

2023 WATER QUALITY REPORT

PW ID: WA 207508
Prepared July 2024

This report contains important information about your drinking water and test results from 2023.



City of Duvall

Small Town. Real Life.

OUR MESSAGE FOR YOU

Clean, reliable, and safe drinking water is important to our health, our future, and our entire community. We are proud to report that our water continues to meet or exceed the highest state and federal quality standards. We have maintained this record for decades now, ensuring the health and safety of you and your families for generations, and we will continue to make this a priority for the future of Duvall.

Community Participation

You are invited to participate in our public city council meetings. You can voice any concerns or suggestions you have about your drinking water. Council meets the first and third Tuesdays of each month at 7:00 pm.

Council meetings are now held hybrid. The public may attend in person at the Duvall Visitor Center, 15619 Main St NE or online via Zoom. Please check the City's [website](#) or scan the QR code for current meeting information and agenda.

The City of Duvall's drinking water meets or exceeds all federal and state drinking water standards. There were no violations in the calendar year 2023!

What's inside:

- Utility Bill Information Page 2
- Where our water comes from... Page 3
- Health Information Page 5
- Results..... Page 7
- Backflow Information..... Page 9
- FAQs Page 10
- Resource Management..... Page 11
- Stormwater Information..... Page 13
- Sewer System Information Page 15

City Council Meeting QR code



SummerStage 2023

UTILITY BILL INFORMATION

There are several options for paying your utility bill:

In person: you can pay by cash, check, or debit / credit (no American Express) at City Hall during normal business hours.

By mail or drop box: use the envelope provided with your bill to mail your check / money order payment to the City. There is also a drop box outside City Hall for after hours. It is to the left of our front door. Please do not mail or put cash in the drop box.

ACH (auto withdraw): Set up ACH payments by filling out the [ACH form](#) and submitting it with a voided check from your chosen account. Payments are withdrawn every month on the 20th unless it falls on a weekend or holiday in which case it is withdrawn on the following business day. You will still get a statement every month.

OpenGov: View and pay your utility bill with a credit card using [OpenGov](#). You can also sign up to receive your bill via email and set up autopay through this system.



Duvall 1940's

Federal regulations require that this report be distributed to all of Duvall's water customers. Our goal is to provide you with safe and high-quality drinking water. Contact Public Works if you would like to have a copy mailed to you.

WHERE OUR DRINKING WATER COMES FROM

In 2023, the City of Duvall provided over 224 million gallons of high-quality drinking water to approximately 8,128 customers through 3,168 water connections. This water is purchased from Seattle Public Utilities (SPU), which sources it from two protected watersheds in the Cascade Mountains; the Cedar River Watershed and the South Fork Tolt Watershed. All of Duvall’s water is from the Tolt Watershed*.

SPU refers to these watersheds as “protected” because they own or manage over 100,000 acres of land, which are closed to unsupervised public access. These areas are kept free of agricultural, industrial, and recreational activities, and no one can live within the City-owned watersheds.

This protection minimizes the chance of contaminants entering the water, though natural sources of contamination remain possible. In SPU’s surface water supplies, potential contamination sources include microbial, inorganic, and organic contaminants.

****Nov 2023 water came from Cedar Watershed****

Taking Care of Our Infrastructure

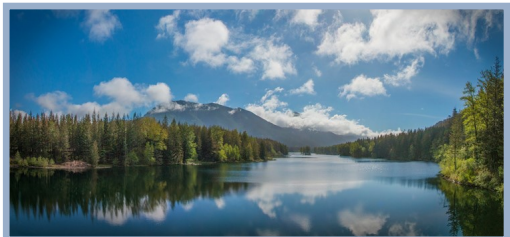
We ensure your water stays safe by maintaining our water infrastructure at peak performance and building new infrastructure to withstand disruptive events.

Building Water Resilience

Our water system is strong, but faces challenges like climate change, natural disasters, aging infrastructure, and technology hacks. Duvall and SPU are investing to keep our water system safe, secure, and reliable.

Infrastructure Partnerships

Resilient infrastructure is crucial not just for Duvall. SPU provides water to many cities and special districts in the region. These partnerships help manage water supply, address climate change, improve seismic resilience, and prepare for emergencies.



