



**LOS ANGELES COUNTY
SANITATION DISTRICTS**

Converting Waste Into Resources

Santa Clarita Valley Sanitation District Chloride Compliance Project Update

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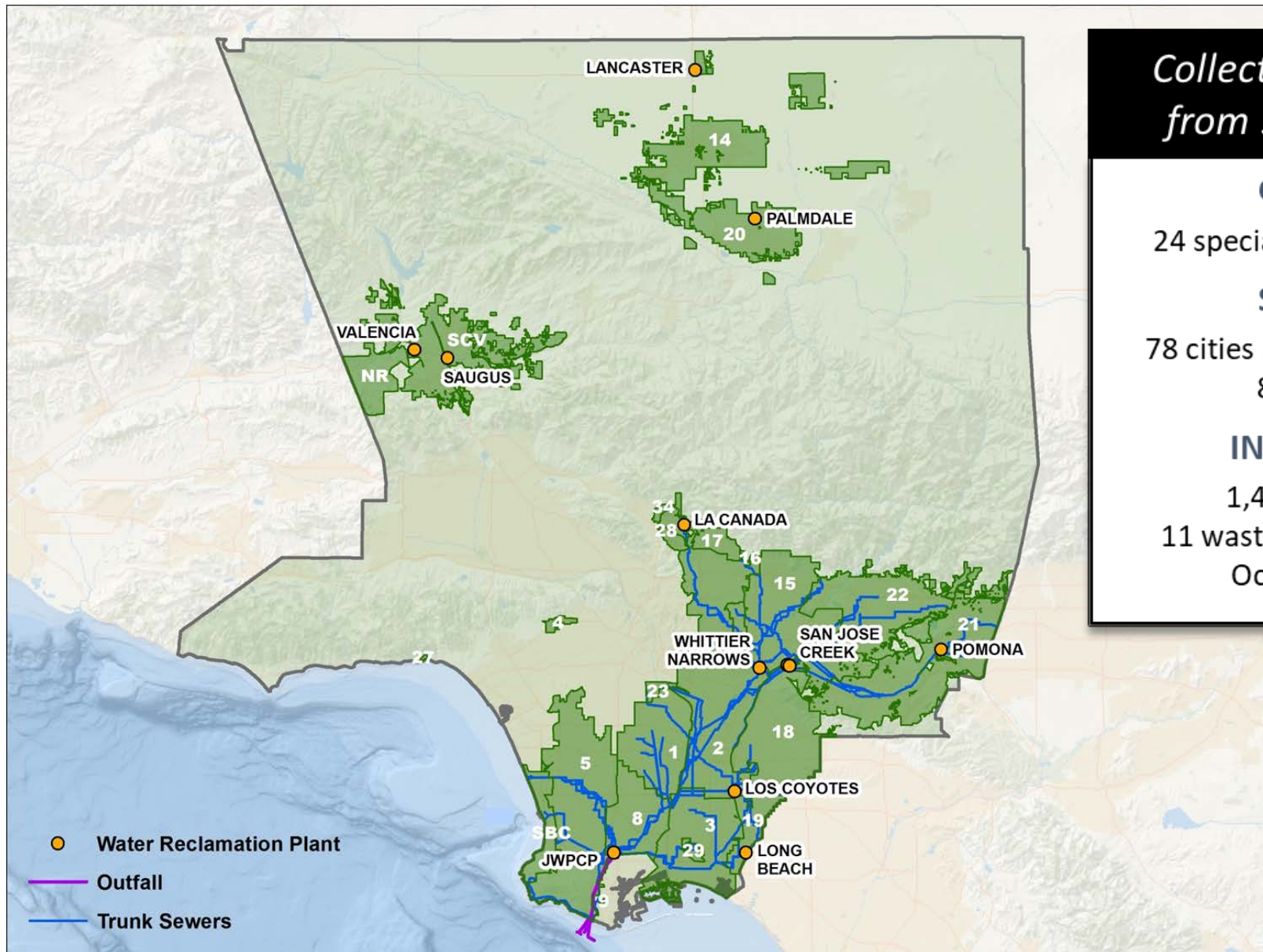
September 29, 2022



