



# Construction Contract Award for Nitrification Clarifier Rehabilitation Phase 1 Project

*City Council October 22, 2019*

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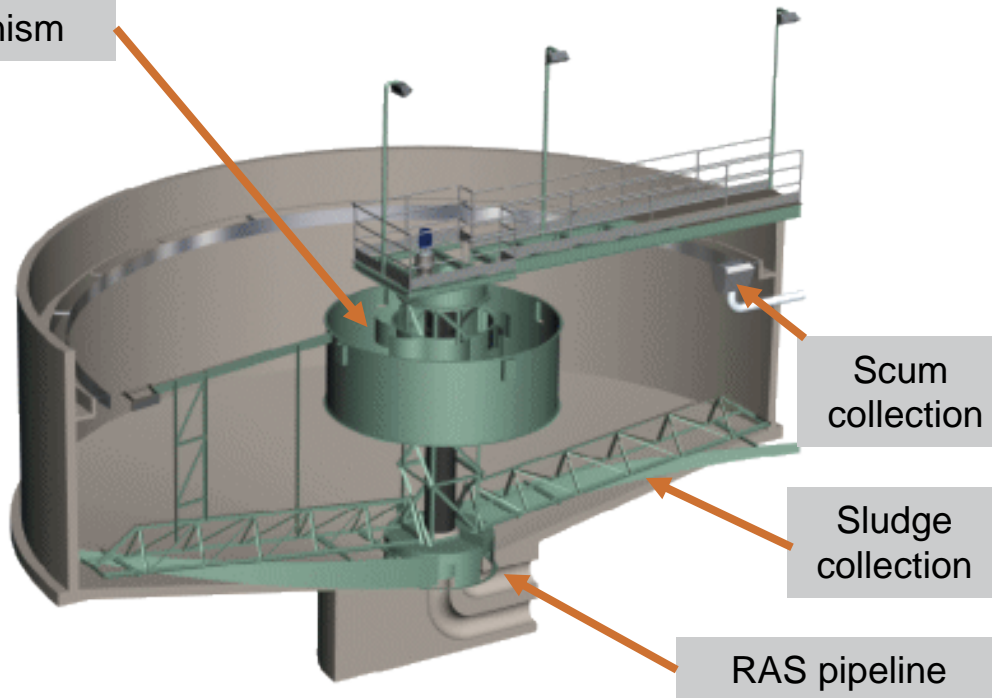
CIP Program



San José-  
Santa Clara  
Regional  
Wastewater  
Facility

# Project Location and Overview

Mechanism



- Replace 8 clarifier mechanisms
- Rehabilitate up to 8 return activated sludge (RAS) pipelines with cured-in-place-pipe (CIPP) lining
- Repair concrete clarifier walls and slabs, replace drain valves and RAS valves, rehabilitate groundwater pressure relief valves, and replace electrical and instrumentation and control equipment for 16 clarifiers
- Project will improve operational reliability and efficiency of the secondary treatment process to ensure continued regulatory compliance at the RWF

