



Date Submitted: 6/12/2017

## Water Use Efficiency Annual Performance Report - 2016

WS Name: TRITON COVE

Water System ID# : 89447

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	<i>1,736,300</i> gallons
Authorized Consumption (AC) – Annual Volume	<i>1,442,050</i> gallons
Distribution System Leakage – Annual Volume TP – AC	<i>294,250</i> gallons
Distribution System Leakage – Percent DSL = $[(TP - AC) / TP] \times 100$	<i>16.9 %</i>
3-year annual average	<i>16.1 %</i>

### 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 (2011-2017).*

### Describe Progress in Reaching Goals:

Customer (Demand Side) Goal Progress:

*Triton Cove customers used more water as a group in 2016 than in 2015 despite a warmer than normal summer in 2015. Triton Cove area is highly seasonal in use with many "snowbirds" splitting their time - probably inconsistently - between homes. Usage as a whole is highly variable historically while the number of customers has remained static. Relative to 2011, the customer goal benchmark, customers used 4% less water in 2016 (saving 61,530 gallons), exceeding its 2% reduction goal for the planning period. Over the course of planning period measures available to Triton Cove customers included conservation kit and low flow showerhead giveaways at office and fairs, conservation education billing inserts, web pages and tiered conservation water rates. Of these measures, the tiered rates, the web pages and conservation giveaways have been active consistently over the entire rate period while others have been intermittently deployed, most often during drought.*

#### **Additional Information Regarding Supply and Demand Side WUE Efforts**

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

*The supply side effort has been hurt over the last few years after a short period of low loss in the mid-2000s. According to the Washington State Coastal Atlas, the entire Triton Cove service area (minus the main well in the BPA easement) is "considered unstable because of geology, groundwater, slope and/or erosional factors." Since the Nisqually earthquake in 2001, the system has had intermittent leakage issues. Crews identify and repair leaks regularly when identified. However, due to the nature of the slope, many seeps are mistaken for leaks or leaks simply go for long periods undetected. Existing older, poor quality distribution lines may also be responsible. While 2016 was an improvement over 2015 in terms of leakage (17% verses 19%), long term leakage mitigation is increasingly becoming a game of whack-a-mole where crews futilely battle the inevitable and inconsistent effects of downslope movement of the hillside. Water line replacement has been discussed internally as a potential solution. However, due to the slope instability and the other geologic forces that may be at work, getting below the 10% leakage standard may always be challenging regardless of efforts to fix it. The PUD will evaluate its 2011 - 2017 water conservation goals when it revises its water system plan in 2018.*

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