



STAFF REPORT UTILITIES COMMISSION

Agenda Date: 11/7/2024
Agenda Section: Information Only

Department Origination: Public Works

Agenda Item: Water Supply Improvements Monthly Update - Wells 5 & 6

Approval Required: No Action Required

BACKGROUND

The contract with SEH includes six (6) tasks to provide professional services associated with construction of two (2) additional water supply wells (Wells 5 & 6), raw watermain, and electrical components necessary to connect the wells to the Water Treatment Plant. The project includes bidding three (3) separate contracts to contractors and suppliers to expedite the construction timeline: (1) well construction, (2) utilities construction, and (3) electrical/control panel procurement.

Work Completed

SEH staff toured the WTP and public works site to become familiar with the site and to gather information about the electrical system. SEH and City Staff met for a kickoff meeting on October 18th to discuss aspects of the project and to discuss the project work and schedule. SEH is completing the site survey to develop base drawings for the project. In addition, design and permitting items were initiated for the well construction.

Work to be Completed

SEH will complete the site survey and base drawings for the well construction and raw watermain construction. Design drawings and specifications will be completed for the well construction and electrical control panel procurement. The raw water main construction drawings and specifications will be completed over the next couple months.

One of the design decisions that needs to be made is the size of water main that will be used to connect the two new wells to the WTP. The current plan is to extend a 20-inch water main to the northeast corner of the public works campus for the current wells, to allow this larger main to be extended to the east in the future for future wells. As a result of the recent exploratory borings on the east side of the public works campus (those completed as part of Traut Contract related to the 2024 Well Replacement Exploration project) being not favorable for future wells, the City and SEH wanted to inform Utility Commission members of ongoing discussions that have been happening related to this important design decision. SEH completed a cost-benefit analysis on the size of watermain to install versus drilling two (2) additional exploratory borings further to the east. Though two additional borings cannot confirm that no wells will ever be drilled east to the site, they could be used to help decide the size of watermain to install for the two wells currently in the design phase. If the two additional borings appear favorable, a-20 inch main would be installed as planned. If the two additional borings do not appear favorable, the City could decide to install 12-inch and 14-inch water main instead to the wells. The difference in cost is estimated to be approximately \$120,000 in watermain cost alone between the two options for the pipe sizes noted above.

City Staff has suggested that SEH evaluate the pipe sizing differences, and review the cost of completing additional borings, then inform Utility Commission and City Council of these options. Refer to the Change Order 2 Item listed under a separate Business Item (Approve the Traut Companies Change Order 2/2024 Well Replacement Exploration

Services) to note the overall financial implication associated with Change Order No. 2, a total of approximately \$44,940.00 for both well drilling and estimated engineering fees.

FINANCIAL IMPLICATIONS

The total project cost for the Water Supply Improvements – Wells 5 & 6 Project is estimated to be about \$2.8 million based on conceptual layout estimates. The cost of the project will be further defined at the 30% design level. The project costs are included in the City’s capital budget for 2025.

STAFF RECOMMENDATIONS

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COUNCIL ACTION REQUESTED

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