



Orange County Sanitation District

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report Details (With Text)

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Title: TRICKLING FILTER SLUDGE AND SCUM PUMPS REPLACEMENT AT PLANT NO. 1, PROJECT NO. FE19-03

Sponsors: Kathy Millea

Indexes:

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Attachments: 1. Agenda Report, 2. FE19-03 Construction Contract

Date	Ver.	Action By	Action	Result
2/23/2022	1	BOARD OF DIRECTORS		
2/2/2022	1	OPERATIONS COMMITTEE	Recommended for Approval	

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

TRICKLING FILTER SLUDGE AND SCUM PUMPS REPLACEMENT AT PLANT NO. 1, PROJECT NO. FE19-03

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1, Project No. FE 19-03;
- B. Award a Construction Contract to Garney Pacific, Inc. for Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1, Project No. FE19-03, for an amount not to exceed \$778,000; and
- C. Approve a contingency of \$77,800 (10%).

BACKGROUND

The trickling filters at Orange County Sanitation District (OC San) Plant No. 1, which were completed in 2006, provide approximately 20% of the Plant's secondary treatment capacity.

The treated primary effluent flow is conveyed from the trickling filters to the secondary clarifiers where the solids settle, and the treated effluent is sent to the Orange County Water District for water

reclamation. The settled sludge is pumped to the Thickening and Dewatering Centrifuge Facility.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- Maintain a proactive asset management program
- 24/7/365 treatment plant reliability

PROBLEM

The Trickling Filter Sludge and Scum Pump Station has only a single pump which has reached the end of its useful life and has failed multiple times in the past, requiring labor-intensive efforts to maintain its reliability. When the pump is not available, sludge is diverted to the Waste Sidestream Pump Station, using more energy and process capacity to move the sludge through the treatment plant.

PROPOSED SOLUTION

Award a Construction Contract for Trickling Filter Sludge and Scum Pumps Replacement at Plant No. 1, Project No. FE19-03. This project will install two new sludge pumps to reliably transfer solids from the trickling filters to the Thickening and Dewatering Centrifuge Facility.

TIMING CONCERNS

Until the two new sludge pumps are installed, there will be continued labor-intensive efforts to keep the current pump functional. When the pump fails, sludge would continue to be drained to the Waste Sidestream Pump Station using more energy and process capacity to move the sludge through the treatment plant.

RAMIFICATIONS OF NOT TAKING ACTION

Pump failures will result in higher energy usage and decreased plant capacity by sending solids through primary treatment for reprocessing.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

OC San advertised for bids on October 25, 2021, and 10 sealed bids were received on December 7, 2021. A summary of the bid opening follows:

Engineer's Estimate	\$1,800,000
<u>Bidder</u>	<u>Amount of Bid</u>
Garney Pacific, Inc.	\$ 778,000

Innovative Construction Solutions	\$1,083,000
Tharsos Inc.	\$1,191,150
J.R. Filanc Construction Co. Inc.	\$1,196,000
Kiewit Infrastructure West Co.	\$1,249,000
GSE Construction Company Inc.	\$1,298,100
Mehta Mechanical Company, Inc. dba MMC, Inc.	\$1,554,000
AID Builders, Inc.	\$1,693,000
Houalla Enterprises, Ltd. dba Metro Builders & Engineers Group, Ltd.	\$1,758,581
Orion Construction Corporation	\$1,963,000

The bids were evaluated in accordance with OC San's policies and procedures. A notice was sent to all bidders on January 5, 2022, informing them of the intent of OC San to recommend award of the Construction Contract to Garney Pacific, Inc.

Staff recommends awarding a Construction Contract to the lowest responsive and responsible bidder, Garney Pacific, Inc., for a total amount not to exceed \$778,000.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. A Notice of Exemption will be filed with the OC Clerk-Recorder after OC San Board of Directors approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with the authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget Update, Fiscal Year 2021-2022, Appendix A, Page A-8, Support Facilities - Small Construction Projects Program) and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Construction Contract

RL:dm