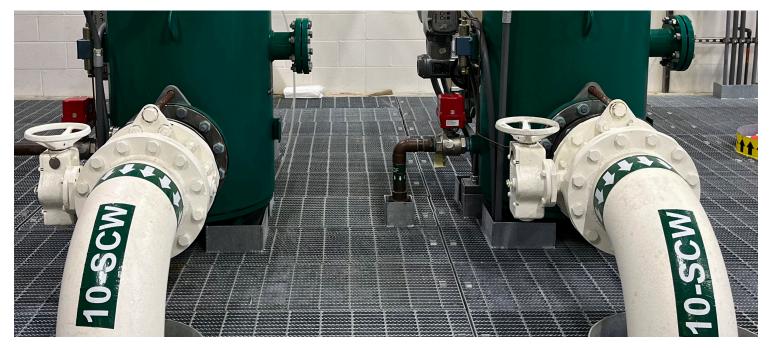
# City of Port Townsend

# **2023 ANNUAL DRINKING WATER REPORT**



The City of Port Townsend is pleased to present our 2023 Annual Water Quality Report. This report is an overview of the high-quality water supplied to residents and visitors of Port Townsend and contains results from water samples collected throughout the year.

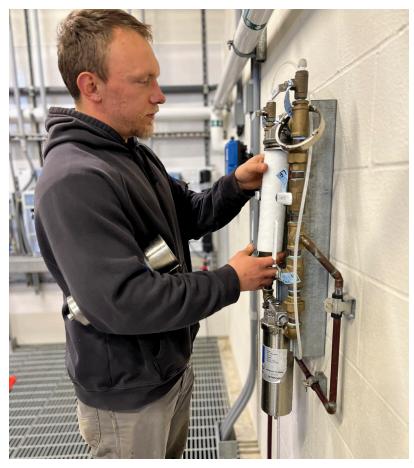
Water testing in 2023 shows that Port Townsend's drinking water meets all State and Federal regulatory standards. By denition, Washington State rates all surface water as highly susceptible to contamination. Our treatment process utilizes ultra- ltration membranes for contaminant removal and chlorine is added as a disinfectant. Studies have shown that this type of treatment is eective in pre venting waterborne illness. Our highly skilled, state certi ed operators are committed to provide safe, clean water through multi-barrier protection from the source (Olympic Mountains) to the tap. After treatment, the nished water is distributed to our customers via the one hundred plus miles of well-maintained water distribution pipeline.

## WATER SOURCES

The City's water supply (System ID # 69000R) is surface water from the Big Quilcene and the Little Quilcene Rivers. These rivers are located in the northeast corner of the Olympic National Forest. Our water is stored in two reservoirs, Lords Lake and City Lake. The City has worked in cooperation with the U.S. Forest Service for over 90 years to manage and protect our municipal watershed and maintain high quality source water. More information on Source Water is available through the Source Water Assessment Program (SWAP). Visit: *tinyurl.com/mpza5cs4*.



Top: Pre-Itration screens at the Water Treatment Facility. Above: Operator servicing a chlorine pump.



Above: Operator performing preventative maintenance at the Water Treatment Facility. Below: Membrane filtration equipment.

To ensure tap water is safe to drink, the Department of Health and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration (FDA) and the Washington Department of Agriculture regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

## WATER USE EFFICIENCY REPORT

The efficient use of water ensures reliable, safe water is available to our customers and it is essential to benefit our environment. In 2023, the City delivered an average of 1,016,992 gallons of water per day to our more than 11,000 customers and visitors. Residential consumption averaged 57 gallons per person, per day. Total City consumption for 2023 was 371 million gallons. Distribution system leakage (DSL) was 8.3% for the year and 7.8% for the three-year annual average, which continues to meet the standards set by the state. DSL or unaccounted for water can be things such as use of fire hydrants, leaking underground pipes or under registering water meters. The City replaced 113 older meters in 2023 with a newer model featuring increased reliability and accuracy. We are continually working to improve water use efficiency, accountability and conservation.

## YOUR HEALTH AND SAFETY

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 {1-800-426-4791}. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA 's Safe Drinking Water Hotline {1-800-426-4791}. 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.

