Vader/Enchanted Valley Water System 2024 Drinking Water Quality Report

Is my water safe?

We are pleased to present this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

Do I need to take special precautions?

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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

Where does my water come from?

Our water comes from the Cowlitz River and is pumped to the Water Treatment Plant where it is treated for turbidity and chlorinated. Routine monitoring is done at the Plant and throughout the system to ensure water quality is in compliance with Federal and State regulations. The provided table lists the results of our monitoring for this year. It is important to remember that the presence of contaminates at a low level does not necessarily pose a health risk.

Source water assessment and its availability

Our water source is from a surface water body. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and can pick up substances resulting from the presence of animals or human activity. Some contaminants that may be present before it is treated are:

• Microbial contaminants such as viruses and bacteria which may come from sewage treatment

plants, septic systems, agricultural livestock operations and wildlife.

- Inorganic contaminants such as salts and metals which can be naturally occurring or from urban storm water runoff, industrial or domestic wastewater discharges, petroleum based products, mining, and farming.
- Pesticides and herbicides which may come from agricultural and residential uses.
- Radioactive contaminants which are naturally occurring.
- Organic chemical contaminants including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and can come from gas stations, urban storm water runoff and septic systems.

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 EPA's Safe Drinking Water Hotline at 800-426-4791.

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

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, such as cancer patients undergoing chemotherapy, individuals 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 individuals 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 EPA's Safe Drinking Water Hotline at 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. The Vader/Enchanted Valley water System 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 EPA's Safe Drinking Water Hotline at 800-426-4791 or at www.epa.gov/safewater/lead.

Why are there contaminants in my 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 (EPA) Safe Drinking Water Hotline (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:

microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of 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, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

How can I get involved?

Lewis County is dedicated to providing quality water to every customer, and to managing the system responsibly and efficiently. We thank our customers for their assistance, and ask for your continuing support of the Vader-Enchanted Valley Water System which we recognize is a vital resource of the community.

The Lewis County Board of County Commissioners holds regularly scheduled meetings every Tuesday at 2:00 PM at the County Courthouse located at 351 NW North Street, Chehalis, WA.

Description of Water Treatment Process

Your water is treated in a "treatment train" (a series of processes applied in a sequence) that includes coagulation, flocculation, sedimentation, filtration, and disinfection. Coagulation removes dirt and other particles suspended in the source water by adding chemicals (coagulants) to form tiny sticky particles called "floc," which attract the dirt particles. Flocculation (the formation of larger flocs from smaller flocs) is achieved using gentle, constant mixing. The heavy particles settle naturally out of the water in a sedimentation basin. The clear water then moves to the filtration process where the water passes through sand, gravel, charcoal or other filters that remove even smaller particles. A small amount of chlorine or other disinfection method is used to kill bacteria and other microorganisms (viruses, cysts, etc.) that may be in the water before water is stored and distributed to homes and businesses in the community.

Water Conservation Tips

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference - try one today and soon it will become second nature.

- Take short showers a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- Visit www.epa.gov/watersense for more information.

Cross Connection Control Survey

The purpose of this survey is to determine whether a cross-connection may exist at your home or business. A cross connection is an unprotected or improper connection to a public water distribution system that may cause contamination or pollution to enter the system. We are responsible for enforcing cross-connection control regulations and insuring that no contaminants can, under any flow conditions, enter the distribution system. If you have any of the devices listed below please contact us so that we can discuss the issue, and if needed, survey your connection and assist you in isolating it if that is necessary.

- Boiler/ Radiant heater (water heaters not included)
- Underground lawn sprinkler system
- Pool or hot tub (whirlpool tubs not included)
- Additional source(s) of water on the property
- Decorative pond
- Watering trough

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.
- Volunteer in your community. Find a watershed or wellhead protection organization in your community and volunteer to help. If there are no active groups, consider starting one. Use EPA's Adopt Your Watershed to locate groups in your community, or visit the Watershed Information Network's How to Start a Watershed Team.
- Organize a storm drain stenciling project with your local government or water supplier. Stencil a message next to the street drain reminding people "Dump No Waste Drains to River" or "Protect Your Water." Produce and distribute a flyer for households to remind residents that storm drains dump directly into your local water body.

Additional Information for Lead

The system inventory does not include lead service lines.

We determined the lead service line inventory with the following methods:

1. Construction Records and Plumbing Codes

Examples: Local ordinance adopting an international plumbing code. Permits for replacing lead service lines.

2. Water System Records

Examples: Capital improvement plans. Standard operating procedures. Engineering standards." Capital improvement plans, and other water system plans

3. Distribution System Inspections and Records

Examples: Distribution system maps. Tap cards. Service line repair/replacement records. Inspection records. Meter installation records. "Distribution system maps and Tap cards. We also have cleaned and inspected every meter box in the last couple of years.

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. VADER-ENCHANTED VALLEY is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in

plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact VADER-ENCHANTED VALLEY (Public Water system Id: WA5390900) by calling (360) 740-1371 or emailing dan.anderson@lewiscountywa.gov. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead.

