Date Submitted: 7/20/2016



Water Use Efficiency Annual Performance Report - 2015

WS Name: GRAHAM HILL MUTUAL WATER CO INC Water System ID# : 28650 WS County: PIERCE	
Report submitted by: David Gaylord	
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 Period01/01/2015To12/31/2015Incomplete or missing data for the year?NoIf yes, explain:	
Total Water Produced & Purchased (TP) – Annual volume gallons 27,003,876 gallons	
Authorized Consumption (AC) – Annual Volume in gallons26,805,780 gallons	
Distribution System Leakage – Annual Volume TP – AC 198,096 gallons	
Distribution System Leakage – DSL = [(TP – AC) / TP] x 100 % 0.7 %	
3-year annual average - % 2.2 % 2013, 2014	, 2015
Goal-Setting Information:	

Enter the date of most recent public forum to establish WUE goal: 09/27/2014

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):

To maintain per capita daily use at 20% or better below the National average.

Customer (Demand Side) Goal Progress:

In addition to member education, GHMWCI has for years had a bar graph on the member billing that details usage for the past year by month. Graham Hill has for years utilized a 4 tier rate structure that charges for the commodity from the first gallon, and strongly discourages high water use. The rate structure is also broken into a "commodity" portion and a "base" rate to ensure the financial health of

the company.

Since the implementation of these policies Graham Hill has seen a dramatic decrease in consumption per ERU. We are on the low side of consumption numbers across the nation. Historical annual average usage per ERU since implementation of tiered rate structure - - Assuming 2.91 family members

2009 205.64 GPD 70.7 G/person/day 2010 173.58 GPD 59.6 G/person/day 2011 177.21 GPD 60.9 G/person/day 2012 162.09 GPD 55.7 G/person/day 2013 160.92 GPD 55.3 G/person/day 2014 173.54 GPD 59.6 G/person/day 2015 178.12 GPD 61.2 G/person/day We are using 8.7 million gallons a year less than we were six years ago.

Graham Hill Mutual Water Company Inc (GHMWCI) has less than 420 connections and therefore

must evaluate or implement one supplementary water use efficiency measure in addition to the mandatory measures. The following sections describe the mandatory measures and the supplemental measures GHMWCI has in force.

Mandatory Measures:

1. Source and Service Metering and Meter Calibration

GHMWCI currently, and has for years, metered all customers and sources. Large meters are calibrated IAW AWWA and/or manufacturer standards. GHMWCI pursues an aggressive meter replacement program - 10% per year. GHMWCI is already in compliance with this requirement.

2. Leak Detection and Water Accounting

Graham Hill has maintained a low Distribution System Leakage (DSL) for over 2 decades. The three-year rolling average is 2.16 percent and is in compliance with this requirement.

Additional Information Regarding Supply and Demand Side WUE Efforts

3. Customer Education

GHMWCI sends out monthly water conservation tips to their customers in the monthly news letter

and on the monthly billing. In addition, GHMWCI has sections of the company web site dedicated to

customer education.

Continued in "Additional Information"

Additional Information Regarding Supply and Demand Side WUE Efforts

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

Flow demand is constantly monitored by SCADA and reviewed to identify leaks. As a member of

RWA, leak detection services are readily available. GHMWCI has a leak finder reward program for

our members. System Leakage - historical 2009 5.52% 2010 6.10% 2011 6.70% 2012 5.73% 2013 3.42% 2014 2.25% 2015 0.81% 3 yr rolling average 2.16%

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			
February			
March			
April			
Мау			
June			
July			
August			
September			
October			
November			
December			

Water level data:

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

Well tag Id number:

Well depth:

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

Completion type (e.g., cased open interval, cased open-ended, cased open-ended with perforations, etc...)

Location coordinates (latitude, longitude) and accuracy of the coordinates (< 1ft, \sim 1ft, >1000ft)

Water level parameter name (e.g. depth below measuring point, depth below top of casing, depth below ground surface)

Elevation of top of casing OR elevation of measuring point if different than top of casing (as specified in question 7)

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	
February	
March	
April	
Мау	
June	
July	
August	
September	
October	
November	
December	

Water shortage response:

Did you activate any level of water shortage response plan the previous year?

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

Mandatory Conservation

Mandatory Conservation

Rationing

Other

What factors caused your water shortage the previous year?

Drought

Flooding

Water Supply Limitations

Other

Do not mail, fax, or email this report to DOH