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

Date Submitted: 6/24/2022

Water Use Efficiency
Annual Performance Report - 2021

WS Name: COUPEVILLE TOWN OF

Water System ID# : 15550 WS County: ISLAND

Report submitted by: *Joseph Grogan*

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 *01/01/2021* To *12/31/2021*

Incomplete or missing data for the year? *No*

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	*90,349,223*	gallons	
Authorized Consumption (AC) – Annual Volume in gallons	*73,391,867*	gallons	
Distribution System Leakage – Annual Volume TP – AC	*16,957,356*	gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	*18.8 %*		
3-year annual average - %	*12.1 %*		*2019, 2020, 2021*

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: *09/28/2021*

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):

WUE Goal 2 – Decrease Annual Peak Demand
The Town's second conservation goal over the next five years is to decrease the adjusted annual peak season demand by one percent each year. As noted above, the adopted water rates incorporate a tiered structure to promote water conservation and reduce irrigation demand. The Town plans to take the following steps to further assist in reaching this goal:
• Consumer awareness of summer watering conservation through education and voluntary participation (watering at dawn or dusk, and on even or odd days of the month)
• Encouraging low-impact development measures
• Leak detection, repair, and implementation of WUE Goal 1.

Customer (Demand Side) Goal Progress:

Additional Information Regarding Supply and Demand Side WUE Efforts

WUE Goal 1 – Reduce DSL Below 10%
The Town's first conservation goal is to reduce system water loss to below 10% over the next three years. The Town has plans to achieve this goal through:
• Replacement of a failing water main along South Engle Road that serves the Fort Casey area.
• A water meter replacement program to provide more accurate water consumption records.
• Identification and replacement of old and/or leaking water mains.

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.

Budgeted for the Replacement of a failing water main along South Engle Road that serves the Fort Casey area.

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	01/30/2021		141.1
February	02/28/2021		143.0
March	03/31/2021		142.8
April	04/30/2021		143.7
May	05/31/2021	129.3	
June	06/30/2021		146.8
July	07/31/2021		148.5
August	08/31/2021		147.1
September	09/30/2021		146.2
October	10/31/2021		146.1
November	11/30/2021		145.9
December	12/31/2021		142.0

Water level data:

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

Well tag Id number:	AFT338
Well depth:	200.0
Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft)	0.1
Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc…)	cased open-ended with perforations
Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)	48.192.33-- 122.637.99
Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)	below top of casing
Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)	190

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 418,200

Month	Volume of Water Produced in gallons
January	6,127,844
February	5,662,704
March	6,584,671
April	6,632,718
May	7,372,505
June	8,463,312
July	10,653,282
August	9,665,713
September	7,381,169
October	7,115,017
November	7,119,471
December	7,570,817

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