OUR SERVICE AREA



Los Angeles County Sanitation Districts Service Area



*Collect and treat sewage
from 5.6 million people*

GOVERNANCE

24 special districts with one staff

SERVICE AREA

78 cities & unincorporated county
824 square miles

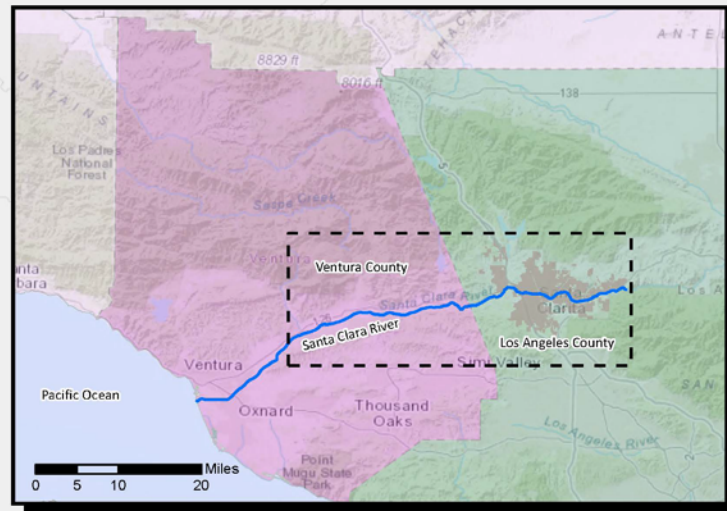
INFRASTRUCTURE

1,400 miles of sewers
11 wastewater treatment plants
Ocean outfall system

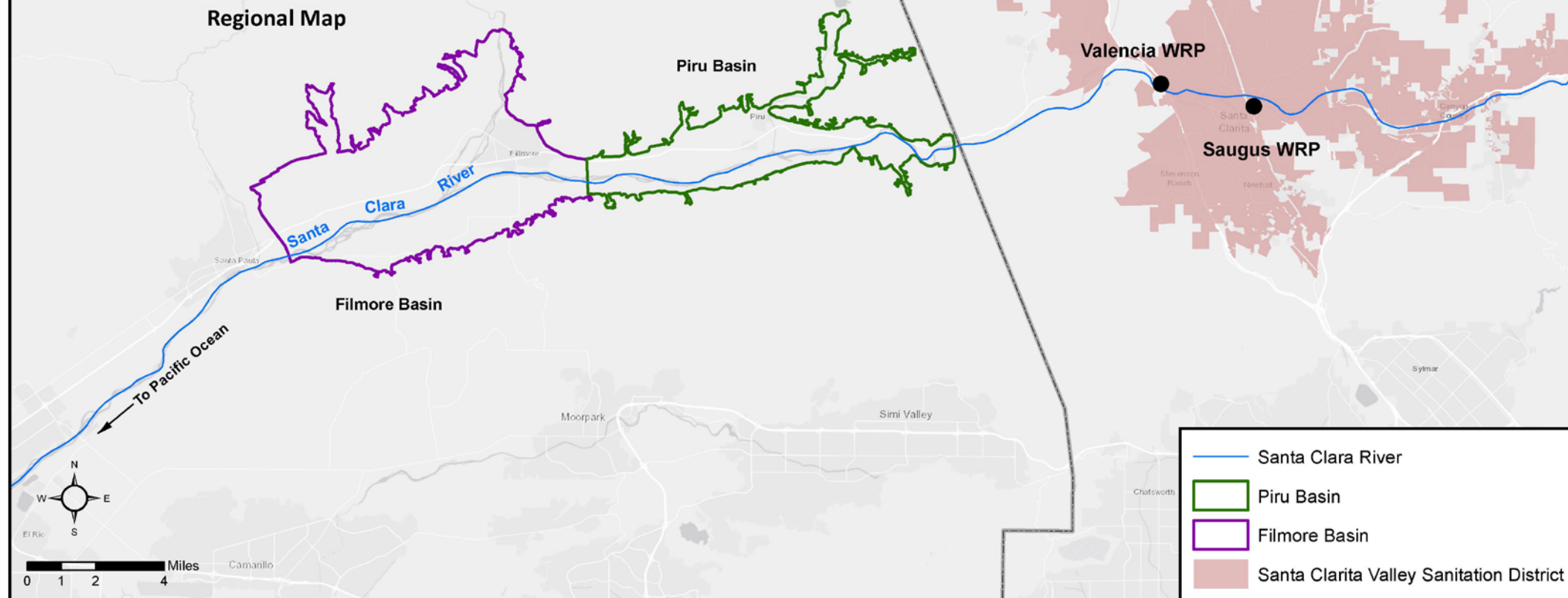




