



Department of Hawaiian Home Lands

2016 HO'OLEHUA WATER QUALITY

CONSUMER CONFIDENCE REPORT

Introduction

The Department of Hawaiian Home Lands (DHHL) is committed to providing you with quality drinking water and reliable service at a reasonable cost. Since 1998, the U.S. Environmental Protection Agency (EPA) regulations require community water systems to provide an annual report to consumers on the quality of their drinking water in the form of a Consumer Confidence Report (CCR).

Your water is tested regularly by DHHL and the Department of Health for more than 100 different types of contaminants. The DHHL water has been tested and determined to meet **ALL** Federal and State quality standards. The contaminants shown below were found in your drinking water and are well within the standards for safe drinking water.

General Information Relating to Drinking Water Contaminants and Health Risks

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency (EPA) Safe Drinking Water Hotline at 1-800-426-4791.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source 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 storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from agriculture, urban storm water runoff, residential uses and other uses;
- Organic Chemical Contaminants, including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, can come from gas stations, urban storm runoff or septic systems.
- Radioactive contaminants which can be naturally occurring or the result of oil and gas production and mining.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

2016 Violation

Our water system violated drinking water monitoring requirements in 2016. Even though this was not an emergency, as our customers you have a right to know what happened and what we did to correct this situation. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. For the 2016 monitoring period, we did not complete all monitoring or testing for Total Trihalomethanes and Total Haloacetic Acids. We therefore cannot be sure of the quality of the drinking water with regard to Total Trihalomethanes

and Total Haloacetic Acids during this time. The table below lists the contaminants groups we did not properly test for during that time period, how many samples we are supposed to take and how often we are supposed to sample for them, how many samples we took, when samples should have been taken, and when samples were collected.

Contaminant	Required sampling frequency	Number of samples taken	When samples should have been taken	When samples were taken
Total Trihalomethanes & Total Haloacetic Acids	1 sample every year	0	February 2016	May 2016

The samples for Total Trihalomethanes and Total Haloacetic Acids were taken in May 2016, analyzed, and determined to be in compliance with drinking water standards. Total Trihalomethanes was measured at 37 ug/L in comparison to the maximum contaminant level (MCL) of 80 ug/L and the Total Haloacetic Acids was 3.4 ug/L as compared to the MCL of 60 ug/L. These tests are performed each year and DHHL has always been well within water quality standards. The next test was performed in February 2017. For more information, please contact E. Halealoha Ayau at (808) 560-6104 or by writing to DHHL MDO P. O. Box 2009, Kaunakakai, HI 96748.

Changes in Regulatory Requirements

This Consumer Confidence Report (CCR) reflects changes in drinking water regulatory requirements during 2016. All water systems were required to comply with the Total Coliform Rule from 1989 to March 31, 2016, and began compliance with a new rule, the Revised Total Coliform Rule on April 1, 2016. The new rule maintains the purpose to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbial (i.e., total coliform and E. coli bacteria). The U.S. EPA anticipates greater public health protection under the new rule, as it requires water systems that are vulnerable to microbial contamination to identify and fix problems. As a result, under the new rule there is no longer a monthly maximum contamination level violation for multiple total coliform detections. Instead, the new rule requires water systems that exceed a specified frequency of total coliform occurrences to conduct an assessment to determine if any sanitary defects exist. If any sanitary defects are found, these must be corrected by the public water system.

Important Information Regarding Drinking Water Contaminants and Immuno-Compromised Persons

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, who have HIV/AIDS or other immune system disorders, and elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Centers for Disease Control guidelines on the means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available by calling the EPA Safe Water Drinking Hotline at 1-800-426-4791.

Water Source Information

Drinking water begins as rain falling over the Molokai Forest Reserve. Much of this rain is naturally filtered through the ground on its way to large underground aquifers. The water serving your residence is from the Ho'olehua Water System No. 230, which is owned and operated by DHHL. All of the water pumped into the water distribution system is chlorinated. Concentrations of chlorine are kept at a minimum and DHHL adds only what is needed to keep disease-causing bacteria from contaminating our water supply. A complete source water assessment is available for review. Please contact the Molokai District Office at 560-6104 for more information.

Water Monitoring Results

The table below lists all of the drinking water contaminants that were detected during the reporting period for this report. The presence of contaminants in the water does not necessarily indicate that the water poses a

health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires DHHL to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG	MCL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Disinfection By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Halocetic Acids (HAA5) (ppb)	NA	60	3.4	NA		2016	No	By-product of drinking water chlorination
TTHMs (Total Trihalomethanes) (ppb)	NA	80	37	NA		2016	No	By-product of drinking water disinfection
Inorganic Contaminants								
Nitrate (measured as Nitrogen) (ppm)	10	10	0.38	NA		2016	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Radioactive Contaminants								
Alpha Emitters (pCi/L)	0	15	1.6	NA		2016	No	Erosion of natural deposits
Beta/photon emitters (EPA considers 50 pCi/L to be the level of concern for beta emitter)	0	4 mrem/yr	4.2 pCi/L	NA		2016	No	Erosion of natural deposits

Unit Descriptions

- | <u>Term</u> | <u>Definition</u> |
|---------------|---|
| 1. MCL: | Maximum Contaminant Level, the highest level of a contaminant that is allowed in drinking water |
| 2. MCLG: | Maximum Contaminant Level Goal, the level of a contaminant in drinking water below which there is no known or expected risk to health |
| 3. ppm / ppb: | Parts per million / parts per billion |
| 4. pCi/L: | Picocuries per liter (a measure of radioactivity) |
| 5. mrem/yr: | Millirems per year (a measure of radiation absorbed by the body) |

Lead in Drinking Water & Its Effects on Children

If present, elevated levels of lead 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. DHHL 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 2 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. 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 <http://www.epa.gov/safewater/lead>.

For more information, please contact E. Halealoha Ayau, DHHL P.O. Box 2009; Kaunakakai, HI 96748, call 808-560-6105 or email e.halealoha.ayau@hawaii.gov.