

## REPORT TO CITY COUNCIL

Approved by:

John Scarborough, Interim Public Works Director

Council Meeting of: April 3, 2019

Agenda Number: B-3

Arnoldo Rodriguez, City Manager

### SUBJECT:

Water Conservation Report for February 18<sup>th</sup> through March 17<sup>th</sup>

### RECOMMENDATION:

Staff recommends that City Council review the attached report of water conservation activities and progress in reducing residential water consumption. This monthly report is for informational purposes only.

### SUMMARY:

This report addresses four different areas of focus:

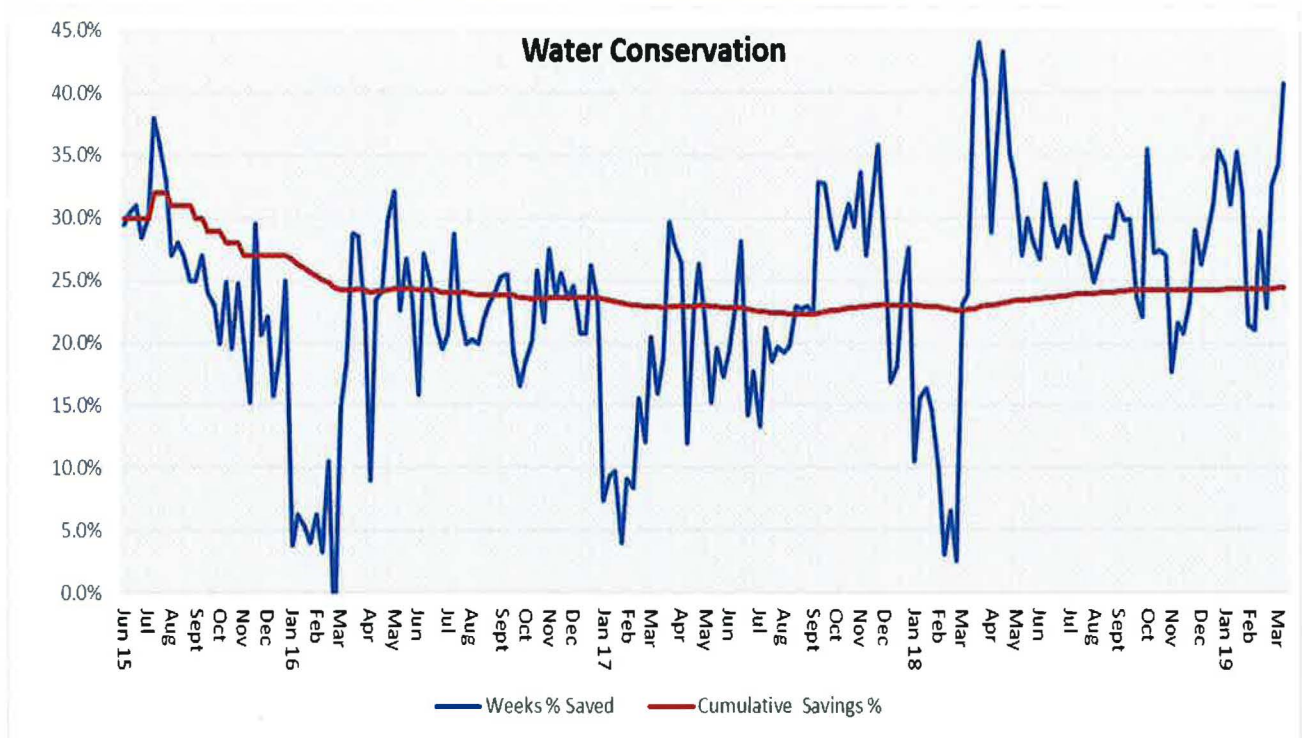
1. Water conservation and education
2. Water patrol activity
3. Water meter maintenance activity
4. Information on the overall capacity of the City's water wells, including the amount of production and reserve production capacity

### DISCUSSION:

As illustrated in the following chart, the City's average monthly water conservation rate for the period of February 18<sup>th</sup> through March 17<sup>th</sup> increased from 26.9 percent in 2018 to 32.6 percent this year. Below is the most current water conservation data.

