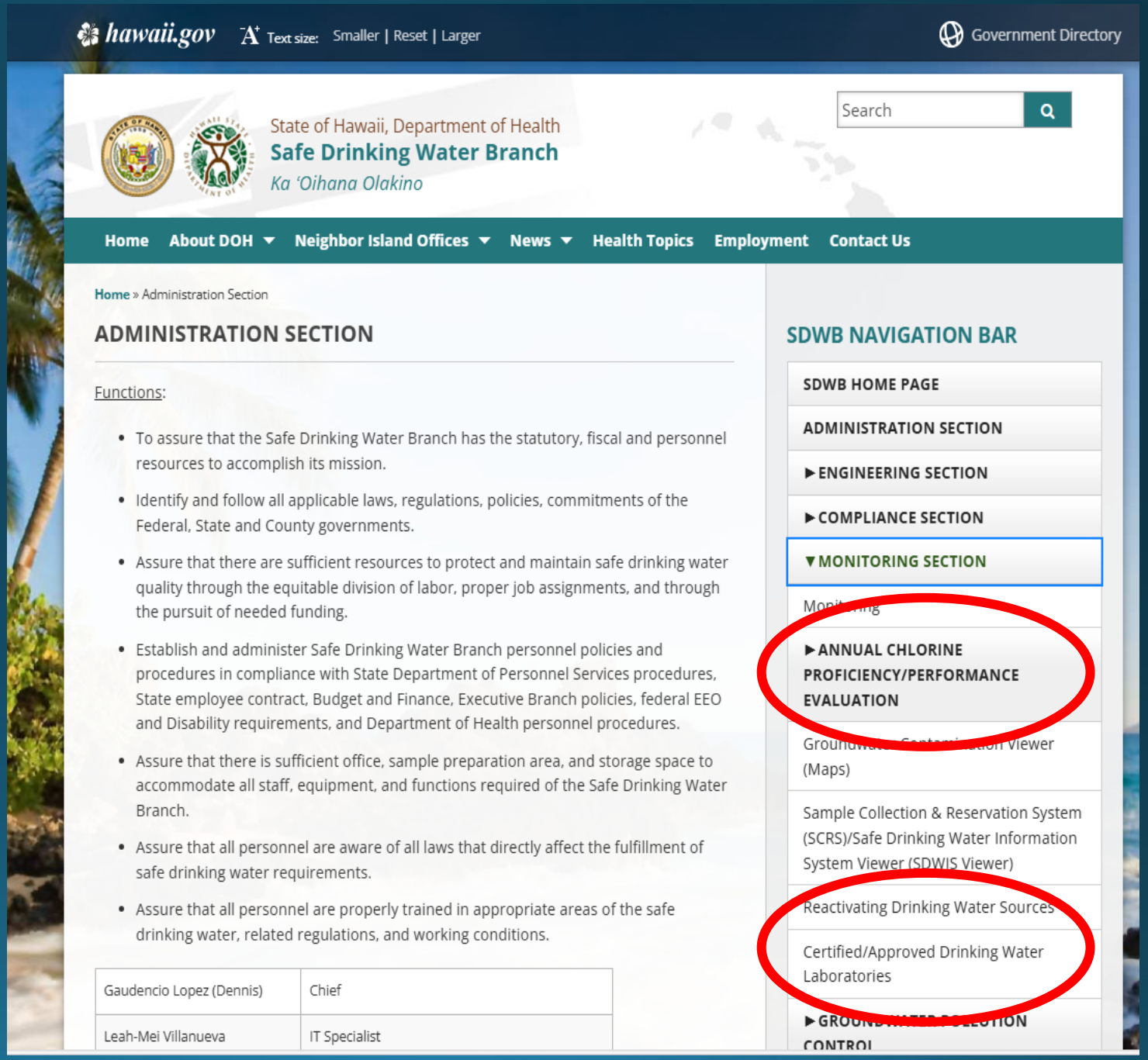
SDWB Website Overview

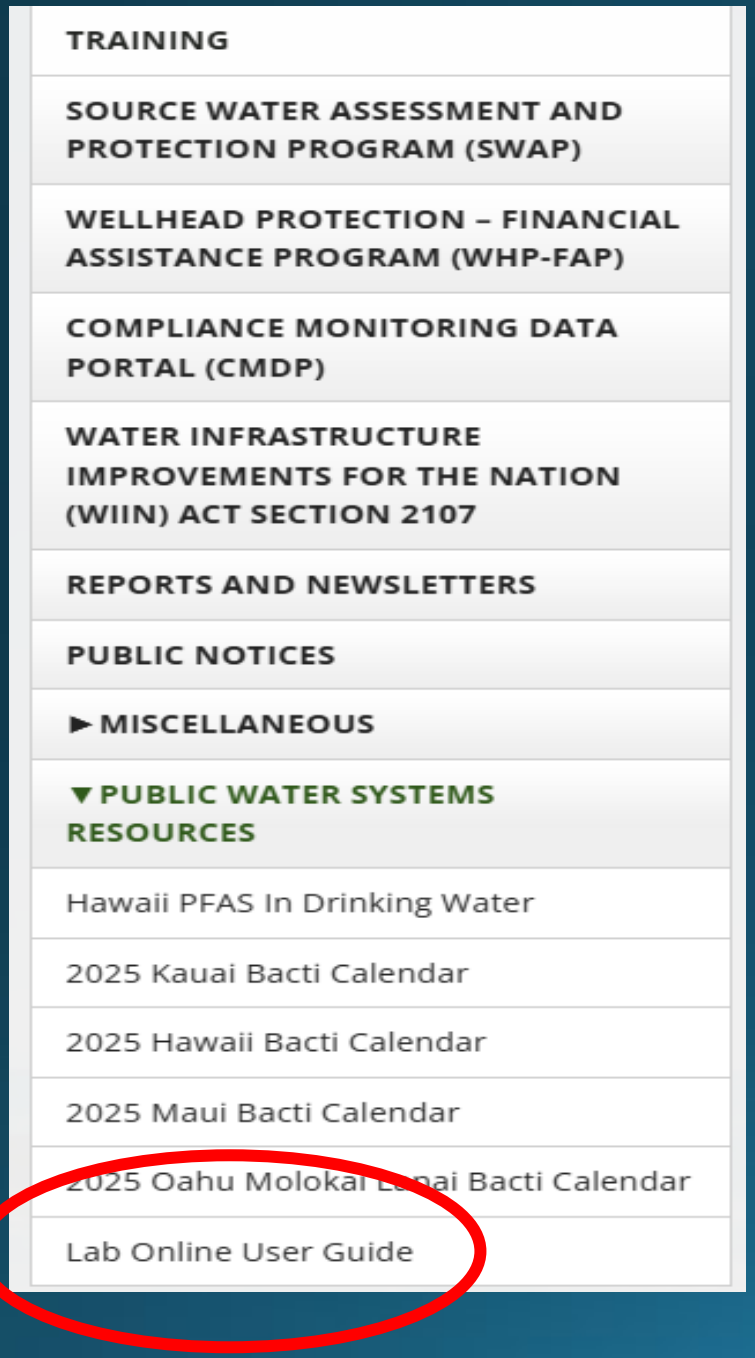




SDWB Website

- Annual Chlorine Proficiency Certification
- Certified / Approved Drinking Water Laboratories





SDWB Website

- Lab Online User Guide
  - Print out a copy and use it.

