

STAFF REPORT

Date: May 21, 2025

To: Mayor and City Council

Through: Jackie Bryant, City Manager

Subject: Staff Report (For Possible Action): Approval of Consulting Agreement for Engineering Services During Construction to Carollo Engineers, Inc. for the Truckee Meadows Water Reclamation Facility Aeration Tank 1A Rehabilitation Project in the amount of \$522,017 with Reno's share being \$358,260.27. (Sewer Fund)

From: Matt Smith, Senior Civil Engineer

Department: Utility Services

Summary:

This project involves replacing or rehabilitating the aeration air distribution system that has exceeded its recommended service life, repairing and coating the concrete structure, and upgrading other related components at the Truckee Meadows Water Reclamation Facility (TMWRF). Engineering services during construction and special inspection services are necessary for the TMWRF Aeration Tank 1A Rehabilitation Project. Carollo Engineers, Inc. (Carollo) is a qualified engineering consultant for the engineering services during construction of this project because of their experience designing the project, and their familiarity with the operational and maintenance constraints at TMWRF. Staff recommends approval of the agreement with Carollo in an amount not to exceed \$522,017 (Reno's share being \$358,260.27 from the Sewer Fund).

Table 1: Consent Review

Consent Review	Yes	No
1. Is this item an annual or standard item that comes before Council for regular approval?		X
2. Is this item an agreement required based on an item previously approved by Council?	X	
3. Is this item included in the current budget approved and adopted by Council?	X	
Other Considerations		
What percent of the total City budget does this item represent?	0.05%	

Alignment with Strategic Plan:

Infrastructure, Climate Change, and Environmental Sustainability
Fiscal Sustainability

Previous Council Action:

April 12, 2023 – Council approved a Consulting Agreement for Design Services with Carollo Engineers, Inc. for the TMWRF Aeration Tank 1A Rehabilitation Project.

April 28, 2021 – Council approved a Consulting Agreement for Evaluation and Pre-Design Services with Carollo Engineers, Inc. for the TMWRF Aeration Tank Evaluation and Rehabilitation Project.

Background:

TMWRF, originally built in 1964, is jointly owned by the Cities of Reno and Sparks. The aeration tanks at the Truckee Meadows Water Reclamation Facility (TMWRF) play a critical role in cleaning wastewater. These large concrete structures hold wastewater while air is pumped in through pipes and diffuser membranes. The added oxygen supports specific biological organisms that break down and remove harmful nutrients from the water. Aeration Tank 1A, originally constructed in 1964, now requires significant rehabilitation. The diffuser membranes and air piping—essential for delivering oxygen—have been in service for over 20 years, far exceeding their recommended lifespan of 7 years. Additionally, the reinforced concrete needs repairs and a protective coating due to age and exposure to corrosive materials. Aeration Tank 1A is one of the original 1964 aeration tanks and has been in-service since the plant was brought online. The last time Aeration Tank 1A was repaired and improved was during the 2006 TMWRF plant expansion. Carollo Engineers, Inc. (Carollo) was hired by the City of Reno to evaluate the condition of the aeration tanks between August 2021 and September 2022. Carollo determined all the aeration tanks at TMWRF need improvements and/or rehabilitation with Aeration Tank 1A being the most near-term priority.

As part of the TMWRF Capital Improvement Program (CIP), “Risk Ranking” and paired comparison of infrastructure identifies project priorities, condition, and risk of failure. The Fiscal Year 24 ranking process identified aeration tank rehabilitation as priority #9.

Also on today’s agenda for Council consideration is award of the construction contract to Resource Development Company dba Farr Construction Corporation as a separate but related item.

Discussion:

This item includes engineering services during construction and special inspection services required for the TMWRF Aeration Tank 1A Rehabilitation Improvements construction contract.

Inspection reports and quality assurance inspection and testing will be completed to ensure construction and installation methods are performed in accordance with the construction documents, as well as engineer and manufacturer recommendations.

Financial Implications:

The TMWRF Aeration Tank 1A Rehabilitation Project is included in the current fiscal year's CIP as approved by the TMWRF Joint Coordinating Committee (JCC) and the respective City Councils of Reno and Sparks through the budget process. The City of Reno will administer the agreement and will be reimbursed for a portion of the costs by the City of Sparks through the current cost sharing agreement for TMWRF operations and maintenance. The City of Reno and the City of Sparks share the cost of this project as follows: 68.63% for Reno and 31.37% for Sparks, as shown in Table 1. Costs for the City of Reno are budgeted in the Sewer Fund.

Table 2: Cost Sharing Between Reno and Sparks

Total Cost of Agreement	Reno Share	Sparks Share
\$522,017	\$358,260.27	\$163,756.73
Percentages	68.63%	31.37%

Legal Implications:

The parties are bound by the terms of the agreement as prepared by the Office of the City Attorney.

Recommendation:

Staff recommends Council approval of the consultant agreement with Carollo for engineering services during construction for the TMWRF Aeration Tank 1A Rehabilitation Project in an amount not to exceed \$522,017, with the City of Reno's portion being \$358,260.27 (Sewer Fund), and authorize the Mayor to sign.

Proposed Motion:

I move to approve the staff recommendation.

Attachments:

- Area & Vicinity Map for TMWRF Aeration Tank 1A Rehabilitation Project
- TMWRF Aeration Tank 1A Rehabilitation Project ESDC Agreement – Carollo