



Date Submitted: 4/29/2024

Water Use Efficiency Annual Performance Report - 2023

WS Name: BELFAIR WATER DISTRICT 1

Water System ID# : 05350 WS County: MASON

Report submitted by: *James Freeman*

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 01/01/2023 To 12/31/2023

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	57,041,585 gallons
Authorized Consumption (AC) – Annual Volume in gallons	50,692,128 gallons
Distribution System Leakage – Annual Volume TP – AC	6,349,457 gallons
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 %	11.1 %
3-year annual average - %	11.1 % 2021, 2022, 2023

Goal-Setting Information:

Enter the date of most recent public forum to establish WUE goal: 06/26/2018

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):

Our daily consumption from below 238 per/eru to below 200 gallons per day/eru by 2024 (17% reduction)

Customer (Demand Side) Goal Progress:

The District has been involved with the community through farmers markets, once a year local elementary school educational days event, also tips on conservation through monthly billing.

Report clearly indicates that we have steadily been improving over the past six years.

This year we are at 209 gallons per eru per day the district will be completing meter replacement program this year which will keep improving the district water accuracy also will hire a leak detection firm again this year to evaluate another section of the district.

Additional Information Regarding Supply and Demand Side WUE Efforts

The Districts progress has been steady over the last six years, we have hired a leak detection firm the last three years to evaluate sections of the District and will continue to do so this has resulted in 29 leak repairs so far, we will continue the public education also will finish meter replacement program this year it has been very beneficial for accuracy of billing and water loss

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.

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	01/01/2023	181.8	
February	02/01/2023	182.1	
March	03/01/2023	181.8	
April	04/01/2023	182.1	
May	05/01/2023	181.9	
June	06/01/2023	181.7	
July	07/01/2023	181.0	
August	08/01/2023	181.4	
September	09/01/2023	180.7	
October	10/01/2023	180.4	
November	11/01/2023	180.1	
December	12/01/2023		119.6

Water level data:

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

Well tag Id number: aba 656

Well depth: 640.0

Water level accuracy (within 0.01 ft < 1 ft ~ 1 ft) 188

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) ne/nw 2b 23 1w

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface) 188ft 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) 350 above sea level

Monthly/Seasonal Water Usage:

What was your maximum daily water demand for the previous year (in gallons per day)? 187,596

Month	Volume of Water Produced in gallons
January	4,237,385
February	3,073,064
March	3,269,335
April	3,216,777
May	5,042,442
June	5,865,034
July	7,095,821
August	6,344,885
September	5,225,095
October	4,701,601
November	4,486,363
December	4,494,318

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