



# Consumer Confidence Report Certification Form 331-203 • 2/20/2019

2018

mailed  
3-19-19

## For calendar year 2018 Consumer Confidence Reports are due before July 1, 2019

You need to complete the following:

1. Mail or otherwise directly deliver a copy of your 2018 Consumer Confidence Report (CCR) to your water system customers **before July 1, 2019**. Keep a copy for your records.
2. Mail or email a copy of your CCR to the regional office for your county (information on back) **before July 1, 2019**.
3. Complete and send this certification form to the regional office with your CCR, or **by October 1, 2019** at the latest.

**Note:** We are better able to properly credit your water system when both documents are received together.

**Certification for:**

Water System Name City of Winlock

Water System ID Number 97500C Water System County Lewis

Date delivered 3-19-19

URL (if delivered electronically) www.cityofwinlock.com/watersewerdepartment

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 [Handwritten Signature]

Printed Name Rodney Cecil

Phone 360-520-5589 Date 3-19-19

# CITY OF WINLOCK

## 2018 Annual Water Quality Report

April 2019

### Inside This Report

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### 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 2018. 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 2018.

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 4 wells. Well #1 is 119 feet deep and is located east of Tall Timber Addition. Well # 2 is 116 feet deep and is located at the intersection of Cemetery rd and Bay rd. Well # 3 is 55 feet deep and located north of the intersection of St Rt 505 and Nevil Rd. Well # 4 is located in an undeveloped area of N.E 2<sup>nd</sup> st. We are in the process of constructing another well located about 1 mile East of the grand Prairie housing development

**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**

[Rodneycecil991@yahoo.com](mailto:Rodneycecil991@yahoo.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 glyphosphate, 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. NOTE the city did conduct a herbicide test on our Eureka # 1 well site and the results were: ND

## 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 Rodnev Cecil.

2018 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	1.4	.88	Yes
Small amounts of Nitrate come from natural Sources. We tested all 4 well sites .						
Total Coli form Bacteria	Number of Detections	0	2 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 2 samples to collect each month. We conducted our testing requirement as required by our coli form monitoring plan. There were no violations for the reporting year.						
Disinfectant Residual	ppm	Less than 4.0, Min .20	4.0	.27	.23	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.						

2016 Radium Testing						
Substance	Units	Ideal Level/Goal (MCLG)	Maximum Allowable (MCL)	Range/Other	Average Value	Comply
Radium 228	pCi/L	0	3	ND	ND	Yes
Radioactive contaminants, can occur naturally, or result from oil, gas production and mining activities. We conducted test at the eureka 1 site and had a ND. We also conducted a gross alpha test and the baitchell site and had a no detect. This is tested every 6 years.						

2016 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	.0022	0 out of 10	Yes
Copper	ppm	1.3	1.3	.56	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 2016.  
 This test is done every 3 years.

Inorganic Chemical Monitoring for 2016					
Substance	Units	EPA Regulations		Our Drinking Water Results	
		Ideal Level/Goal (MCLG)	Maximum Allowable (MCL)	Highest Result	Comply?
Barium	ppm	2	2	<.01	Yes
Chloride	ppm	N/A	250	4	Yes
Sulfate	ppm	N/A	250	<1.0	Yes
Zinc	ppm	N/A	5	<.02	Yes
Arsenic	ppm	.002	.01	<.001	Yes
Nickel	ppm	.04	.1	<.005	Yes
Fluoride	ppm	.2	4	<.2	Yes
Beryllium	ppm	.003	.004	<.0003	Yes
Thallium	ppm	.002	.002	<.001	Yes
Mercury	ppm	.0005	.002	<.0002	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. This years test was conducted on baitechell well , eureka 3 and 603 wells. Other IOC tests results are available by contacting the water department. 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 Haloacetic 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 2018 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:** [rodneycecil991@yahoo.com](mailto:rodneycecil991@yahoo.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/ehp/dw](http://www.doh.wa.gov/ehp/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.

2018



## Annual Water Use Efficiency Performance Report Form

Please refer to the [Getting Started: Water Use Efficiency Guidebook](#)

Today's Date: 3/19/2019

### General System Information

System Name: WINLOCK CITY  
 System ID #: 97500  
 County: LEWIS  
 Your Name: Rodney Cecil  
 Your Title: Water Sewer Superintendent  
 Your Email Address: winws@toledotel.com  
 Your Phone Number: (360) 520-5589

### Meter Installation Information

Estimate the percentage of metered connections: 100%  
 Current status of meter installation:

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

Reporting Year: 2018  
 12-Month WUE Reporting Period: January 01, 2018 to December 31, 2018  
 Incomplete or missing data for the year? No  
 If yes, explain:

Distribution System Leakage Summary			
Total Water Produced and Purchased (TP) - Annual Volume	127,449,731	Gallons	
Authorized Consumption (AC) - Annual Volume	89,230,521	Gallons	
Distribution System Leakage - Annual Volume <b>TP - AC</b>	38,219,210	Gallons	
Distribution System Leakage - Percent DSL = $[(TP - AC) / TP] \times 100$	30	%	
3-Year Annual Average - Percent	27.3	%	2016, 2017, 2018

### Goal-Setting Information

Date of most recent public forum: July 12, 2016  
 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 have been measuring success by the decreases in water use during the summer months  
 Additional Information: We are doing a galvanized repair project in 2019 which should reduce our water loss.

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

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 Access Washington  
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#### Alternate Format Requests

For people with disabilities, Web documents i formats are available on request. To submit a please contact: Web Management Team.

**MONTHLY WELL PRODUCTION VERSUS USAGE BILLED**  
2018

WELL	GALLONS PRODUCED - DATA FROM SOURCE METERS MONTHLY DOH REPORTS												TOTALS
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
EUREKA #1 - 501	2,878,590	2,431,114	2,690,407	2,676,687	2,900,141	2,877,921	3,549,005	3,279,287	2,757,581	2,828,115	2,644,533	2,819,950	34,333,331
EUREKA #3 - 508	379,100	239,600	264,600	281,800	350,300	389,000	580,400	486,200	281,800	188,700	183,400	385,000	4,009,900
#603 - 505	7,537,000	6,630,000	7,337,000	7,118,000	7,378,000	7,278,000	7,790,000	7,563,000	6,599,000	6,275,000	6,285,000	7,441,000	85,231,000
BAICHTTEL #2 - 509	357,100	271,700	295,100	301,900	339,800	348,300	435,900	398,400	292,500	263,400	250,700	320,700	3,875,500
Average Leaks per report													
TOTAL PRODUCED	11,151,790	9,572,414	10,587,107	10,378,387	10,968,241	10,893,221	12,355,305	11,726,887	9,930,881	9,555,215	9,363,633	10,966,650	127,449,731

	USAGE BILLED - DATA FROM BILLING SYSTEM												TOTALS
	JAN/FEB	MAR/APR	MAY/JUN	JUL/AUG	SEP/OCT	NOV/DEC							
CUBIC FEET SOLD	2,000,336	1,603,673	2,081,315	2,482,510	1,751,325	1,773,985	11,693,144						
Know Water Leaks	311,040	327,400	190,300	175,100	283,600	472,290	1,759,730						
CONVERT TO GALLONS	15,274,592	12,323,707	15,759,617	18,745,564	13,384,421	13,742,619	89,230,521						
Jan / Feb													

TOTAL GALLONS PRODUCED 127,449,731  
 TOTAL GALLONS SOLD 89,230,521  
 DIFFERENCE 38,219,210

PERCENTAGE OF LOSS 29.99% Unaccounted for water loss.

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