Water Quality Data Table

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table below lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

			Detect	Ra	nge			
	MCLG or	MCL, TT, or	In Your			Sample		
Contaminants	MRDLG	MRDL	Water	Low	High	Date	Violation	Typical Source
Disinfectants & Disinfection By-Products								
(There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants)								
Haloacetic Acids (HAA5) (ppb)	NA	60	11	NA	NA	2024	No	By-product of drinking water chlorination
TTHMs [Total Trihalomethanes] (ppb)	NA	80	12.6	NA	NA	2024	No	By-product of drinking water disinfection
Inorganic Contaminants								

	Detect Range		nge					
Contaminants	MCLG or MRDLG	MCL, TT, or MRDL	In Your Water	Low	High	Sample Date	Violation	Typical Source
Nitrate [measured as Nitrogen] (ppm)	10	10	.5	NA	NA	2024	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Radioactive Contamin	ants							
Radium (combined 226/228) (pCi/L)	0	5	1	NA	NA	2021	No	Erosion of natural deposits
Synthetic organic cont	aminants	including	g pestició	les an	d herb	oicides		
2,4,5-TP (Silvex) (ppb)	50	50	.2	NA	NA	2022	No	Residue of banned herbicide
2,4-D (ppb)	70	70	.1	NA	NA	2022	No	Runoff from herbicide used on row crops
Dalapon (ppb)	200	200	1	NA	NA	2022	No	Runoff from herbicide used on rights of way
Dinoseb (ppb)	7	7	.2	NA	NA	2022	No	Runoff from herbicide used on soybeans and vegetables
Pentachlorophenol (ppb)	0	1	.04	NA	NA	2022	No	Discharge from wood preserving factories
Picloram (ppb)	500	500	.1	NA	NA	2022	No	Herbicide runoff
Volatile Organic Cont	aminants							
1,1,1-Trichloroethane (ppb)	200	200	.5	NA	NA	2022	No	Discharge from metal degreasing sites and other factories
1,1-Dichloroethylene (ppb)	7	7	.5	NA	NA	2022	No	Discharge from industrial chemical factories
1,2-Dichloroethane (ppb)	0	5	.5	NA	NA	2022	No	Discharge from industrial chemical factories
1,2-Dichloropropane (ppb)	0	5	.5	NA	NA	2022	No	Discharge from industrial chemical factories
Benzene (ppb)	0	5	.5	NA	NA	2022	No	Discharge from factories; Leaching from gas storage tanks and landfills
Carbon Tetrachloride (ppb)	0	5	.5	NA	NA	2022	No	Discharge from chemical plants and other industrial activities
Toluene (ppm)	1	1	.5	NA	NA	2022	No	Discharge from petroleum factories
Trichloroethylene (ppb)	0	5	.5	NA	NA	2022	No	Discharge from metal degreasing sites and other factories

				Detec	t F	Range							
Contaminants	MCLC or MRDL	7	MCL, IT, or MRDL	In Your Wate		w Hi		Sam Da	-		ation		Typical Source
Vinyl Chloride (ppb)	0		2	.5	N/	A N	A	202	22	N	lo	Disc	ching from PVC piping; charge from plastics pries
cis-1,2- Dichloroethylene (ppb)	70		70	.5	NA	A N	A	202	22	N	lo		charge from industrial mical factories
				Ra	nge	# Samp							
Contaminants	MCLG	AL	Your Water	Low	High		eec AL			nple ate	Exce Al		Typical Source
Inorganic Contamina	Inorganic Contaminants												
Copper - action level at consumer taps (ppm)	1.3	1.3	1.3	NA	1.3		0		20)22	No)	Corrosion of household plumbing systems; Erosion of natural deposits
Lead - action level at consumer taps (ppb)	0	15	.1	NA	.1		0		20)22	No)	Corrosion of household plumbing systems; Erosion of natural deposits

Violations	and	Exceed	lances
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Additional Contaminants

In an effort to insure the safest water possible the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants only the ones listed below were found in your water.

Contaminants	State MCL	Your Water	Violation	Explanation and Comment
Gross Alpha	3 pCi/L	3 pCi/L	No	Erosion of natural deposits.
Iron	.1 ppm	.1 ppm	No	Corrosion of household plumbing systems; erosion of natural deposits.

Unit Descriptions						
Term	Definition					
ppm	ppm: parts per million, or milligrams per liter (mg/L)					
ppb	ppb: parts per billion, or micrograms per liter (μg/L)					

Unit Descriptions							
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)						
NA	NA: not applicable						
ND	ND: Not detected						
NR	NR: Monitoring not required, but recommended.						

Important Drinking Water Definitions					
Term	Definition				
MCLG	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.				
MCL	MCL: Maximum Contaminant Level: 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.				
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.				
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.				
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.				
MRDLG	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 disinfectants to control microbial contaminants.				
MRDL	MRDL: Maximum residual disinfectant level. 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.				
MNR	MNR: Monitored Not Regulated				
MPL	MPL: State Assigned Maximum Permissible Level				

For more information please contact:

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