**Monthly Conservation**  
 Feb. 18<sup>th</sup>  
 Through  
 Mar. 17<sup>th</sup>  
**32.6%**

**Cumulative Conservation**  
 June 1<sup>st</sup>, 2015  
 Through  
 Mar. 17<sup>th</sup>, 2019  
**24.5%**



**Water Conservation Outreach:**

As part of the Division’s local outreach and education program, water conservation and rebate information presentations were made at the following events:

**Conservation Outreach**

**Facebook and Twitter Postings**  
 Water conservation tips and rebate program info

**February Utility Billing Newsletter**  
 Watering schedule and articles regarding water conservation helpful hints and rebate program

**Events**  
 Millview School Resource Fair- 220 contacts  
 Rotary Health Fair – 75 contacts  
 James Monroe Health Fair – 175 contacts

**Water Conservation Activities:**

To encourage water conservation, staff conducts extensive outreach to educate customers. While on occasion an infraction may be issued, the vast majority of contacts are in the form of warnings and notices informing customers of areas that may need to be addressed. The following table provides a summary of such contacts.

<b>Enforcement</b>			
<b>Individual Contacts</b>	<b>103</b>	<b>1<sup>st</sup> offense (\$75)</b>	<b>5</b>
<b>Verbal Warnings</b>	<b>8</b>	<b>2<sup>nd</sup> offense (\$200)</b>	<b>0</b>
<b>Maintenance Notices</b>	<b>19</b>	<b>3<sup>rd</sup> or more offenses (\$500)</b>	<b>0</b>

**Water Meters:**

In addition to the monthly reading of the manual read meters and the service interruptions due to delinquency, the water meter staff performed various repairs and/or meter programming at 63 properties. Customer concern investigations were conducted and resulted in the discovery of leaks at 4 properties. Courtesy leak notifications were sent to an additional 25 properties.

**Water Conservation Rebate Program:**

A total of \$103,328.48 rebate dollars has been awarded to City of Madera utility customers to date this fiscal year. The program is on track to exceed the total rebate dollars awarded fiscal year 17/18 of \$108,549.

**System Capacity:**

The system has continued to produce adequate flows to meet our peak demand and maintain reserve fire flow capacity. This information is summarized in the Status Report on the following page.

**FINANCIAL IMPACT:**

The expenses for implementing and administering water conservation activities occur within the Water Fund and have no impact the General Fund.

**CONSISTENCY WITH THE VISION MADERA 2025 PLAN:**

The report is consistent with the Madera Vision Plan, specifically Strategy 434: Water Quality and Usage – Ensure continued water supplies to meet the demands of all Madeirans through innovative reclamation, conservation and education on water use.

**ALTERNATIVES:**

This is an informational report; no alternatives have been identified.

