

Drinking Water Quality REPORT 2021

Public Works Department 3100 Belmont Blvd, Suite 102 West Richland, WA 99353 509-967-5434 www.westrichland.org



THE CITY OF WEST RICHLAND IS WORKING HARD TO PROVIDE

HIGH OUALITY WATER FOR YOU.

The City of West Richland is committed to providing its residents with the highest quality of drinking water. We believe the best way to ensure your drinking water is safe and reliable is to provide you with accurate information. This 2021 Drinking Water Quality Report will explain where your drinking water comes from, what substances it contains, and the treatment process. The table included with this report compares your water to the Environmental Protection Agency (EPA) and Washington State Department of Health water quality standards.

Five city groundwater wells, ranging in depth from 250 feet to 1,200 feet, and an inter-tie booster pump station with the City of Richland supplies water to the city's estimated 17,070 residents. The groundwater wells and the booster pump station have the ability to cumulatively pump up to 7,400 gallons of water per minute. Water from these sources are treated with chlorine for protection against microbial contaminants and then stored in one of the city's four reservoirs which have a total storage capacity off 4.4 million gallons. All of our treatment methods are in accordance with EPA regulations. In 2021, the City began the process of replacing Well #2 and Well #3. These Wells have both out-lived their useful life and are no longer in use. The two new Wells are scheduled to be operational by the end of 2024.

PUBLIC PARTICIPATION: City Council meetings are held on the first and third Tuesday each month at 6 p.m. in City Council Chambers, located at the Municipal Services Facility, 3100 Belmont Blvd. On occasion, items related to drinking water are discussed. These meetings are open to the public or can be seen live on Charter Channel 191. Information can also be found on the City web site at www.westrichland.org.

2021

TOTAL WATER **PRODUCED**

1,275,325,000 gal.

2021

WATER DISTRIBUTION **SYSTEM** UNACCOUNTED **FOR WATER**

1,201,300 gal.

2021

PERCENT OF UNACCOUNTED FOR WATER

[(TP - AC) / TP] x 100

9.4%

West Richland City Council passed Resolution 4-08 establishing the City's initial water use efficiency goals in January of 2008. These goals were amended by Resolution 8-16, passed by City Council on

West Richland's goals include: Maintain average water usage per equivalent residential unit (ERU) at or below 460g per day per ERU through 2022 and maintain unaccounted for water (loss) from the water distribution system at 10% or less. Based on a rolling three year average, our current 3 year average is 7.97%.

The City will continue annual educational efforts to inform customers about using water efficiently

WHY PROVIDE A WATER QUALITY REPORT?

The sources of drinking water for both tap 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. It also can become polluted by domestic, recreational, or industrial activities.

Substances that may be present in source water include: Microbial substances, Inorganic substances, Pesticide and Herbicides, Organic

substances, Pesticide and Herbicides, Organic substances, and Radioactive substances.

To ensure tap water is safe to drink, EPA prescribes regulations limiting the amount of certain substances in water provided by public water systems. The Food and Drug Administration regulations establish limits for substances in bottled water that must provide the same protection for public health.

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).



WATER SOFTENER INFORMATION

Many homeowners have, or plan to install water softeners in their home. Water Softener Companies will ask for the Hardness, Total Dissolved Solids (TDS), and Iron content of your water. The City water tests resulted in the following: TDS = 212 to 505 mg/L, Hardness = 20.3 to 308 mg/l, and Iron = None Detected to 0.10 mg/L. The Hardness range converts to 1.2 to 18 grains per gallon (GPG). Purchasing a home hardness kit or testing by a water softener representative is recommended for accurate results for specific areas of the City. Contact a local water softener representative for more information on testing and water softeners. Installation of a water softener requires a plumbing permit from the City Building Department. Contact (509) 967-5902 for more information.

