



# Overview of Silicon Valley Clean Water



**SVCW**  
Silicon Valley Clean Water

August 15, 2025

[www.svcw.org](http://www.svcw.org)





# SVCW Background



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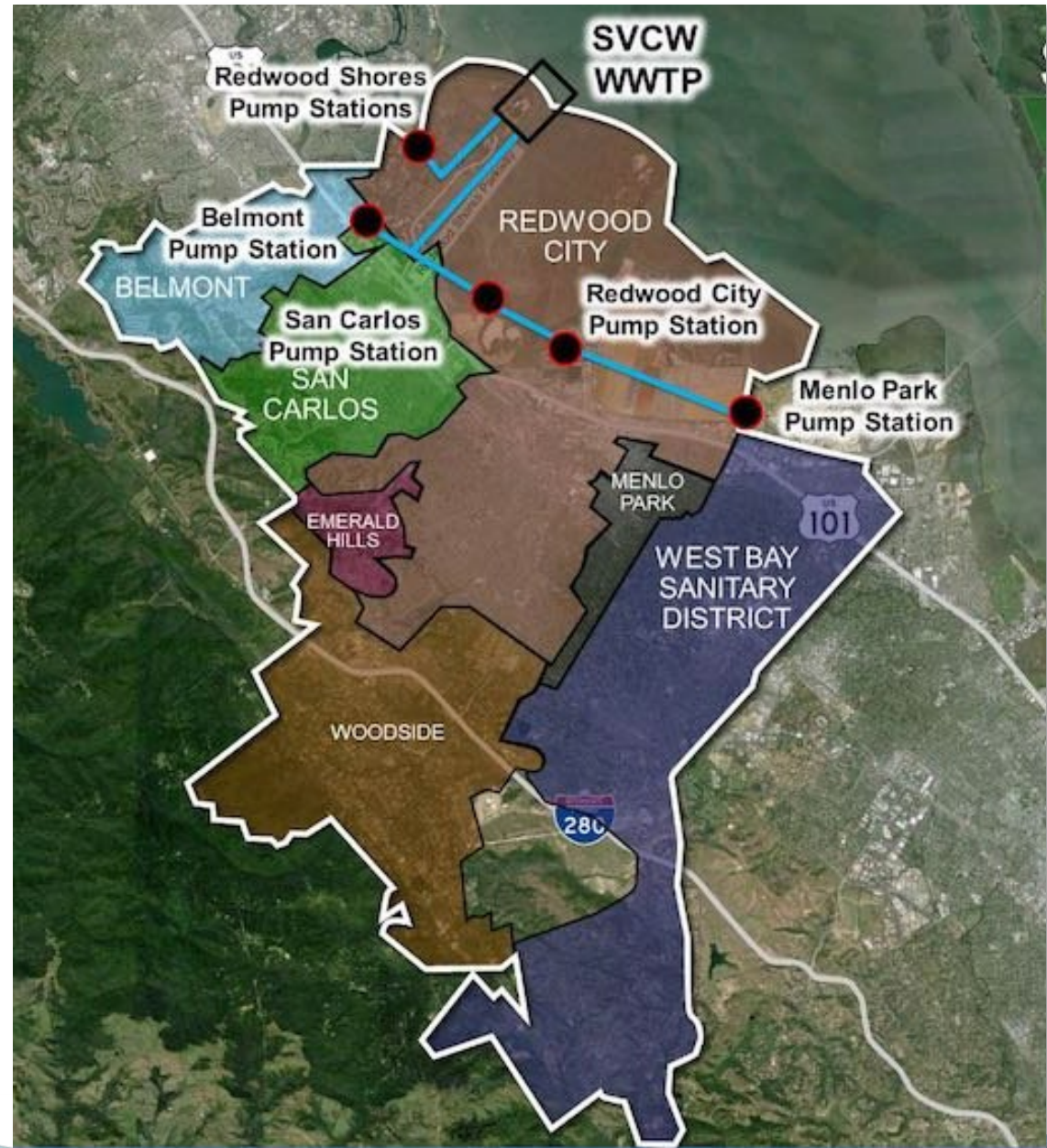
# SVCW History

- Originally known as South Bayside System Authority
- Formed as a Joint Powers Authority in 1975
- 50-Year anniversary in November 2025
- Renamed as Silicon Valley Clean Water in 2012
- Member Agencies consist of Belmont, San Carlos, Redwood City, and West Bay Sanitary District



