Washington State Department of Health
Division of Environmental Health
Office of Drinking Water

Date Submitted: 4/23/2024

Water Use Efficiency
Annual Performance Report - 2023

WS Name: Coyle

Water System ID# : 36711 WS County: JEFFERSON

Report submitted by: *William Graham*

Meter Installation Information:

Estimate the percentage of metered connections: *100%*

If not 100% metered – Did you submit a meter installation plan to DOH? No

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:

12-Month WUE Reporting Period *02/08/2023* To *01/08/2024*

Incomplete or missing data for the year? *No*

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	*5,159,000*	gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*1,838,663*	gallons	
Distribution System Leakage – Annual Volume TP – AC	*3,320,337*	gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*64.4 %*		
3-year annual average - %	*60.7 %*		*2021, 2022, 2023*

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: *09/23/2020*

Has goal been changed since last performance report? *No*

Note: Customer goal must be re-established every 6 years through a public process.

Customer WUE Goal (Demand Side):

The Demand/Customer Side Goal established, and approved by the PUD BOC, in the 2020-2025 Water Use Efficiency Program is: 1. Maintain gallons per day per connection at 3-year mean average (2017 - 2019).

Customer (Demand Side) Goal Progress:

The 4-tier water conservation rate structure remains in place as an incentive for customers to conserve water. Billing statements graph annual usage by month allowing the customer to track and compare monthly usage and sometimes identify leaks. Customers receive an annual water newsletter that includes links to the PUD's website and conservation tips for indoor and outdoor water usage. Rebates are available for customers who have purchased new energy and water efficient clothes washers. Information on how to apply can be found at https://www.jeffpud.org/additional-rebates/.

Last year, the per connection daily usage (in gallons per day or gpd) fell to 44 gpd, which is 25 gallons below the set goal of 69 gpd. This was likely due to people occupying their homes seasonally for shorter periods during the year. Also, high heat and dryness was less in south county in 2023 than in recent years. As a whole, Coyle active customers (those using water over 180 days a year), do fluctuate year to year and 2023 was no different. Regardless, well done!

Additional Information Regarding Supply and Demand Side WUE Efforts

Well water levels remain stable and do not display any trends up or down. Water level measurements fluctuate likely due to time in which they are measured and degree to which levels have recovered after pumping.

Last year, we had some staff changes that delayed our Coyle water line replacement project to help us fix our major leakage problem. We still pump more water than we sell, meaning the required 3-year 10% leakage standard has yet to be met. If all the water loss is leakage, it equates to over 6 gallons per minute, 24/7/365. Our production goals were not met either, which themselves were set based on a leakage distorted amount. Line replacement is in the budget for 2023 and we hope to get as much done this year as possible. If you see any leaks – of which there are likely many - please let us know. The battle for a tight water system continues!

Describe Progress in Reaching Goals:

- Estimate how much water you saved.
- Report progress toward meeting goals within your established timeframe.
- Identify any WUE measures you are currently implementing.
- If you established a goal to maintain a historic level (such as maintaining daily consumption at 65 gallons per person per day for the next two years) you must explain why you are unable to reduce water use below that level.

See descriptions above.

The following questions will help DOH better understand water usage, water resources management and drought response. The data will be used to provide technical assistance, not for regulatory purposes.

All questions are voluntary

Month	Date of Measurement	Static Water Level (feet below measuring point)	Dynamic Water Level (feet below measuring point)
January	01/02/2023	232.4	
February	02/01/2023	232.0	
March	03/01/2023	232.6	
April	04/01/2023	232.4	
May	05/01/2023	232.6	
June	06/01/2023	232.4	
July	07/01/2023	233.1	
August	08/01/2023	233.2	
September	09/09/2023	235.5	
October	10/06/2023	233.2	
November	11/07/2023	234.6	
December	12/01/2023	235.0	

Water level data:

Please provide the following information (if known) to help us better utilize the water level data.

Well tag Id number: ACQ526

Well depth: 322.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)	1 ft
Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc…)	cased, open-ended, screened interval.
Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)	47.69809, -122.80067; 10 ft
Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)	depth below measuring point.
Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)	239.3 ft

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)?

Month	Volume of Water Produced in gallons
January	378,000
February	395,000
March	536,000
April	379,000
May	454,000
June	447,000
July	457,000
August	425,000
September	421,000
October	368,000
November	415,000
December	484,000

Water shortage response:

Did you activate any level of water shortage response plan the previous year?

- ☐ Yes
- ☐ No
- ☑ There was no need to

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

What factors caused your water shortage the previous year?

- ☐ Drought
- ☐ Fire
- ☐ Landslides
- ☐ Earthquakes
- ☐ Flooding
- ☐ Water Supply Limitations
- ☐ Other

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