#### Contaminants that may be present in source water include:

**Inorganic contaminants,** such as salts and metals, which may be naturally occurring.

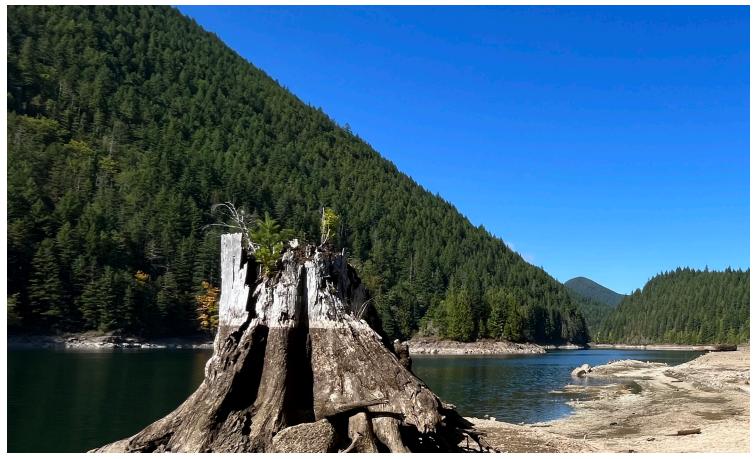
Pesticides and herbicides, which may come from sources such as forestry management. Organic chemical contaminants, including synthetic and volatile organic chemicals, which can come from vehicles in the watershed or that result from chlorine combining with naturally occurring organic matter. **Radioactive contaminants,** which can occur naturally or result from oil and gas production and mining activities. *Microbial contaminants,* such as viruses, protozoans, and bacteria, which may come from wildlife, people and pets visiting the watershed.



# WATER SAMPLING RESULTS

Water quality sampling results are for the monitoring performed January 1 - December 31, 2023, unless otherwise noted in the tables. Sampling for certain contaminants occurs less than once per year because concentrations of these contaminants are not expected to vary significantly from year to year. While the City tests for more than eighty regulated contaminants, the substances listed in the following tables were the only ones detected in our water or they are sampled frequently due to potential for contamination.

	Sample Date, Frequency	Detected Levels	Units	MCL/MCLG	Violation	Typical Source
Microbiological	riequency	Levels	I			
Total Coliform Bacteria	15 samples per month	0	NA	Contaminant Present	No	Naturally present in the environment
There were zero colifo	orms present in t	he 180 samples take	n throug	hout the distribu	tion system in	2023.
Turbidity	Continuous	0.012-0.027	NTU	TT	No	Soil runoff
				ause it is a good i	ndicator of th	e effectiveness of our filtration system.
100% of our turbidity Disinfection Residua		thin specified limits.				
Chlorine	Continuous	0.31-1.18	ppm	4	No	Water additive used to control
Disinfection By-Pr	oducts					microbes
Haloacetic Acids	Quarterly	**15-42.1	nnh	60	No	By-product of drinking water
Halbacetic Acius	Quarterly	***LRAA 30.3	ppb	00	NO	chlorination
Total Trihalomethanes	Quarterly	**17.8-47.7 ***LRAA 38.6	ppb	80	No	By-product of drinking water chlorination
	r containing chlo iscomfort.				-	ection of our drinking water. Some g effect to their eyes and nose and may
	0					
Lead	July 2022	4	ppb	15	No	Corrosion of plumbing in
	-	4 (90 <sup>th</sup> Percentile)	ppb		No	Corrosion of plumbing in certain homes
Lead	July 2022 every 3 years July 2022		ppb ppm	15 1.3	No No	
Lead 30 sites sampled Copper 30 sites sampled	July 2022 every 3 years July 2022 every 3 years	<ul><li>(90<sup>th</sup> Percentile)</li><li>0.26</li><li>(90th Percentile)</li></ul>	ppm	1.3	No	certain homes Corrosion of plumbing in certain homes
Lead 30 sites sampled Copper 30 sites sampled If present, elevated le water is primarily fro providing high quality	July 2022 every 3 years July 2022 every 3 years evels of lead can m materials and y drinking water ater, you may wi	(90 <sup>th</sup> Percentile) 0.26 (90th Percentile) cause serious health components associa but cannot control t sh to have your wate	ppm problem ted with he variet r tested.	1.3 ns, especially for p service lines and cy of materials use Information on l	No pregnant won home plumbin ed in plumbin ead in drinkin	certain homes Corrosion of plumbing in certain homes nen and young children. Lead in drinking ng. Port Townsend is responsible for g components. If you are concerned g water, testing methods, and steps you
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Lords Lake Reservoir in late summer.

#### DEFINITIONS FOR TERMS USED IN THIS REPORT

Action Level (AL): The

concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.

Lead and Copper 90th Percentile: Out of every 10 homes sampled, 9 were at or below this level. Locational Running Annual Average (LRAA): Highest quarterly average of four

samples taken at the four sampling locations. 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 treatment technology. 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. Million Fibers per Liter (MFL): Used to measure asbestos,

which exists as tiny fibers.

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. NA: Not Applicable ND: Not Detected or below State Reporting Limit. NTU: Nephelometric Turbidity Units - a measure of the cloudiness of the water. ppb: Parts per billion or micrograms per liter (µg/L). ppm: Parts per million or milligrams per liter (mg/L). Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

#### Connect with us about your drinking water

The public is invited to participate in decisions that affect drinking water through comment to the Port Townsend City Council. Information about scheduled meetings is available through the City Clerk's Office: 360-385-5083 or cityofpt.us. If you have additional questions about drinking water or would like a complete list of substances for which we test, call Water Resources at 360-379-5001 or visit <u>cityofpt.us/Water.</u>