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

Date Submitted: 6/13/2023

Water Use Efficiency
Annual Performance Report - 2022

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 *02/07/2022* To *01/06/2023*

Incomplete or missing data for the year? *No*

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	*4,698,000* gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*1,745,080* gallons	
Distribution System Leakage – Annual Volume TP – AC	*2,952,920* gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*62.9 %*	
3-year annual average - %	*56.9 %*	*2020, 2021, 2022*

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 four-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 throughout the year and compare same period the previous year. Customers can also get rebates for using water and energy efficient clothes washers. Each year customers receive a water newsletter that includes links to the website where they can review both indoor and outdoor water conservation tips.

Customers saved 132,915 relative to 2021.

Additional Information Regarding Supply and Demand Side WUE Efforts

The 3 Supply Side Goals approved by the BOC in the 2020-2025 Water Use Efficiency Program are:
1. Supply Side - Maintain distribution systems leak (DSL) percentage at or below 10-percent of system production as calculated on a 3-year average (2017, 2018, 2019).

2. Supply Side - Water systems not at or below DSL of 10-percent, reduce DSL by 10-percent in the next 3-years (Note: Baseline 3-year average from 2017, 2018, 2019 is 57.6%)

3. Supply Side - Maintain water production at or below the 3-year mean average (2017, 2018, 2019)

The high distribution system leakage (DSL) problem persists. Believed to be due to inferior and failing distribution lines from the original installation, the solution – water main replacement - will take time. The DSL value for 2022 was up to 63.9% and moved the 3-year average up to 56.9%. With the 3-year average well over the state's 10%. PUD engineering is working to replace more of the leaking transmission line in the near future as a means to mitigate the leakage. In 2022, the PUD produced well over it's 3 year average goal by about 500,000 gallons. Crews will continue to diligently repair system leaks and work to reduce leakage as much as possible.

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.

Described previously.

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	01/03/2022	251.2	
February	02/07/2022	233.5	
March	03/07/2022	250.0	
April	04/04/2022	247.6	
May	05/09/2022	239.7	
June	06/06/2022	233.0	
July	07/11/2022	232.8	
August	10/01/2022	233.9	
September	09/12/2022	233.1	
October	10/03/2022	233.0	
November	11/07/2022	244.4	
December	12/05/2022	233.0	

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)	47.698089, -122.800669
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	112,254
February	117,850
March	100,779
April	121,299
May	154,081
June	125,693
July	146,558
August	230,021
September	214,439
October	166,184
November	116,663
December	96,800

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

Do not mail, fax, or email this report to DOH