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## 2017 WATER QUALITY DATA RESULTS

### CHELAN COUNTY PUD MAIN SYSTEM

SUBSTANCE	HIGHEST LEVEL ALLOWED (MCL*)	HIGHEST LEVEL DETECTED	VIOLATION (YES / NO)	POTENTIAL SOURCES
<b>REGULATED AT THE PUMPHOUSE</b>				
Barium (ppm)	2	.025	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	4	<0.2	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (ppm)	10	.17	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Chloride (ppm)	250	1.3	No	Variable and dependent on chemical composition of water
Sulfate (ppm)	250	11	No	Erosion of natural deposits; mine drainage wastes
Conductivity (umhos/cm 25 deg.)	700 umhos/cm 25 deg.	172 umhos/cm 25 deg.	No	Presence of ions; on their total concentration, mobility and on the temperature of measurement
Total Dissolved Solid (ppm)	500	94	No	Matter suspended or dissolved in water
Hardness (mg/l)	Not Regulated	79.2 (mg/l)	Not Regulated	High concentration of calcium and magnesium ions.
Total Trihalomethanes (TTHM)	80	6.7	No	By-product of drinking water chlorination
Total Haloacetic (HAA5)	60	2.5	No	By-products of drinking water chlorination
<b>REGULATED AT THE CUSTOMER'S TAP</b>				
Copper (ppm)	(AL) 1.3	.64	No	Erosion of natural deposits; leaching from wood and corrosion of household plumbing
Lead (ppb)	(AL) 15	2.3	No	Corrosion of household plumbing systems; erosion of natural deposits

### CONTAMINANTS THAT MAY BE PRESENT IN THE WATER BEFORE WE TREAT IT 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 a variety of sources such as agriculture, urban storm water runoff and residential uses.*
- *Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff and septic systems.*
- *Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.*

# Water Quality

## 2017 ANNUAL REPORT



CHELAN COUNTY  
www.chelanpud.org

### En Español

*Este reporte contiene información muy importante sobre el suministro de agua potable de Chelan PUD. Para preguntas o más información en español llame al (509) 663-8121.*

**Quality water is essential to our community.  
We take pride in ensuring that our customers have  
the highest quality water possible.**

### TERMS YOU MAY SEE INSIDE:

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water.

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

**ppm or mg/l:** parts of contaminant per million parts of water or milligrams per liter.

**ppb:** parts of contaminant per billion parts of water or milligrams per liter.

**pCi/l:** measure of radioactivity expressed as one-trillionth of a curie per liter of water.

**<(0.001):** Means LESS than a number. It also indicates that the compound was not detected in the sample at or above the concentration indicated.

### TERMS SIMPLY STATED:

<b>Parts per million (ppm)</b>	<b>Parts per billion (ppb)</b>
3 drops in 42 gallons	1 drop in 14,000 gallons
1 second in 12 days	1 second in 32 years
1 penny in \$10,000	1 penny in \$10,000,000
1 inch in 16 miles	1 inch in 16,000 miles

# 2017 WATER QUALITY REPORT

## CHELAN COUNTY PUD

### WATER QUALITY DATA RESULTS

This report describes the quality of Chelan County PUD's drinking water, the source, and the programs that protect our water quality. This publication complies with the federal law that requires water utilities to provide water quality information to customers every year. Environmental Protection Agency (EPA) regulations limit the amount of certain contaminants in water provided by public water systems, and the table on the back page lists the contaminants that were found in Chelan County PUD's water system.

Safe drinking water is essential to our community. Providing safe drinking water is a complex business. The PUD's Water Department tests your water regularly through a certified laboratory. State and federal regulators routinely monitor our compliance and testing protocols to ensure the delivery of safe drinking water to our customers. In the last three years, the water department has conducted more than 200 tests for over 500 drinking water contaminants. Only 10 contaminants were detected (see back) and none exceeded levels allowed by the state. The District's water department meets all state and federal standards and has no violations of water quality standards for this water system.

