

AGENDA STAFF REPORT

MEETING NAME: REGULAR BOARD MEETING
MEETING

DATE(S): JUNE 17 & 21, 2021

FROM: Danny Friend – Director of Engineering and Operations

FOR: ACTION X DIRECTION ___ INFORMATION ___



PROFESSIONAL SERVICES CONTRACT WITH TKE ENGINEERING FOR THE DESIGN OF THE HORTON WASTEWATER TREATMENT PLANT TERTIARY EFFLUENT FILTRATION SYSTEM

STAFF RECOMMENDATION

Authorize the General Manager to execute a contract for a not to exceed amount of \$101,200 with TKE Engineering for the Design of the Horton Wastewater Treatment Plant Tertiary Effluent Filtration System Project.

SUMMARY

This project is to provide professional services for the development and design of a tertiary effluent filter system at the Horton Wastewater Treatment Plant (WWTP). In 2020 a preliminary design report was completed to determine the feasibility and cost effectiveness of effluent filters to improve the efficiency of the Horton WWTP effluent percolation ponds. With this design, the facilities are expected to include tertiary effluent filters and an effluent distribution structure for the direct gravity disposal of filtered secondary effluent to the existing percolation ponds.

ANALYSIS

The Horton WWTP has experienced persistent problems with poor infiltration rates in the percolation ponds due to the high concentration of suspended solids in the secondary effluent. The suspended solids are being trapped in the upper layer of pond soils, plugging voids in the generally poorly graded sandy soils. Staff has excavated and turned the pond floors over at increased intervals, however, the poor infiltration rates remain an ongoing problem. To decrease the clogging and increase efficiency of the ponds, reduction of suspended solids concentration in the secondary effluent is required. An added benefit is that this is the groundwork for future tertiary treatment of the treatment plant effluent that would allow us to ship water offsite for reuse. Through an RFP process the District received two proposals and found TKE Engineering to be the most qualified firm and was selected for the design of this project.

FISCAL IMPACT AND STRATEGIC PLAN IMPLEMENTATION

The Project was approved in the Capital budget for an amount of \$1,500,000, including design, CEQA, construction, construction management and inspection.

ATTACHMENTS

Contract Agreement and Project Budget Cost Estimate

Please upload all pertinent attachments using the Municode Meetings ADD ITEM function.