W-16 Small Diameter Water Main Replacement

Category: High Quality Built & Natural Env Status: Ongoing

Department: Utilities Location: Water Service Area

Programmed Expenditures							
Programmed Appropriated	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027
Expenditures To Date	Budget	Budget	Budget	Budget	Budget	Budget	Budget
189,686,885 108,396,885	6,320,000	12,820,000	9,860,000	12,680,000	12,730,000	12,770,000	14,110,000

Description and Scope

This program focuses primarily on replacing small diameter asbestos cement (AC) pipe that has reached its useful life. A secondary benefit is increasing the emergency fireflow available to neighborhoods. This investment will ramp up water pipeline replacement to 5 miles/year by 2018, and then be adjusted with inflation to maintain the 5 miles per year replacement rate. At that rate, water pipe will need to last on average 100-125 years. Pipes are selected for replacement based on risk of failure (likelihood and consequence), failure history, and coordination with other construction, such as planned street overlays (which reduce restoration costs). Project costs include a 2.8 percent cost increase reflecting actual bid experience for pipe replacement.

Rationale

In the short term, this program reduces the likelihood of catastrophic system failures, unplanned service interruptions, damage claims to the city, and sharp rate increases to react to system failures rather than proactively managing the system. In the long term, timely replacement or repair of water system assets keeps customer rates as low as practical by managing the system at the least life-cycle cost while maintaining target service levels and meeting regulatory requirements.

Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

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Project Map

Schedule of Activities

Project Activities	From - 10	Amount
Project Costs	Ongoing	189,686,885

Total Budgetary Cost Estimate: 189,686,885

Means of Financing
Funding Source Amount

Utility Rates/Fees 189,686,885

Total Programmed Funding: 189,686,885 **Future Funding Requirements:** 0

Comments