

# CITY OF WINLOCK

## 2023 Annual Water Quality Report

April 2024

### Inside This Report

- 1 About this Report
- 1 Where does my Water come from?
- 2 Important Terms
- 2 Why are there Contaminants in My Drinking Water?
- 2 Do I Need to take Special Precaution?
- 2 Waivers
- 3-4 Water Quality Results
- 4 Disinfection By-products
- 5 Additional Information on Other Contaminates that may be in your Drinking Water.
- 5 Water Conservation and Efficiency
- 5 Facts on Drinking Water

### About this Report

The purpose of this report is to provide information about the quality of the City of Winlock's drinking water that was serviced in 2023. This report can be very technical in nature at times but is full of important information regarding your drinking water.

The City of Winlock's water system has always had the goal of providing safe and dependable drinking water. The City of Winlock is able to report that it has met all State and Federal standards for drinking water provided in 2023.

Terms Simplified	
How Can I Relate to PPM's & PPB'S?	
Parts per million (ppm)	Parts per billion (ppb)
3 drops in 42 gallons	1 drop in 14,000 gallons
1 second in 12 days	1 second in 32 years
1 penny in \$10,000	1 penny in \$10,000,000
1 inch in 16 miles	1 inch in 16,000 miles

### Where does my Water come from?

The City of Winlock gets its water from 5 wells. **Eureka 1** located at the corner of Nevil and 505. **Well 603** is located up at the twin towers on St Helens st, **Eureka 3** is located up off on Ne second street in an undeveloped part of the woods, and **Baichtel 2** is located off of cemetery rd. near bay rd. **505 Well** located on 505 approximately .5 miles from grand Prairie heading toward the freeway

**If you have any questions or comments regarding this report, please contact your water system operator.**

**Rodney Cecil**  
 City Of Winlock  
 P.O Box 777  
 Winlock, WA 98569  
 Water System ID# 97500C  
**(360)520-5589**  
[winws@cityofwinlock.com](mailto:winws@cityofwinlock.com)

### Important Terms

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

**90<sup>th</sup> Percentile** - Average of all sample site data for lead or copper; Example: In 9 out of 10 houses sampled, 9 were below contaminant levels.

**Disinfection By-Products (DBP'S)** – Organic compounds resulting from the interaction with natural organic matter in water supplies.

**Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.

**Maximum Contaminant Level Goal (MCLG)** – The maximum goal level for a contaminant in drinking water, below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

**Maximum Residual Disinfectant Level (MRDL)** – The highest level of disinfectant allowed in drinking water.

**Maximum Residual Disinfectant Level Goal (MRDLG)** – The level of drinking water disinfectant, below which there is no known or expected risk to health.

**Parts per Million (ppm) Parts per Billion (ppb)** – A part per million means that one part of a particular contaminant is present for every million parts of water. Similarly, parts per billion indicate the amount of contaminant per billion parts of water.

**Picocuries per Liter (pCi/L)** - A measure of radioactivity in one liter of water.

**Not Applicable (N/A)** – Means that the EPA has not established standards for these substances.

**No Detection (ND)** – Indicates that results were not detected at a level greater than or equal to the SRL.

## 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 EPA's Safe Drinking Water Hotline at (1-800-426-4791). 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 land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material; thus, can pick up substances resulting from the presence of animals or human activity.

## Do I Need to take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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; people 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).

## Waivers

DOH has reduced monitoring requirements for glyphosate, herbicides, insecticides, general pesticides and volatile organic contaminants. For a full disclosure of the testing dates please call Rodney Cecil at the City of Winlock 360-520-5589 **In 2023 We did conduct VOC testing on Eureka 3 and 3 tests on the 505 well site with a ND on all the tests. We also tested all of our sites for PFAS and we had a ND in all of those tests also.**