**Nitrification Clarifiers**





# Replacement of 8 Clarifier Mechanisms



**Replace Severely  
Corroded Clarifier  
Mechanism**

# Concrete Repairs for 16 Clarifiers



**Repair Cracks in  
Concrete**



# Rehabilitation of Groundwater Pressure Relief Valves

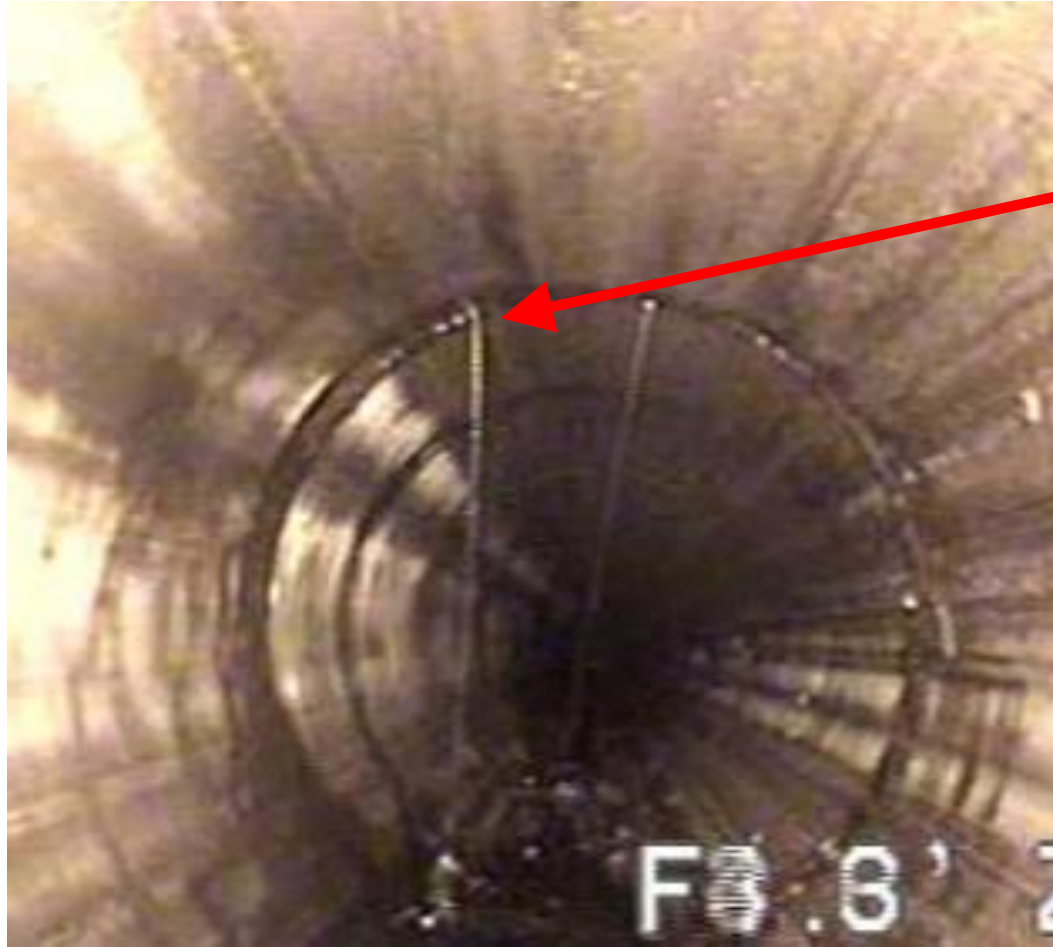


**Replace Severely  
Corroded Groundwater  
Pressure Relief Valve**





# Repair of 24" Return Activated Sludge (RAS) Lines



**Repair Leaking Joints  
by Cured-in-Place Pipe  
(CIPP) technique**



# Replacement of Influent, Drain and Return Activated Sludge (RAS) Valves and Electrical Equipment



**Replace Corroded  
Butterfly valves**



**Replace Corroded  
Electrical Conduits**

# Summary of Bid Results

## Bid Results

- Pre-qualified Six Contractors
- Received Four Bids
- Engineer's Estimate: \$43,065,000
- Bids Ranged from \$26,184,000 to \$37,779,000