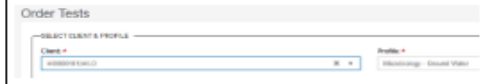
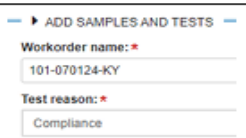
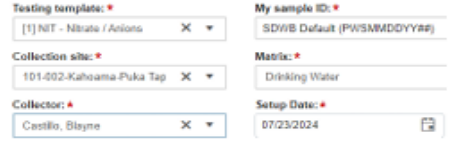
LabOnLine Instructions

LabOnline Instructions

Scheduling Sample Collection

Order Tests - Chemistry

- **Oahu only**: Schedule your sample collections for Monday – Thursday and be sure to deliver your samples the same day that you collect them
- **All other islands**: Schedule your sample collection for Monday – Wednesday and ship (Fedex/UPS) out your samples the same day for next day delivery to guarantee that the lab receives and accepts your samples

1. From the home page, navigate to Orders and Order Tests • Required fields are marked with a red asterisk (*)	
2. On the Order Test page, select a *Client* (PWS) and a *Profile* (type of test) - **Chemistry**	
3. Fill in the Workorder name using the following format • *PWS (3 digit)-SampleDate (MMDDYY)-Initials of COC creator* 4. Test Reason – select *Compliance*	
5. Fill out remaining information • Testing Template – Select the test for the analyte you are sampling for (ie. NIT – Nitrates/Anions) • *My sample ID* – select the SDWB Default (you do not need to type anything into this field) • Setup Date – Today's Date • Chemistry sample (excluding DBP) collection site: Select your Entry Point to Distribution (EPD) • DBP sample collection site: Only select "900" collection sites (ie: xxx-9xx)	

LabOnline Overview

- Test - https://env-lab-test-statelab.doh.hawaii.gov/Home
- Production - https://env-lab-prod-statelab.doh.hawaii.gov/Home

- **Always make sure that your COC is made on the PRODUCTION site (Not on the Test site).**

The Test site looks like this:

Powered by Clinisys, Inc.

the Hawaii State DOH Environmental LabOnline TEST

Sign In

User ID:

AKam

Password:

••••••••••••

Forgot user ID or password

Sign In

LabOnline

https://env-lab-test-statelab.doh.hawaii.gov/Home

DWI System | Sampling System -... | Fedex | LabOnline - PRODU... | DOH SDWB-Emerge... | SDWIS/STATE Login... | SDWB | Department of Wat... | Water and Wastewa... | Welcome | SCRS | SCRS-TEST | NWSI System | HIP Sign-in | PFAS Central | EOL

ENV TEST LABONLINE

Powered by Clinisys, Inc.

Skip to main content

Workorders | Samples | Orders | Reports | Test Catalog

ENV TEST LABONLINE

Welcome to Hawaii State DOH Environmental LabOnline

To begin an order, start here: Orders

Workorders

3 reports

This is the portal to Safe Drinking Water Branch.

Production site looks like this:

LOG ONTO THIS SITE TO MAKE YOUR CHAIN OF CUSTODY (COC) TO SEND WITH YOUR SAMPLES.

Powered by Clinisys, Inc.

Welcome to the Hawaii State DOH Environmental LabOnline system

Sign In

User ID:

AKam

Password:

••••••••••••

Forgot user ID or password

Sign In

Welcome to Hawaii State DOH Environmental LabOnline

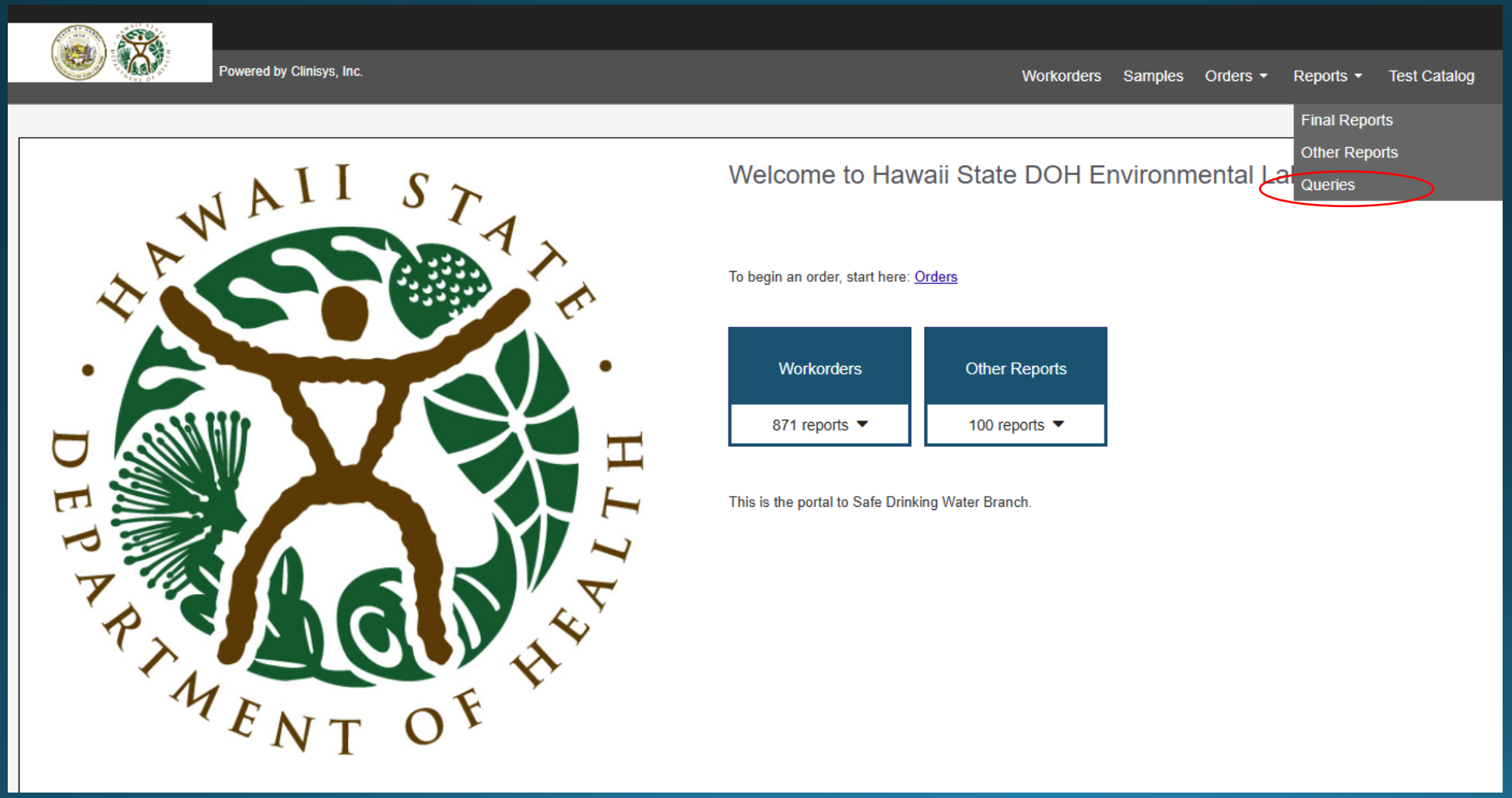
To begin an order, start here: Orders

Workorders	Other Reports
322 reports	6 reports

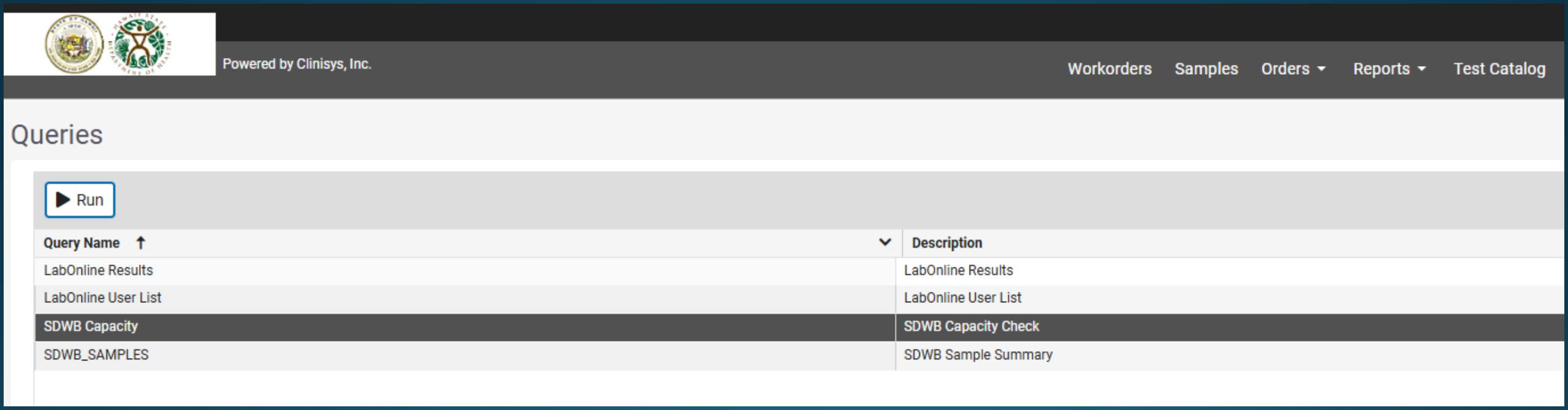
This is the portal to Safe Drinking Water Branch.

