



# Orange County Sanitation District

Administration Building  
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## OPERATIONS COMMITTEE

### Agenda Report

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**File #:** 2019-514

**Agenda Date:** 9/4/2019

**Agenda Item No:** 8.

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

**SUBJECT:**

RETURN ACTIVATED SLUDGE PIPING REPLACEMENT AT PLANT NO. 2, PROJECT NO. P2-123

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Return Activated Sludge Piping Replacement at Plant No. 2, Project P2-123;
- B. Receive and file Orange County Sanitation District's Notice of Intent to Award dated August 8, 2019;
- C. Receive and file Award Protest from W.M. Lyles Co. dated August 13, 2019, concerning the award to Shimmick Construction Company;
- D. Receive and file response letter from Shimmick Construction Company dated August 20, 2019, regarding the bid protest of W.M. Lyles Co.;
- E. Receive and file Orange County Sanitation District's determination letter dated August 23, 2019, to W.M. Lyles Co. responding to Award Protest;
- F. Deny award protest filed by W.M. Lyles Co.;
- G. Award a Construction Contract to Shimmick Construction Company for Return Activated Sludge Piping Replacement at Plant No. 2, Project No. P2-123, for a total amount not to exceed \$6,042,111; and
- H. Approve a Construction Contract contingency of \$604,211 (10%).

**BACKGROUND**

Orange County Sanitation District's (Sanitation District) Plant No. 2 has two biological secondary treatment facilities, one of which is the Activated Sludge Plant, which uses pure oxygen for wastewater treatment. The Activated Sludge Plant was built in 1979 and includes a concrete deck that seals oxygen into the process basins and ninety-two light poles and fixtures installed throughout the facility to provide operators safe working conditions at night.

## RELEVANT STANDARDS

- 24/7/365 treatment plant reliability
- Comply with California Government Code Section 4256 to engage the best qualified firm “on the basis of demonstrated competence and qualifications” and “negotiate fair and reasonable fees”

## PROBLEM

There are three major deficiencies in the Activated Sludge Plant. Approximately 1,800 feet of sludge piping and appurtenances ranging in size from 4 inches to 36 inches is corroded and no longer provides reliable service. Repair of leaks on this pipe directly impacts the operation and capacity of the plant. As corrosion continues, the frequency of leakage is expected to become worse and leaks more difficult to repair.

Cracking and spalling of the concrete deck of the process basins pose oxygen safety threats and will likely reduce the life of the plant.

Exterior light poles on the plant are corroded to the point where some light fixtures have fallen, posing a safety hazard to operators from falling objects and insufficient lighting. The light poles also require significant fall protection methods to service.

## PROPOSED SOLUTION

Award a construction contract for replacement of the return activated sludge discharge piping, repair the damaged concrete on the deck of the plant, and replace the light poles and fixtures.

## TIMING CONCERNS

Delaying this project will extend the period when treatment interruptions could occur due to leaks from corroded pipes and cracks in concrete, and safety hazards would not be addressed.

## RAMIFICATIONS OF NOT TAKING ACTION

Reliability of the treatment process will suffer, and maintenance staff will be required to make inefficient unplanned repairs to maintain the full operational ability of the aeration basin facilities. A sudden pipeline rupture is a risk to staff and equipment in the tunnel system. The damaged concrete and corroded light poles will continue to be safety concerns.

## PRIOR COMMITTEE/BOARD ACTIONS

N/A

## ADDITIONAL INFORMATION

The Sanitation District advertised Project No. P2-123 for bids on June 11, 2019 and eight sealed bids



be taking advantage of reduced overhead costs. Considering that there are several bids within the same range, staff believes that the low bids are valid and recommends award as stated above.

## **CEQA**

This project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. Section 15301 (Class 1) exempts from CEQA “the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency’s determination”, including “(b) Existing facilities of both investor and publicly-owned utilities used to provide electric power, natural gas, sewerage, or other public utility services”.

The project consists of minor alterations to existing public facilities.

A Notice of Exemption for this project was filed and recorded with the County of Orange on March 29, 2018 after the Board of Directors approved the Professional Design Services Agreement.

## **FINANCIAL CONSIDERATIONS**

This request complies with authority levels of the Sanitation District’s Purchasing Ordinance. This project has been budgeted (FY2019-20 Budget Update, Appendix A, Page A-10) and the budget is sufficient for the action.

## **ATTACHMENT**

*The following attachment(s) are included in hard copy may also be viewed on-line at the OCSD website ([www.ocsd.com](http://www.ocsd.com)) with the complete agenda package:*

- W.M. Lyles Co. Award Protest Letter
- Shimmick Construction Company Response to Bid Protest Letter
- Sanitation District Response to W.M. Lyles Co. Award Protest
- Sanitation District Intent to Award Letter
- Construction Contract (Online Only)