

Water Use Efficiency Annual Performance Report - 2018

WS Name: BELLINGHAM-WATER DIVISION CITY OF Water System ID# : 05600 WS County: WHATCOM

Report submitted by: *Riley Grant*

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: *01/01/2018* To *12/31/2018*

Incomplete or missing data for the year? *No*

If yes, explain:

Distribution System Leakage Summary:

Total Water Produced and Purchased (TP) – Annual Volume	3,157,990,000 gallons
Authorized Consumption (AC) – Annual Volume	3,238,290,650 gallons
Distribution System Leakage – Annual Volume TP – AC	-80,300,650 gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	-2.5 %
3-year annual average	%

Goal-Setting Information:

Date of Most Recent Public Forum: *10/13/2014* 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):

1. Maintain annual city-wide Average Daily Demand below 10 million gallons per day (mgd) during the 2014-2019 program period. 2. Maintain average peak day demand between June 1 and August 31 of each year to below 14 mgd during the 2014-2019 program period.

Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

Continue rebates for single-family customers, 66 water assessments conducted, 16 toilets and 12 clothes washers retrofit and rebated through with an estimated water savings of 134,000 gallons of water per year. Continue rebates for commercial customers - 17 commercial water assessments conducted, 18 sites completed conservation projects or direct installs with an estimated water savings of 138,000 gallons per year. Extend rebates to multi-unit customers - 541 assessments conducted at 11 multi-unit properties, 39 toilet replacements with an estimated water savings of 390,000 gallons per year. Establish Best Management Practices for irrigation water customers - 13 Best Management Practices established for irrigation water customers; weather-based irrigation controller rebate approved. Establish Best Management Practices for industrial water customers – In process. Establish Best Management Practices for institutional customers – complete. Continued contracts with community partners for the residential, commercial and institutional water assessments via the Community Energy Challenge; WSU Whatcom County Extension for the Sustainable Landscaping workshops. Develop a system-wide water use efficiency cost-benefit analysis – In process. Reduce Water Treatment Plant operational water use via implementation of greater water efficient technology- Complete- the dissolved air floatation pretreatment system came online in September 28, 2018. The first eight months of operation saved approx. 38 million gallons of water. Conduct sustainable water management demonstration projects with community partners - installed a demonstration rain catchment project at Fairhaven Community Garden.

Additional Information Regarding Supply and Demand Side WUE Efforts

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

Now that our system is fully metered, it is apparent that our source meter is inaccurate. We will work with a qualified contractor to assess the meter calibration program.

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