



Quality. Service. Value.®

WATER QUALITY REPORT

2021

WAIKOLOA DISTRICT

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ABOUT YOUR WATER QUALITY

At Hawaii Water Service (Hawaii Water), our goal is to deliver safe, high-quality drinking water, 24 hours per day, seven days per week, 365 days per year. As part of that effort, we produce this annual water quality report, which includes information about where your water comes from, what it contains, and how it compares to state and federal standards.

Most importantly, it confirms that in 2021, our water met or surpassed all standards set by the Hawaii Department of Health and U.S. Environmental Protection Agency (EPA) to protect public health.

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YOUR WATER SYSTEM



Waikoloa's drinking water is monitored and tested by our laboratory as well as an independent, certified laboratory and the Hawaii Department of Health for all contaminants established by the Safe Drinking Water Act.

Waikoloa's water comes from 1,200-foot-deep wells that draw from an underground aquifer that is continuously flushed and replenished. Waikoloa's drinking water wells are located at an elevation above Waikoloa Village. There are no development, industry, or injection pits located above Waikoloa's drinking water wells that could be a possible source of contamination. Waikoloa's water is continuously disinfected and delivered to our customers through reservoirs and distribution mains that are lead-free, and our water is non-corrosive due to a balanced pH between 7.9 and 8.3, and an alkalinity between 82 and 100.

The Hawaii Department of Health's Safe Drinking Water Branch completed the preliminary draft of Waikoloa's source water assessment and protection program in March 2004.

For additional drinking water quality information, contact:

- EPA Safe Drinking Water Hotline: (800) 426-4791
[water.epa.gov/drink](https://www.water.epa.gov/drink)
- State of Hawaii Safe Drinking Water Branch
Department of Health: (808) 586-4258
health.hawaii.gov/sdwb
- Hawaii's Source Water Assessment and Protection Program:
health.hawaii.gov/sdwb/swap
www.fsa.usda.gov/Internet/FSA_File/hicreppeafinal.pdf

If you have any questions, suggestions, or concerns, please contact our Customer Center at (808) 883-2046 or toll-free at (877) 886-7784, or through the Contact Us link at www.hawaiiwaterservice.com.

POSSIBLE CONTAMINANTS

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some substances.

The presence of substances does not necessarily indicate that the water poses a health risk.

More information about substances and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

PROTECTING YOUR WATER

In general, the sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, and wells. As water travels over land's surface or through the earth, it dissolves naturally occurring minerals and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be in untreated water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulates contaminants in bottled water to protect public health.

INDIVIDUALS WITH SPECIAL HEALTH CONCERNS

Some people may be more vulnerable to substances in drinking water than the general population. Immunocompromised people, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, or people with HIV/AIDS or other immune system disorders; some elderly people; and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The EPA/Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological substances are available from the Safe Drinking Water Hotline at (800) 426-4791.

CROSS-CONNECTION CONTROL

To ensure that the high-quality water we deliver is not compromised in the distribution system, Hawaii Water has a robust cross-connection control program in place. Cross-connection control is critical to ensuring that activities on customers' properties do not affect the public water supply. Our cross-connection control specialists ensure that all of the existing backflow prevention assemblies are tested annually, assess all connections, and enforce and manage the installation of new commercial and residential assemblies.

Backflow can occur when certain pressure conditions exist either in our distribution system or within the customer's plumbing, so our customers are our first line of defense. A minor home improvement project — without the proper protections — can create a potentially hazardous situation, so careful adherence to plumbing codes and standards will ensure the community's water supply remains safe. Please be sure to utilize the advice or services of a qualified plumbing professional.

Many water-use activities involve substances that, if allowed to enter the distribution system, would be aesthetically displeasing or could even present health concerns. Some common cross-connections are:

- Garden hoses connected to a hose bib without a simple hose-type vacuum breaker (available at a home improvement store)
- Improperly installed toilet tank fill valves that do not have the required air gap between the valve or refill tube
- Landscape irrigation systems that do not have the proper backflow prevention assembly installed on the supply line

Customers must ensure that all plumbing is in conformance with local plumbing codes. Additionally, state law requires certain types of facilities to install and maintain backflow prevention assemblies at the water meter. Hawaii Water's cross-connection control staff will determine whether you need to install a backflow prevention assembly based on water uses at your location.



ABOUT LEAD

As the issue of lead in water continues to be top of mind for many Americans, Hawaii Water wants to assure you about the quality of your water.

None of these conditions exist at Hawaii Water. We have worked proactively to eliminate lead-bearing materials from our water systems, and we are compliant with health and safety codes mandating the installation of lead-free materials in public water systems. We test our water sources to ensure that the water we deliver to customers' meters meets water quality standards and is not corrosive toward plumbing materials.

The water we deliver may meet lead standards, but what about your home plumbing? Because lead in drinking water comes primarily from materials and components associated with service lines and home plumbing, the Lead and Copper Rule is a critical part of our water quality monitoring program.

