



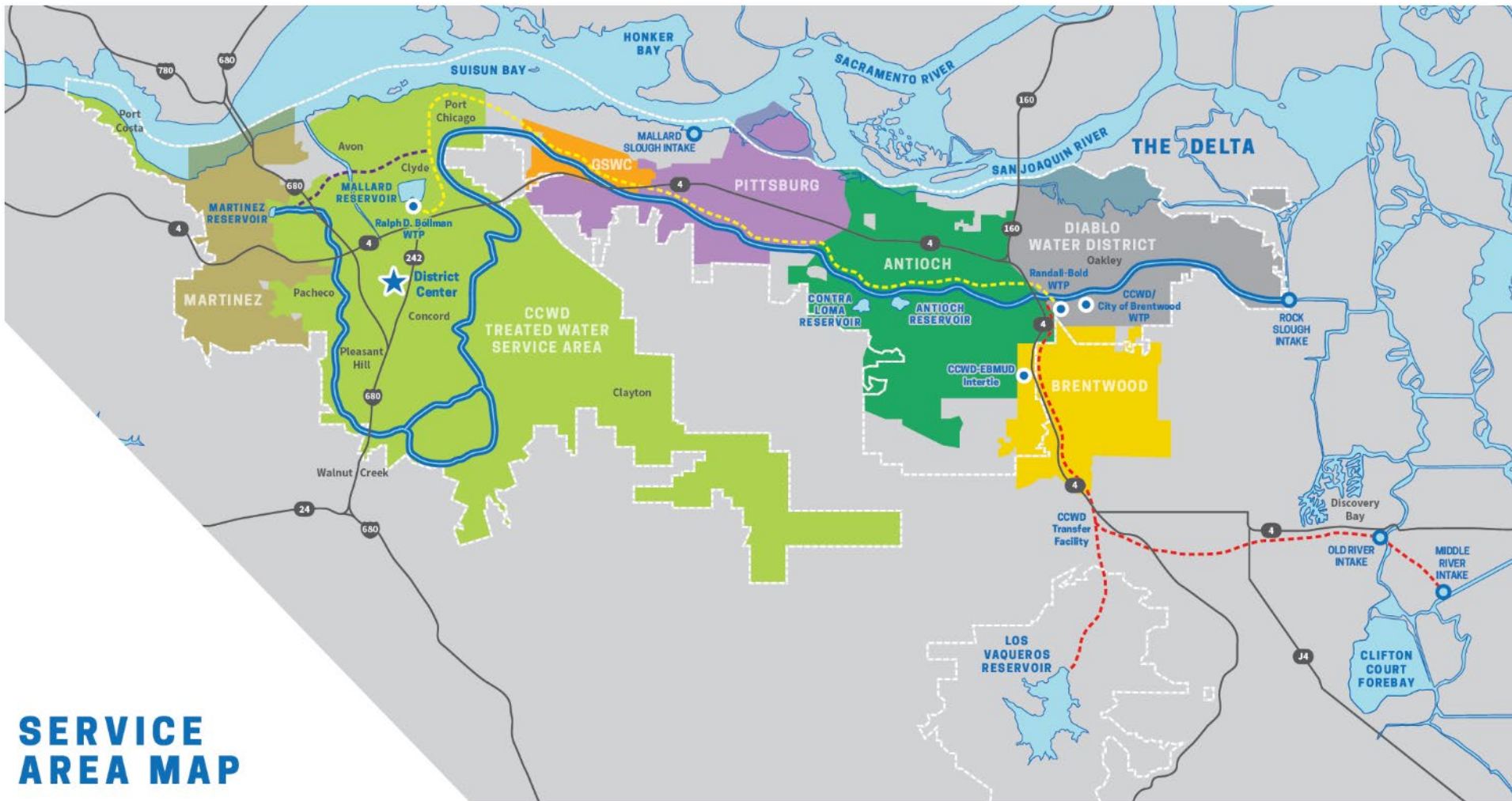
CONTRA COSTA
WATER DISTRICT

MARIN WATER BOARD RETREAT

Overview of Regional
Partnerships

October 15, 2021 | Marguerite Patil
AGM - Policy and External Affairs

CCWD – YOUR NEIGHBOR TO THE EAST



**SERVICE
AREA MAP**

CCWD'S WATER SYSTEM AT A GLANCE



Untreated Water System

- 4 Delta intakes
- 4 storage reservoirs
- 48-mile canal
- Shortcut Pipeline



Treated Water System

- 3 water treatment plants
- 61,736 connections
- 891 miles of pipes
- 41 storage tanks
- 31 pump stations