Checking the Lab Capacity Calendar

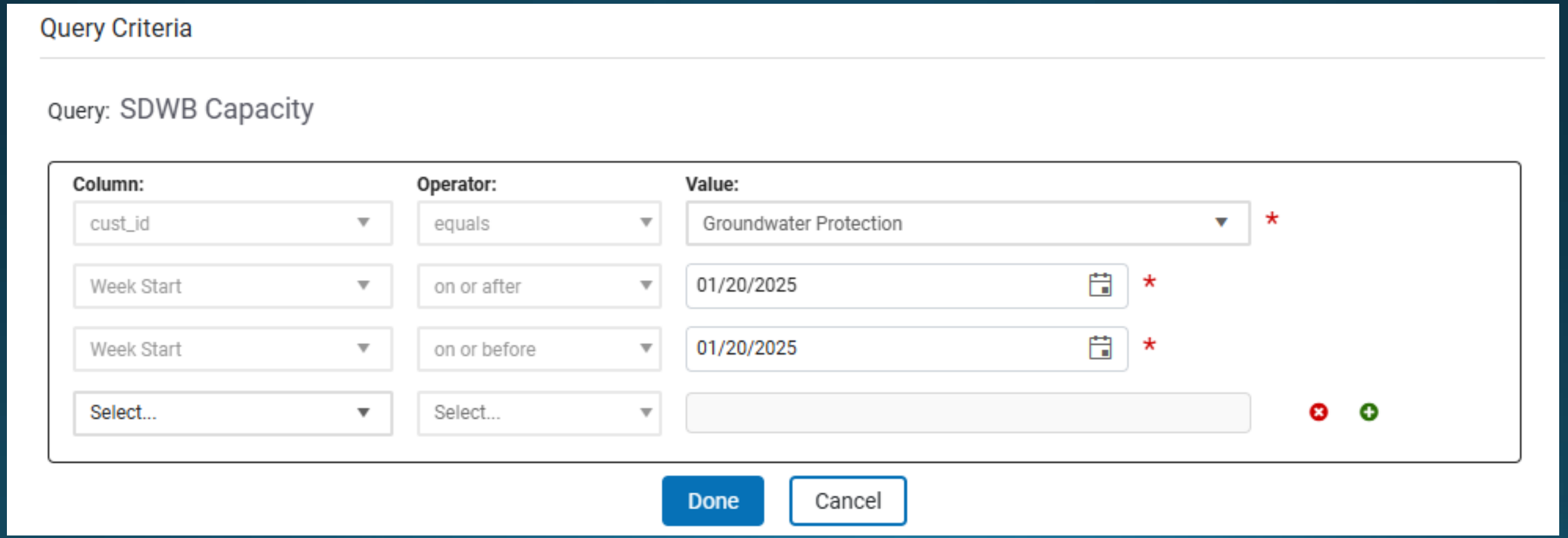
- Navigate to *Reports* and click on *Queries*



- Select SDWB Capacity



- Select a date range
- Click *Done*
- Check your downloads



Lab Capacity Query

Week Start	Week End	GLY	CAR	EDB-TCP-DBCP	SOC	HERB	DBP	VOC	METALS	PB-CU	NIT (Tues)	NIT (Wed)	NIT (Thurs)
01/20/2025	01/24/2025												
01/27/2025	01/31/2025	20	30	20					50		1	11	11
02/03/2025	02/07/2025						19			50			
02/10/2025	02/14/2025	20	30	19			45		50		4	14	14
02/17/2025	02/21/2025						20			50			
02/24/2025	02/28/2025	20	29	16	4		24		50		10	20	20
03/03/2025	03/07/2025									50			
03/10/2025	03/14/2025	20	30	19	10	20		10	40		10	20	20
03/17/2025	03/21/2025									50			
03/24/2025	03/28/2025								50				
03/31/2025	04/04/2025									50			
04/07/2025	04/11/2025	20	30	20	20	20		20	50		10	20	20
04/14/2025	04/18/2025									50			
04/21/2025	04/25/2025	20	30	20	20	20		20	50		10	20	20
04/28/2025	05/02/2025									50			
05/05/2025	05/09/2025	20	30	20	20		19		50		10	20	20
05/12/2025	05/16/2025						24			50			
05/19/2025	05/23/2025	20	30	20	16		24		50		10	20	20
05/26/2025	05/30/2025						24			50			
06/02/2025	06/06/2025	20	30	20	20	20		19	50		10	20	20
06/09/2025	06/13/2025												
06/16/2025	06/20/2025	20	30	20	20	20		20	50		10	20	20
06/23/2025	06/27/2025									150			
06/30/2025	07/04/2025	20	30	20	20	20		20	25		10	20	
07/07/2025	07/11/2025									150			
07/14/2025	07/18/2025	20	30	20	20	20		20	25		10	20	20
07/21/2025	07/25/2025									150			
07/28/2025	08/01/2025	20	30	20	20	20		20	25		10	20	20
08/04/2025	08/08/2025						20			150			
08/11/2025	08/15/2025	20	30	20	20		24				10	20	
08/18/2025	08/22/2025						24			150			
08/25/2025	08/29/2025	20	30	20	20		24				10	20	20
09/01/2025	09/05/2025									50			
09/08/2025	09/12/2025	10	19	9	9	10		19	50		10	20	20
09/15/2025	09/19/2025									50			
09/22/2025	09/26/2025	20	29	19	4	20		20	50		10	20	20
09/29/2025	10/03/2025									50			
10/06/2025	10/10/2025	20	30	20	20	20		20	50		10	20	20
10/13/2025	10/17/2025									50			
10/20/2025	10/24/2025	20	30	20	20	20		20	50		10	20	20
10/27/2025	10/31/2025									50			
11/03/2025	11/07/2025	20	30	20	20		20		50		10	20	20
11/10/2025	11/14/2025						24			50			
11/17/2025	11/21/2025	20	30	20	20		24		50		10	20	20
11/24/2025	11/28/2025						24			50			
12/01/2025	12/05/2025	20	30	20	20	20		20	50		10	20	20
12/08/2025	12/12/2025												
12/15/2025	12/19/2025												
12/22/2025	12/26/2025												

Generating a COC

First question?

- What type of sample are you collecting?
- Bacti? Chemistry? Lead & Copper? Compliance? Non-Compliance sample?

Selecting your Sample Location

Know where your EPD(s) is(are)

- All chemistry samples must be collected at the entry point to distribution (EPD).
  - You need to know where your EPD is because we do not ID it on LOL and the system is not like SCARS and will not assign it.
- All PFAS samples are collected at the EPD
- Lead & Copper sites – throughout your distribution system.

- And more…

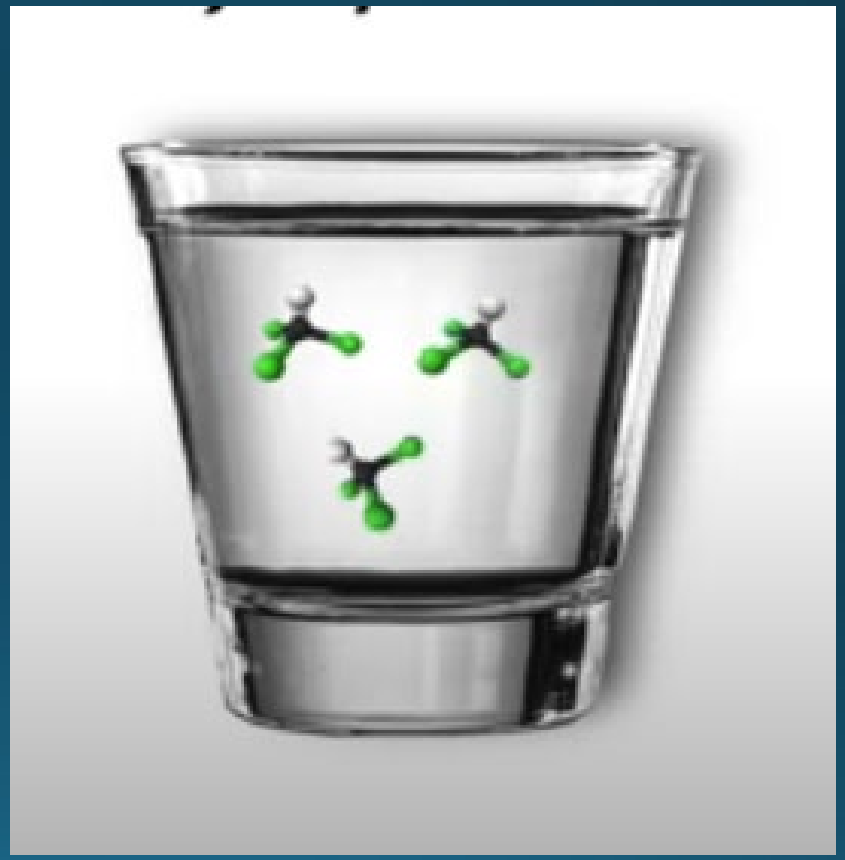
Asbestos Samples use 800 series (xxx-8xx)