The Lead and Copper Rule requires us to test water *inside* a representative number of homes that have plumbing most likely to contain lead and/or lead solder. This test, with other water quality testing, tells us if the water is corrosive enough to cause lead from home plumbing to leach into the water. If the "Action Level" for lead is exceeded, we work with our customers to investigate the issue and, if necessary, implement corrosion control before the lead levels create a health issue.

Elevated levels of lead, if present, can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Hawaii Water is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components.

When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested by a certified lab. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

In your system, results from our lead monitoring program, conducted in accordance with the Lead and Copper Rule, were non-detectable for the presence of lead.

TABLE INTRODUCTION

The 2021 Water Quality Table lists all of the contaminants that we detected in your drinking water in 2021 (except where noted).

Although the EPA requires water systems to test for up to 125 substances, we list only those substances detected in your water. The state allows us to monitor for some substances less than once per year because the concentrations of these substances do not change rapidly.

IMPORTANT DEFINITIONS

Maximum Contaminant Level Goal (MCLG)

Level of a contaminant in drinking water below which there is no known or expected risk to health; MCLGs allow for a margin of safety

Maximum Contaminant Level (MCL)

Highest level of a contaminant that is allowed in drinking water; MCLs are set as close to the MCLGs as feasible using the best available treatment technology

Action Level (AL)

Concentration of a contaminant which, if exceeded, triggers treatment or other required action by the water provider

Our testing equipment is so sensitive, it can detect constituents as small as 1 part per trillion. That is equivalent to 1 inch over 15 million miles

TABLE KEY

n/a	Not applicable
MRDL	Maximum residual disinfectant level
MRDLG	Maximum residual disinfectant level goal
ND	Not detected
ppm	Parts per million, or milligrams per liter (mg/L)
ppb	Parts per billion, or micrograms per liter (µg/L)
pCi/L	Picocuries per liter (a measure of radioactivity)
SMCL	Secondary maximum contaminant level

Primary Drinking Water Standards

Inorganic Chemicals	Year Tested	Unit	MCL (SMCL)	MCLG	In Compliance	Result or Range	Average	Source of Substance
Barium	2021	ppm	2	2	Yes	0.005	0.005	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chromium	2021	ppb	100	100	Yes	4.0	4.0	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride	2021	ppm	4	1	Yes	0.24–0.32	0.29	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (as nitrogen)	2021	ppm	10	10	Yes	1.2–1.3	1.3	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Disinfection Byproducts	Year Tested	Unit	MCL (SMCL)	MCLG	In Compliance	Range	Average	Source of Substance
Total trihalomethanes	2021	ppb	80	n/a	Yes	5.4–5.9	5.7	Byproduct of drinking water chlorination
Disinfectant	Year Tested	Unit	MRDL	MRDLG	In Compliance	Range	Average	Source of Substance
Chlorine	2021	ppm	4	4	Yes	0.29–0.92	0.5	Drinking water disinfectant added for treatment

Other Regulated Substances

Metals	Year Tested	Unit	AL	MCLG	In Compliance	90 th Percentile	Samples > AL	Source of Substance
Copper	2021	ppm	1.3	0.3	Yes	No Detection	0 of 32	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	2021	ppb	15	2	Yes	No Detection	0 of 32	Internal corrosion of household plumbing systems; discharge from industrial manufacturers; erosion of natural deposits
Radionuclides	Year Tested	Unit	MCL (SMCL)	MCLG	In Compliance	Range	Average	Source of Substance
Beta particle	2021	pCi/L	50*	0	Yes	5.6–7.4	6.5	Erosion of natural deposits

* The MCL for beta particles is 4 mrem/year. EPA considers 50 pCi/L to be the level of concern for beta particles.

Secondary Drinking Water Standards and Unregulated Compounds

Inorganic Chemicals	Year Tested	Unit	SMCL	(MCLG)	In Compliance	Result or Range	Average	Source of Substance
Sulfate	2021	ppm	500	n/a	Yes	15–33	24	Runoff/leaching from natural deposits; industrial wastes
Molybdenum	2020	ppb	n/a	n/a	Yes	4.7–9.6	7.0	Erosion of natural deposits
Vanadium	2020	ppb	n/a	n/a	Yes	57–74	64	Erosion of natural deposits; manufacturing of alloys and steel
Federal Unregulated Contaminants Monitoring Rule (UCMR 4)	Year Tested	Unit	MCL	MCLG	In Compliance	Result or Range	Average	Source of Substance
Bromide	2020	ppb	n/a	n/a	Yes	100–470	218	Erosion of natural deposits
HAA5	2020	ppb	n/a	n/a	Yes	1.1–2.0	1.6	Byproduct of drinking water chlorination
HAA6Br	2020	ppb	n/a	n/a	Yes	0.86–1.3	1.1	Byproduct of drinking water chlorination
HAA9	2020	ppb	n/a	n/a	Yes	1.1–2.0	1.6	Byproduct of drinking water chlorination
Total organic carbon	2020	ppm	n/a	n/a	Yes	ND–0.42	0.19	Naturally present in the environment

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Thanks for taking the time
to learn more about
your water quality!

If you have questions, comments, or concerns regarding your drinking water,
please contact Hawaii Water Service.

We welcome your interest in Waikoloa's water system.



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THANK YOU.



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