



DATE: June 22, 2021

CATEGORY: Consent

DEPT.: Public Works

TITLE: **Whisman Pump Station Engineering Study, Project 21-55 – Authorize Professional Services Agreement**

RECOMMENDATION

Authorize the City Manager to execute a professional services agreement with HydroScience to prepare the Whisman Pump Station Engineering Study, Project 21-55, in a not-to-exceed amount of \$124,000.

BACKGROUND

The Whisman Pump Station is located at the Municipal Operations Center and is equipped with four horizontal split-case pumps (see Figure 1) which pump potable water from Whisman Reservoir and distribute the water into two of the City's three pressure zones. The pump station was originally constructed in 1961. In 1998, the pump motor and check valves were replaced, and the electrical and instrumentation systems were upgraded. As the pump station continues to age, essential equipment becomes difficult to repair as replacement parts are challenging to procure.



Figure 1: Whisman Pump Station – Pumps 1 and 2

ANALYSIS

In March 2021, a Request for Proposals (RFP) for engineering services was issued to nine firms and posted on the City’s website. The firms were selected for their water infrastructure and pump station expertise. The RFP scope of work included a preliminary engineering study, final design, and construction support. Three firms responded to the RFP.

A review panel of Public Works staff deemed HydroScience to be the best-qualified firm based on the merits of HydroScience’s written proposal, experience in completing similar projects, demonstrated competence, and understanding of the project goals. HydroScience has extensive experience in the design of water infrastructure and assessment of pump stations.

The preliminary engineering study will provide an assessment of the station with recommendations for maintenance, repair, and upgrades considering current codes, laws, industry standards, and safety best practices, including:

- Developing an inventory of assets;
- Noting hazards or safety risks;
- Evaluating options to automate the station;

- Estimating construction costs; and
- Identifying, ranking, and prioritizing improvements.

In addition, the study will evaluate electrical efficiency and include return on investment calculations based on estimated power savings.

At this time, the City has only funded the preliminary engineering study phase of the project. The not-to-exceed contract amount of \$124,000 includes \$110,000 for basic services, including reimbursable expenses, and a contingency in the amount of \$14,000. The recommended fees are within the range typically charged for such services, and staff considers the fees to be fair and reasonable.

With City Council approval of this contract, HydroScience could begin the project in July 2021 and complete the preliminary engineering study by November 2021. It will provide the City with detailed information for rehabilitating and/or upgrading the pump station along with estimated costs.

Upon availability of additional funding, the City may seek Council approval to amend the contract with HydroScience in the future to complete the final design and provide construction support, consistent with the Request for Proposals scope of work.

FISCAL IMPACT

Whisman Pump Station Engineering Study, Project 21-55, is funded with \$175,000 from the Water Fund, which is adequate to fund the recommended agreement.

ALTERNATIVES

1. Do not approve the recommended contract and direct staff to issue an RFP to a larger number of engineering firms.
2. Do not proceed with the project at this time.
3. Provide other direction.

PUBLIC NOTICING – Agenda posting.

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