



Date Submitted: 4/23/2024

Water Use Efficiency Annual Performance Report - 2023

WS Name: MATS VIEW

Water System ID# : 05536

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 02/07/2023 To 01/04/2024

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	1,947,970 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,753,367 gallons
Distribution System Leakage – Annual Volume TP – AC	194,603 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	10.0 %
3-year annual average - %	6.0 % 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):

Demand Side Goal 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. (2017 – 2019) of 179 gpd. Goals were based on single family home use.

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/>.

Use per connection remained high in 2023 at 192 gpd, or about 13 gallons over the goal of 179 gpd. Usually, high customer usage is tied to landscaping which is likely in this case. Several hot summers in a row also may have stressed gardens and yards or new plantings are requiring more water than usual.

Additional Information Regarding Supply and Demand Side WUE Efforts

The Mats View well water levels have remained stable showing normal, seasonal drawdowns and recharge recoveries even while recent precipitation trends have been less than average. The seasonal variability illustrates the aquifer's dependency upon precipitation. We will continue to monitor water levels for trends. Regardless, wise water use is warranted.

Last year, the PUD pumped 405,000 gallons more than its production goal likely due to a mix of factors. Leakage often is a problem over time with water systems on slopes and/or unstable soils. Demand also was likely higher than normal due to a dry spring and summer. That being said, the system still comfortably met the state leakage standard 3 year average of 10% leakage or less (6%). If you see a leak or water somewhere it shouldn't be, please give us a call.

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	108.6	
February	02/01/2023	108.2	
March	03/01/2023	108.9	
April	04/01/2023	108.9	
May	05/01/2023	109.1	
June	06/01/2023	109.3	
July	07/01/2023	127.3	
August	08/01/2023	130.3	
September	09/09/2023	130.3	
October	10/06/2023	140.5	
November	11/07/2023	109.6	
December	12/01/2023	108.8	

Water level data:

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

Well tag Id number: BAC253

Well depth: 192.0

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 interval, no perforations, screened.

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft) 47.953, -122.699 (~ 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) 206.9 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	105,390
February	79,770
March	101,980
April	98,540
May	258,110
June	345,880
July	381,260
August	219,810
September	98,840
October	92,570
November	80,390
December	85,430

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