SCVSD Service Area and Water Reclamation Plants (WRPs)



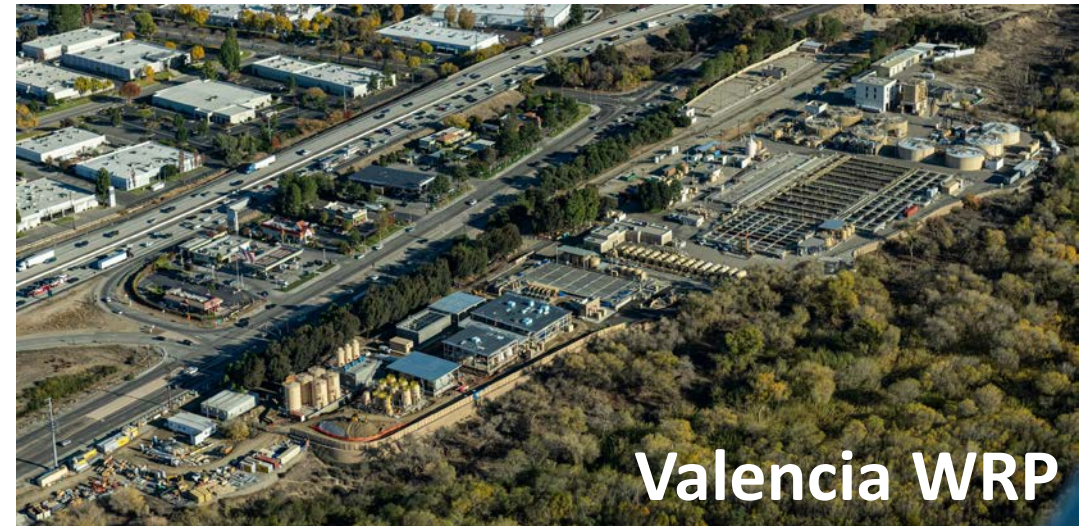
Regional Map





Background Saugus and Valencia WRPs

- Saugus WRP
 - 6.5 MGD capacity
 - Pop served 74,500
 - Discharges tertiary effluent to Santa Clara River approx. 5 MGD
- Valencia WRP
 - 21.6 MGD capacity
 - Pop served 203,000
 - Discharges tertiary effluent to Santa Clara River approx. 14 MGD
 - Approx 0.4 MGD To reuse





