

Water Use Efficiency Annual Performance Report - 2021

WS Name: MOUNT BAKER WATER ASSOCIATION

Water System ID# : 56500 WS County: WHATCOM

Report submitted by: ROBERT HAUGHT

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	26,547,570 gallons
Authorized Consumption (AC) – Annual Volume in gallons	20,497,429 gallons
Distribution System Leakage – Annual Volume TP – AC	6,050,141 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	22.8 %
3-year annual average - %	13.9 % 2019, 2020, 2021

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 02/20/2019

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):

Reduce customer consumption and maintain close observations of water lines for leaks

Customer (Demand Side) Goal Progress:

We have reduced our consumption over the years, but we still have a couple major leaks, especially during the wet months that are difficult to find.

Additional Information Regarding Supply and Demand Side WUE Efforts

We are constantly monitoring our water lines for leaks. We have asked our customers to also keep an eye out for leaks. Several of our latest leaks have been in service lines and Stanchion. When we find such leaks we have been replacing the service line and taking out the Stanchions that are no longer of use.

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.

We have maintained water useage of between 18,000,000 and 20,000,000 over the last 5 years while we have increased the number of services that exist in our system.

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	01/26/2021	14.0	
February	02/23/2021	12.3	
March	03/22/2021	14.2	
April			
May	05/01/2021	13.7	
June	06/11/2021		14.3
July	07/16/2021		14.8
August	08/04/2021		15.3
September			
October	10/16/2021	13.1	
November	11/17/2021		8.3
December	12/13/2021		11.7

Water level data:

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

Well tag Id number:

Well depth: 61.0

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

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

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft)

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

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

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 145,000

Month	Volume of Water Produced in gallons
January	2,431,900
February	2,077,230
March	2,808,105
April	2,267,860
May	1,879,760
June	2,577,980
July	4,130,085
August	2,890,680
September	1,559,505
October	1,290,975
November	1,259,520
December	1,524,985

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