**ATTACHMENTS:**

1. Status Report February 18, 2019 through March 17, 2019 - Water Production and Reserve Fire Flow Capacity

**STATUS REPORT February 18th to MARCH 17TH, 2018  
WATER PRODUCTION AND RESERVE FIRE FLOW CAPABILITY**

**ATTACHMENT#1**

Dates	Day	Peak Temp	MG Pumped	Peak Hour	Lowest Pressure*	Lowest Tank Storage **	Wells Available	Wells On During Peak Hours	Wells in Reserve During Peak Hours	Reserve GPM at Peak	Reserves Meets Fire flow for			
											Residential 1,500 GPM	Commercial 2,500 GPM	Industrial 3,500 GPM	Hospital 4,500 GPM
2/18/2019	Mon	55	3.833	1pm-2pm	47	680,000	16	5	11	12283	Yes	Yes	Yes	Yes
2/19/2019	Tue	56	5.020	7pm-8pm	46	780,000	16	4	12	14620	Yes	Yes	Yes	Yes
2/20/2019	Wed	57	4.399	6pm-7pm	44	780,000	16	5	11	12641	Yes	Yes	Yes	Yes
2/21/2019	Thu	56	4.267	5pm-6pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/22/2019	Fri	57	4.302	1pm-2pm	45	780,000	16	4	12	13871	Yes	Yes	Yes	Yes
2/23/2019	Sat	60	4.446	12pm-1pm	42	780,000	16	5	11	12071	Yes	Yes	Yes	Yes
2/24/2019	Sun	66	4.616	8pm-9pm	45	780,000	16	5	11	12641	Yes	Yes	Yes	Yes
2/25/2019	Mon	72	4.467	5pm-6pm	45	780,000	16	5	11	13390	Yes	Yes	Yes	Yes
2/26/2019	Tue	67	4.427	7pm-8pm	45	780,000	16	4	12	13841	Yes	Yes	Yes	Yes
2/27/2019	Wed	70	4.398	8pm-9pm	45	820,000	16	4	12	13841	Yes	Yes	Yes	Yes
2/28/2019	Thu	65	4.275	7pm-8pm	46	780,000	16	4	12	13841	Yes	Yes	Yes	Yes
3/1/2019	Fri	65	4.205	8am-9am	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
3/2/2019	Sat	71	4.200	10am-11am	45	780,000	16	5	11	12641	Yes	Yes	Yes	Yes
3/3/2019	Sun	68	4.395	12pm-1pm	43	780,000	16	5	11	12071	Yes	Yes	Yes	Yes
3/4/2019	Mon	66	4.128	7pm-8pm	44	780,000	16	6	10	11820	Yes	Yes	Yes	Yes
3/5/2019	Tue	60	3.877	6pm-7pm	45	780,000	16	5	11	12041	Yes	Yes	Yes	Yes
3/6/2019	Wed	70	4.357	11am-12pm	45	780,000	16	6	10	11006	Yes	Yes	Yes	Yes
3/7/2019	Thu	62	4.237	7pm-8pm	46	780,000	16	5	11	13020	Yes	Yes	Yes	Yes
3/8/2019	Fri	56	4.116	12pm-1pm	45	780,000	16	4	12	13271	Yes	Yes	Yes	Yes
3/9/2019	Sat	57	4.343	9am-10am	45	780,000	16	6	10	10841	Yes	Yes	Yes	Yes
3/10/2019	Sun	61	4.314	3pm-4pm	45	780,000	16	5	11	13020	Yes	Yes	Yes	Yes
3/11/2019	Mon	64	4.225	8pm-9pm	43	780,000	16	7	9	10785	Yes	Yes	Yes	Yes
3/12/2019	Tue	66	4.287	12pm-1pm	44	780,000	16	6	10	11250	Yes	Yes	Yes	Yes
3/13/2019	Wed	61	4.417	12pm-1pm	45	780,000	16	5	11	12041	Yes	Yes	Yes	Yes
3/14/2019	Thu	65	4.377	7pm-8pm	45	780,000	16	7	9	10620	Yes	Yes	Yes	Yes
3/15/2019	Fri	70	4.222	8pm-9pm	45	780,000	16	5	11	12641	Yes	Yes	Yes	Yes
3/16/2019	Sat	73	4.585	7pm-8pm	45	780,000	16	6	10	12130	Yes	Yes	Yes	Yes
3/17/2019	Sun	77	4.794	12pm-1pm	45	780,000	16	7	9	10020	Yes	Yes	Yes	Yes

\* Goal is to keep system above 30 psi., below 20 cause regulatory issue.

\*\* Elevated tank has a 1,000,000 gallon maximum capacity.

19 **Total Wells**

2 **Wells Not Available**

#16 Being Retrofitted for Submersible Pump to Gain 500 gpm  
#27 Redevelopment in process

17 **Number of Wells Available**

**Daily Production**

