



# OPERATIONS COMMITTEE

## Agenda Report

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

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**File #:** 2024-3809

**Agenda Date:** 9/25/2024

**Agenda Item No:** 6.

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**FROM:** Robert Thompson, General Manager  
Originator: Mike Dorman, Director of Engineering

**SUBJECT:**

**PLANT WATER PIPING REPLACEMENT AT SECONDARY CLARIFIERS 1-26 AT PLANT NO. 1, PROJECT NO. FE20-05**

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1, Project No. FE20-05;
- B. Award a Construction Contract Agreement to T.E. Roberts, Inc. for Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1, Project No. FE20-05, for a total amount not to exceed \$1,375,313; and
- C. Approve a contingency of \$137,531 (10%).

**BACKGROUND**

The Orange County Sanitation District (OC San) uses three different types of water in its operations: city water (potable water), reclaimed water (from OCWD), and OC San's secondary effluent (plant water). Plant water is the least expensive and is recycled within the plant after use. However, because it is the least treated, it is also the most corrosive of the three types of water.

Plant water is used in the treatment plants, particularly in secondary treatment areas for scum sprayers and wash-down purposes. Project No. FE20-05 involves replacing some of the piping in the Activated Sludge Facility No. 1 at Plant No. 1. Ensuring a consistent water supply is crucial for the smooth operation of the secondary treatment system.

**RELEVANT STANDARDS**

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

**PROBLEM**

OC San's Activated Sludge Facility No. 1 at Plant No. 1 has been in service since the 1970s. The metal plant water pipes have been subject to corrosion and leakage. These failures are mainly due to the more corrosive chemical composition of the plant water causing portions of the 1,600 feet of buried 6-inch ductile iron pipe to corrode and leak.

**PROPOSED SOLUTION**

Award a Construction Contract Agreement for Plant Water Piping Replacement at Secondary Clarifiers 1-26 at Plant No. 1, Project No. FE20-05. This project will replace the buried ductile iron pipe with a 6-inch high density polyethylene (HDPE) pipe to restore plant water reliability to the secondary clarifier treatment process.

**TIMING CONCERNS**

Failure to replace the existing piping will likely result in continued deterioration and failures in the secondary clarifier plant water system, causing shutdowns and impacts to the treatment process.

**RAMIFICATIONS OF NOT TAKING ACTION**

Continued deterioration of the piping system will likely lead to future urgent repairs and shutdowns of the plant water system. These urgent repairs are costly, and the shutdowns place additional stress on the treatment process. If the pipe replacement is deferred, the risk of continued repair costs and reduced reliability of the secondary treatment plant will persist.

**PRIOR COMMITTEE/BOARD ACTIONS**

N/A

**ADDITIONAL INFORMATION**

OC San advertised Project No. FE20-05 for bids on May 15, 2024, and eight sealed bids were received on July 18, 2024. A summary of the bid opening follows:

Engineer's Estimate	\$ 1,810,000
<u>Bidder</u>	<u>Amount of Bid</u>
T.E. Roberts, Inc.	\$ 1,375,313
Mehta Mechanical Co., Inc.	\$ 1,676,500
Myers & Sons Construction, LLC	\$ 1,685,586
Vicon Enterprise	\$ 1,725,000
W.A. Rasic Construction Company, Inc.	\$ 1,738,214
J&L Constructors, Inc.	\$ 1,798,356
Dominguez General Engineering, Inc.	\$ 2,230,000
Minako America Corporation	\$ 2,325,800

The bids were evaluated in accordance with OC San's policies and procedures. A notice was sent to all bidders on July 22, 2024, informing them of the intent of OC San staff to recommend award of the Construction Contract Agreement to T.E. Roberts, Inc.

Staff recommends awarding a Construction Contract Agreement to the lowest responsive and responsible bidder, T.E. Roberts, Inc., for a total amount not to exceed \$1,375,313.

## **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 and posted on the State Clearing House after the OC San's Board of Directors approval of the construction contract agreement.

## **FINANCIAL CONSIDERATIONS**

This request complies with the authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget FY 2024-25 and 2025-26, Section 8, Page 49, Small Construction Projects Program, Project No. M-FE) 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](http://www.ocsan.gov)) with the complete agenda package:*

- Construction Contract Agreement

DB:lb