

COUNCIL ACTION FORM

SUBJECT: APPROVAL OF PRELIMINARY PLANS AND SPECIFICATIONS AND NOTICE TO BIDDERS FOR WATER PLANT RADIO TELEMETRY UPGRADES

BACKGROUND:

The Water Treatment Plant monitors and controls all of its remote sites through the Water Plant's SCADA system via data telemetry radios. These remote sites consist of 22 supply wells, one booster pump station, three elevated storage tanks, a booster pump station, and fourth elevated storage tank for the National Center for Animal Health (NCAH) located on Dayton Avenue.

The Water Plant made the original conversion from telephone line communications to data telemetry radios for each remote site in 1999. Since then, the radios themselves have been upgraded, but the original antennas and supporting equipment are still in use. This original equipment has now reached its end of life and has experienced failures ranging from single-point interruptions to widespread loss of communications affecting all remote locations. A comprehensive communications system analysis was performed in December 2017, which outlined recommendations for communications network optimization and equipment replacement.

The project specifications detail what equipment is to be replaced and the approved equipment to be used. To ensure an adequate water supply to the City at all times these specifications also outline a strict work schedule, with a limited time in which each remote site can be out of service.

The adopted FY 2019/20 Capital Improvements Plan includes a Wellhead Rehabilitation project. Included in the \$420,000 project budget is an allowance of \$50,000 to complete these radio telemetry upgrades. The estimated cost for the radio telemetry equipment is \$55,000, which includes a 20% contingency.

ALTERNATIVES:

1. Approve preliminary plans and specifications and issue Notice to Bidders for the Water Plant Radio Telemetry Upgrades, setting June 12, 2019, as the bid due date and June 25, 2019, as the date of public hearing and award.
2. Do not approve plans and specifications.

MANAGER'S RECOMMENDED ACTION:

It is in the City's best interest to replace failing equipment when needed to ensure Water Plant personnel can efficiently and effectively monitor and control the remote locations. The adopted FY 2019/20 CIP budget contains a Wellhead Rehabilitation project that includes upgrades to some well radio telemetry equipment. Plans and specifications for the telemetry upgrade are complete and ready to be released for bidding.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as described above.