2021 CONSUMER CONFIDENCE REPORT

State Water System ID# 94900P

Substance	Range of Detected Substance	Highest Level Detected	Highest level Allowed (EPA's MCL)	State Reporting Level (SRL)	Ideal Goals (MCLG) [MRDLG]	Typical Source Of Substance
		MICRO	BIOLOGICAL			
Total Coliform Bacteria	0 of 180 samples	0	Presence detected in more than one sample/ month	Any Presence	0	Naturally present in the environment
		RAD	IOLOGICAL			
Gross Alpha Emitters	(-)1.00 — 9.5 pCi/L	9.5 pCi/L*	15 pCi/L	Above 0 pCi/L	0	Erosion of natural deposits
Gross Beta Emitters	1.44 – 12.52 pCi/L	12.52 pCi/L*	50 pCi/L	Above 0 pCi/L	0	Decay of natural and man-made deposits
Radium 226 & 228	0.20 – 1.16 pCi/L	1.16 pCi/L*	5 pCi/L (combined)	Above 0 pCi/L	0	
		INORGANIC S	UBSTANCES (IC	OCs)		
Arsenic	ND – 6 ppb	6 ppb*	10 ppb	1 ppb	1 ppb	Erosion of natural deposits
Cadmium	ND – 3 ppb	3 ppb*	5 ppb	1 ppb	5 ppb	
Fluoride	ND -3.40 ppm	3.40 ppm	4 ppm	0.2 ppm	4 ppm	
Chromium	ND – 0.03 ppm	0.03 ppm*	0.1 ppm	0.007 ppm	0.1 ppm	
Barium	ND – 0.10 ppm	0.10 ppm*	2 ppm	0.10 ppm	2 ppm	
Nitrate – Nitrogen	ND – 3.6 ppm	3.6 ppm*	10 ppm	0.5 ppm	10 ppm	Fertilizer and seption
	SY	NTHETIC ORGAI	NIC SUBSTANCE	S (SOCs)		
DCPA	ND – 1.3 ppb	1.3 ppb*		0.1 ppb		Pre-emergent herbicide (annual grass and broadlea weeds)
		DISINFECTI	ON BYPRODUCT	rs		
Trihalomethanes	2.7 – 79.9 ppb	27.65 ppb**	80 ppb	0.5 ppb	N/A	By-product of drinking water disinfection
Haloacetic Acids	ND – 60.3 ppb	12.87 ppb**	60 ppb	1 ppb		
Chlorine	0.981 ppm running average	2.04 ppm*	MRDL=4		MRDLG=4	
	Range of Detected	90th Percent	EPA Action	State Reporting	Site Exceeding Action	Typical Source Of
Substance	Substance	Reported	Level	Level (SRL)	Level	Substance
Lead	ND — 0.014 ppm	0.014 ppm*	O.015 ppm	0.002 ppm	0 of 33 test	Corrosion of household systems; Erosion of natural deposits
Copper	0.017 - 0.409 ppm	0.409 ppm*	1.3 ppm	0.2 ppm	0 of 33 test sites	

Result not from a current year sample

IMPORTANT DRINKING WATER DEFINITIONS

ppm (Parts per Million), ppb (Parts per Billion), mg/L (Milligrams per Liter), NA (Not Applicable), ND (Not Detected)

MCLG	Maximum Contaminant Level Goal: 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.	MRDLG	Maximum residual disinfection level goal. 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		
MCL	Maximum Contaminant Level: The highest level of		disinfectants to control microbial contaminants.		
	a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.	MRDL	MRDL: Maximum residual disinfectant level. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition		
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other		of a disinfectant is necessary for control of microbial contaminants.		
	requirements which a water system must follow.	SRL	State Reporting Level Indicates minimum		
pCi/L	Pico Curies per Liter		reporting level required by the Washington State Department of Health.		

MESSAGE FROM THE EPA

Nephelometric Turbidity Unit

NTU

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Centers for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.

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 West Richland 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 drinking 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 in available from the 2 feet of the contraction. testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

The U.S. EPA Office of Water (www.epa.gov/ow) and the Centers for Disease Control and Prevention (www.cdc.gov) web sites provide a substantial amount of information on many issues relating to water resources, water conservation, and public health. Also, the provides complete and current information on water issues in Washington, including valuable information about our watershed.



DRINKING WATER QUALITY:

In 2021, the tap water provided to you met all of the EPA and State primary drinking water health standards. However, in 2021, the State's Secondary Maximum Contaminant Level (SMCL) for fluoride was exceeded in two of the City's wells. SMCL's are based on aesthetics, which are non-health standards such as color, taste, and hardness. The tap water in your home is a mixture of several wells which dilute or lower the concentration of fluoride. Water quality tests are performed at the wellhead which produces the maximum contaminant concentrations. Samples are not taken from individual residences after the mixing process has occurred. Therefore, the City must assume that concentrations recorded at the wellhead could have reached citizens' recorded at the wellhead could have reached citizens' water. EPA requires consumer notification of the risks associated with fluoride when a wellhead's fluoride level test results are over 2.0 milligrams per liter (mg/L). Fluoride levels less than 2 mg/L are considered beneficial in preventing cavities. The notice provided in this report includes mandatory language considered by the EDA.

in preventing cavities. The notice provided in this report includes mandatory language required by the EPA. The intent is not to alarm citizens, but to educate you and your family of the risks associated with elevated levels of fluoride in drinking water. The City provides free fluoride tests upon request. For more information regarding the City of West Richland's drinking water, fluoride tests, or this report, please contact the City's Public Works Department at (509) 967-5434.

EPA FLUORIDE SMCL EXCEEDANCE NOTICE

five wells.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by Well #11 has a fluoride concentration of 3.40 ppm.

Dental fluorosis in its moderate or severe forms may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/L of fluoride, but notification is required when fluoride levels in your drinking water exceed 2 mg/L because of this cosmetic dental problem.

For more information, please contact the City's Public Works Department at (509) 967-5434. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home treatment units, you may call NSF International at 1-800-NSF-MARK (www.nsf.org).

This notice is being sent to you by the City of West Richland State Water System ID# 94900P Date distributed:

^{**}Number based on a running average over a year