Cedar River Watershed

WHAT DUVALL DOES TO ENSURE YOUR WATER IS SAFE

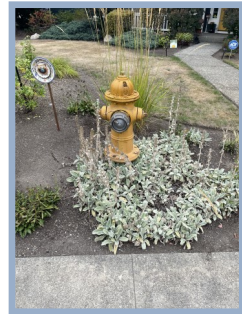
- ◆ Conducts water main flushing, sampling, results tracking, and tank inspections.
- ◆ Manages the Cross Connection Control / Backflow Prevention Program.
- ◆ Assists customers with water quality issues in their homes.
- ◆ Monitors the changing water distribution and water quality regulations.

FAST FACTS

- ◆ Residential Population: 8,629
- ◆ Residential Meters: 3,168
- ◆ Commercial Meters: 161
- ◆ Water Tanks: 2
- ◆ Sampling Stands: 8
- ◆ Pump Stations: 1
- ◆ Water Main Pipes: 43 miles
- ◆ Fire Hydrants: 437



Tolt 2 Transmission Line Replacement Project



Duvall is part of the enhanced regional emergency alert system, ALERT King County. This system enables the public to receive important information about significant events or emergencies. We also have an additional more localized system that we can use to send out road closure alerts or any emergency alerts we feel the need to as a backup. Both alerts can be found on our Emergency Management web page: <https://www.duvallwa.gov/304/Emergency-Management>.

Emergency information updates are also provided on the city's website, Facebook, X, and local news outlets.



HEALTH INFORMATION

Vulnerable Populations

Some people, like those with weakened immune systems, the elderly, infants, and those undergoing treatments such as chemotherapy or organ transplants, may be more at risk from contaminants in drinking water. The US EPA and CDC provide guidelines to reduce the risk of infection from contaminants like *Cryptosporidium*, through the Safe Drinking Water Hotline or EPA website.

Water Safety Regulations

In order to ensure tap water safety, the US EPA and the Washington State Board of Health set regulations limiting contaminants in public water. Similarly, the FDA and the Washington Department of Agriculture set limits for bottled water. Both must meet health protection standards. While all drinking water, including bottled water, can contain small amounts of contaminants, this does not necessarily mean it poses a health risk.

Sources of Drinking Water

Drinking water sources include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land or through the ground, it can dissolve minerals, radioactive material, and substances from animals or human activities. Potential contaminants include:

- ◆ Microbial contaminants from wastewater treatment plants, septic systems, livestock operations, or wildlife.
- ◆ Pesticides and herbicides from agriculture, stormwater runoff, and residential areas.
- ◆ Organic chemicals from industrial process, petroleum production, gas stations, urban runoff, and septic systems.
- ◆ Radioactive contaminants from natural sources or oil and gas production, and mining activities.

For more information about contaminants and their health effects, call the Safe Drinking Water Hotline at 1.800.426.4791 or visit [water.epa.gov/drink/hotline](https://www.water.epa.gov/drink/hotline).

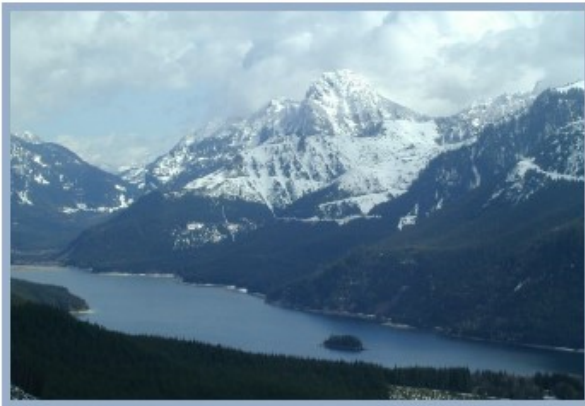
PROACTIVE MEASURES: PFAS

Polyfluoroalkyl substances (PFAS) are chemicals used globally since the 1940s in various industry and consumer products such as cookware, water-repellent clothing, stain-resistant fabrics, some cosmetics, firefighting foams, and products resistant to grease, water, and oil.

Studies suggest that some PFAS in the environment may pose health risks to humans and animals, although direct causation is challenging to establish, according to the CDC.