### COLIFORM MONITORING VIOLATION

Chelan County PUD is required to monitor the drinking water for specific contaminants on a regular basis. Results of regular monitoring indicate whether your drinking water meets health standards. During October 2017, Chelan County PUD collected two (2) fewer samples than we were required. Therefore, we did not completely verify the quality of your drinking water during that time. Chelan County PUD collected the required 15 routine coliform samples for the month of November 2017 and the lab found no coliform bacteria. At this time there is no action required by the customers.

### LEAD

In Washington State, lead in drinking water comes primarily from materials and components used in household plumbing. The more time water has been sitting in pipes, the more dissolved metals, such as lead, it may contain. Elevated levels of lead can cause serious

health problems, especially in pregnant women and young children. To help reduce potential exposure to lead: for any drinking water tap that has not been used for 6 hours or more, flush water through the tap until the water is noticeably colder before using for drinking or cooking. You can use the flushed water for watering plants, washing dishes, or general cleaning. Only use water from the cold-water tap for drinking, cooking, and especially for making baby formula. Hot water is likely to contain higher levels of lead. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water is available from EPA's Safe Drinking Water Hotline at 1-800-426-4791 or online at <http://www.epa.gov/safewater/lead>.

## DISTRICT'S MAIN WATER SYSTEM

### WHERE DOES YOUR WATER COME FROM?

Chelan County PUD's main water system is a groundwater source pumped by four wells over 200 feet deep. This source, referred to as the Eastbank Aquifer, has excellent water quality and quantity. It serves Chelan PUD, City of Wenatchee, and East Wenatchee Water District customers through a regional pipeline. Chlorine is added for disinfection at the well site, located east of Rocky Reach Dam. The District withdraws water from the regional pipeline at two source pumping stations. This water is delivered to customers from approximately 650 feet elevation to over 3,500 feet. Major infrastructure includes 24 storage reservoirs with a combined volume of 8.5 million gallons, 16 booster pump stations, and approximately 180 miles of pipelines. Water usage totals approximately 700 million gallons annually.

### WATER CONSERVATION

The District updated its water use efficiency program in 2016 and adopted goals for its retail water systems. The goal set for the Wenatchee system is to maintain the 3-year residential average day demand at less than 210 gallons per connection per day through the year 2022. The goal has been met with an actual 2015-2017 demand of 193 gallons per connection per day.

The District has implemented several water use efficiency measures to support achieving conservation goals. These include programs such as Xeriscape (drought-tolerant) landscaping and customer leak detection and notification. A complete description of water use efficiency measures and water rates is available on the District's website at [www.chelanpud.org](http://www.chelanpud.org)

### BACKFLOW PREVENTION AND HAZARDS AT HOME

Chelan County PUD works hard to protect your drinking water from contamination. This effort begins where your water is collected and continues through the entire distribution process.

How many times have you put a garden hose in a bucket of soapy water to wash the car, sprayed insecticide with a garden hose sprayer, or attached a hand sprayer to the kitchen faucet to wash your hair or the dog? These seemingly harmless actions create cross connections that could endanger the health and safety of you, your family and your neighbors.

The danger comes when the hose comes in contact with a harmful substance. If the pressure in the water main drops while the hose is submerged in contaminated water, then the water (and whatever is in it) could be siphoned back into your pipes and the drinking water supply.

Water pressure drops are not uncommon. They can occur when hydrants are opened to fight fires or during repairs to a broken water main.

Fortunately, you can install different types of backflow assemblies for protection. This will help prevent backflow from happening and keep your water safe from contaminants. Contact the water department for more information.

### MORE INFORMATION AVAILABLE

Drinking water, including bottled water, may reasonably be expected to contain 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 contacting the Environmental Protection Agency (EPA).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people such as those with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, and 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 (1-800-426-4791) or EPA's website at <http://www.epa.gov/safewater>.

## GO PAPERLESS

Sign up for email notification and view your water quality report online.

To sign up for e-delivery or view current reports, go to [chelanpud.org/water-quality.html](http://chelanpud.org/water-quality.html).



### CUSTOMER VIEWS WELCOME

Chelan County PUD commissioners meet at 10 a.m. and 1 p.m. every 1st and 3rd Monday at the PUD Headquarters building. These meetings are open to the public.

If you have questions or comments about the information in this report, please call Chelan County PUD's Water Department at 661-4254. We welcome your interest in the PUD's water system.