REGIONAL PLANNING LEADS TO REGIONAL RESILIENCE



- Agencies work together to identify opportunities for mutual benefit
 - Leverage existing infrastructure – interties between agencies
 - Optimize use of available water resources – transfers and exchanges
 - Establish principles of cooperation – beneficiary pays, open and transparent
- Near-term actions in response to current drought emergency can grow into long-term partnerships that improve regional water supply reliability and resilience

CCWD PERSPECTIVE ON REGIONAL APPROACH



- Improves our ability to respond to funding opportunities, regulatory challenges, and climate change
- Increases our level of coordination with the broader California water community
- Provides opportunities to increase utilization of CCWD's existing infrastructure
 - Improves operational efficiency
 - Lowers costs for CCWD's customers

BAY AREA REGIONAL RELIABILITY (BARR)



BARR Partnership



- Partnership formed by 8 largest Bay Area water agencies to work together to leverage existing infrastructure and resources in order to improve regional water supply reliability
 - Guiding principles adopted in 2014
 - Memorandum of Understanding signed in 2015
- BARR Drought Contingency Plan (DCP)
 - Completed in 2017
- BARR Shared Water Access Program (SWAP)
 - Currently being completed

BARR DCP MITIGATION MEASURES

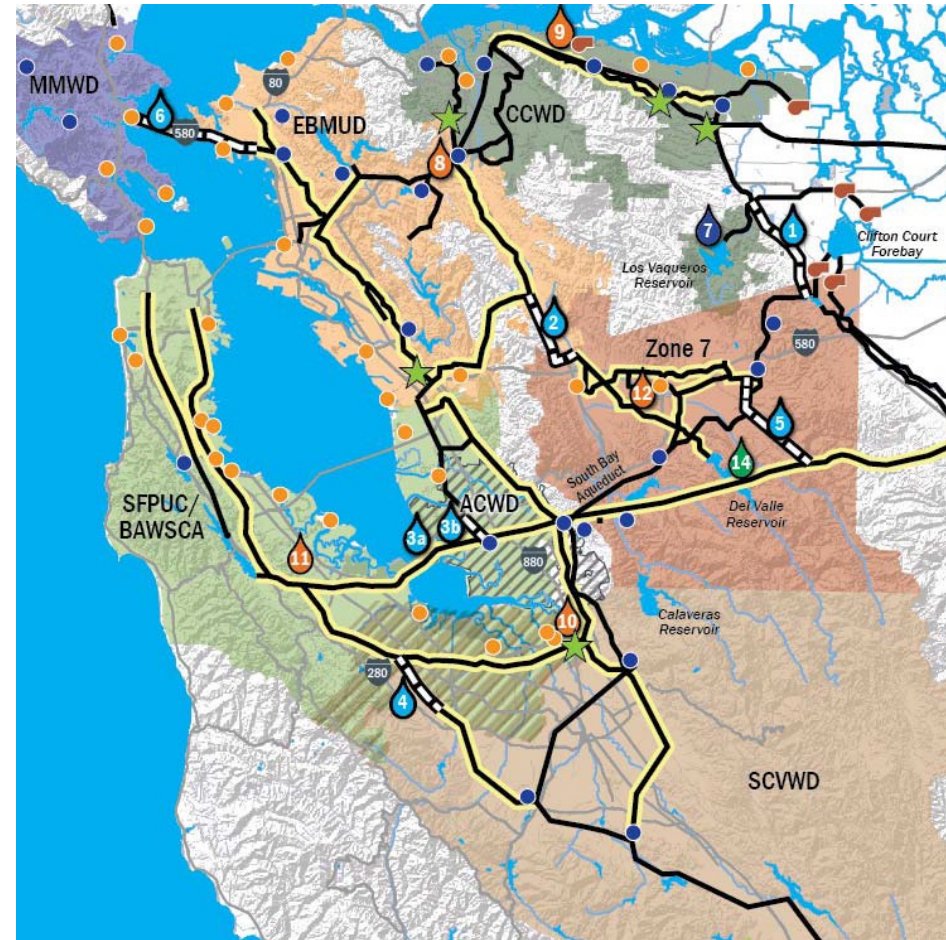


Interties

1. Transfer-Bethany Pipeline
2. Zone 7-EBMUD Intertie
3. ACWD-SFPUC Intertie - Local Supply and Indirect Potable Reuse
4. West Side SFPUC-SCVWD Intertie
5. SFPUC-Zone 7 Intertie
6. **MMWD-EBMUD Intertie**

Storage

7. **Los Vaqueros Reservoir Expansion**



BARR DCP MITIGATION MEASURES

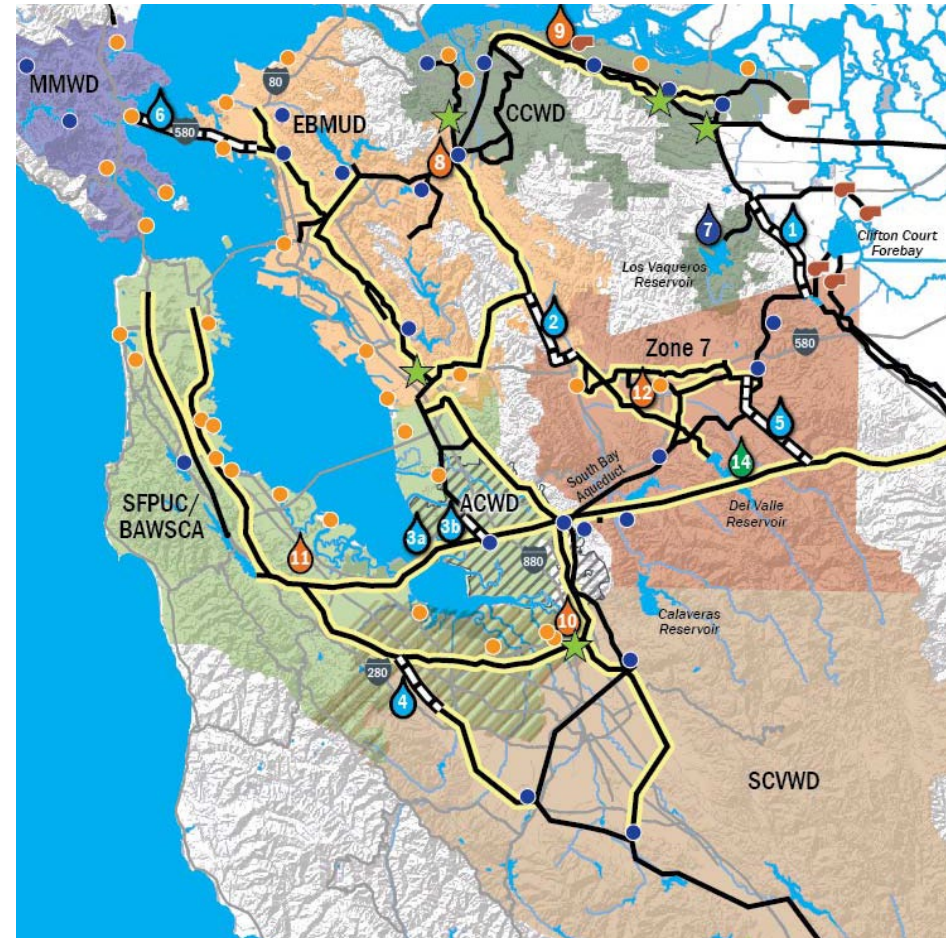


Treatment/Supply

- 8. Walnut Creek Water Treatment Pretreatment Facility
- 9. **Regional Desalination Plant**
- 10. Silicon Valley Advanced Water Purification Center Expansion
- 11. Mid-Peninsula Potable Reuse Exploratory Plan
- 12. Joint Tri-Valley Potable Reuse Feasibility Study

