



Memo

To: City Administration and City Council

From: Carl R. Ray, Water and Wastewater Director

cc:

Date: 05/19/2023

Re: Award Memo for Acoustic Sewer Assessment

The Wastewater Department became aware of an acoustic method to determine the condition of sewer lines in the collection system in May of 2022 and scheduled a demonstration of the technology with RH Borden. The demonstration evaluated sewer lines that we knew had significant issues with roots, sags, or other obstructions as well as lines that had recently been cleaned and were believed to be in good condition. The technology predicted what we knew about the lines that were evaluated.

The technology is approved by CIRSA as a method of evaluating collection system condition. The acoustic assessment has great potential for helping our department focus efforts on areas that have the greatest need, reducing fuel costs, and reducing vehicle maintenance costs for the department. Instead of attempting to hydraulically clean one-half of the collection system each year and trying to perform a video inspection of the whole system every three years we could focus on the lines that need the most attention and have the greatest potential for a sewer backup that could result in property damage.

A capital budget item for the acoustic assessment was proposed and adopted in the 2023 budget with an estimated cost of \$90,000. The proposal from RH Borden in the council packet has a quote for \$85,000 to complete an assessment of all lines 15" in diameter or less in our entire collection system. I recommend we accept the proposal and award the professional service to RH Borden in the amount of \$85,000.