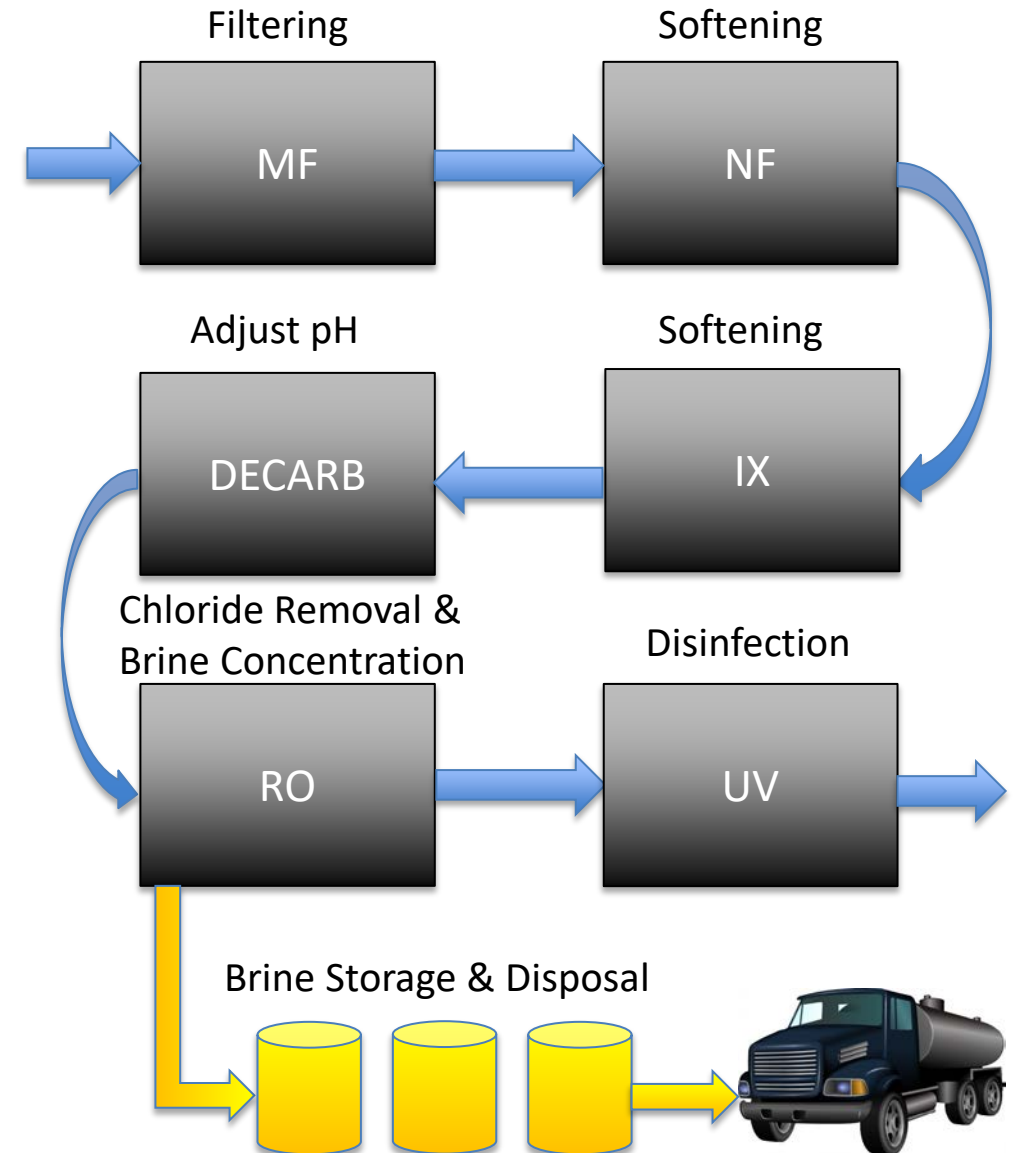
Chloride Compliance Project

- New treatment facilities needed to comply with Chloride TMDL
 - UV at Saugus WRP
 - UV and Advanced Water Treatment Facilities (AWTF) at Valencia WRP
- Chloride limits after UV & AWTF facilities are online
 - Saugus WRP
 - The chloride limit of 150 mg/L Chloride is based on a site-specific objective (SSO) so all advanced treatment occurs at the Valencia WRP.
 - Valencia WRP
 - Based on the waste load allocation (WLA) for chloride
 - To achieve <100 mg/L chloride downstream of the Valencia WRP discharge
 - 3-month rolling average limit



AWT Process

- Microfiltration
- Nanofiltration
- Ion Exchange
- Decarbonation
- Reverse Osmosis
 - Chloride Removal
 - Brine Concentration





Progress

- Spent over \$120 million
- Significant work completed
 - Saugus & Valencia UV Projects
 - Started up in July & August 2021
 - Plant added chloride levels significantly decreased
 - Valencia AWTF Project
 - Construction started June 2019
 - Began commissioning equipment in June 2022
 - Time Schedule Order Startup date December 2022