Operations

- 13. Regional Advanced Metering Infrastructure Study
- 14. Del Valle Reservoir Water Supply Storage Expansion Project
- 15. **BARR Shared Water Access Program (SWAP)**



TERMS/DEFINITIONS FROM BARR DCP



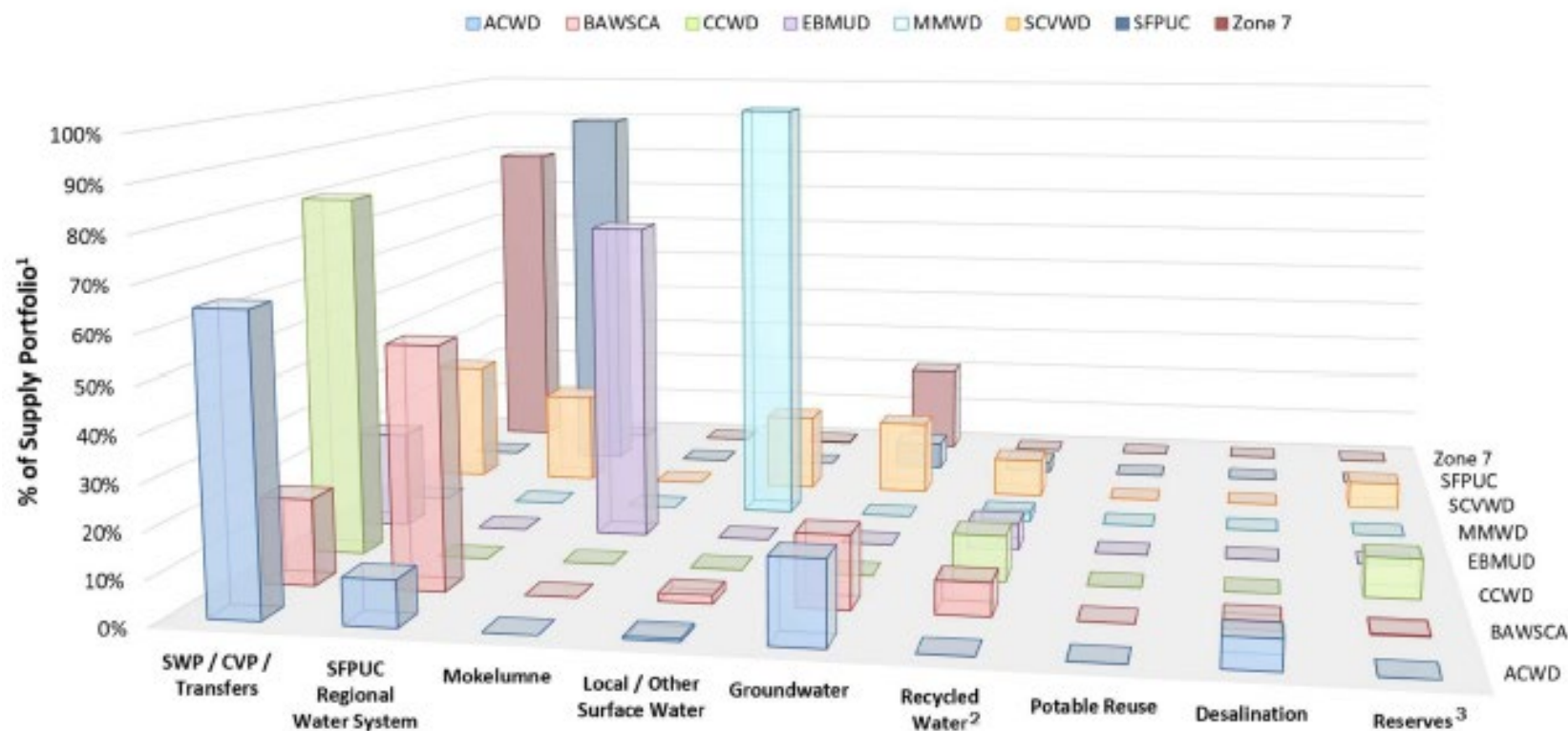
Water Supply Reliability: Ability to consistently meet water demands across a full range of climatic conditions and during catastrophic events with three key strategies:

- Demand management
- Supply diversification
- Infrastructure and system reliability improvements

Resilience: For the purposes of the BARR DCP and SWAP, the focus has been primarily on drought resilience, though many BARR efforts address other aspects of resilience (e.g., seismic or other disruptive events). Drought resilience is defined as capacity of a community to cope with and respond to drought.

