



STAFF REPORT

AGENDA NO: 9f

MEETING DATE: September 2, 2025

To: Honorable Mayor and City Council

Date: September 2, 2025

**From: Syed Murtuza, Director of Public Works – (650) 558-7230
Michael Heathcote, Deputy Director of Public Works Operations – (650) 558-7670**

Subject: Adoption of a Resolution Approving the Procurement of Water Meters and Advanced Metering Infrastructure (AMI) Radio Devices from Aqua-Metric Sales Company in an Amount Not to Exceed \$500,000 Annually for a Period of Five Years, for a Total Not-to-Exceed Amount of \$2,500,000

RECOMMENDATION

Staff recommends that the City Council adopt the attached resolution approving the procurement of new water meters and associated Advanced Metering Infrastructure (AMI) devices for the Public Works Department's routine Meter Replacement Program from Aqua-Metric Sales Company (Aqua-Metric), in a not-to-exceed amount of \$500,000 annually for a period of five years, for a total not-to-exceed amount of \$2,500,000.

BACKGROUND

The City of Burlingame Public Works Department's Water Division operates and maintains more than 9,000 metered water connections. These water meter connections, range from $\frac{3}{4}$ inch to 10 inches in sizes, serve the large number of residential customers along with a wide variety of institutions, offices, commercial, and industrial businesses.

The City of Burlingame has been using Sensus Metering Systems (Sensus) water meters for over 35 years. In 2006, the Public Works Department went through a competitive selection process to select water meters and associated Automatic Meter Reading (AMR) devices and standardized the City's metering system with Sensus. The City continues to select Sensus for the following key reasons:

- High approval rating by the American Water Works Association (AWWA);
- Longer service life for various sizes of water meters;
- Low cost of initial installation and maintenance over the life expectancy of the components; and
- Prolong use of existing water meter reading infrastructure.

That same year, the City launched a robust meter change-out program that replaced or rebuilt every water meter in the city over a ten-year period. At that time, Golden State Flow Measurement (GSFM) was the local authorized dealer for Sensus meters. In 2019, GSFM went out of business,

and Aqua-Metric became the local authorized distributor of Sensus meters and associated AMI and AMR devices for this region.

DISCUSSION

The Water Meter Replacement Program is based on the AWWA recommendations, which calls for the replacement of mechanical water meters every 10 to 20 years, depending on size as follows.

Frequency Years	Replacements
3	Test and/or replace meters 3 inches or larger
10	Replace or rebuild all 1 ½ & 2-inch meters
20	Replace all ¾ to 1-inch meter

Since the inception of the Water Meter Replacement Program in 2006, approximately 9,052 old, inefficient, and aging residential water meters have been replaced with new and efficient meters. This program included the transition to Advanced Meter Reading technologies. After completing the ten-year program, the testing and replacement of larger meters has continued as part of ongoing scheduled maintenance.

The meter consumption data collected by the AMR system demonstrated that the new meters significantly improve efficiency, enhance the City's ability to accurately capture and track water consumption, and reduce water losses.

Now that nearly 20 years have passed since the previous meter change out program was initiated, it is time to begin a new cycle of replacements. Over the next five years, staff plans to replace or rebuild all the ¾ to 2-inch meters. During this cycle of the project, staff will be transitioning from AMR technologies to newer AMI technologies. The deployment of AMI devices will allow for remote water meter reading and public access portals for the public to view their water consumption through online portals and mobile applications.

In 2024, City staff performed a study of available vendors that could deploy AMI technologies to determine the appropriate system. As a result of the study, staff has determined it is in the best interest of the community to continue with Sensus Metering Technologies.

Aqua-Metric is the authorized local distributor of Sensus meters and associated AMI devices. All purchases will be made from Aqua-Metric based on the attached price list.

FISCAL IMPACT

The City Council has approved funds in the FY 2025-26 Water Capital Improvements Program and Water Operations Budget to cover the costs for the procurement and installation of water meters and AMI devices. Funding for future fiscal years' purchases will be requested through the annual budget process.

Funding Source	Amount
Water CIP-Project 81390	\$400,000
Water Division Operations Budget	\$100,000
TOTAL:	\$500,000

Exhibits:

- Resolution
- Authorized Distributor Letter from Sensus
- Aqua-Metric Price List
- Aqua-Metric Proposal