## Water Quality Results

The tables below list all the drinking water contaminants that we detected during the calendar year of this report. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk, unless otherwise noted. DOH and the EPA requires monitoring for certain contaminants less than once per year, because the concentrations of these contaminants shouldn't vary significantly from year-to-year. Some of the data, though representative of the water quality, is more than one year old. **To obtain a list of all the testing we conducted this year contact the water department manager Rodney Cecil.**

2023 Water Quality Results						
Substance	Units	EPA Regulations		Our Drinking Water Results		
		Ideal Level/Goal (MCLG)	Maximum Allowable (MCL)	Highest Result	Average Value	Comply
Nitrate	ppm	10	10	3.85	1.508	Yes
Small amounts of Nitrate come from natural Sources. We tested all 5 well sites.						
Total Coli form Bacteria	Number of Detections	0	3 per month	0	0	Yes
Total-coli form is used to monitor microbial quality in the water system. NOTE: Total coliform is bacteria that is naturally present in the environment and is used as an indicator that other potentially harmful bacteria may be present. Winlock has a minimum of 3 samples to collect each month. We conducted our testing requirement as required by our coli form monitoring plan. We had no hits on coliform in 2023						
Disinfectant Residual	ppm	Less than 4.0, Min .20	4.0	.20	.15	Yes
Chlorine is added to drinking water for disinfection. We strive to maintain a residual of .20 in our system at all times. We test daily at 4 locations throughout the city.						

2023 Radium Testing						
Substance	Units	Ideal Level/Goal (MCLG)	Maximum Allowable (MCL)	Range/Other	Average Value	Comply
Radium 228	pCi/L	0	5	See Below	See Below	Yes
Radioactive contaminants can occur naturally, or result from oil, gas production and mining activities. 2023 This year we tested the 505 well 3x Gross Alpha..... <3.00 For all three tests Radium..... <.186, <.203 and .0247						

2023 Monitoring Results						
Lead & Copper		EPA Regulations		Your water Results		
Substance	Units	Ideal Level/Goal (MCLG)	Action Level (AL)	90 <sup>th</sup> % Level	Sites Exceeding the Action Level	Is Our Water Safe?
Lead	ppm	.015	.015	.00095	0 out of 10	Yes
Copper	ppm	1.3	1.3	.021	0 out of 10	Yes

Lead and Copper sources are from the corrosion from household plumbing and erosion of natural deposits from the environment.

The data represents the combined sample results for 2023.

This test is done every 3 years.

We did 2 tests in the 2023 reporting year on 20 samples each

Inorganic Chemical Monitoring for 2019						
Substance	Units	EPA Regulations		Our Drinking Water Results		
		Ideal Level/Goal (MCLG)	Maximum Allowable (MCL)	Highest Result	Comply?	
Barium	ppm	2	2	<.10	Yes	
Chloride	ppm	N/A	250	4.1	Yes	
Sulfate	ppm	N/A	250	1.3	Yes	
Zinc	ppm	N/A	5	<.20	Yes	
Arsenic	ppm	.002	.01	<.0010	Yes	
Nickel	ppm	.04	.1	<.0050	Yes	
Fluoride	ppm	.2	4	<.20	Yes	
Beryllium	ppm	.003	.004	<.00030	Yes	
Thallium	ppm	.002	.002	<.0010	Yes	
Mercury	ppm	.0005	.002	<.00020	Yes	

Inorganic chemical are salts and metals, they can occur naturally, or result from urban storm-water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming. 2018 test was conducted on baitchell well, eureka 3 and 603 wells. Other IOC/VOC tests results are available by contacting the water department. The test for 2019 was conducted on the Eureka # 1 well and the results are listed above

This test is done every 9 years

## Disinfection By- products

The chemical disinfectant of choice in drinking water is chlorine, used since the early 1900's to inactivate or chemically kill microorganisms. However, chlorine is a very active substance and it reacts with certain organic compounds to form other compounds, known as disinfection by-products (DBP's). The most common DBP's formed when chlorine is used, are Trihalomethanes (THM) and Halo acetic acids (HAA5). Some of these compounds have been linked to potential health effects. DBP's are regulated by the EPA and DOH. **The City of Winlock did test for HAA5 and TTHM in 2023 with a ND in the both the TTHM and HAA5 tests Testing locations are out at the Grand Prairie development and at the Cardinal Glass Site.**

## Additional Information on other Contaminates that may be in your Drinking Water.

Copper in drinking water is an essential nutrient, but some people who drink water containing elevated levels of copper in a relatively short amount of time could experience gastrointestinal distress. Some people with Wilson's disease should consult their doctor.