Duvall's drinking water remains safe and protected from contaminants, including PFAS. These chemicals, used for industrial purposes, can potentially raise health concerns if detected in drinking water. For more information about PFAS and their associated health risks, visit:

- ◆ [Environmental Protection Agency](#)
- ◆ [Washington State Department of Health](#)



South Fork Tolt Watershed

SUMMARY OF RESULTS:

Three rounds of testing were completed in 2023 in compliance with state and federal regulations.

- ◆ Metals (Lithium): No significant anomalies were noted.
- ◆ Organic LC (PFAS): No significant anomalies were noted.

If you would like the full results please contact us at 425.788.3434 ext. 8040.

2023 Results

Your water is extensively monitored and tested throughout the year. After testing for nearly 200 chemical compounds, only a few were detected (see table below). For a complete list visit <https://www.seattle.gov/utilities/your-services/water/water-quality/analyses>.

Detected Compounds	Units	EPA's Allowable Limits		Levels in Cedar Water		Levels in Tolt Water		Typical Sources
		MCLG	MCL	Average	Range	Average	Range	
Raw Water								
Total Organic Carbon	ppm	NA	TT	0.76	0.42 to 1.12	1.26	0.99 to 2.49	Naturally present in the environment
Finished Water								
Turbidity	NTU	NA	TT	0.38	0.19 to	0.04	0.02 to	Soil runoff
Arsenic	ppb	0	10	0.4	0.3 to 0.6	0.3	0.2 to 0.4	Erosion of natural deposits
Barium	ppb	2000	2000	1.5	1.3 to 1.7	1.2	1.1 to 1.4	Erosion of natural deposits
Bromate**	ppb	0	10	0.7	ND to 11	0.1	ND to 2	By-product of drinking water disinfection
Fluoride	ppm	4	4	0.7	0.5 to 0.8	0.7	0.6 to 0.8	Water additive, which promotes strong teeth
Nitrate	ppm	10	10	0.1	One Sample	0.1	One Sample	Erosion of natural deposits
Total Trihalomethanes	ppb	NA	80		Average = 25.8 Range = 13.8 to 36.0			By-products of drinking water chlorination
Haloacetic Acids(5)	ppb	NA	60		Average = 19.4 Range = 13.2 to 22.7			By-products of drinking water chlorination
Chlorine	ppm	MRDLG =4	MRDL = 4		Average = 1.06 Range = 0.91 - 1.28			Water additive used to control microbes

**** SPU is required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. In October 2023, a bromate sample was not analyzed for the Tolt supply, and therefore SPU cannot be sure of the quality of your drinking water during that time. However, based on historical data and results since October 2023, Tolt bromate levels are generally non-detect.**

Lead and copper monitoring results (Tolt WSA)					
Parameter and Units	MCLG	Action Level+	2023 Results*	Homes Exceeding Action Level	Source
Lead, ppb	0	15	3	0 of 55	Corrosion of household plumbing
Copper, ppm	1.3	1.3	0.18	0 of 55	
Duvall Results:					
Lead, ppb			0.004	0 of 3	Corrosion of household plumbing
Copper, ppm			0.98	0 of 3	
* 90th Percentile: i.e. 90 percent of the samples were less than the values shown.					
+ The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.					

Elevated lead levels in drinking water can pose serious health risks, especially for pregnant women and young children. Lead often comes from services lines and home plumbing materials. While Duvall provides high-quality drinking water, it cannot control the variety of materials in plumbing components. To minimize lead exposure, flush your tap for 30 seconds up to 2 minutes if water has been sitting for several hours before using it for drinking or cooking. For more information on lead in drinking water, testing, and reducing exposure, call the Safe Drinking Water Hotline 1.800.426.4791 or visit <http://www.epa.gov/safewater/lead>.

DEFINITIONS FOR TABLES

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: 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.

MRDL: Maximum Residual Disinfectant Level

- The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for the control of microbial contaminants.

MRDLG: Maximum Residual Disinfectant 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.

TT: Treatment Technique - A required process intended to reduce the level of a contaminant in drinking water.

NTU: Nephelometric Turbidity Unit -

Turbidity is a measure of how clear the water looks. The turbidity MCL that applied to the Cedar supply in 2022 was 5 NTU, and the Tolt it was 0.3 NTU for at least 95% of the samples in a month. 100% of Tolt samples for 2022 were below 0.3 NTU.

NA - Not Applicable

ND - Not Detected

Ppm - 1 part per million=1 mg/L=1 milligram per liter.

