



Princeville Utilities Company, Inc.

2011 Water Quality Report

Introduction

In 1996, Congress amended the Safe Drinking Water Act. It added a provision requiring that all community water systems deliver to their customers a brief annual water quality report. The purpose of this report is to advance consumers' understanding of drinking water and heighten awareness of the need to protect precious water resources. We are committed to providing you with information because informed customers are our best allies. For more information about your water, call Michael Loo, Princeville Utilities Manager, at 826-6100, extension 20.

Princeville Utilities Company, Inc.'s (PUCI's) water system is a community water system owned and operated by Princeville Utilities Company, Inc.

Last year, PUCI tested your water for a wide array of contaminants. We detected no contaminants. This report is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and State of Hawaii Department of Health (DOH) standards.

Source Water Assessment

A Source Water Assessment Report, intended to enable "well-founded, fair and reasonable decisions for the protection and preservation of Hawaii's drinking water" was completed in March 2004 by the State of Hawaii's Department of Health and the University of Hawaii. This Assessment Report is available for viewing at our office. Please contact Michael Loo, PUCI Manager, at (808) 826-6100, extension 20, to make arrangements to view this document.

Information about Lead

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. PUCI is responsible for providing high quality drinking water, and uses lead-free materials in the construction of its water system. However, PUCI cannot control the variety of materials used in plumbing components for home construction. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty 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. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the EPA's Safe Drinking Water Hotline at 1-800-426-4791, or online at <http://www.epa.gov/safewater/lead>.

Information on Sources of Water

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 or bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts or 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.

In order to be sure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems.

Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

The source of PUCI's water is groundwater from three deep wells. The water from these wells is disinfected with sodium hypochlorite and pumped into three storage tanks for distribution to the Princeville Resort and surrounding areas. The water system serves approximately 2,064 persons through approximately 1,082 service connections.

Terms & Abbreviations Used Below:

Maximum Contaminant Level Goal:	(MCLG) is the 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) is the 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) is the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
ppm or mg/L:	parts per million or milligrams per liter (corresponds to one penny in \$10,000)
ppb or ug/L:	parts per billion or micrograms per liter (corresponds to one penny in \$10,000,000)
pCi/l:	picoCuries per liter (a measure of radiation)
ND:	Not Detected

Drinking Water Contaminants

In order to ensure that tap water provided by public and private water systems is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants which may be present in the water. Federal and State laws require testing of your water for many different types of contaminants, including those for which there are no drinking water standards (unregulated contaminants). In our effort to supply our customers with the safest possible product, PUCI's water is disinfected and monitored daily.

The tables below list the contaminants that we are required to test for. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. The data in the following tables is accompanied by the year during which the testing was done. The first table includes the contaminants that our consumers appear most concerned about.

Regulated Contaminant	MCL	MCLG	Highest Detected Contaminant Level	Range of Detected Contaminant Levels	Sample Date	Violation	Typical Source(s)
From Wells							
Chromium	0.1 mg/L	0.1 mg/L	0.004 mg/L	ND – 0.004 mg/L	08/30/2011 ^a	No	Erosion of natural deposits
Maximum Content Level							
From Distribution System	Action Level	Maximum Content Level	Range of Detection		Sample Date	Violation	Typical Source(s)
Copper	1.3 ^b ppm	1.3 ppm	Not applicable		June 2009	No	Corrosion of household plumbing systems

^a PUCI is required to monitor for this contaminant on a three-year cycle. The reported samples are from the three-year cycle which includes the years 2009, 2010 and 2011.

^b The 90th Percentile Copper value is 0.17 ppm. The highest concentration of lead or copper in tap water that is exceeded by 10 percent of the sites sampled during a monitoring period. This value is compared to the lead action level (AL) to determine whether an AL has been exceeded.

<u>Radiological</u> Gross Alpha (2005)	Gross Beta (2005)	Radium 228 (2005)	Uranium (2005)
<u>Microbiological</u> Total Coliform Bacteria (2011)			

Inorganics			
Antimony (2011)	Cadmium (2011)	Fluoride (2011)	Nitrite (as Nitrogen) (2011)
Arsenic (2011)	Chromium (2011)	Lead (2011)	Selenium (2011)
Asbestos (2004)	Copper (2011)	Mercury (2011)	Sodium (2011)
Barium (2011)	Cyanide (2011)	Nitrate (as Nitrogen) (2011)	Thallium (2011)
Beryllium (2011)			
Volatile Organics (all done in 2009)			
Benzene	1,1-Dichloroethylene	Styrene	1,2,3 Trichloropropane (TCP)
Carbon Tetrachloride	cis-1,2-Dichloroethylene	Tetrachloroethylene (PCE)	TTHMs (total trihalomethanes)
Chlorobenzene	trans-1,2-Dichloroethylene	1,2,4-Trichlorobenzene	Toluene
o-Dichlorobenzene	1,2-Dichloropropane (DCP)	1,1,1- Trichloroethane	Vinyl Chloride
p-Dichlorobenzene	Dichloromethane	1,1,2-Trichloroethane	m-Xylene
1,2-Dichloroethane	Ethylbenzene	Trichloroethylene	o-Xylene
	HAA (Haloacetic Acid)		p-Xylene
Synthetic Organics			
2, 4, 5-TP (2008)	Arochlor 1254 (2007)	Dibromochloropropane (DBCP) (2009)	Hexachlorobenzene (2007)
2,3,7,8-TCDD (Dioxin) (2008)	Arochlor 1260 (2007)	Dinoseb (2008)	Hexachlorocyclopentadiene (2007)
2,4-D (2009)	Atrazine (2007)	Diquat (2008)	Lindane (2007)
Alachlor (2007)	Benzo(a)pyrene (2008)	Endothall (2008)	Methoxychlor (2007)
Arochlor 1016 (2007)	Carbofuran (2007)	Endrin (2007)	Oxamyl (Vydate) (2007)
Arochlor 1221 (2007)	Chlordane (2007)	Ethylene Dibromide (EDB) (2009)	Pentachlorophenol (2008)
Arochlor 1232 (2007)	Dalapon (2008)	Glyphosate (2008)	Pichloram (2008)
Arochlor 1242 (2007)	Di(2-ethylhexyl) adipate (2008)	Heptachlor (2007)	Simazine (2007)
Arochlor 1248 (2007)	Di(2-ethylhexyl)phthalate (2008)	Heptachlor Epoxide (2007)	Toxaphene (2007)
Haloacetic Acids (Dibromoacetic acid, Dichloroacetic acid, Monochloroacetic acid, Monobromoacetic acid, and Trichloroacetic acid) (2011)			
Total trihalomethanes (bromodichloromethane, bromoform, chloroform, and dibromochloromethane) (2011)			

UNREGULATED CONTAMINANTS

Aldicarb (2007)	Carbaryl (2007)	Metribuzin (2007)
Aldicarb sulfone (2007)	Dieldrin (2007)	Nickel (2011)
Aldicarb sulfoxide (2007)	3-Hydroxycarbofuran (2007)	Propachlor (2007)
Aldrin (2007)	Methiocarb (2007)	Propoxur (2007)
Butachlor (2007)	Methomyl (2007)	Sulfate (2011)
	Metolachlor (2007)	

In 2011 these contaminants were not detected in your drinking water system. All drinking water analyses have been performed in accordance with federal and state drinking water requirements.

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

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, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

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 your water poses a health risk. More information about contaminants and potential health affects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Information on Violations of National Primary Drinking Water Rule (NPDWR)

There have been no system violations nor any individual sampling deficiencies found in PUCI's Coliform/Bacteriological, the chemical, or the lead and copper monitoring programs.

EPA's brochure, "Water on Tap", a consumer's guide to the nation's drinking water, provides answers to frequently asked questions and also stresses the need for all of us to be responsible for water quality and protecting the resource from potential contamination. The U.S. Environmental Protection Agency and the Hawaii State Department of Health encourages consumers to become involved citizens and participate in maintaining high quality drinking water. For more information on how to become more involved with water protection, call EPA's hotline at (800) 426-4791.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly. You can do this by posting this notice in a public place or distributing copies as you choose.

For more information, please contact Michael Loo, PUCI Manager, at (808) 826-6100, extension 20.

**For more information please visit our website
 PrincevilleUtilities.com
 and go to the section entitled "Documents".**



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WATER QUALITY REPORT
 for
2011