Saugus WRP UV Reactors

Valencia WRP UV Reactors



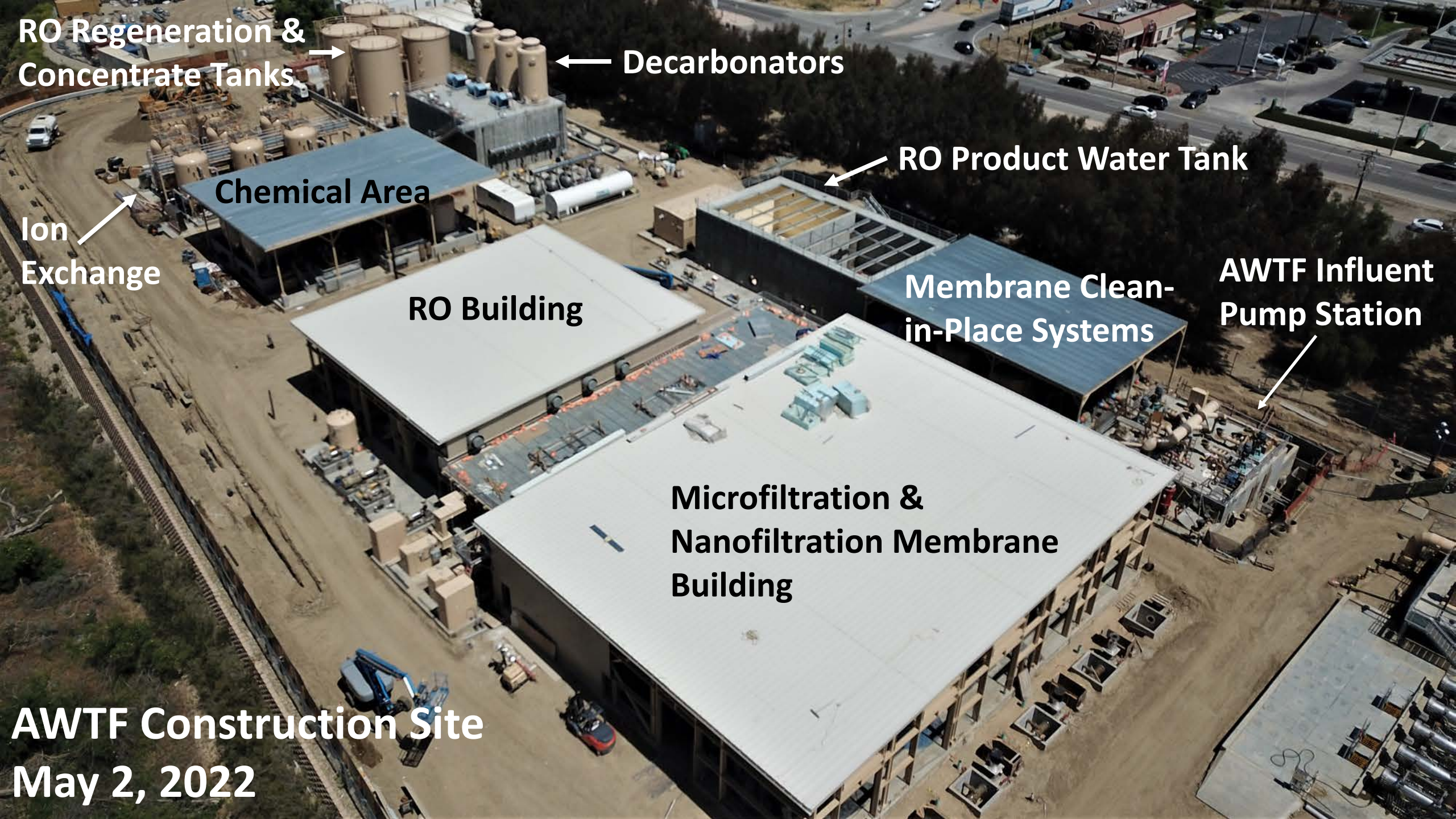
**AWTF & UV Construction Site
at Valencia WRP
February 12, 2020**





AWTF Construction Site

May 2, 2022



**RO Regeneration &
Concentrate Tanks**

Decarbonators

Chemical Area

**Ion
Exchange**

RO Building

RO Product Water Tank

**Membrane Clean-
in-Place Systems**

**AWTF Influent
Pump Station**

**Microfiltration &
Nanofiltration Membrane
Building**

**AWTF Construction Site
May 2, 2022**