Lead in drinking water is rarely the sole cause of lead poisoning, but if present, elevated levels of lead can cause serious health problems; especially for women who are pregnant and young children. Lead in drinking water comes primarily from materials and components associated with household plumbing. The more time water has been sitting in pipes, the more dissolved metals, such as lead, it may contain. To help reduce potential exposure to lead, if your water has been sitting for 6 hours or more, flush water through the tap for 30 seconds to 2 minutes until the water is noticeably colder, before using for drinking or cooking. Hot water is more likely to contain higher levels of lead than cold water.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue- baby syndrome. Nitrate levels may rise quickly for short periods of time, because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

### To obtain more information on water quality issues, you can contact any the following agencies:

#### City Of Winlock

Water System operator: Rodney Cecil

Address: P.O Box 777, Winlock WA 98569

Telephone: (360) 520-5589

Water System ID#: 97500C

Source of Water: Groundwater

Email: winws@cityofwinlock.com

#### U.S. Environmental Protection Agency

Safe Drinking Water Hotline: 1-800-426-4797

Website: [www.water.epa.gov](http://www.water.epa.gov)

#### Washington State Department of Health

Regional DOH Office: (360) 236-3030

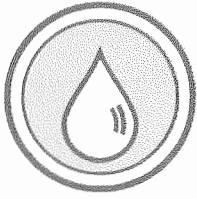
Website: [www.doh.wa.gov/shp/dw](http://www.doh.wa.gov/shp/dw)

## Water Conservation and Efficiency

Water conservation and efficiency topics are held in the sustainability meetings, if you have any ideas or comment on the topic please contact the Water Manager Rodney Cecil at (360) 520-5589

## Facts on Drinking Water

- Approximately 400 billion gallons of water are used in the United States per day.
- It takes seven and a half years for the average American resident to use the same amount of water that flows over the Niagara Falls in one second (750,000 gallons).
- American residents use about 100 gallons of water per day.
- The average faucet flows at a rate of two gallons per minute. You can save up to four gallons of water every morning by turning off the faucet while you brush your teeth.
- At one drip per second, a faucet can leak 3,000 gallons per year.
- The first water pipes in the US were made from wood (bored logs that were charred with fire).
- More than 25% of bottled water comes from a municipal water supply, the place that tap water comes from.
- If you drink your daily recommended 8 glasses of water per day from the tap, it will cost you about 50 cents per year. If you choose to drink it from bottled water, it can cost you up to \$1,400 dollars per year.



Report Form

# Consumer Confidence Report Certification Form

331-203 • 3/21/2024

## Consumer Confidence Reports are Due Before July 1, 2024

You need to complete the following.

1. **Before July 1, 2024**, mail or otherwise directly deliver a copy of your 2023 Consumer Confidence Report (CCR) to your water system customers. Keep a copy for your records.
2. **Before July 1, 2024**, mail or email a copy of your CCR to the regional office for your county (information on back).
3. **By October 1, 2024\*** complete and send this certification form to the regional office with your CCR.

*\*Note: We are better able to properly credit your water system when we receive both documents, together, before the July 1 deadline.*

### Certification for

Water System Name City of Winlock

Water System ID Number 97500C Water System County Lewis


Date delivered 4-23-24

URL (if delivered electronically) www.cityofwinlock.com

In compliance with the CCR requirements in WAC 246-290-72001 through -72012, I confirm that:

- ◆ The CCR has been appropriately delivered to customers who use this water system.
- ◆ All information contained in this report is correct.
- ◆ The monitoring data stated in the CCR matches information submitted to Washington State Department of Health, Office of Drinking Water.