# SVCW Service Area

- Service Area population of approx. 220,000 people
- Wastewater from Member Agencies plus Woodside and unincorporated areas of San Mateo County
- Collection systems owned and operated by Member Agencies
- SVCW operates conveyance system and plant





# SVCW Treatment Plant Processes

## Preliminary Treatment

- Receiving Lift Station
- Headworks

## Primary Treatment

- Primary Clarifiers

## Secondary Treatment

- Fixed-Film Reactors
- Aeration Basins
- Secondary Clarifiers

## Tertiary Treatment

- Dual Media Filters
- Chlorine Contact Tanks

## Thickening

- Gravity Belt Thickeners
- Rotary Drum Thickeners

## Digestion

- Anaerobic Digesters

## Dewatering

- Rotary Fan Press

## Drying

- Biodryers
- Pyrolysis





# Capital Improvements



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# Recently Completed Projects (RESCU)

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## Front of Plant

- 80 MGD 90-foot deep lift station
- Preliminary treatment
- \$120M



## Gravity Pipeline

- 17,200 LF gravity pipeline
- 11-foot inside diameter
- \$220M



## Pump Stations

- Rehab/replace five pump stations
- New gravity pipeline
- \$120M



# Major Projects In-Construction





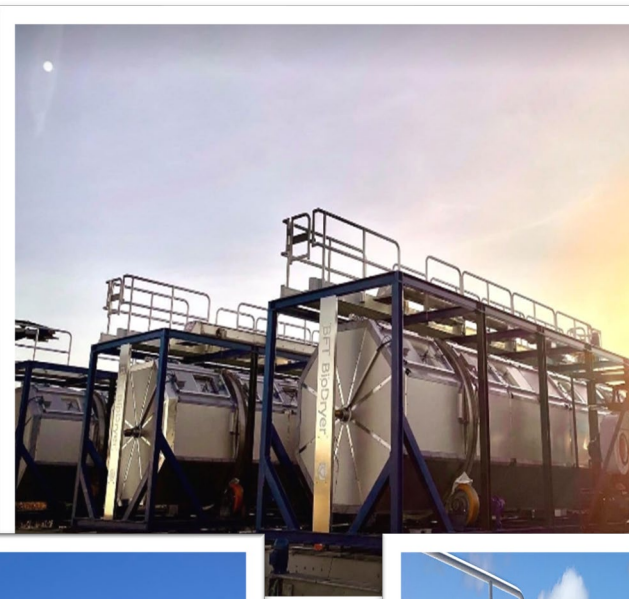
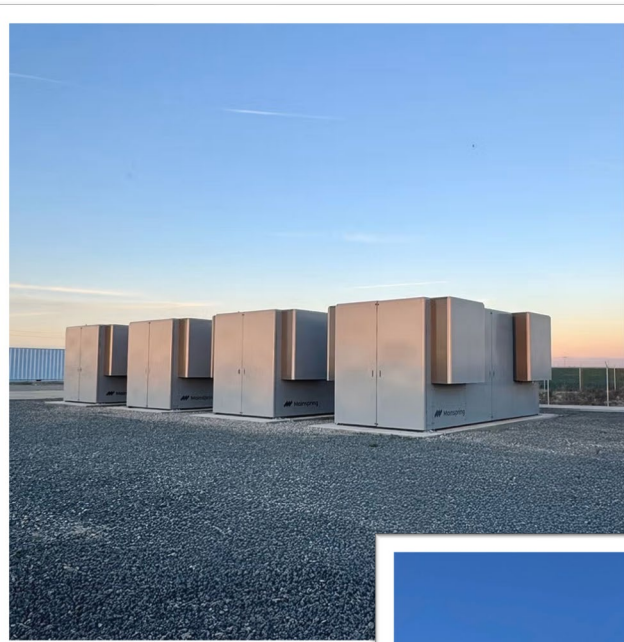
An aerial photograph of a large industrial water treatment facility, likely the Silicon Valley Clean Water (SVCW) plant. The facility features several large circular tanks and rectangular basins, with various pipes and structures connecting them. It is situated on a flat, open area with some trees and parking lots. In the background, a large body of water (San Francisco Bay) stretches to the horizon under a warm, golden sunset sky. A semi-transparent blue diagonal overlay covers the right side of the image, containing the title text and the SVCW logo.

# Sustainability & Innovation @ SVCW



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# The Big Project: Nutrient Removal

- Planning process underway to address nutrient removal requirements
- All viable options including reuse is being considered as part of solutions





# Thank You

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