

**Radio Read Meter Changeout Project**

**TOTAL COST:** \$150,000

**CONSTRUCTION SCHEDULE:** 2024 - 2025

**RANKING CRITERIA MET:**

Board Goals       Regulatory Requirement  
 Health & Safety       Service Delivery Need  
 NA Master Plan: \_\_\_\_\_

**PROJECT TYPE:**

Maintenance  
 Replacement  
 New/Expansion

**NEW ON-GOING COSTS?**

Yes \$1000      No \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**DESCRIPTION:**

As part of the water system improvements and joining the 20<sup>th</sup> century with technology, moving to an automated meter reading and billing system is the next step. With radio read or fixed base meter reading systems being used nationwide, there is a track record for reducing the manual labor in physically reading each meter and sending the reads to a billing office. With radio read and fixed base systems, the reading is all automated and system software can do the billing. The change will require replacing existing meters with the radio technology and require an annual software license.

**PROJECT SCOPE:**

The Scope is to replace the old, manual read meters and add the radio read technology. This will require a meter change out program and/or a replacement of the direct read portion of the meter with a radio/fixed base read component and converting to the radio read or fixed base system. Replacing the meter with new remote read technology would cost about \$235/meter.

**HISTORY:**

As part of the routine meter reading and billing, some meters are still manually read, and the reads given to a second party for manual entering into their billing system. This is time intensive and may result in human errors. With the new technology being used since the 1990's, there is a proven track record that radio read, and fixed base systems are accurate and a time saving tool. It frees up operators to work on the system which needs regular repairs and maintenance. With increased accuracy and real time reading and recording technology, the system will see decreased unaccounted for water and leaks can be addressed after the meter by property owners.

**FUNDING PARTNERSHIPS:**

This is fully funded by HCCUB Capital Improvement funds. The priority in the water industry is more accurate accounting of water pumped and used in the system. This priority was shared in a recent adoption of a declaration of the Arizona Corporation Commission (ACC) to change the way water is being accounted for and officially requesting funding for meters at the state and federal level. The ability to receive grants will be increased by having an adopted CIP and Master Plan. Cost reflects the meters and radio read purchases, no labor costs for installation is included.

**FUNDING SOURCES FOR THIS PROJECT:**

**AMOUNT**

<u>Operating</u> Fund	FY 24	\$100,000
	FY 25	\$50000
	FY 26	
	FY 27	

FY 28 - 45

TOTAL:

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\$150,000