- State Lab does not run Asbestos Samples
- Ensure that the Private Lab of your choice is certified with the State Lab and certified to do the analysis requested at the time of your sampling.
- In LOL, your Asbestos collection site is listed with the xxx-8xx, example: 230-801, where the first 3 digits represent the PWS#

While concerns about airborne exposure to asbestos are well-documented, CTV's W5 news program indicates that there is no general consensus about the effects of ingesting the fibres through drinking water, and particularly, the impacts of burst or broken asbestos cement pipes (pictured). Photo credit: designbydx, stock.adobe.com

Disinfection By-Products
Use 900 series (xxx-9xx)

- These are the only chemistry samples that SDWB tells you when to sample.
- It is a strict rule and needs to be collected in the month that we have set for you. (Feb, May, Aug, Nov).
- It will be scheduled in the first 2 weeks of the required month, so if there are issues with the samples, it may give you time to get a resample within the month.
- In LOL your DBP collection sites are listed with the xxx-9xx, example: 230-902, where the first 3 digits represent your water system number and the 9xx number lets us know it is a DBP site.
- DBP Engineer in-charge: Mr. Steve Tagupa. He can answer any questions about your DBP requirement (including adding/removing sites)



Disinfection By Product COC (use 900 series) example:

L3275 (L3275)

Workorder ID: 205-020425-EU(2715)
Lab Site: DOH - Oahu Lab
Sampler Name: Davis Neizman

Client: HI0000205|KAANAPALI
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): HAA5 (DBP) (2 Vials)	THM (DBP) (2 Vials)									Notes
1	2715001 - 205-020425-DN01 205-901-Hyatt Regency Hotel	02/04/25				X	X									
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID								
Sample Temp upon Receipt at Lab (°C)								
Sample Temp > 0°C and ≤ 6°C	Y	N	Y	N	Y	N	Y	N
Rec'd Day of Collection + Cooling w/Ice	Y	N	Y	N	Y	N	Y	N
Temperature Check (Pass or Fail)	P	F	P	F	P	F	P	F

Lead & Copper
Use LC (xxx-LCxxx-xxx)

- If requesting for new L&C sites email requests to the Lead & Copper Engineer in-charge: Ms. Heather Iwasaki. CC the Compliance Engineer, Wang
- Submit your updated sampling site plan at the end of the calendar year PRIOR to your L&C sampling date. This will help to ensure that the reviewer has ample time to work on the request.
- Select proper collection sites: indicated by PWS#-LC-xxx-xx
- Always include the extra sample to ensure compliance.

Pos	Lab ID, Sample ID, Collection Site	Date	Time	Cold Water Tap in Kitchen or Bathroom?	Water Filter Installed?	If yes, water filter bypassed?				Notes
1	**1465001 - 237-082125-RS01** 237-LC001-1351 Pakali St.			Yes No	Yes No	Yes No	☐ First Draw ☐ Flush	X		
2	**1465002 - 237-082125-RS02** 237-LC013-1485 Hoalauna St.			Yes No	Yes No	Yes No	☐ First Draw ☐ Flush	X		
3	**1465003 - 237-082025-RS03** 237-LC015-1490 Hoalauna St.			Yes No	Yes No	Yes No	☐ First Draw ☐ Flush	X		
4	**1465004 - 237-082025-RS04** 237-LC027-1525 Pakali St.			Yes No	Yes No	Yes No	☐ First Draw ☐ Flush	X		

Method of ment/Delivery (Circle One): In Person FedEx UPS Other (Specify):

Example COC for Lead & Copper: Use: LC xxx

Bacti Samples
Use: TC-R

- Ensure to select a collection site that has TC (for Total Coliform) and R (for ROUTINE site).
- Ex: PWS#-TCxxx-R-site description
- How To Collect A Drinking Water Total Coliform Sample

Example COC for Bacti Sample (use TC-R)

L3350 (L3350)

Workorder ID: 368-020425-GY(2773)
Lab Site: DOH - Oahu Lab
Sampler Name: Vasa Quirit

Client: HI0000368|WAIAHOLE
Reason: Compliance
Matrix: Drinking Water

Hawaii Dep
State Lab
2725 Wain
Pe
Phon

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)										Notes
1	27[illegible]300[illegible] 368-020425-VQ01 368-TC014-R-4[illegible]-370 Waiahole Valley Rd (Prev-1797\Elev Hb	02/04/25			Cooler #	X										
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID						
Sample Temp upon Receipt at Lab (°C)						
Sample Temp > 0°C and ≤ 6°C	Y N		Y N		Y N	
Rec'd Day of Collection + Cooling w/Ice	Y N		Y N		Y N	
Temperature Check (Pass or Fail)	P F		P F		P F	

Tuesday, January 21, 2025 12:14:24 PM
Dates and times are displayed using (-10:00) US/Hawaii.
Page 1 of 1

Where to find Results / Reports

- Click on Reports
  - Final Reports
- Click on Workorders
  - Final COC's found here.
  - Choose a Received Date
  - You will need Residual Chlorine information for your CCR
- Click on Queries (for PDF spreadsheet) of final reports
- LabOnLine Instructions are "The Best!" Print it & Use it.

Exceedances & Violations - What are your NEXT STEPS:

- **Lead & Copper Violations** – must be reported in your Consumer Confidence Report.
- **First time detections of any chemistry** requires that the PWS inform the SDWB; also that the public be informed. A public notification must be done to inform the public.
- **Total Coliform Positive** – You must ACT FAST. A 24-hour timer starts once the TC+ sample is reported to the purveyor by the State. The next samples must be collected within that 24-hour window from the:
  - 1)Temperature Control #1,
  - 2) Routine site that was positive,
  - 3) one up from R site,
  - 4) one down from R site,
  - 5) at the well(s)
  - 6) Temperature Control #2
- **E.Coli Positive** – Same steps as TC+ but includes that the system must issue a boil water notice within 30 hours of receipt of the results. If all repeat samples are TC- and received within the 30-hour period, a boil water notice does not need to be issued. The State should be NOTIFIED IMMEDIATELY of these results and actions.

Suggestions:

- Very important that you always have enough bottles to do this bacti sampling if you have a TC+ or E.Coli+ results
- Have a back-up lab to do emergency sampling. Plan to have sampling bottles in hand before they are needed.

