

Staff Report

TO: Board of Directors

FROM: Doug Roderick, PE, Director of Engineering
Tonia M. Tabucchi Herrera, PE, Senior Engineer

DATE: December 11, 2024

SUBJECT: Consulting Services for the Lake Wildwood Treatment Plant
Replacement Project (#2568) (Consent)

ENGINEERING

RECOMMENDATION:

Award a consulting contract to HDR Engineering, Inc. for design services for the Lake Wildwood Treatment Plant Project (Project) in the amount of \$171,740, and a contingency of \$17,174, and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

Lake Wildwood, Penn Valley, and nearby regions are currently served by the Lake Wildwood Treatment Plant (WTP). The WTP is the sole source of drinking water. The WTP is supplied by the District's Newtown Canal.

The WTP consists of two plants, 2 million gallons per day (MGD) each, that can be operated concurrently or independently. The WTP is a conventional water treatment plant providing flocculation, sedimentation, filtration, and disinfection circa 1971 with an expansion in 1986. The site has an emergency 750 KW diesel generator.

The WTP is reaching the end of its useful life.

In 2016, the District hired a consultant to review alternatives for replacing the treatment plant, refurbishment of the existing plant, and providing an alternative treated water source via interconnection.

The District has since determined that a replacement of the WTP is the most viable alternative.

On September 12, 2024, the District sent a request for proposals for engineering services to seventeen (17) qualified consulting firms in water treatment plant design and construction. The District received one (1) proposal. District Staff confirmed receipt of the request for proposals by the firms and inquired about a lack of response. The majority of the firms cited unfamiliarity with the District and current workload.

The Proposal was reviewed by four (4) Staff members independently and discussed as a group. Staff agreed that HDR Engineering Inc. (HDR) was a qualified expert in the water treatment field and would satisfactorily complete the Project. However, the cost of completing all the tasks as outlined in the request for proposals exceeded the 2024 budget.

Staff met with HDR to discuss the proposal and alternatives to reduce the overall cost. A varying degree of treatment plant design could be completed for this Project from packaged plant design to traditional build as well as treatment plant process components. As part of the Project, an analysis was to be conducted. To better define the parameters of the Project that would be designed, Staff requested a revised proposal from HDR reducing the scope to include tasks to complete the analysis to recommend a design and treatment process as well as the necessary survey work. It is anticipated that a contract for the remainder of the tasks will be brought before the Board in early 2025 for award.

Based on HDR's revised proposal, Staff recommends that HDR be awarded the consulting contract in the amount of \$171,740 with a contingency of \$17,174.

BUDGETARY IMPACT:

The Lake Wildwood Treatment Plant Replacement Project is included in the approved 2024 CIP Budget with a budget of \$300,000.

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