Ppb - part per billion=1 ug/L=1 microgram per liter

1 ppm - =1000 ppb

BACKFLOW PREVENTION



Backflow overview

A backflow assembly is a device incorporated into your plumbing system with one-way valves that prevent potentially contaminated water from entering the drinking water system of a dwelling or the City water supply. They are most commonly associated with fire sprinkler and irrigation systems.

If you have an irrigation system for your yard, fire suppression sprinkler system, boiler, pool/spa or water feature, state law requires that you get a backflow prevention assembly from the [USC-Approved Assemblies List](#) to prevent contaminated water from flowing back into our drinking water system — a serious health hazard.

Test your backflow device annually

Backflow devices must be tested annually by a state-certified backflow assembly tester. Even the best backflow assembly can fail because of freezing, debris, improper installation and unapproved plumbing connections. That's why state law requires that backflow assemblies be tested annually by a certified backflow assembly tester to ensure that the assemblies will function if there is a backflow event. Visit <https://www.duvallwa.gov/384/Backflow-Assemblies-Overview> or contact us at CoDbackflow@duvallwa.gov for more information.

Garden hoses can be hazardous to the water quality in your home. To prevent backflow and keep your water safe:

- Do not submerge a garden hose into anything you would not want to drink.
- Do not leave hose-end applicators such as fertilizers or weed killers attached to your hose. use them and disconnect.

FREQUENTLY ASKED QUESTIONS

Is Duvall’s drinking water hard or soft?

Duvall’s drinking water is very soft. It is not necessary to use special water softeners for you clothes or dishwashers. Water’s “hardness” and “softness” is due to its concentration of minerals, such as calcium and magnesium. Water is considered “softer” when it contains a lower mineral content. Duvall’s water has a hardness of approximately 1.48 grains / gallon.

Why are there pink or black stains in sinks and around drains?

Those pink or black stains are a mixed culture of airborne yeast, mold, and / or bacteria which grow well in moist conditions. They are not from your drinking water. These occurrences can increase especially in the summer when humidity and temperatures increase microbial growth rates. Frequent cleaning can remove these.

Who should I contact if my water has an unusual smell, taste, or appearance?

A change in your water’s smell, taste, or color is not necessarily a health concern. However, sometimes changes can be a sign of problems. If you notice a change in your water, please call Duvall Public Works at 425.788.3434.



Tolt 2 Transmission Line Replacement construction project

RESOURCE - EFFICIENT WATER MANAGEMENT

Water conservation in Duvall is crucial for protecting local streams, salmon habitats, and ensuring smart use of our infrastructure. With warmer, drier summers becoming more common, conservation efforts are increasingly important. The City tracks water usage to measure progress toward long term conservation goals.

The Saving Water Partnership (SWP), comprising Duvall and 18 other water utilities, aims to keep average annual retail water use below 110 million gallons per day (MGD) through 2028, despite expected population growth. In 2023, SWP successfully used 96.3 MGD, meeting its conservation target.

2023 Water Production and System Leakage	
Water purchase from SPU:	238,453,424 gallons
Authorized consumption:	224,334,924
Distribution system leakage:	14,118,500 (5.9%)
3 year average:	4.9%

To promote conservation, Duvall offers water efficiency programs through its partnership with SPU. These programs encourage using high-efficiency plumbing fixtures, appliances, irrigation technologies, and detecting and repairing leaks. Thanks to strong community support, these initiatives have been highly effective.



Taylor's Landing

BE WATER SMART!

- ◆ Water outdoor plants in the morning, mulch gardens, and raise mower blades. Let lawns go dormant ; they will revive in the fall.
- ◆ Adjust washer settings. Laundry uses 22% of indoor water. Save energy with cooler settings and save water by using the proper load size.
- ◆ Time your shower! Take the 5-minute shower challenge to conserve water, energy, and money.
- ◆ Use *WaterSense* faucets, toilets, and showerheads.
- ◆ Check the toilet for leaks by adding 12 drops of food coloring to the tanks. If color appears in the bowl after an hour, there's a leak.

