

Wastewater Process System Improvements

Project Number: 62079
Total Capital Cost: \$1,200,000.00

Department: Wastewater
Type: Capital Improvement
Request Groups: CIP
Timeline: 07/01/2025 to 06/30/2030

Request description:

This project is a multi-year program to upgrade and/or replace critical wastewater process equipment which includes the following: pumps, motors, blowers, centrifuge, belt press, filters, decanters, aerators, disinfection systems, VFD's, and PLC's. Process equipment is essential to operating the wastewater reclamation facility. The program has been in place since FY18. The program is flexible and allows staff to plan for rebuilds and replacements of specific pumps and motors and other process equipment necessary for the wastewater plant to function. Typically, staff will plan to replace between 3 to 4 system pumps. Components of specialty equipment items such as the centrifuge or belt press replacements are eligible for this project. Generally, a pump/motor/component's useful life is between 15 to 30 years. Staff will program for rebuilding of the asset for two cycles followed by replacement at the end of the useful life of the asset. This allows for the most efficient use of resources. Assets are evaluated by systematic checks from staff on a routine basis and standards from the American Water Works Association (AWWA). This program benefits the community by ensuring that the City's wastewater system remains operational. Keeping the WRF properly running with planned maintenance and replacement of critical assets will prolong the useful life of the plant while keeping the health, safety, and welfare of the community as a top priority. The 2021 National Community Survey found that 74% of El Mirage residents rate wastewater services favorably, and 91% of residents feel it is important to focus on utility infrastructure in the next two years. Modified: Added FY2030 amount.

Capital Costs	Historical	FY2026	FY2027	FY2028	FY2029	FY2030	Total
Planning							\$0.00
Design							\$0.00
Engineering							\$0.00
Land/Right-of-way							\$0.00
Construction/Maintenance							\$0.00
Equipment/Vehicle/Furnishings	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,200,000.00
Other							\$0.00
Total	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,200,000.00

Funding Source	Historical	FY2026	FY2027	FY2028	FY2029	FY2030	Total
149 - Special Projects							\$0.00
511 - Water							\$0.00
513 - Ranchettes							\$0.00
541 - Sewer	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,200,000.00
148 - CDBG							\$0.00
111 - General							\$0.00
Total	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$200,000.00	\$1,200,000.00

Account Codes (Capital Costs):

541-5-7581-657 \$1,000,000.00
\$1,000,000.00

Additional Information

Type of Project: Improvement
 Strategic Priority: Superior Infrastructure
 Bond Eligible: No
 Grant Funding: No
 Project Status: Modified
 Division: Utilities