



Staff Report

June 5, 2023 Council Workshop Meeting

Sewer STEP Main Condition Assessment

Presenter: Rob Charles, Utilities Manager

Time Estimate: 5 minutes

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BACKGROUND: A significant portion of the City's sewer STEP (Septic Tank Effluent Pump) system serving the west side of Camas south of Lacamas Lake runs through a large diameter STEP Main in Brady Road and NW Lake Road. To staff's knowledge, the STEP Main has never been fully inspected or cleaned in the 30 plus years it's been in operation. Additionally, through conversations and inspections coordinated at the request of WaferTech, it has been determined there is a significant amount of scale buildup in WaferTech's discharge line before it reaches the STEP Main and the City expects that some of this buildup has also occurred in the City's STEP Main.

SUMMARY: The attached scope of work from Gray & Osborne will assist the City in determining how much scale buildup has potentially occurred in the STEP Main and if it can be removed with chemical treatment or by mechanical means. Additionally, Gray & Osborne will provide a draft plan to fully inspect the entirety of the STEP Main and recommend procedures for the City to follow to clean the STEP Main under a future contract.

BENEFITS TO THE COMMUNITY: As scale buildup is removed from the force main there will be additional capacity in the force main for future growth.

POTENTIAL CHALLENGES: Chemical or mechanical removal of scale buildup in a closed system may be a challenge since there is no way to physically see the scale or to visually see the results of any removal.

BUDGET IMPACT: The cost for this study will be \$32,310. Budget for this effort will come out of the Sewer Fund professional services line item. A future design contract for the cleaning, bypass and sampling plan along the STEP Main will be presented to the City Council for future consideration along with the results of this initial study.

RECOMMENDATION: Staff recommends this item be placed on the June 20, 2023 Council Regular Meeting Consent Agenda for Council's consideration.