



DATE: June 30, 2020

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Water and Sewer Master Plan Update, Project 20-43 – Authorize Professional Services Agreement**

RECOMMENDATION

Authorize the City Manager to execute a professional services agreement with HydroScience Engineers in a not-to-exceed amount of \$988,009, to provide engineering services for the Water and Sewer Master Plan Update, Project 20-43.

BACKGROUND

The City periodically prepares master plans for the water and sewer systems, which involves evaluating infrastructure conditions, reviewing the City's ability to meet water and sewer system needs, and providing data for prioritizing water and sewer main replacements. The last Water and Sewer Master Plans were completed in 2010.

Water and Sewer Master Plan Update, Project 20-43, will include updating computerized models of the water and sewer systems that provide details on water system pressures, fire flows, and sewer system capacity. Although these models have been supplemented since 2010 by area-specific studies to determine system capacity to accommodate large-scale developments, an update of the Citywide model is needed. This project will also include an evaluation of water storage and emergency supply capabilities, system demand, and recommendations for improvements to meet anticipated future demand and consumption. Projects generated from the Master Plan Update will include recommended improvements and replacements of hydraulically deficient or end-of-life pipelines and other water and sewer facilities, significant maintenance needs, and identification of areas where additional capacity is needed to accommodate planned development projects.

ANALYSIS

In December 2019, the City issued a Request for Proposals (RFP) for the Water and Sewer Master Plan Update. Two consulting firms submitted proposals to the City, and

the proposals were reviewed and ranked by a panel comprised of City staff. Staff deemed HydroScience Engineers most qualified based on their written proposal, supplemental question responses, experience in completing similar projects, and understanding of the project goals.

The proposed Scope of Work includes:

- Review the City’s General Plan, previous Water and Sewer System Master Plans, other City planning documents (Precise Plans), utility studies, the Sewer System Management Plan, and the Urban Water Management Plan.
- Review current system operations, develop and calibrate computer models for the water and sewer systems, and determine system hydraulics and physical condition deficiencies.
- Develop recommended capital improvement projects and priorities for a 10-year planning period.

Optional services include additional data collection and field verification for computer models if needed. The professional services agreement budget is comprised of the following items:

Master Plan basic services:	\$754,272
Optional services:	158,310
Contingency (10%):	<u>75,427</u>
Total contract:	<u>\$988,009</u>

The recommended fees are within the ranges typically charged for such services, and staff considers the contract costs to be fair and reasonable for the scope of work required. If the recommendation is approved by City Council, HydroScience Engineers can begin work in August 2020 with an estimated completion in the third quarter of 2022.

FISCAL IMPACT

Water and Sewer Master Plan Update, Project 20-43, is funded with \$310,000 from Shoreline Regional Park Community Fund, \$376,000 from the Water Fund, and \$554,000 from the Wastewater Fund, for a total funding of \$1,240,000. The project budget is adequate to fund the recommended action.

ALTERNATIVES

1. Do not authorize the professional services agreement with HydroScience Engineers.
2. Provide other direction.

PUBLIC NOTICING – Agenda posting.

Prepared by:

Ariel Morales
Senior Civil Engineer

Reviewed by:

Nirmal Sajjan
Principal Civil Engineer

Gregg A. Hosfeldt
Assistant Public Works Director

Approved by:

Dawn S. Cameron
Public Works Director

Audrey Seymour Ramberg
Assistant City Manager/
Chief Operating Officer

AM/TS/1/CAM
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cc: SCE – Morales, PCE – Sajjan, APWD – Hosfeldt, WS