

2016 Water Quality Report

South Bainbridge Water System; Department of Health ID # 81451M

Issued June 2017

This is the 2016 Consumer Confidence Report (CCR) for the South Bainbridge Water System. It summarizes information about the system and water quality tests conducted during 2016. We hope it provides you with a better understanding of your drinking water system and the steps we take to ensure the safety of its water.

First off, some “mandatory language” from the United States Environmental Protection Agency...

In requiring an annual report of water quality, the U.S. EPA mandated certain language be included. Insofar as this language is general and not specific to your system, let's get it out of the way now:

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.

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's Safe Drinking Water Hotline (800-426-4791).

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 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).

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. Kitsap PUD 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>.

So, about your system...

To monitor water quality, Kitsap PUD conducts a wide range of tests according to schedules stipulated by the U.S. EPA and Washington State Department of Health. On the other side of this page is a summary of water quality for your system. Just as the EPA mandates specific “language” for this report, they also mandate reporting of only particular results. Specifically, they require utilities to only report those “regulated” compounds that were detected through the previous year's sampling. These results are contained in the Table of Detected Contaminants that appears on the reverse.

Water Use Efficiency

In 2016, the South Bainbridge Water System “produced” 118,748,416 gallons of water and “sold” 92,115,097 gallons. 26,633,319 gallons, or approximately 22.4% of produced water, were lost through unmetered avenues (which include fire hydrant use, main breaks, system leakage). Kitsap PUD's goal is to maintain unmetered quantities at less than 10% of produced quantities. KPUD will conduct additional leak detection on the South Bainbridge system in 2017.

Table of Detected Compounds

Compound	Date	Common Sources	MCLG	MCL	Result	Violation?
Total Trihalomethane	8/19/2016	By-product of drinking water chlorination	0	80 ppb	5.1 ppb	No
Halo-Acetic Acids	8/19/2016	By product of drinking water chlorination	0	60 ppb	2.8 ppb	No
Nitrate	4/5/2016	Runoff from fertilizer use; leaking from septic tanks, sewage; erosion of natural deposits	10 ppm	10 ppm	0.40 ppm	No
Gross Alpha	4/5/2016	Erosion of natural deposits	0	15 pCi/L	4.65 pCi/L (average)	No
Radium 228	4/5/2016	Erosion of natural deposits	0	5 pCi/L	0.35 pCi/L (average)	No
Sodium	4/5/2016	erosion of natural deposits; urban runoff; seawater intrusion	NA	NA	10.1 ppm	No
Total Coliform Bacteria	1/2016 and 9/2016	Naturally present in the environment	0	presence of coliform bacteria in $\geq 5\%$ of monthly samples	Two routine sample and no repeat samples tested positive for total coliform.	Yes*

- Coliforms are bacteria which are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems. In response, Kitsap PUD flushed a section of the system and resampled. Subsequent samples tested free of coliform bacteria.

Important Definitions:

MCL: Maximum Contaminant Level; the highest level of a contaminant that is allowed in drinking water

MCLG: Maximum Contaminant Level Goal; the level of a contaminant in drinking water below which there is no known or expected risk to health

ppm: parts per million

ppb: parts per billion

AL: Action Level; the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow

PCi/L: picocuries per liter; a measure of radioactivity

NTU: nephelometric turbidity units

Umhos/cm: micromhos per centimeter; a measure of conductivity

About Kitsap Public Utility District...

Kitsap Public Utility District's Board of Commissioners meets on the second and fourth Tuesday of every month at our office in Poulsbo. Meetings usually begin at 9:30 AM. The public is welcomed. For more information about your water system, or about Kitsap's water resources in general, visit our website at www.kpud.org

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