BARR DCP

Each BARR Partner has a unique water supply portfolio



1. Third consecutive dry year 2020 supply

2. Recycled water may be served by other non-BARR agencies.

3. Reserves reflect previously stored local surface water and groundwater, originating from SWP, CVP, local runoff (such as Los Vaqueros), and/or recycled water.

BARR SWAP

- Develop a roadmap to help enable future water exchanges and transfers to support long-term supply reliability and supply under emergency conditions
- Understand hurdles
- Identify opportunities
- Currently being completed with grant funding from the Bureau of Reclamation



EXAMPLE PILOT TRANSFER: CCWD-VALLEY WATER EXCHANGE



- Component of the BARR SWAP
- Transfer of 5,000 acre-feet of CCWD's Central Valley Project (CVP) allocation to Valley Water
 - Made available by the delivery of 5,000 acre-feet of water stored in Los Vaqueros Reservoir to CCWD in lieu of CCWD diverting a like amount of CCWD's CVP allocation
 - Conveyed to Valley Water through the CVP export pumps
 - Completed Fall 2021
- In a future year, Valley Water will transfer 5,000 acre-feet of their own CVP allocation to CCWD
 - CCWD will divert the water and convey it directly to our service area or store the water in Los Vaqueros Reservoir

EXAMPLE PILOT TRANSFER: YUBA COUNTY WATER AGENCY

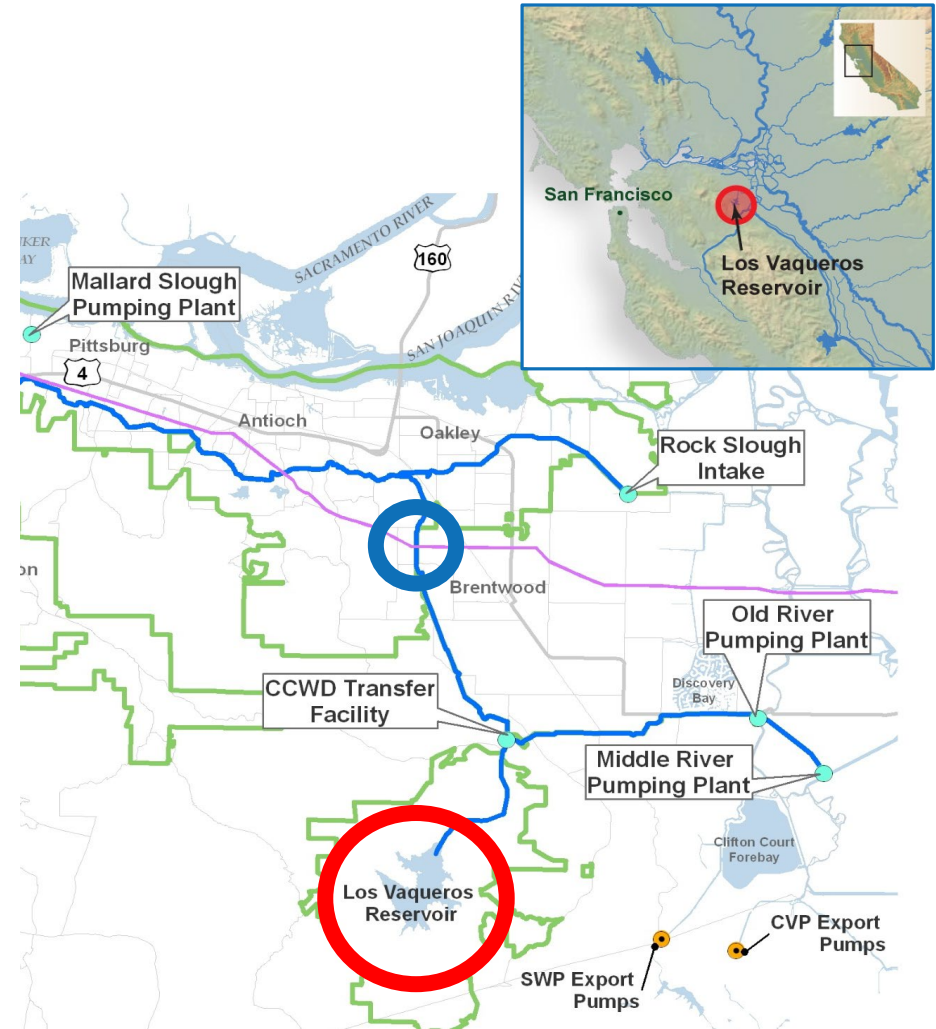


- The Yuba Accord agreements enable the transfer of previously stored water to water agencies in the Bay Area while maintaining protections for fisheries on the Yuba River system
- California's most successful water transfer program
- From 2007 through 2020, Yuba County Water Agency transferred more than 1.4 million acre-feet to State Water Project and Central Valley Project contractors and for environmental purposes



EXISTING LV RESERVOIR

- Los Vaqueros (LV) Reservoir is an off-stream reservoir in Contra Costa County with a capacity of 160,000 acre-feet
- CCWD operates LV in conjunction with four Delta intakes and an intertie with the East Bay Municipal Utility District (EBMUD)
- Benefits:
 - Water quality improvement
 - Drought supply reliability
 - Emergency supply
 - Delta fishery protection



LVE PROJECT COMPONENTS

Storage

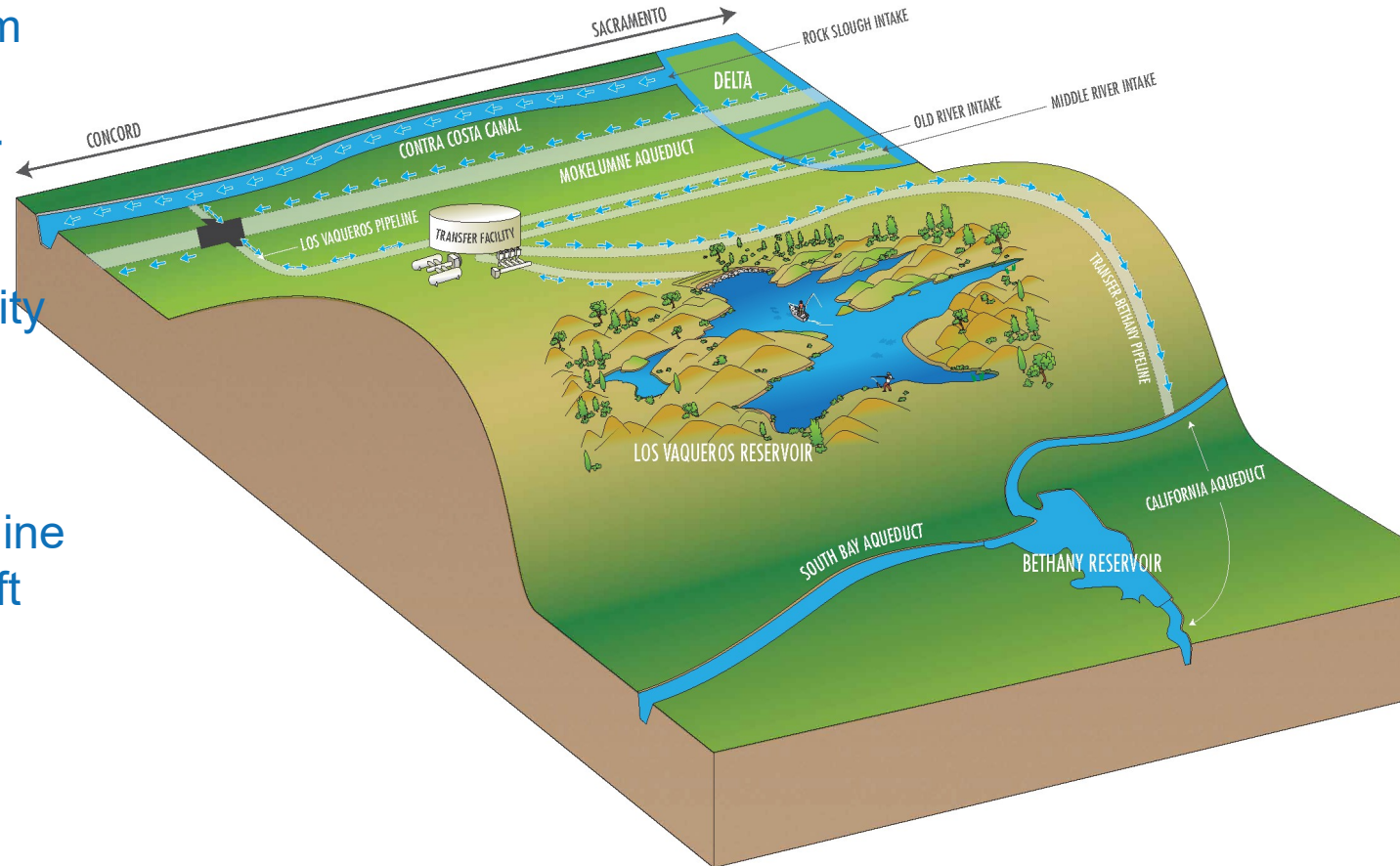
- Expand Reservoir from 160,000 to 275,000 acre-feet
- Upgrade Transfer Facility

