



Date Submitted: 6/2/2021

## Water Use Efficiency Annual Performance Report - 2020

WS Name: QUIMPER

Water System ID# : 05783

WS County: JEFFERSON

Report submitted by: *Samantha Harper*

### 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 01/01/2020 To 12/31/2020

Incomplete or missing data for the year? No

If yes, explain:

<b>Total Water Produced &amp; Purchased (TP)</b> – Annual volume gallons	285,450,560 gallons
<b>Authorized Consumption (AC)</b> – Annual Volume in gallons	256,835,133 gallons
Distribution System Leakage – Annual Volume TP – AC	28,615,427 gallons
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	10.0 %
3-year annual average - %	8.2 % 2018, 2019, 2020

### 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? Yes

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

### Customer WUE Goal (Demand Side):

*The one Demand Side Goals established, and approved by the BOC, in the 2020-2025 Water Use Efficiency Program is:*

*1. Maintain gallons per day per connection at 3-year mean average.*

## Customer (Demand Side) Goal Progress:

The 2020 customer average consumption of 145 gals/connection/day was above the baseline customer average consumption by 34 gallons per day per connection. The increase may be too due to more customers staying at home due to COVID-19. Also, there are neighborhoods with historically high-water use. While only around 1% of our customers use this much water, this high usage drains resources and limited the system's ability to accommodate new customers. Effective January 2020, the PUD BOC approved, by Resolution, a fourth-tier water rate. The customer would reach the fourth-tier rate when consumption exceeds thirty thousand gallons per month. The was intended to aid in the conservation of water.

## Additional Information Regarding Supply and Demand Side WUE Efforts

*The three Supply Side Goals established, and 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.*
- 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 2019, 2018 & 2017)*
- 3. Supply Side - Maintain water production at or below the 3-year mean average.*

## 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.

*Last year, the PUD produced more well water than usual to meet operational needs. Overall, however, the PUD is in compliance with it's unaccounted for water loss continuing to be under 10%. The Quimper water system – the largest ground water sourced water system on the north Olympic Peninsula – has always met the annual state leakage standard. Our crews take great pride in quickly identifying and fixing leaks and production inefficiencies and will continue to do so in the future. In 2020, the PUD upgraded the system controls, in order to access the reservoir levels and other information via the web. The 3-year average leakage rate increased in 2020 from the baseline years (2019, 2018 and 2017) by about 1-percent. However, as stated above the PUD crew continues to work diligently to keep the leakage rate under 10-percent.*

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	01/02/2020	76.5	
February	02/03/2020	77.6	
March	03/02/2020	82.3	
April	04/01/2020	82.3	
May	05/01/2020	82.4	
June	06/01/2020	81.3	
July	07/01/2020	77.1	
August	08/03/2020	76.7	
September	09/01/2020	75.2	
October	10/01/2020	73.8	
November	11/02/2020	74.1	
December	12/01/2020	74.6	

**Water level data:**

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

Well tag Id number: ARQ250

Well depth: 125.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft) 0

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...) Open Ended Cased

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft) 48°02'06"N, 122°47'07"W

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface) Depth above sea level

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7) Relation to sea level

### 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	
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

### 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**