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2024

WATER

QUALITY

DATA

RESULTS

CHELAN

COUNTY

PUD MAIN

WATER

SYSTEM

PWS ID 122845

SUBSTANCE	HIGHEST LEVEL ALLOWED (mcl, al, smcl)	HIGHEST LEVEL DETECTED	VIOLATION (YES / NO)	POTENTIAL SOURCES
REGULATED AT THE PUMPHOUSE				
Fluoride (ppm)	4 (mcl)	<0.2	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (ppm)	0.171 (mcl)	<.14	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Conductivity (umhos/cm 25 deg.)	700 (smcl)	170	No	Presence of ions; on their total concentration, mobility and on the temperature of measurement
Total Dissolved Solid (ppm)	500 (smcl)	115	No	Matter suspended or dissolved in water
Hardness (mg/l)	Not Regulated	73.6 (mg/l)	Not Regulated	High concentration of calcium and magnesium ions.
Total Trihalomethanes (TTHM) (ppb)	80 (mcl)	12.41	No	By-product of drinking water chlorination
Total Haloacetic (HAA5) (ppb)	60 (mcl)	4.38	No	By-products of drinking water chlorination
REGULATED AT THE CUSTOMER'S TAP				
Copper (ppm)	1.3 (al)	0.71	No	Erosion of natural deposits; leaching from wood and corrosion of household plumbing
Lead (ppb)	15 (al)	0.011	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

2024 ANNUAL REPORT

CHELAN COUNTY PUD MAIN WATER SYSTEM

Quality water is essential to our community.



CHELAN COUNTY

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.

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 micrograms 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.

Secondary Maximum Contaminant Level (smcl): These standards are developed to protect the aesthetic qualities of water and are not health based.

We take pride in ensuring that our customers have the highest quality water possible.



TERMS SIMPLY STATED:

Parts per million (ppm):

3 drops in 42 gallons

1 second in 12 days

1 penny in \$10,000

1 inch in 16 miles

Parts per billion (ppb):

1 drop in 14,000 gallons

1 second in 32 years

1 penny in \$10,000,000

1 inch in 16,000 miles

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 9 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.

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 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

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WATER
QUALITY
REPORT



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 750 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 2022–2024 demand of 186 gallons per connection per day.

The District has implemented several water use efficiency measures to support achieving conversation 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.

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.

DID YOU KNOW THAT TOO MUCH
WATER PRESSURE CAN DAMAGE YOUR
HOUSEHOLD PLUMBING?

Chelan County PUD’s water system pressure can be high because of hilly terrain in the areas we serve. Pressure exceeds 80 pounds per square inch (psi) for about 75% of our customers and can even exceed 200 psi for some homes and buildings.

The Uniform Plumbing Code requires that when available water pressure exceeds 80 psi, homes and buildings install a pressure reducing valve (PRV). It is the customer’s responsibility to install a PRV.

- If your home already has a PRV, we suggest you check your household pressure occasionally and maintain or replace the PRV as needed. Service parts are available for most major brands.
- If you are uncertain, we encourage you to find out if your home has or needs a PRV.
- The PRV is normally located near the main shutoff valve. The PRV may also be located in the crawlspace or in an underground vault outside.
- If you are uncertain about next steps, please contact your local plumber.
- To find out the available pressure to your home, email ContactUs@chelanpud.org and include your property address

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. Immuno-compromised 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

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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

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 www.epa.gov/safewater.

The Washington Department of Health has complied Source Water Assessment Program (SWAP) data for all community PWSs in Washington. SWAP data can be viewed online at <https://www.doh.wa.gov/CommunityandEnvironment/DrinkingWater/SourceWaterProtection/Assessment.aspx>

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 509-661-4254. We welcome your interest in the PUD’s water system.