Requests to Bacti Samplers from the Laboratory Staff

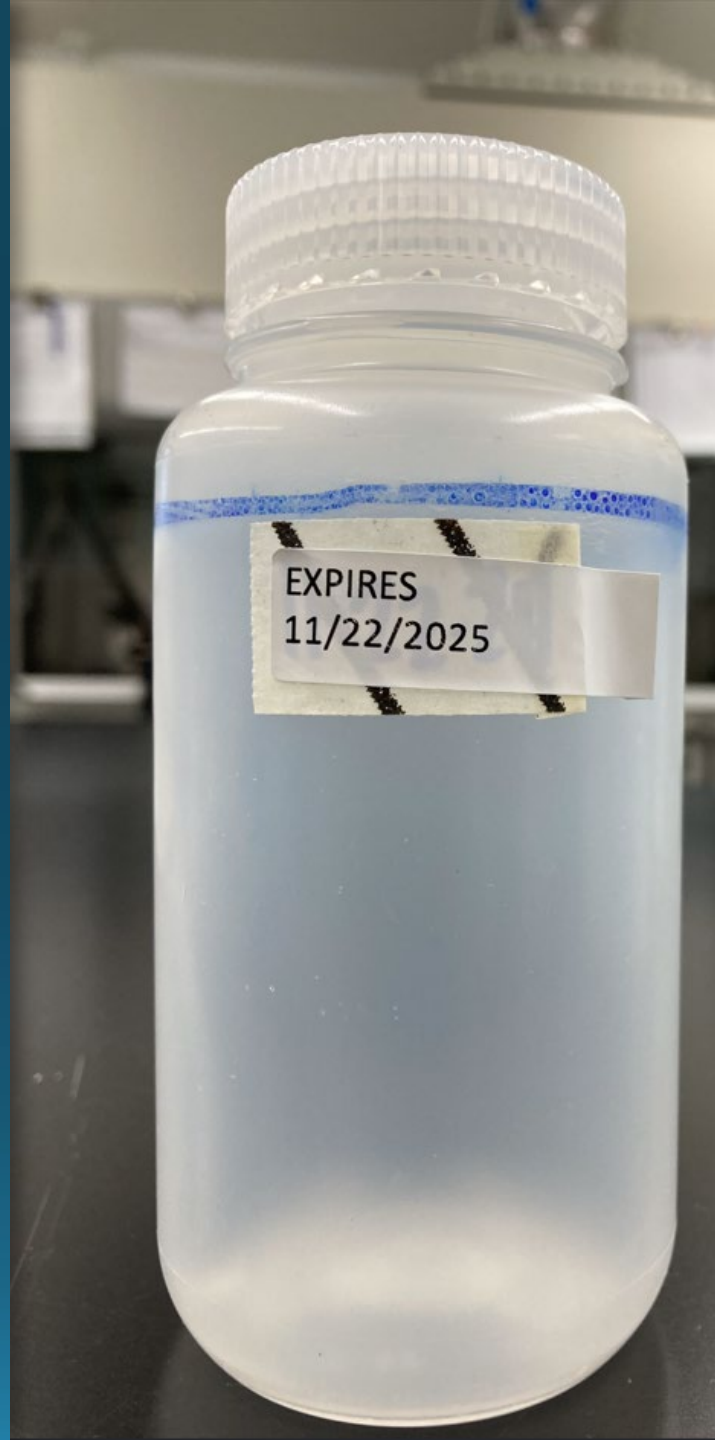
- Bacti sample bottles are being overfilled. Do not collect way over the fill line. Overfilled bottles make it difficult for the lab to shake & mix properly. They have to pour out the entire contents of the bottle into a larger, sterile bottle to mix it and then take the 100ml aliquot. More does not equal better. Keep it at the line.
- Please verify your sample sites on your COC.
- DO NOT USE GEL PENS! It smears and becomes illegible. The sample will be rejected if labels can not be read.
- Sampler name & signature. Remember to change name & signature on your preprinted COC if there's a change of sampler.

Bacti Samples

- Have a 30-hour hold time.
- Samples need to get to the lab before 30 hours after your first sample collected.
- Samples must make temp check upon arrival.

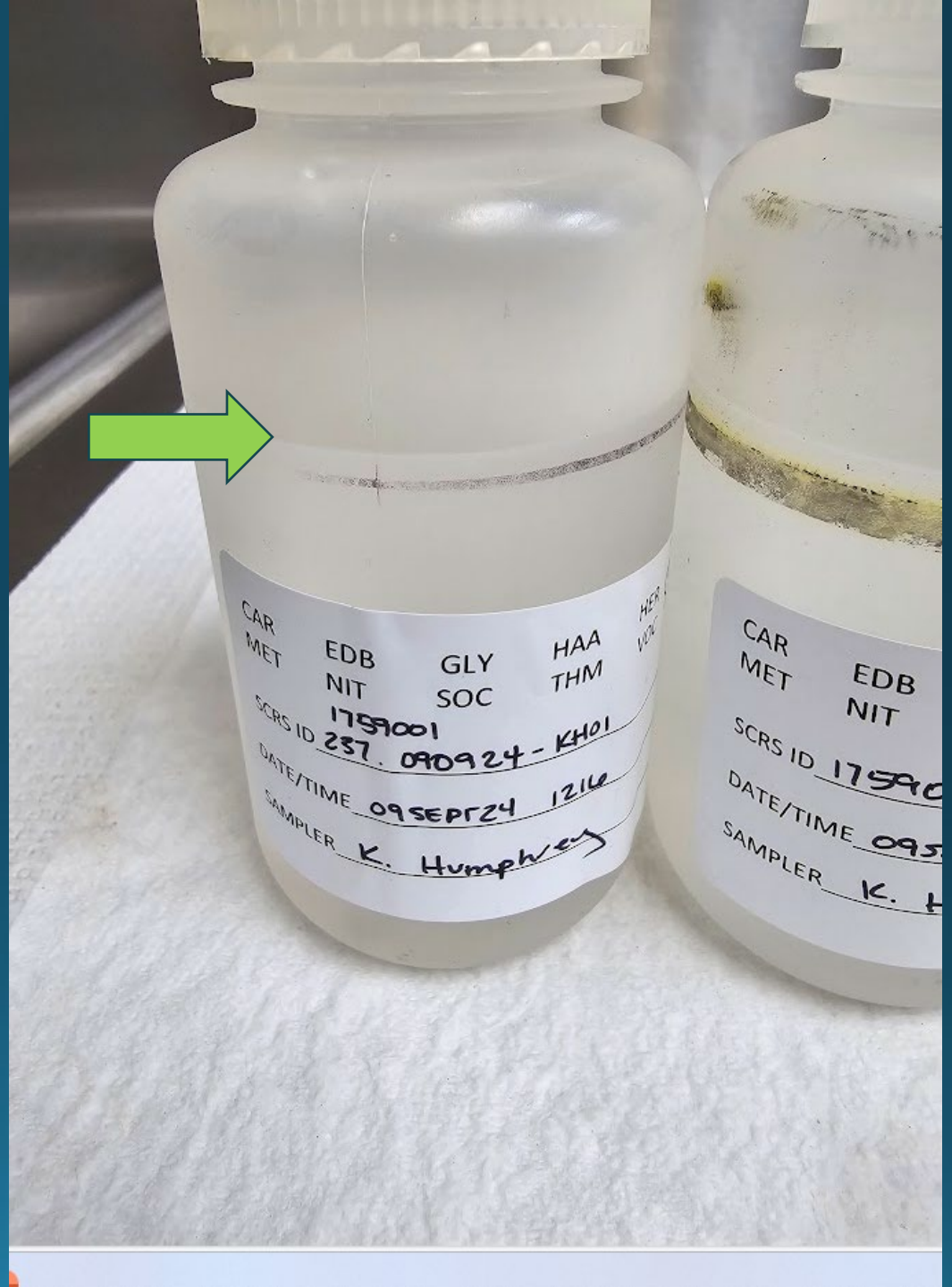
Bacti bottle – Maui Lab

- Do not use expired bacti bottles.