Helpful websites:

- ◆ [Saving Water Partnership](#) (education, tips, rebates)
- ◆ [WaterSense](#) (education, products, tips)
- ◆ [Ecology Programs](#) (educations, tips)



Saving Water Partnership
Seattle and Participating Local Water Utilities

SEE THE SOURCE

Experience the wonder and beauty of the watershed through exciting exhibits and captivating stories from educators at the Cedar River Watershed Education Center.

You can visit us in person or online. If you visit in person, you can hike nearby Rattlesnake Ledge to see a breathtaking view of the enormous watershed.

If you visit online, you can explore our extensive learning resources, including informative videos and engaging at-home activities.

Summer tours of the watershed may also be available, so check SPU's webpage for current offerings. Center hours, programs, and online learning resources are available by scanning the QR code or visiting <https://www.seattle.gov/utilities/protecting-our-environment/our-water-sources/cedar-river-watershed/education-center>.



STORMWATER SYSTEM INFORMATION

Business owners in Duvall should assess their handling of hazardous materials:

- ◆ Store chemicals and waste in appropriate containers, especially outdoors, ensuring they are covered.
- ◆ Use secondary containment by placing original containers inside another to prevent spills.
- ◆ Be prepared for spills with spill kits and procedures; train employees accordingly. Contact us at stormwater@duvallwa.gov for more information about spill kits.
- ◆ Keep lids closed on dumpsters and waste bins.
- ◆ Minimize the use of toxic cleaning solvents like chlorinated solvents and other harmful chemicals.

Did you know Duvall's stormwater system has:

- 131 stormwater facilities - ponds, vaults, bioswales, detention vaults
- 2936 catch basins
- 36 private facilities also inspected annually
- 2 maintenance crew members and 1 technical support member to inspect, clean, and repair system to keep the drains flowing (with occasional help from goats for those hard to reach places)



1. yearly catch basin cleanings with vactor truck
2. a newly cleaned catch basin
3. Goats at work, clearing the steep slopes of a storm pond
4. Miller street storm facility



Fun Fact

most surface water in our storm system is not treated and drains directly to creeks, streams, rivers, and eventually to Puget Sound.

DUMP NO WASTE
DRAINS TO STREAM



Contact Us
City Hall 425.788.1185
Building 425.788.3434
info@duvallwa.gov



ADOPT A STORM DRAIN

Join Adopt-a-Drain to keep neighborhood drains clear and reduce water pollution and street flooding. It's easy, visit wa.adopt-a-drain.org to sign up!

- ◆ Keep your drain clear—sweep leaves, trash, and other debris off the drain surface year round.
- ◆ Track your impact — keep an estimated total of the debris you collect and enter it into your online account so we can gauge the cumulative results of our work.



SEWER SYSTEM SAFETY INFORMATION

The average single-family household throws away about 45 pounds of food scraps and soiled paper every month that could easily be composted. Grease and ground up food product sticks to household sewage pipes. Over time, the greasy build-up will block the entire pipe and result in raw sewage backing up into your home or overflowing into the street or waterway.



**Remember Wipes
Clog Pipes!**

Please do not flush the following:

- ◆ Grease, fats, and Oil
- ◆ Paints, solvents, or other chemicals
- ◆ Wrappers or stickers
- ◆ Latex gloves
- ◆ Cleaning wipes
- ◆ Band-aids and bandage wrappers
- ◆ Kitty litter
- ◆ Dental floss and teeth whitening strips
- ◆ Disposable diapers, nursing pads and baby wipes
- ◆ Mini / maxi pads, tampons and applicators
- ◆ Expired and unused prescription or over-the-counter medications
- ◆ Condoms
- ◆ Facial wipes
- ◆ Hair
- ◆ Cotton balls, swabs, and pads

Did you know Duvall has...

- 1 Membrane Bioreactor Wastewater Treatment Plant
- 4 operation crew members
- processes ~628,333 gallons per day
- after treatment biosolids hauled off-site ~ 96 tons per year



Fats, Oils, and Grease cause buildup inside pipes and can lead to:

- raw sewage backing up into your home
- unpleasant and expensive cleanups



Fun Fact

Solids from the WWTP are used as an amendment on agricultural land



Contact Us
City Hall 425.788.1185
Building 425.788.3434
info@duvallwa.gov





CONTACT US:

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425.788.3434

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Duvall, WA 98019

www.duvallwa.gov

Public Works After Hours Emergency:

425.419.3748

Please note this number does not
receive text messages