



Date Submitted: 6/8/2017

Water Use Efficiency Annual Performance Report - 2016

WS Name: GARDINER LUD 1

Water System ID# : 07877

WS County: JEFFERSON

Report submitted by: *William Graham*

Meter Installation Information:

Estimate the percentage of metered connections: *100%*

If not fully metered - Current status of meter installation:

Production, Authorized Consumption, and Distribution System Leakage Information:

12-Month WUE Reporting Period: *12/15/2015* To *12/15/2016*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	9,253,300 gallons
Authorized Consumption (AC) – Annual Volume	7,451,290 gallons
Distribution System Leakage – Annual Volume TP – AC	1,802,010 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	19.5 %
3-year annual average	7.5 %

Goal-Setting Information:

Date of Most Recent Public Forum: *12/15/2010* Has goal been changed since last performance report? *No*

Note: Customer goal must be re-established every 6 years through a public process

WUE Goals:

Customer Goal (Demand Side):

Reduce residential customer demand by 2% over 6 year planning period (2011 - 2017) Reduce state and local governmental demand by 2% over planning period.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Gardiner customers in 2016 saved nearly 2 million gallons collectively compared to 2015 which was then dominated by a very hot and dry summer. This conspicuous drop in usage was likely due to reduced use on residential landscaping (a response to a "normal" summer). Relative to the conservation goals tagged to 2011 usage, overall usage by Gardiner customers is down by nearly 9%, blowing by the 2% usage drop goal for the planning period. This too is likely due to landscaping and perhaps land use practice changes over the course of the planning period. Current water conservation measures include rebates on showerheads and water efficient clothes washers, conservation item giveaways at local fairs and events and a 2-tiered water rate structure. The PUD will re-establish its water conservation goals in 2018 in conjunction with its next scheduled water system plan update.

The PUD's customer demand and utility supply goals will be reviewed in conjunction with its update of its water system plan scheduled in 2018.

Additional Information Regarding Supply and Demand Side WUE Efforts

Include any other information that describes how you and your customers use water efficiently:

Gardiner water system was subject to a major leak early in 2016 and an equipment failure that was the root cause the significant discrepancy between produced and customer used water. A solenoid within our deep well failed causing the pump to run continuously with a valve in the well stuck open. Some water was pushed back into the well, some of which went through the production meter multiple times. The pump was pulled and the clinoid was replaced late in 2016. Monthly reconciliation of production verses consumption has since returned to less than 10% after descending from 40% during the equipment failure. Regardless, the Gardiner water system from both the supply and demand side has conserved water effectively over the 2011 – 2017 planning period. The utility will review and update its water use efficiency goals in 2018 when it updates its water system plan.

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