

2023 Water Quality Report

Pilchuck Riviera Water District NO. 1

This report is designed to inform you about your drinking water and summarize the findings of the City of Everett's 2022 water quality analysis results. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to know where your water comes from, how it is treated, and what substances are in it.

Your drinking water comes from Spada Reservoir, located about 30 miles east of Everett. From Spada Reservoir, water travels to the city of Everett's treatment plant at Chaplain Reservoir. The water is then treated with advanced filtration and disinfection before being delivered to your tap.

On the following pages are the City of Everett's 2023 analysis results. The tables list the results for substances the city tested for during the period of January 1st to December 31st, 2023. Definitions are included.

Drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk. More information about contaminants can be obtained by calling EPA's Safe Drinking Water Hotline at 1.800.426.4791 or by visiting the website www.epa.gov/ogwdw.

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 microbiological contaminants are available from the Safe Drinking Water Hotline 1.800.426.4791.

In 2023, your drinking water was tested routinely for hundreds of different contaminants according to Federal and State laws. The key information is this: **your drinking water meets or exceeds all government standards**. We want our valued customers to be informed about their water utility. If you have any questions about this report or concerning your water utility, please contact Chris Gott – certified operator at (425) 508-3295.

Water systems are required to set and update water saving goals every six years. Pilchuck Riviera Water has set a six-year goal to reduce water use to 137 GPD/connection by year 2028. Last year Pilchuck Riviera Water consumers used 1,978,064 gallons of water, decreasing water use by 49 GPD/connection. Some of this decrease was due to water leaks found & repaired on consumer connections. In 2023 Pilchuck Riviera Water customers used an average of 132gpd/connection and has surpassed the six-year goal, (**GOOD JOB EVERYONE**). We all need water to live. We use it in so many different and useful ways. Let's all do our part to conserve and protect it.

Following is the 2024 rate structure.

Monthly Rate:

First 500 Cu. Ft., (0-500 Cu. Ft.)	\$46
Next 500 Cu. Ft., (500-1,000 Cu. Ft.)	\$4 per 100 Cu. Ft.
Over 1,000 Cu. Ft.	\$5 per 100 Cu. Ft.

For more information on water quality, you can call the City of Everett's 24-hour hotline at 425.257.8821 or visit their website at www.everettwa.org/pw. You can also obtain information from the Washington State Department of Health website at www.doh.wa.gov/ehp/dw and from the EPA website at www.epa.gov/safewater.

CITY OF EVERETT

2023 Water Quality Analysis Results

Detected Regulated Contaminants

Parameter	Major source	Units	EPA regulations		Everett water results		
			Ideal MCLG level/goal	Maximum allowable (MCL)	Range or other	Average value or highest result	Comply?
Total coliform bacteria	Naturally present in the environment	% Positive	0	5% Positive per Month	None	0%	Yes
Total coliform bacteria monitoring tracks microbial quality in the water distribution system. Everett collects around 125 samples per month or 1,500 per year. No total coliforms were detected in 2023.							
Fluoride	Dental health additive	ppm	2	4	0.5–0.8	0.7	Yes
Fluoride is added to your water in carefully controlled levels for dental health.							
Residual disinfectant level (free chlorine)	Added as a drinking water disinfectant	ppm	4.0 (MRDLG)	4.0 (MRDL)	0.2–1.0	0.7	Yes
Haloacetic acids (5) (HAA5)	By-product of drinking water chlorination	ppb	N/A	60	23–42 ¹	40 ²	Yes
Total Trihalomethanes (TTHM)	By-product of drinking water chlorination	ppb	N/A	80	23–48 ¹	48 ²	Yes
Haloacetic acids and trihalomethanes form as by-products of the chlorination process that is used to kill or inactivate disease-causing microbes. The TTHM and HAA5 results are from eight locations in Everett, which are monitored to determine compliance with current regulations. ¹ Range of results taken from all eight locations. ² Highest locational running annual average of the eight sites that were monitored.							
Turbidity	Soil erosion	NTU	N/A	TT	100%	0.04	Yes
The values reported are the lowest monthly percentage of samples that met the EPA turbidity limit and the highest four-hour combined water turbidity measurement obtained during the year. The EPA 0.3 NTU. In 2023, no filtered water turbidity results exceeded 0.3NTU so the lowest percentage that met the EPA limit was 100 percent. The plant targets production of filtered water turbidities of 0.10 NTU or less.							

