

Annual Drinking Water Quality Report

City of Turner 2024

We're very pleased to provide you with this year's Annual Quality Water Report. We want to keep you informed about the excellent water and services we have delivered to you over the past year. Our goal is and always has been, to provide you a safe and dependable supply of drinking water. We purchase our water from the City of Salem, which is treated surface water drawn from the North Fork of the Santiam River at Geren Island near Stayton. ***I'm pleased to report that our drinking water is safe and meets federal and state requirements.*** This report shows our water quality and what it means.

If you have any questions about this report or concerning your water utility, please contact **Aaron Bales, Public Works Director, at (503) 743-2170**. We want our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled meetings. They are held on **the 2nd and 4th Thursday each month at 7:00 p.m., at the Turner City Hall, 5255 Chicago St., Turner Or 97392**.

The City of Turner routinely monitors for constituents in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, **2024**. As water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be reasonably expected to contain at least some small amounts of constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

The City of Turner drinking water met or surpassed every public health requirement—more than 120 drinking water standards—set by the Oregon Health Authority and the EPA.

In this table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Treatment Technique (TT) - (mandatory language) A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Maximum Contaminant Level (MCL) - (mandatory language) The "Maximum Allowed" (MCL) is 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) - (mandatory language) The "Goal"(MCLG) is 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 Residual Disinfectant Level (MRDL) – (mandatory language) 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) – (mandatory language) 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.

2024 Water Quality Data from Geren Island Treatment Facility, Distribution System, and Salem Water Customers									
Test	Date Tested	Unit	MCLG (MRDLG)	MCL (MRDL)	Detected Level	Range		Violation	Major Sources
						Lowest	Highest		
Inorganic									
Fluoride	2024	ppm	4	4	Average: 0.65	0.52	0.78	NO	Erosion of natural deposits; water additive-promotes strong teeth
Copper ¹	2022	ppm	1.3	AL = 1.3	Entry Point Sample: 0.022	One Sample Collected		NO	Corrosion of household plumbing systems
Nitrate	2024	ppm	10	10	0.10	<0.050	0.20	NO	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
Nitrate-Nitrite	2024	ppm	10	10	0.10	<0.050	0.20	NO	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
Barium ¹	2021	ppm	2	2	0.0020	One Sample Collected		NO	Discharge of drilling wastes; discharge from metal refineries; Erosion of natural deposits
Copper	June – Sept. 2024	ppm	1.3	AL=1.3	90 th Percentile: 0.234 Homes exceeding: 0	<0.030	0.431	NO	Corrosion of household plumbing systems
Lead	June – Sept. 2024	ppb	0	AL =15	90 th Percentile: 2.4 Homes exceeding: 0	<0.0010	13.2	NO	Corrosion of household plumbing systems
Microbiological									
Turbidity	2024	NTU	n/a	TT	100% of samples meet turbidity standards Average: 0.08	0.04	0.60	NO	Erosion and soil runoff
Total coliform	2024	no units	n/a	TT	1,443 samples collected	None	1 positive of 120 samples or 0.8%	NO	Naturally present in the environment

<i>E. coli</i> bacteria	2024	no units	0	Routine and repeat samples are total coliform-positive and either <i>E. coli</i> -positive or the water supplier fails to collect repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i>	<i>E. coli</i> bacteria were not detected	None	None	NO	Human and animal fecal waste
Disinfection By-Products, Byproduct Precursors, and Disinfectant Residual									
Haloacetic acids	2024	ppb	0	60	Locational Running Annual Average:16.8	<0.20	42	NO	By-product of drinking water disinfection
Total Trihalomethanes	2024	ppb	0	80	Locational Running Annual Average: 14.7	5.8	29	NO	By-product of drinking water disinfection
Total Trihalomethanes	2024	ppb	0	80	Entry Point: 2.5	One Sample Collected		NO	By-product of drinking water disinfection
Haloacetic acids	2024	ppb	0	60	Entry Point:2.6	One Sample Collected		NO	By-product of drinking water disinfection
Total Organic Carbon	2024	ppm	n/a	TT	Raw Water Annual Average: 0.92	0.73	1.1	NO	Naturally present in the environment
Chlorine Residual	2024	ppm	4	4	Entry Point Average: 1.31	0.80	2.26	NO	Remaining chlorine from disinfection process
Bromate	2024	ppb	0	10	4 Samples Collected	<1.0	<1.0	NO	By-product of drinking water disinfection
Radioactive Constituents									
Gross Beta Particle Activity ¹	2023	pCi/L	40	50	1.14	One Sample Collected		NO	Certain minerals are radioactive and may emit forms of radiation

										known as photons and beta radiation. Some people who drink water containing beta particle and photon radioactivity in excess of the MCL over many years may have an increased risk of getting cancer.
Unregulated Constituents										
Sodium	2024	ppm		20 ²	8.9	8.5	9.3	NO	Erosion of natural deposits	

¹The City of Salem is required to report any detected contaminant within the last five years.

²EPA advisory level only

Microbiological Contaminants:

- (3) Turbidity. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.
- (11) Barium. Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
- (15) Copper. Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.
- (17) Fluoride. Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.
- (18) Lead. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.
- (20) Nitrate. Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
- (21) Nitrite. Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
- (24) 2,4-D. Some people who drink water containing the weed killer 2,4-D well in excess of the MCL over many years could experience problems with their kidneys, liver, or adrenal glands.
- (74) TTHMs [Total Trihalomethanes]. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

What does this mean?

As you can see by the table, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements. We have learned through our monitoring and testing that some constituents have been detected. The EPA has determined that your water IS SAFE at these levels. In addition, the Oregon Health Authority presented an award to our system for **Outstanding Performance** as a result of our last Sanitary Survey. The Sanitary Survey is an inspection of all facets of a drinking water system. This award reflects the commitment that your Water System Operators and City government have to provide safe drinking water. Your Operators continually attend training in which they earn Continuing Education Units required to maintain their licenses and to stay abreast of changes, new methods and refreshing skills to provide the City's water customers with the best possible product.

We constantly monitor various constituents in the water supply to meet all regulatory requirements.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All 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 the 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 at 1-800-426-4791.

MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

Nitrates: As a precaution we always notify physicians and health care providers in this area if there is ever a higher than normal level of nitrates in the water supply.

Lead: Lead in drinking water is rarely the sole cause of lead poisoning, but it can add to a person's total lead exposure. All potential sources of lead in the household should be identified and removed, replaced or reduced. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. 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. Info on testing methods and minimizing exposure may be found at safe drinking water hotline or at www.epa.gov/safewater/lead.

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit all our customers. These improvements are sometimes reflected as rate structure adjustments. Thank you for understanding.

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 (800-426-4791).

Please call our office if you have questions.

We at City of Turner work around the clock to provide top quality water to every tap, said Aaron Bales. This past year the City has accomplished several notable improvements to our water system. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future.