



Date Submitted: 6/14/2023

Water Use Efficiency Annual Performance Report - 2022

WS Name: SNOW CREEK

Water System ID# : 01220

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 12/16/2022 To 01/13/2023

Incomplete or missing data for the year? No

If yes, explain:

Total Water Produced & Purchased (TP) – Annual volume gallons	1,599,950 gallons
Authorized Consumption (AC) – Annual Volume in gallons	1,424,398 gallons
Distribution System Leakage – Annual Volume TP – AC	175,552 gallons
Distribution System Leakage – DSL = $[(TP - AC) / TP] \times 100 \%$	11.0 %
3-year annual average - %	7.6 % 2020, 2021, 2022

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):

The Demand/Customer Side Goals established and approved by the PUD BOC in the 2020-2025 Water Use Efficiency Program is: 1.Demand Side – Maintain 83 gallons per day per connection at 3-year mean average (2017 - 2019).

Customer (Demand Side) Goal Progress:

The four-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. Rebates for water efficient clothes washers remain available to those who are also PUD power customers. Customers receive annual water newsletters with links to conservation tips on the utility's website.

In 2022, Snow Creek customers used 75.5 gal/day meeting the customer demand goal set by the PUD BOC in 2020. Small lots and the seasonal nature of occupancy may have contributed to the low use, but this is built into the goal based on measured usage over time.

Customers collectively in 2022 used 157,354 gals less than in 2021.

Additional Information Regarding Supply and Demand Side WUE Efforts

The three Supply Side Goals set 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.*

The Snow Creek water system achieved 11% DSL in 2022, however the regulatory 3 year average is 7.6% and below the state 10% leakage standard. Similarly, the system also met the second goal staying below 10% DSL. Well production for 2022 was 1,599,950, significantly above the 3-year media average target of 1,328,824 gallons. A new wellhouse with improved controls is set to be installed this year with newer, more modern controls that will likely improve efficiencies and reduce DSL losses.

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.

Relative to 2021, the PUD produced 82,740 gals less in 2022, but was far below the supply goal.

The PUD water crew diligently pursues and fixes system leaks when identified. The installation of the new well house with controls should reduce leakage next year and into the future.

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	01/05/2022	18.5	
February	02/04/2022	19.0	
March	03/01/2022	18.7	
April	04/05/2022	19.1	
May	05/05/2022	18.7	
June	06/10/2022	18.9	
July	07/12/2022	20.1	
August	08/09/2022	30.7	
September	09/16/2022	22.4	
October	10/07/2022	20.9	
November	11/14/2022	21.1	
December	12/06/2022	20.1	

Water level data:

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

Well tag Id number: AEA126

Well depth: 55.0

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 ended, with perforations

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, ~1ft, >1000ft) 47.941, -122.885 (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) 215 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	86,038
February	95,397
March	82,338
April	92,999
May	103,036
June	104,588
July	124,368
August	171,801
September	176,212
October	175,842
November	115,851
December	66,019

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