

STAFF REPORT

Date: January 24, 2018

To: Mayor and City Council

Thru: Sabra Newby, City Manager

Subject: **Staff Report (For Possible Action): Approval of consulting design services agreement between Brown and Caldwell (B&C) and the City of Reno for consulting engineering services for the Truckee Meadows Water Reclamation Facility (TMWRF) Nitrification Tower #2 Rehabilitation Project in an amount of not to exceed \$445,512 with Reno's share being \$305,754.89 (Sewer Enterprise Fund).**

From: David Kershaw, Associate Civil Engineer

Summary: The attached scope of work with Brown and Caldwell will provide engineering design services for the Truckee Meadows Water Reclamation Facility (TMWRF) Nitrification Tower #2 Rehabilitation Project. This rehabilitation effort will include final design for replacement of the tower media, distributor equipment, and limited rehabilitation of tower structure. Staff recommends Council approve the Agreement for Consultant Services with Brown and Caldwell for design and professional engineering services as described in the attached proposal in an amount not to exceed \$445,512, with the City of Reno's portion being \$305,754.89 (Sewer Fund).

Previous Council Action:

December 3, 2014: Council approved an Agreement for Consultant Services with Brown and Caldwell for performing a condition evaluation of the existing nitrification towers in an amount not to exceed \$212,000 with the City of Reno's portion being \$145,495.60 from the Sewer Fund.

Background: One of the key treatment processes at the Truckee Meadows Water Reclamation Facility (TMWRF) consists of removing nitrogen from sewage such that treated effluent discharged from the TMWRF to the Truckee River will meet permit discharge limitations. The first and critical step in the removal of nitrogen from sewage occurs in the Nitrification Towers. The efficiency of these towers in the removal of nitrogen from sewage is impacted by a variety of operational and environmental conditions. In addition, most of the towers are over 30 years old, and the media and mechanical equipment are operating beyond their design life and need to be rehabilitated.

Discussion: This work scope provides for the formal design of Nitrification Tower #2 Rehabilitation Project. The design scope includes replacement of treatment media, replacement of mechanical distributor arms, limited rehabilitation of concrete tank walls, center column evaluation, automation of existing control valves, and identify re-treatment pumping requirements for startup activities. The scope of work tasks, as detailed in the attached

agreement, include development of construction plans, specifications and bid documents, opinion of probable construction costs, and providing bidding support services. Brown and Caldwell was selected from the City’s approved list of engineering consultants.

Additional design work not included in this agreement, that may be required pending results of current work tasks, could include replacement design of the center column and design of re-treatment pumping facilities. If additional design work is needed a separate agreement will be developed and presented to council for approval.

Financial Implications: 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 operation 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. This project is included in the TMWRF Capital Improvement Plan that was approved by the Joint Coordinating Committee (JCC).

Table 1 – Cost Sharing Between Reno and Sparks

Total Cost of Contract	Reno Share	Sparks Share
\$445,512	\$305,754.89	\$139,757.11
Percentages	68.63%	31.37%

Legal Implications: Legal review has been completed for compliance with City procedures and Nevada Law.

Recommendation: Staff recommends Council approve the Agreement for Consultant Services with Brown and Caldwell for design and professional engineering services as described in the attached proposal in an amount not to exceed \$445,512, with the City of Reno's portion being \$305,754.89 (Sewer Fund), and authorize the Mayor to execute the attached Agreement.

Proposed Motion: I move to approve the staff recommendation.

Attachments: