



Orange County Sanitation District

Headquarters
18480 Bandilier Circle
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report Details (With Text)

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Title: PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

Sponsors: Kathy Millea

Indexes:

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Attachments: 1. Agenda Report, 2. P1-133 Contract, 3. Presentation - P1-133 Construction

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:

PRIMARY SEDIMENTATION BASINS NO. 6-31 RELIABILITY IMPROVEMENTS AT PLANT NO. 1, PROJECT NO. P1-133

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133;
- B. Award a Construction Contract to Shimmick Construction Company, Inc. for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133, for an amount not to exceed \$6,275,000; and
- C. Approve a contingency of \$627,500 (10%).

BACKGROUND

Primary treatment is the second step in the process at Orange County Sanitation District (OC San) Reclamation Plant No. 1. Primary treatment removes approximately 75% of the suspended solids from raw wastewater prior to the secondary treatment processes. Primary treatment occurs in structures referred to as primary clarifiers or primary sedimentation basins.

Plant No. 1 includes two sets of primary clarifiers; a set of 26 rectangular clarifiers and a much older set of three circular clarifiers. The circular clarifiers are nearing the end of their useful life and are scheduled to be replaced as part of a future project scheduled to start in 2026 and will take approximately five years to complete.

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

During replacement of the circular clarifiers, only the rectangular clarifiers will be available. During this time, the reliability of the rectangular clarifiers is paramount to maintain the required Level of Service.

The reliability of the rectangular clarifiers is currently limited by aging infrastructure including influent launders that are structurally unsound, limitations in sludge pumping capability, and accumulation of water in a below-grade foul air duct.

PROPOSED SOLUTION

Award a construction contract for Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133. This project will replace three primary sludge pumps, replace failing concrete launders, address water accumulation in a below-grade foul air pipe, provide fire alarm-related flow sensors for a ventilation system, and add lighting at each of the primary sludge pumps.

TIMING CONCERNS

The reliability improvements are needed before the circular clarifiers are taken out of service in 2026.

RAMIFICATIONS OF NOT TAKING ACTION

Without the reliability improvements, staff may not be able to maintain permit compliance, particularly when the circular clarifiers are taken out of service in 2026.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

OC San advertised Projects No. P1-133 and FE19-11 for bids on September 29, 2021, and eight sealed bids were received on November 18, 2021. A summary of the bid opening follows:

Engineer's Estimate	\$ 7,900,000
<u>Bidder</u>	<u>Amount of Bid</u>
Shimmick Construction Company, Inc.	\$ 6,275,000
Kiewit Infrastructure West Co.	\$ 6,813,000
Mehta Mechanical Company, Inc. dba MMC Inc.	\$ 7,954,000
J.F. Shea Construction, Inc.	\$ 8,189,000
J.R. Filanc Construction Co. Inc.	\$ 8,215,000
Orion Construction Corporation	\$ 8,864,470
Environmental Construction, Inc.	\$ 8,899,655
Houalla Enterprises, Ltd. dba Metro Builders & Engineers Group, Ltd.	\$ 9,178,351

The bids were evaluated in accordance with the OC San's policies and procedures. A notice was sent to all bidders on December 16, 2021 informing them of the intent of OC San staff to recommend award of the Construction Contract to Shimmick Construction Company, Inc.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemption set forth in California Code of Regulations Section 15301. A Notice of Exemption has been filed with the OC Clerk-Recorder.

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-9, Primary Sedimentation Basins No. 6-31 Reliability Improvements at Plant No. 1, Project No. P1-133) 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
- Presentation

RC:jw