Bacti sample collection:

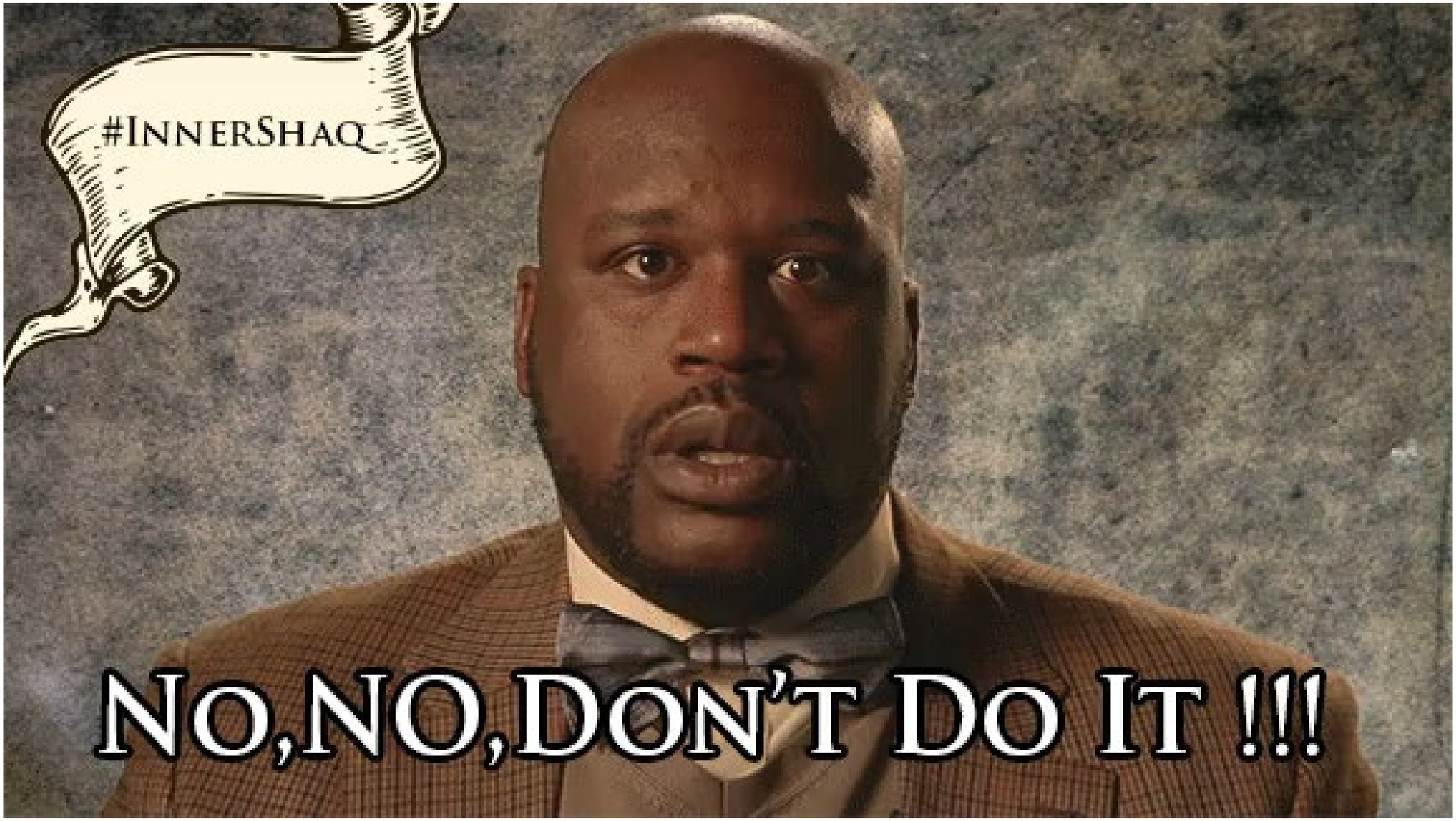
- Fill just above the line.
- Do not fill to the neck.
- Never pour anything out of the sample bottle.



More Bacti Sampling Tips

- Remove the paper and rubber band before you sample.
- The paper on the sample cover can increase your chances of a bacti positive sample.
- Do not send it to the lab.

Do Not send the paper & rubber band to the lab with your collected sample.
Toss the paper….
Keep the rubber band.


#INNERSHAQ
NO,NO,DON'T DO IT !!!

More tips from the Laboratory Staff

- Know your holding times for the sample(s) you collect.
- Ensure Proper labeling using a smear proof pen.
- Take the time to review your written COCs before placing it in your coolers.

Microbiology Lab Times

- Oahu: Bacti samples received: 8:30AM to 1:00PM (Firm-nothing past 2:00PM) Please call lab if you will be late.
- Maui – 7:45am – noon
- Hilo: 8:30am – 2:00pm
- Kauai: 9:00am – 11:00am
- *Please be courteous to the lab:*
- If you going be late, try call.
- If you no stay come, call um.

Microbiology Laboratories Phone #s:

- Oahu: 808-542-7675
- Maui: 808-984-2131
- Kauai: 808-241-3353
- Hilo: 808-974-4246

Chemistry Lab comments to samplers:

- Place the sample labels on the glass tubes and not onto the plastic holders.
- Do not send extra samples with no labels.
- If the sampler's name is changed, draw a single line to strike through incorrect name and initial the cross out; write in sampler name.

Lunch


VINEGAR


BOSTON
LAGER

Filling Out the COC

- Carefully think through your sampling process
  - Slow down, take your time
  - Double check your work
  - If not done correctly – your sample will be rejected
  - Make sure you printed the COC from the PRODUCTION site (not TEST)

- Review the different COCs
- Labels
- Making edits on the COC

Review the different COCs

Nitrate COC – example:

L2335 (L2335)

Workorder ID: 260-101524-AK(1949)
Lab Site: DOH - Oahu Lab
Sampler Name: Robert Stacy
Sampler Signature: Robert Stacy

Client: HI0000260|KIPAHULU
Reason: Compliance
Matrix: Drinking Water
TCB: _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): NIT (1 Bottle)
1	**1949001 - 260-101524-RS01** 260-002-@ Intersection Of Hana Rd/Well Rd	10/15/24	0540	.54		X
					Cooler #	L334
					Cooler #	

Method of Shipment/Delivery (Circle One): In Person (FedEx) UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By
1	Robert Stacy	10-15-24 / 0920	Brenkamol Hung 10/16/24 1048
2			
3			

Lab Use Only

Notes:

Cooler ID	L334		
Sample Temp upon Receipt at Lab (°C)	5.6°C		
Sample Temp > 0°C and ≤ 6°C	(Y) N	Y	N

Did you know…


NOT ALL WASTE
IS EQUAL
Did you know that pet waste
generates more nitrogen and
phosphorous than wild animal waste?
That's why we need YOU
to pick up your dog's POO!
IT STARTS HERE.
Summit County Stormwater Coalition

Lead & Copper – example:

L984 (L984)

Workorder ID: 374-061724-AK(924)
Lab Site: DOH - Oahu Lab
Sampler Name: Ann Kam

Client: HI0000374|VILLA ROSE
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____

Pos	Lab ID, Sample ID, Collection Site	Date	Time	Cold Water Tap in Kitchen or Bathroom?	Water Filter Installed?	If yes, water filter bypassed?				Notes
1	**924001 - 374-062524-AK01** 374-LC001-Near Boiler Room-Handwash Sink	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			
2	**924002 - 374-062524-AK02** 374-LC002-Maintenance Room-Mop Sink	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			
3	**924003 - 374-062524-AK03** 374-LC003-Villa Rose Farm Distribution System	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			
4	**924004 - 374-062524-AK04** 374-LC004-Mens Rr-Handwash Sink	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			
5	**924005 - 374-062524-AK05** 374-LC005-Womens Rr-Handwash Sink	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			
6	**924006 - 374-062524-AK06** 374-LC006-Breakroom Kitchen Sink	06/25/24		Yes No	Yes No	Yes No	☐ First Draw ☐ Flush			

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

L3350 (L3350)

Workorder ID: 368-020425-GY(2773)
Lab Site: DOH - Oahu Lab
Sampler Name: Vasa Quirit

Client: HI0000368|WAIAHOLE
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)										Notes
1	**2773001 - 368-020425-VQ01** 368-TC014-R-48-370 Waiahole Valley Rd (Prev-1797)Elev Hb	02/04/25				X										
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID							
Sample Temp upon Receipt at Lab (°C)							
Sample Temp > 0°C and ≤ 6°C	Y N	Y N	Y N	Y N
Rec'd Day of Collection + Cooling w/Ice	Y N	Y N	Y N	Y N
Temperature Check (Pass or Fail)	P F	P F	P F	P F

Bacti COC Example:

Anything wrong with this Bacti COC?

