



Staff Report

February 21st, 2023 Council Workshop Meeting

Lacamas Lake Dam Gates Replacement Design Services

Presenter: Will Noonan, Public Works Operations Manager

Time Estimate: 5 minutes

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BACKGROUND: In 2018, the City took ownership of the two dams on Round Lake from Georgia Pacific. The dams fall under the jurisdiction of the Washington State Dept of Ecology and must be inspected. From the recent annual inspections several recommendations were developed including replacement of the four timber spillway gates at the Upper Dam which show signs of decay and corrosion of carbon steel hardware. The spillway gates currently operate from a single drive that has a selector lever to choose which gate operates. This set-up is cumbersome to operate and reaching the end of its service life. Both the sluice gate on the Upper Dam and knife gate on the Lower Dam have also reached the end of their useful life and are recommended to be replaced.

SUMMARY: The City requested that Stantec provide design and specifications for replacement of the four timber gates with a longer lasting material, stainless steel. Stantec will also design new actuators for each gate, removing the outdated single drive actuator, and replacement of the sluice gate on the Upper Dam and knife gate on the Lower Dam. All of these improvements should last decades. The materials used and replacement mechanisms will ensure minimal maintenance, reduce leakage and make the dams easier to operate. In addition to providing final mechanical drawings and specifications, this contract also includes bid support, construction support and project management oversight. The proposed not to exceed cost is \$88,020.

BENEFITS TO THE COMMUNITY: The four spillway gates on the Upper Dam are what staff use to control the water levels of Lacamas/Round Lakes year around. Many of the components are original from 1937. The four timber gates are proposed to be upgraded to stainless steel and the whole structure with more modern upgrades to make the operations of the dam safer, easier, and more reliable. This will save money in the long run and provide more dependable operations for the City. Additionally, the systems being installed with this project have the ability to be upgraded in the future to remove the manual operations of the gates and give staff the option of operating the gates remotely via motorized actuators.

BUDGET IMPACT: This will be an amendment to the original contract. This addition is not to exceed \$88,020. The adopted 2023 budget for the Stormwater Fund has sufficient budget to support this contract.

RECOMMENDATION: Staff recommends this item be placed on the March 6th, 2023 Council Regular Meeting Agenda for Council's consideration.