Conveyance

- Transfer-Bethany Pipeline
- Neroly High-lift Pump Station

Recreation

- Trails
- Interpretive Center
- Marina



PUBLIC BENEFITS

Ecosystem

- Increased water supply for San Joaquin Valley wildlife refuges
- Improved survival of salmonids migrating through Delta

Emergency Response

- Catastrophic emergency
- Drought emergency

Recreation

- Enhance recreation at LV Reservoir & Watershed



NON-PUBLIC BENEFITS

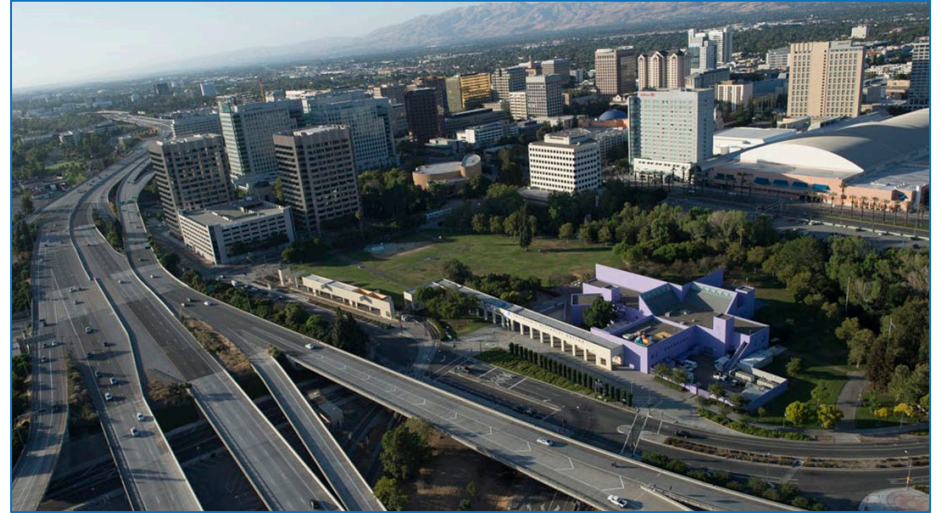
Increased Supply Reliability

- Bay Area Municipal & Industrial
- South-of-Delta CVP Agricultural

Improved Drinking Water Quality

Enhanced Regional Collaboration

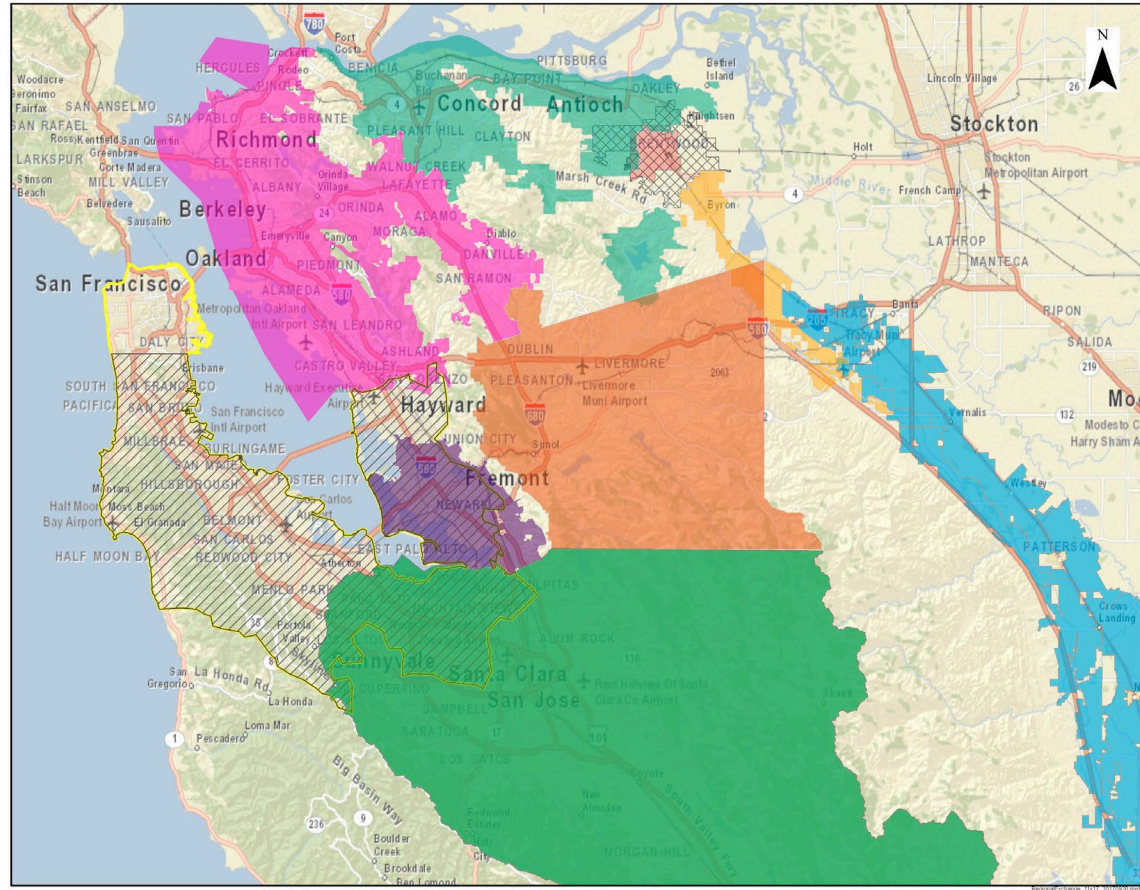
- Leverage Existing Facilities
- Facilitate Transfers
- Diversify Regional Supplies
- Improve Climate Change Resiliency



LOCAL AGENCY PARTNERS



- Alameda County Water District (ACWD)
- Contra Costa Water District (CCWD)
 - City of Brentwood
- East Bay Municipal Utility District (EBMUD)
- Grassland Water District (GWD)
- San Francisco Public Utilities Commission (SFPUC)
 - Bay Area Water Supply and Conservation Agency (BAWSA)
- San Luis & Delta-Mendota Water Authority (SLDMWA)
 - Byron-Bethany Irrigation District
 - Del Puerto Water District
 - Panoche Water District
 - Westlands Water District
- Santa Clara Valley Water District (Valley Water)
- Zone 7 Water Agency



October 15, 2021

THANK YOU!



To **find out more** or to **receive our newsletter**, visit us online at

ccwater.com

Questions? Call us at 925-688-8000

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