L3351 (L3351)

Workorder ID: 222-020425-MS(2774)
Lab Site: DOH - Maui Micro
Sampler Name: Maricia Save

Client: HI0000222|HALEAKALA NATIONAL PARK
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)										Notes
1	**2774001 - 222-020425-MS01** 222-TC007-Sample Tap At Chlorinator Site	02/04/25				X										
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID								
Sample Temp upon Receipt at Lab (°C)								
Sample Temp > 0°C and ≤ 6°C	Y	N	Y	N	Y	N	Y	N
Rec'd Day of Collection + Cooling w/Ice	Y	N	Y	N	Y	N	Y	N
Temperature Check (Pass or Fail)	P	F	P	F	P	F	P	F

L3351 (L3351)

Workorder ID: 222-020425-MS(2774)
Lab Site: DOH - Maui Micro
Sampler Name: Maricia Save

Client: HI0000222|HALEAKALA NATIONAL PARK
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)										Notes
1	~~2774001 - 222-020425-MS01~~ 222-TC007-Sample Tap At Chlorinator Site	02/04/25				X										
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID								
Sample Temp upon Receipt at Lab (°C)								
Sample Temp > 0°C and ≤ 6°C	Y	N	Y	N	Y	N	Y	N
Rec'd Day of Collection + Cooling w/Ice	Y	N	Y	N	Y	N	Y	N
Temperature Check (Pass or Fail)	P	F	P	F	P	F	P	F

Incorrect sample site. Bacti samples will be labeled with 'TC' for Total Coliform and 'R' for Routine sample sites.

Labels

Bacti
or TC (total coliform):

CAR	EDB	GLY	HAA	HER	TC
MET	NIT	SOC	THM	VOC	LC

LAB ID_____

DATE/TIME_____

SAMPLER_____

Chemistry:

243-002-Kaeleku Well Chlorinator Standpipe

Collected Date 01/24/2025 _____:_____
AG1L - HCL
Drinking Water Chemistry
SOC - Synth. Organics

1446001-1

Making edits on the COCs

- Single line through the incorrect information,
- Write the correct information,
- Initial the change.

Sample Packing & Transport

- Best days to collect and ship are early in the week (Monday, Tuesday, Wednesday)
- Ensure ice packs are FROZEN for 72-hours before use.
  - Samples received not at proper temp will be rejected.
- Prevent FREEZING of samples.
  - Use the packing bubbles to keep samples from touching the ice packs.
  - Frozen samples will be rejected.
- FedEx your chemistries to the State Lab as soon as sampling is complete.

External Labs

- Ensure with the State Lab that they are Certified.
- You will receive chemistries and COCs from the external lab.
- Plan to Sample BEFORE summer.

Hands on Portion

- Chlorine residual
- Bacti
- VOC – use new method (meniscus, add drops)
- SOC
- Pass or Reject

Hands on: COC for BACTI

L1537 (L1537)

Workorder ID: 243-012325-AK(1447)
Lab Site: DOH - Maui Micro
Sampler Name: Ann Kam

Client: HI0000243|HANA WATER SYSTEMS - NORTH
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)										Notes
1	**1447001 - 243-012425-AK01** 243-002-Kaeleku Well Chlorinator Standpipe	01/24/25				X										
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID							
Sample Temp upon Receipt at Lab (°C)							
Sample Temp > 0°C and ≤ 6°C	Y N	Y N	Y N	Y N
Rec'd Day of Collection + Cooling w/Ice	Y N	Y N	Y N	Y N
Temperature Check (Pass or Fail)	P F	P F	P F	P F

Hands on: COC for BACTI

L3272 (L3272)

Workorder ID: 256-010725-AK(2712)
Lab Site: DOH - Maui Micro
Sampler Name: Ann Kam

Client: HI0000256|MAUI HIGHLANDS
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): Bacti (1 Bottle)									Notes
1	**2712001 - 256-010725-AK01** 256-TC004-R-Lot #27 Hihimanu St.	01/07/25				X									
					Cooler #										
					Cooler #										

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

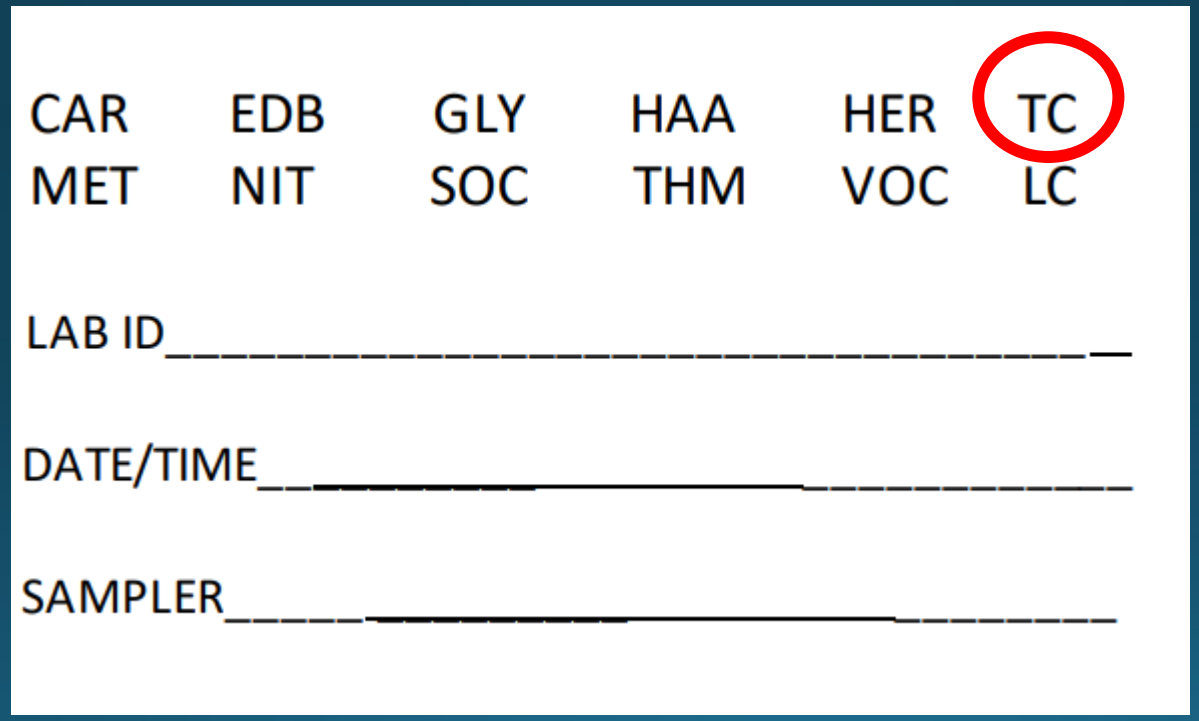
Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID							
Sample Temp upon Receipt at Lab (°C)							
Sample Temp > 0°C and ≤ 6°C	Y	N	Y	N	Y	N	Y N
Rec'd Day of Collection + Cooling w/Ice	Y	N	Y	N	Y	N	Y N
Temperature Check (Pass or Fail)	P	F	P	F	P	F	P F

Sample label for Bacti Sample
Bacti, a.k.a. TC (total coliform)



