LIVERMORE
CALIFORNIA

CITY COUNCIL STAFF REPORT **ITEM NO. 6.3**

DATE: September 14, 2026

TO: Honorable Mayor and City Council

FROM: Brent Smith, Community Development Director

SUBJECT: Resolution authorizing execution of a first amendment to the professional services agreement with Carollo Engineers, Inc., for additional design services for Water Reclamation Plant (WRP) Digester Heating Loop Replacement Project WW202315, increasing the not-to-exceed agreement amount from $1,783,054 to $2,147,281.

RECOMMENDED ACTION

Staff recommends the City Council adopt a resolution authorizing the City Manager to execute a first amendment to the professional services agreement with Carollo Engineers, Inc., increasing the not-to-exceed contract amount from $1,783,054 to $2,147,281 to add design services for Digester Building safety improvements as part of the WRP Digester Heating Loop Replacement Project WW202315.

SUMMARY

The WRP Digester Heating Loop Replacement Project WW202315 will replace two critical biogas boilers that are near the end of their expected useful life and will also replace the Programmable Logic Controller (PLC). This amendment is for the design of additional safety improvements to the Digester Building, which houses the biogas boilers. The improvements include new go/no-go panels, HVAC improvements, and room seal improvements. This first amendment in the amount of $364,227 increases the total amount of the professional services agreement from $1,783,054 to $2,147,281.

DISCUSSION

The existing biogas boilers heating the Water Reclamation Plant's anaerobic digesters are near the end of their expected useful life and must be replaced. The digester heating loop system in its entirety is critical to ensuring the anaerobic digesters function properly to produce biosolids for regulated disposal. The location of the anaerobic digester hot water loop system is shown on Attachment 1.

On October 14, 2025, the City of Livermore entered into an agreement with Carollo Engineers, Inc. (Carollo), to provide engineering services for replacement of the biogas boilers and appurtenances. During the project's basis-of-design phase, Carollo reviewed the Digester Building's classification under National Fire Protection Association (NFPA) 820, the fire protection standard that applies to wastewater treatment facilities. The standard's requirements were not mandatory when the building was constructed

prior to the standard's introduction in 1990. Carollo recommends upgrading the building to be more in-line with the NFPA 820 standards, which will provide valuable safety features that protect operating staff.

The three priority safety improvements are summarized below:

1. Go/no go panels, lights, and combustible gas detection to allow tracking and trending of gas leakage.
2. HVAC Improvements adding powered ventilation to increase air changes in the building to increase fresh air supply, thereby minimizing the risk of reaching a combustible gas mixture within the building.
3. Sealing conduit penetrations to eliminate leakage points between electrical equipment and areas where gas may be present.

The work includes engineering design, review of submittals during construction, and production of record drawings.

Staff recommends the original agreement with Carollo be amended to add the design of the priority safety improvements to the project.

FISCAL AND ADMINISTRATIVE IMPACTS

The first amendment, in the amount of $364,227 increases the total amount of the professional services agreement from $1,783,054 to $2,147,281. The budget for the WRP Digester Heating Loop Replacement Project WW202315 in the FY 2025-2030 Capital Improvement Plan covers the cost of this first amendment and all other project costs. No additional appropriations are necessary. Funding is from the Wastewater Replacement Fund.

COMMUNITY PILLAR

1: A Safe Community that Thrives

GOAL

11: Operate and maintain municipal water systems that provide safe, efficient delivery of potable and recycled water, collect and treat wastewater, and comply with all federal, state, and local regulations

GUIDING DOCUMENT

Fiscal Year 2025-2030 5-Year Capital Improvement Plan

ATTACHMENTS

1. Site Plan
2. Resolution
3. Exhibit A - First Amendment to Agreement with Carollo Engineers, Inc.

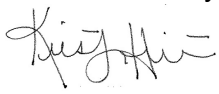
Prepared by: Gabriella Cherrier
Junior Engineer

Approved by:



Marianna A. Burch
City Manager

Fiscal Review by:



Kristen Hilton
Acting Administrative Services Director