### Certified by

Signature 

Printed Name Rodney Cecil

Phone 360-520-5589 Date 4-23-24

# Department of Health Office of Drinking Water Regional Office Addresses

If you have any questions, call our main office line 360-236-3030.

**Eastern Regional Office:** For water systems located in Adams, Asotin, Benton, Chelan, Columbia, Douglas, Ferry, Franklin, Garfield, Grant, Kittitas, Klickitat, Lincoln, Okanogan, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman, and Yakima counties.

Email signed copy to: [ccr.ero@doh.wa.gov](mailto:ccr.ero@doh.wa.gov)  
Phone: 509-329-2100

**Northwest Regional Office:** For water systems located in Island, King, Pierce, San Juan, Skagit, Snohomish, and Whatcom counties.

Email signed copy to: [ccr.nwro@doh.wa.gov](mailto:ccr.nwro@doh.wa.gov)  
Phone: 253-395-6750

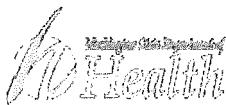
**Southwest Regional Office:** For water systems located in Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Kitsap, Lewis, Mason, Pacific, Skamania, Thurston, and Wahkiakum counties.

Email signed copy to: [ccr.swro@doh.wa.gov](mailto:ccr.swro@doh.wa.gov)  
Phone: 360-236-3030

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To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email [doh.information@doh.wa.gov](mailto:doh.information@doh.wa.gov). If in need of translation services, call 1-800-525-0127.



## Annual Water Use Efficiency Performance Report Form

Please refer to the *Getting Started Water Use Efficiency Guidebook*

Today's Date: 3/1/2024

### General System Information

System Name: WINLOCK CITY OF  
 System ID #: 97500  
 County: LEWIS  
 Your Name: rodney cecll  
 Your Title: water and sewer superintendent  
 Your Email Address: winws@cityofwinlock.com  
 Your Phone Number: (360) 520-5589

### Meter Installation Information

Estimate the percentage of metered connections: 100%

If not 100% metered - Did you submit a meter installation plan to DOH?

Within your meter installation plan, what date did you commit to completing meter installation?

Current status of meter installation:

### Production, Authorized Consumption, and Distribution System Leakage Information

Reporting Year: 2023  
 12-Month WUE Reporting Period: January 01, 2023 to December 31, 2023

Incomplete or missing data for the year? No

If yes, explain:

Distribution System Leakage Summary			
Total Water Produced and Purchased (TP) - Annual Volume	137,198,168	Gallons	
Authorized Consumption (AC) - Annual Volume	104,664,756	Gallons	
Distribution System Leakage - Annual Volume TP - AC	32,533,412	Gallons	
Distribution System Leakage - Percent DSL = [(TP - AC) / TP] x 100	23.7	%	
3-Year Annual Average - Percent	20.2	% 2021, 2022, 2023	

### Goal-Setting Information

Date of most recent public forum: February 18, 2019

Has goal been changed since last WUE report? No

Demand Side Goal: Residential Customer goal is to reduce seasonal summer demand by 10 GPD over the next 6 years.

Demand Side Goal Progress: We are looking into some tiered billing structure to promote water conservation. Right now we just have a flat rate for all users regardless of water usage. This would include looking at rates for customers that use over the 600 CF allotted in each billing cycle. Right now our charge is around \$ 1.00 for every 100 cubic feet over the 600.