## Lowest Bidder

- C. Overaa & Co (Richmond)
- Bid: \$26,184,000

## Construction Schedule

- Scheduled to begin in November 2019 with substantial completion by August 2022



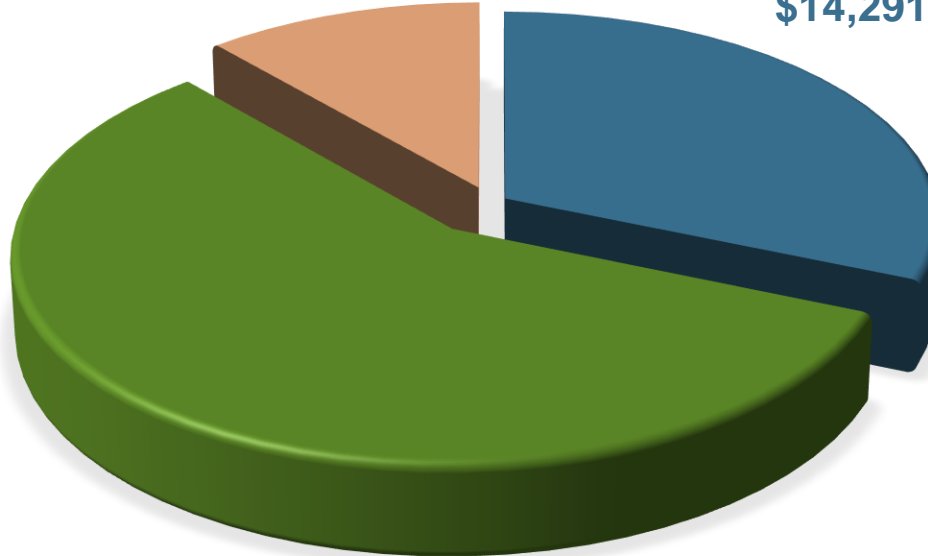
# Project Cost Summary

**TOTAL PROJECT COST: \$ 45,712,000**

**Construction Contingency**  
**\$5,237,000**  
**(20% of Construction)**

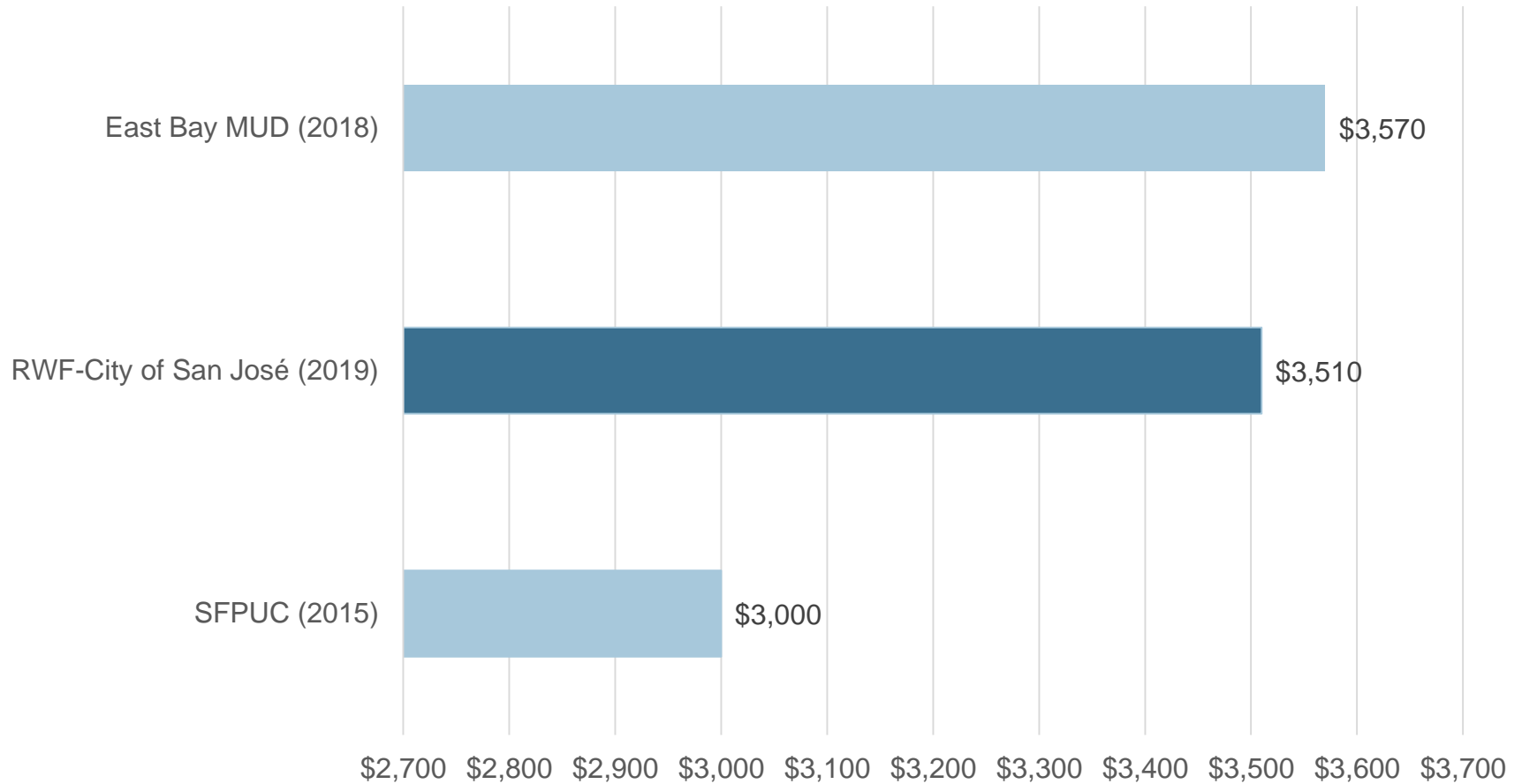
**Project Delivery**  
**\$14,291,000**

**Construction**  
**\$26,184,000**



# Benchmarking against other Bay Area projects

## Clarifier Mechanisms: Cost per diameter-foot



# Recommendation

1. Award the construction contract for Nitrification Clarifier Rehabilitation Project - Phase 1 Project to the low bidder, C. Overaa & Co., in the amount of \$26,184,000 and approve a 20% contingency in the amount of \$5,237,000.
2. Authorize the Director of Public Works to negotiate and execute one or more change orders in excess of \$100,000 for the duration of the project, not to exceed the total contingency amount approved for the project.

**Marianna Chavez-Vasquez, Deputy Director, ESD**  
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