

A close-up photograph of a person's hand held palm-up, with water and bubbles dripping from it. The hand is positioned over a white ceramic sink. The background shows a glimpse of blue water, possibly from a faucet. The overall image conveys a sense of clean, fresh water.

RYDERWOOD 2024 DRINKING WATER QUALITY REPORT

Water System ID # 75100N



Water Quality Summary

The following report provides detailed information concerning the Ryderwood Water System which serves the Ryderwood community. This information is required to be reported to our customers by the US EPA and the Washington Department of Health. This report contains information about the results of samples collected from January 1, 2024 through December 31, 2024. The Ryderwood Water System provides domestic drinking water to 296 customers. This system met or exceeded all federal and state drinking water standards and requirements during 2024. This report is provided to each of the customers via paper copy upon request and at the Cowlitz County website (www.co.cowlitz.wa.us/1520/consumer-Confidence-Reports). If you have any questions about this report or the water system, please contact Cowlitz County at (360) 577 – 3030 or via email at publicworks@cowlitzwa.gov or the Department of Health Southwest Region at (360) 236-3030.

Water Source and Treatment Information

Water Source: The water system withdraws water from Campbell Creek at an intake dam located approximately one-half mile upstream of the community. The water quality of the Campbell Creek is very good. The system withdraws water at an average rate of 100 gallons per minute and a water right to withdraw a maximum flow of 157 gallons per minute.

Treatment: The source water is filtered and disinfected at the water treatment plant located at the southeast corner of the community. Alum, soda ash and a polymer filter aid are added to the source water as it enters the treatment plant. These chemicals create a FLOC that catches contaminants with the water. This creates a larger heavier particle that will settle out of the water in the settling tank or be trapped in the filter tank, which consists of a layer of anthracite coal placed over a layer of silica sand and a layer of special high-density sand. A turbidity meter is used to monitor the clarity of the water after it has passed through the filter. The final treatment process is the addition of chlorine as a disinfectant. Sufficient chlorine is added to kill any bacteria that have passed through the filter and to maintain a residual level of chlorine in the distribution system.

Sampling: Your water is sampled on a regular basis according to both State and Federal regulations, The purpose of the sampling is to ensure that treatment methods are adequate. It also ensures that harmful substances don't exceed regulated levels and identifies if they are present or entered the water supply.



Water Quality Monitoring Results

The table below represents the analytical results of water samples collected from your system. There was no fecal coliform bacteria present in the water entering the distribution system. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

Element	Sample Date	Violation	Range Detected	Unit	MCLG	MCL	Typical Source
THMs	5/29/25	N	16.2	Ppb	NA	80	By-product of drinking water chlorination
HAA5s	5/29/25	N	15.4	Ppb	NA	60	By-product of drinking water chlorination
Lead	8/6/24	N	0.001	Mg/L	NA	0.015	Corrosion from household plumbing systems
Copper	8/6/24	N	0.0484 avg. (0.003-0.161)	Mg/L	NA	1.3	Corrosion from household plumbing systems
Asbestos	8/17/21	N	<0.164	MFL	NA	7	Erosion of natural deposits
Nitrate	6/25/24		0.450	Mg/L	NA	10	Runoff from fertilizer
Iron	3/28/23	N	<0.0200	Mg/L	NA	0.3	Naturally Occurring
Gross Alpha	2/23/22	N	<3.00	PCi/L	NA	--	Erosion of natural deposits
Radium 228	2/23/22	N	<1.00	PCi/L	NA	5	Erosion of natural deposits.



Definitions

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

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.

Parts for Billion (ppb): Unit of measurement that describes the levels of detected contaminants. One part per billion corresponds to a single penny in \$10,000,000.

Million Fibers per Liter (MFL) – A measurement of the presence in water of asbestos fibers longer than 10 micrometers in length.

Picocuries per liter – A measurement of radiation.

General Information

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:

- *Microbial contaminants*, such as viruses, parasites, and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, or wildlife.
- *Inorganic contaminants*, such as salts and metals, which can occur naturally or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.
- *Pesticides and herbicides*, which may come from various sources such as agriculture, urban stormwater runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. They can also come from gas stations, urban stormwater runoff, and septic systems.
- *Radioactive contaminants*, which can occur naturally or result from oil and gas production and mining activities.



Important Information about Drinking Water

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 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 (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. Cowlitz County Public Works 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>.

Current and Upcoming Projects

Water Meter Replacement – The County is in the process of replacing all of the meters in the system. The meters are being upgraded to remote read meters. These new meters will increase the accuracy of the meter reads.

Emergency Water Reservoir – The County is in the final design phase of a new raw water reservoir to increase system reliability in the summer months. This reservoir is planned to be completed in 2026.