Detected Unregulated Contaminants

Parameter	Units	Ideal MCLG level/goal	Everett water results	
			Range detected	Average value
Bromodichloromethane	ppb	0	1.1–2.3	1.6
Chloroform (trichloromethane)	ppb	70	22–47	30
Dichloroacetic acid	ppb	0	3–19	13
Trichloroacetic acid	ppb	20	16–24	20
These substances are disinfection by-products for which no MCL standard has been set, but which must be monitored to determine compliance with the USEPA Stage 2 Disinfection By-products Rule MCLs for Total Trihalomethanes and Haloacetic acids (5).				

Lead, Copper and pH

Parameter	Major source	Units	EPA regulations		Everett water results		
			Ideal MCLG level/goal	Action level (AL)	90th % level	Homes exceeding the AL	Comply?
Lead	Plumbing, erosion of natural deposits	ppb	0	15	2	0 of 108 (0%)	Yes
Copper	Plumbing, erosion of natural deposits	ppm	1.3	1.3	0.093	0 of 108 (0%)	Yes
USEPA and state regulations require water systems to monitor for the presence of lead and copper at household taps every three years. Lead and copper monitoring is conducted by Everett and many of the water systems that it supplies in the combined service area as a regional group. The above data was collected in 2021. The next required round of sampling will be in 2024. The 90 th percent level is the highest result obtained in 90 percent of the samples collected when the results are ranked in order from lowest to highest. In the past, the results for water tested before it enters household plumbing were even lower than the tap results. This indicates that there is virtually no lead or copper in the water, but household plumbing may contribute to lead and copper at the tap.							
pH	Soda ash is added to reduce water corrosivity by increasing pH and alkalinity	s.u.	Daily Avg 7.6	Min Daily Avg 7.3	Average 7.6	Minimum 7.1	Yes
The Washington State Department of Health requires Everett to operate corrosion control treatment at or above a minimum daily average pH of 7.4. Everett measures pH six times per day (once every four hours). The average daily pH cannot be below 7.4 for more than nine days every six months. In 2023, the average daily pH was below 7.4 for one day from the east clearwell discharge point.							

The USEPA drinking water regulations require this statement be included with the lead and copper sampling results, regardless of the levels observed.

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. The City of Everett Utilities Division 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 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 Safe Drinking Water Hotline 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Required Treatment Polymer Statement:

During water treatment, organic polymer coagulants are added to improve the coagulation and filtration processes that remove particulates from water. The particulates that are removed can include viruses, bacteria and other disease-causing organisms. The USEPA sets limits on the type and amount of polymer that a water system can add to the water. In addition to the EPA limits, the State of Washington requires that all polymers used be certified safe for potable water use by an independent testing organization (NSF International). During treatment, Everett adds only NSF approved polymers and the levels used are far below the safe limits set by the USEPA.

Required Definitions:

Turbidity – Turbidity is a measure of particulates suspended in water in nephelometric turbidity units (NTU) and is used to determine effectiveness of the treatment process. Particulates in water can include bacteria, viruses and protozoans that can cause disease.

Maximum contaminant level goal (MCLG) – 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) – 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 water treatment technology.

Maximum residual disinfectant level (MRDL) – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum residual disinfectant level goal (MRDLG) – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Treatment Technique (TT) – A required process intended to reduce the level of a contaminant 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.

Parts per million (ppm)/ Parts per billion (ppb) – A part per million means that one part of a particular contaminant is present for every million parts of water. Similarly, parts per billion indicate the amount of a contaminant per billion parts of water.

Not applicable (N/A) - Means EPA has not established MCLGs for these substances.

Voluntary Information:

Parameter	Units	Everett water results	
		Range detected	Average value
Alkalinity ^{1,2}	ppm	13.0–23.1	16.3
Aluminum ¹	ppm	0.006–0.036	0.02
Arsenic ³	ppb	<0.1–0.2	0.1
Calcium Hardness ^{1,2}	ppm	7.6–13.9	9.6
pH ¹	s.u.	7.6–9.2	8.1
Sodium ³	ppm	5.78–6.57	6.14
Total Hardness ^{1,2}	ppm	9.9–15.7	12.2
¹ Results from samples collected from 26 locations in the Everett distribution system. ² Hardness and alkalinity units are in ppm as CaCO ₃ (calcium carbonate equivalent units). ³ Arsenic and Sodium were monitored at the treatment plant effluent.			

Unregulated Contaminant Monitoring Rule 5 (UCMR5)

The City collected quarterly samples at the entry point to the water distribution system according to the Fifth Unregulated Contaminant Rule (UCMR5). These samples were tested for 29 per- and polyfluoroalkyl substances (PFAS) and lithium. No PFAS or lithium were detected. The full results for the UCMR5 are available at everettwa.gov/WQsummary.