Additional Information: we have aggressively repaired any leaks we come across, and we have replaced about 70% of our galvanized lines in the city. We will be trying to get some more funding to chip away at the galvanized line that are remaining

Supply Side Goal Progress: We are still working on water conservation

Water Level Measurements			
Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January			
February			
March			
April			
May			
June			
July			
August			



September
October
November
December

Well tag Id number:  
 Well Depth:  
 Water level accuracy:  
 Completion type:  
 Location coordinates:  
 Water level parameter name:  
 Elevation of top of casing OR elevation of measuring point:  
 Maximum daily water demand for the previous year: 0

Monthly total water produced for the previous year	
Month	Volume of Water Produced in gallons
January	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

Water shortage response:

- 1. Did you activate any level of water shortage response plan the previous year?  
 Yes  No  There was no need to
- 2. If you activated a water shortage response plan the previous year, what level did you activate? Check all that apply  
 Advisory Conservation  Voluntary Conservation  Mandatory Conservation  Rationing  Other
- 3. What factors caused your water shortage the previous year? Check all that apply  
 Drought  Fire  Landslides  Earthquakes  Flooding  Water Supply limitations  Other

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Please click 'Back' if you need to make changes.

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Cancel

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 Locations and Directions  
 Consumer Assistance  
 Email Consumer Assistance  
 800-525-0127  
 TTY Users dial 711  
 Access Washington  
 Contact our Web team

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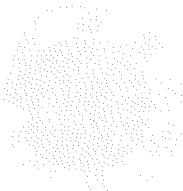
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**MONTHLY WELL PRODUCTION VERSUS USAGE BILLED  
2023**

WELL	GALLONS PRODUCED - DATA FROM SOURCE METERS MONTHLY DOH REPORTS												TOTALS
												DECEMBER	
EUREKA #1 - 501	2,128,967	2,540,353	2,303,498	2,226,675	2,561,250	3,081,769	3,983,552	4,774,313	4,372,855	3,885,522	3,695,417	3,992,698	39,546,869
EUREKA #3 - 508	418,874	553,244	150,922	114,829	163,774	266,053	502,895	420,865	169,583	107,222	90,927	160,841	3,120,029
#603 - 505	6,346,049	6,602,776	6,462,275	5,895,579	6,751,993	7,135,253	7,537,201	6,622,863	5,623,065	4,977,059	4,709,817	5,125,596	73,789,526
BAICHTTEL #2 - 509	779,996	859,365	613,375	441,666	565,046	805,895	1,108,459	1,012,549	745,661	548,591	497,337	639,133	8,617,073
505 Well	0	0	855,965	719,575	904,521	1,386,690	1,780,689	1,992,832	1,491,464	1,094,936	1,030,896	867,103	12,124,671
<b>TOTAL PRODUCED</b>	<b>9,673,886</b>	<b>10,555,738</b>	<b>10,386,035</b>	<b>9,398,324</b>	<b>10,946,584</b>	<b>12,675,660</b>	<b>14,912,796</b>	<b>14,823,422</b>	<b>12,402,628</b>	<b>10,613,330</b>	<b>10,024,394</b>	<b>10,785,371</b>	<b>137,198,168</b>

	USAGE BILLED - DATA FROM BILLING SYSTEM						TOTALS
	JAN/FEB	MAR/APR	MAY/JUN	JUL/AUG	SEP/OCT	NOV/DEC	
CUBIC FEET SOLD	2,374,041	1,931,629	2,190,198	3,237,203	2,368,596	1,888,131	13,989,798
Know Water Leaks			13,800				13,800
CONVERT TO GALLONS	17,759,060	14,449,588	16,397,619	24,215,960	17,718,328	14,124,201	104,664,756

Jan / Feb                      Mar/apr                      May/Jun                      Jly/aug                      Sept/Oct                      Nov/Dec

TOTAL GALLONS PRODUCED                      137,198,168  
 TOTAL GALLONS SOLD                              104,664,756  
 DIFFERENCE    32,533,412

TOTAL ACRE FEET USED:                      421.07 560.9 allotted

PERCENTAGE OF LOSS                      23.71% Unaccounted for water loss.

EUREKA 1                      121.3  
 EUREKA 3                      9.57  
 603 Well                      226.4  
 BAITCTEL #2                      26.4  
 505 Well                      37.4

Cardinal Glass                      131.2 acre feet used

\* Loss in gallons are identified leaks estimated water loss.