Lab ID: from COC to Bacti label

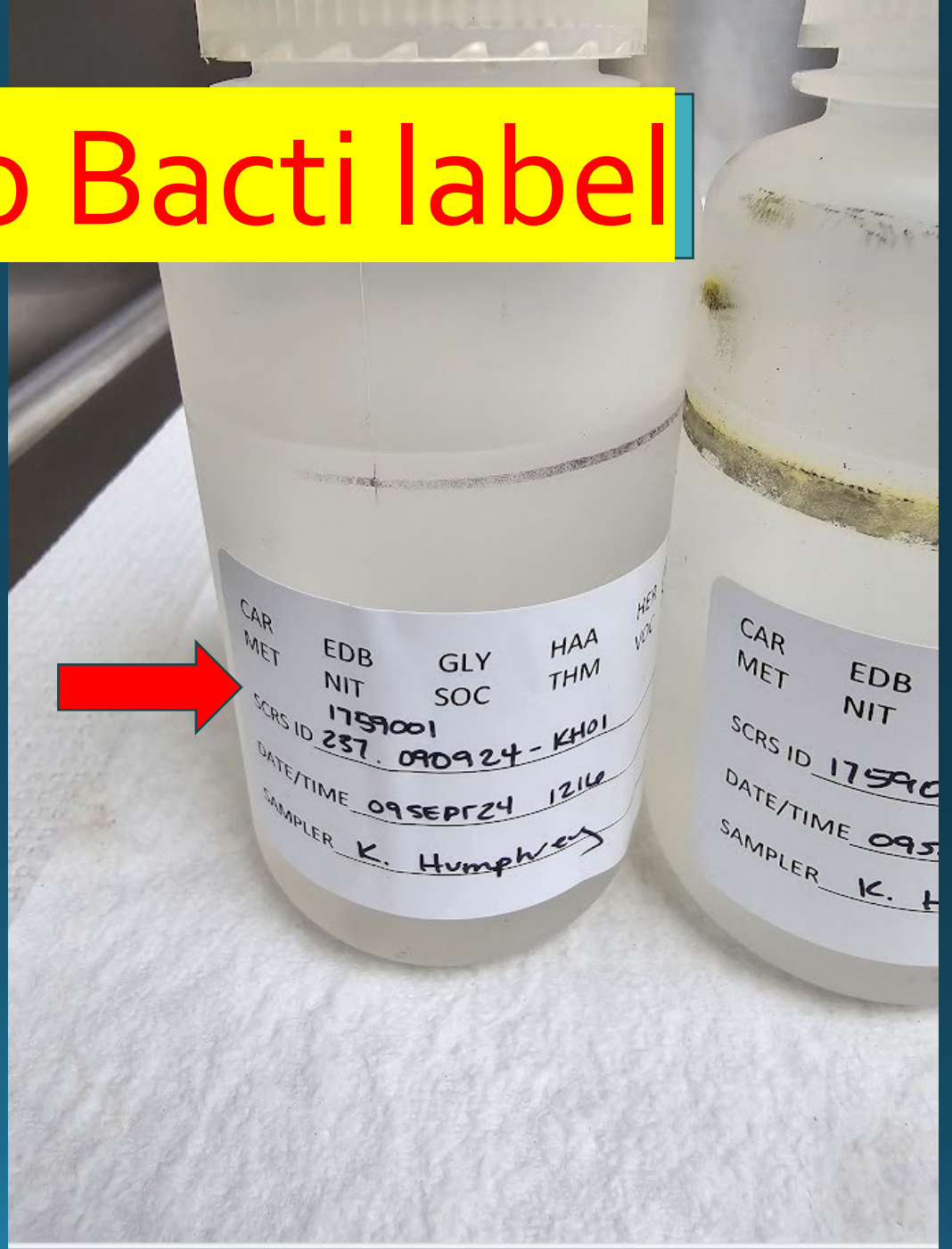
Sampler Signature:

Pos	Lab ID, Sample ID, Collection Site	Date	Time
1	1759001 - 237-090924-KH01 237-TC007-R-Administration Building	09/09/24	1216
2	1759002 - 237-090924-KH02 237-TC015-R-Hongwanji Mission	09/09/24	1237
3	1759003 - 237-090924-KH03 237-TC016-R-Right Sd Of Garage At Ccr Rental Home	09/09/24	1300

Method of Shipment/Delivery (Circle One): In Person FedEx UPS

Transfers	Released By
1	KEVIN HUMPHREY
2	
3	

Notes:



Hands on: COC for SOC & VOC

L1536 (L1536)

Workorder ID: 243-012425-AK(1446)
Lab Site: DOH - Oahu Lab
Sampler Name: Ann Kam

Client: HI0000243|HANA WATER SYSTEMS - NORTH
Reason: Compliance
Matrix: Drinking Water

Hawaii Department of Health
State Laboratories Division
2725 Waimano Home Road
Pearl City, HI 96782
Phone (808) 453-6096

Sampler Signature: _____ **TCB:** _____°C **TCE:** _____°C

Pos	Lab ID, Sample ID, Collection Site	Collected: Date	Time	Chlorine mg/L (Circle one) Free Total		Tests (Circle "X" if Dup collected): SOC (1 bottle)	VOC (2 Vials)									Notes
1	**1446001 - 243-012425-AK01** 243-002-Kaeleku Well Chlorinator Standpipe	01/24/25				X	X									
					Cooler #											
					Cooler #											

Method of Shipment/Delivery (Circle One): In Person FedEx UPS Other (Specify):_____

Transfers	Released By	Date/Time	Received By	Date/Time
1				
2				
3				

Lab Use Only

Notes:

Cooler ID								
Sample Temp upon Receipt at Lab (°C)								
Sample Temp > 0°C and ≤ 6°C	Y	N	Y	N	Y	N	Y	N
Rec'd Day of Collection + Cooling w/Ice	Y	N	Y	N	Y	N	Y	N
Temperature Check (Pass or Fail)	P	F	P	F	P	F	P	F

Sample Labels – Fill in collection time:

SOC

243-002-Kaeleku Well Chlorinator Standpipe

Collected Date 01/24/2025 _____:_____
AG1L - HCL
Drinking Water Chemistry
SOC - Synth. Organics

1446001-1

VOC

243-002-Kaeleku Well Chlorinator Standpipe

Collected Date 01/24/2025 _____:_____
AG40ML VOC HCL
Drinking Water Chemistry
VOC

1446001-2

I hope you all learned something today!

Microbiology Laboratories Phone:

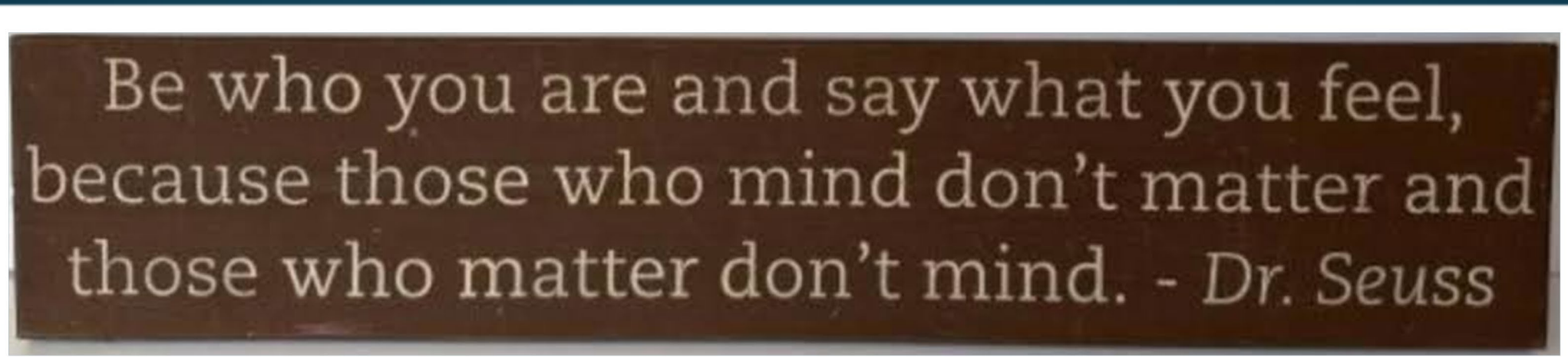
- Oahu: 808-542-7675
- Maui: 808-984-2131
- Kauai: 808-241-3353
- Hilo: 808-974-4246

Contact us. We're here to help you

• Melvin.tokuda@doh.hawaii.gov	(808) 586-4280
• David.kawahara@doh.hawaii.gov	(808) 586-4279
• Ann.kam@doh.hawaii.gov	(808) 586-4658
• Scott.murakawa@doh.hawaii.gov	(808) 586-4657
• Kelsey.yap@doh.hawaii.gov	(808) 586-4659
• Michelle.higashi@doh.hawaii.gov	(808) 933-0407, (808) 292-8401_c
• Maricia.save@doh.hawaii.gov	(808)562-3249, (808) 341-6789_c
• Madeline.heyde@doh.hawaii.gov	(808)241-3329, (808) 490-8306_c

Engineers:

- Zhaohui.wang@doh.hawaii.gov - Compliance
- Joan.corrigan@doh.hawaii.gov - Engineering Section Supervisor
- Steve.tagupa@doh.hawaii.gov - Disinfection By-Product
- Heather.iwasaki@doh.hawaii.gov - Lead & Copper
- Judy.hayducsko@doh.hawaii.gov - Revolving Fund


Be who you are and say what you feel,
because those who mind don't matter and
those who matter don't mind. - Dr. Seuss


A hui hou