



**DATE:** March 20, 2018

**CATEGORY:** Consent

**DEPT.:** Public Works

**TITLE:** **Approve a Midyear Capital Improvement Project – Recycled Water Feasibility Study Update and Authorize Professional Services Agreement**

### **RECOMMENDATION**

1. Approve a midyear capital improvement project, Recycled Water Feasibility Study Update, and transfer and appropriate \$140,000 from the Water Fund to the new project. (Five votes required)
2. Authorize the City Manager or his designee to enter into a professional services agreement with Carollo Engineers for the Recycled Water Study Update in an amount not to exceed \$111,000.

### **BACKGROUND**

In 2009, the cities of Mountain View and Palo Alto completed construction of a distribution system to provide recycled water from the Palo Alto Regional Water Control Plant (PARWQP) to Mountain View's North Bayshore Area. The current recycled water system serves approximately 50 customers in the North Bayshore Area and supplies an average of 0.4 million gallons of recycled water per day.

In 2012, the City contracted with Carollo Engineers to study the feasibility, costs, and benefits of expanding the recycled water distribution system, including an extension through the NASA properties to the Ellis Street, North Whisman Road, and Middlefield Road area. The study also included the estimated cost to expand to other areas of the City, as well as anticipated numbers of customers and associated consumption. The results of the study were presented to Council in April 2014 with a recommendation that the system be expanded to serve all potential customers within the North Bayshore Area and to cross Stevens Creek to serve the Bay View development and customers at NASA/Ames.

Since completion of the study, the City adopted a dual plumbing ordinance and a number of significant land use changes that will increase projected recycled water use.

Additionally, the City is finalizing the East Whisman Precise Plan which will likely provide opportunities for increased recycled water use. To analyze the impact of these changes, staff is recommending an update of the feasibility study. Staff received a proposal from Carollo Engineers to update their recycled distribution system model to estimate consumption and determine optimal pipe sizing, pumping, and storage needs. Updated design and construction cost estimates for expansion plans will also be prepared. The agreement will include the following deliverables:

- Updated demand projections for the current service area.
- Demand projections for new developments east of Stevens Creek, including Bay View and NASA/Ames facilities.
- An analysis of the impact of the City’s 2017 Dual Plumbing Ordinance.
- A review of recycled water regulatory updates and recommended changes in the City’s recycled water operation.
- An analysis of the impact of new customers on system performance.
- An update of the system model to determine the need for recycled water storage and pumping facilities to ensure delivery of adequate water supply and pressure.
- Updated costs to expand the system through the NASA/Ames property and Middlefield/Ellis/Whisman area.
- Cost updates for all other expansion alternatives.

The recommended agreement includes basic services of \$96,000 and a contingency of \$15,000 for total funding of \$111,000.

**FISCAL IMPACT**

The project budget includes the following items:

Professional Services	\$ 96,000
Contingency	<u>15,000</u>
Subtotal	\$111,000

Project Management	10,000
Project Contingency	9,900
Administration @ 6.5%	<u>9,100</u>
TOTAL	<u>\$140,000</u>

There is sufficient funding in the Water Fund to fund this project.

**ALTERNATIVES**

1. Do not update the study at this time.
2. Provide other direction to staff.

**PUBLIC NOTICING** – Agenda posting.

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JM/TS/2/CAM  
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