

Purple Pipe to Pure Water: LACSD's Reuse Program

WateReuse LA Chapter Meeting

Suzanne Brown, Senior Engineer December 3, 2024

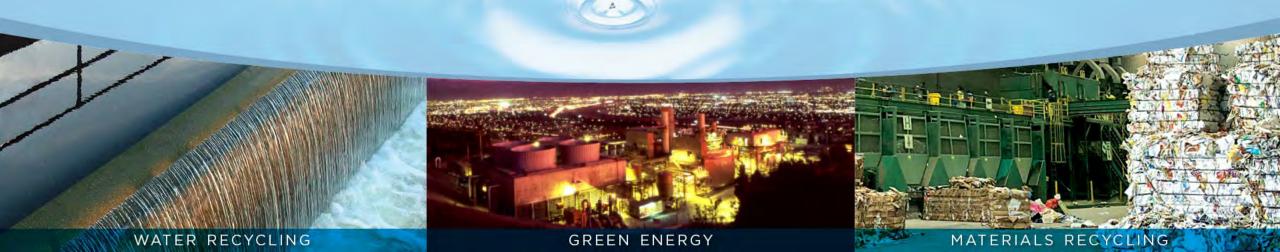






OUR MISSION

To protect public health and the environment through innovative and cost-effective wastewater and solid waste management and, in doing so, convert waste into resources such as recycled water, energy, and recycled materials.



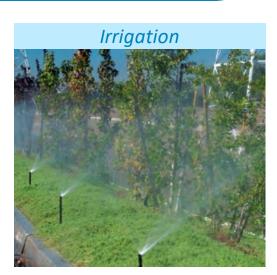


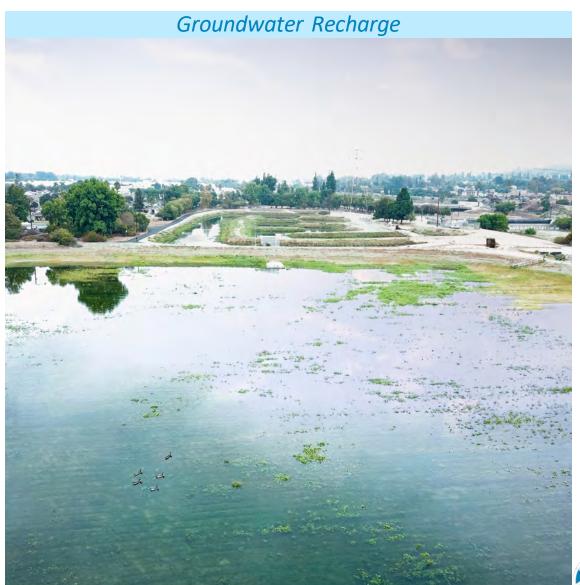


LACSD's Reuse Legacy

- > 1 trillion gallons recycled since 1962
- > 100 million gallons per day
- ~950 individual sites
- Partnerships with >30 cities and water agencies









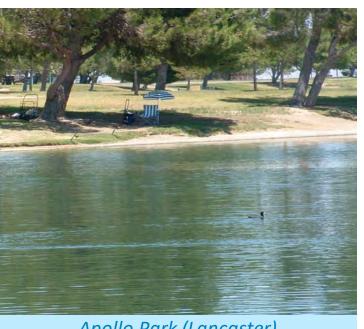


California Country Club (Whittier)

The Old Road (Santa Clarita)



Puente Hills Gas-to-Energy Facility (Whittier)



Apollo Park (Lancaster)

"Purple Pipe": Non-potable Reuse



Antelope Valley Farms (Palmdale)





San Jose Creek Water Reclamation Plant(s)

	SJC East	SJC West	Combined
Year Constructed	1971, expanded 1982	1993	n/a
Treatment Capacity	62.5 MGD	37.5 MGD	100 MGD
2023 Production	35.2 MGD	25.8 MGD	60 MGD
Quality	Disinfected Tertiary Recycled Water		

Recycled water partners:

- City of Industry
- Rowland Water District
- Central Basin Municipal Water District
- Upper San Gabriel Valley Water District
- San Gabriel Valley Water Company
- California County Club
- Rose Hills Cemetery
- Puente Hills Landfill/Gas-to-Energy Facility
- WRD





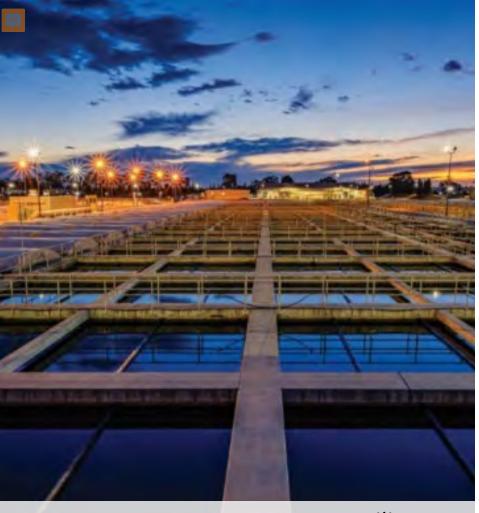
Albert Robles Center (WRD)











A.K. Warren Water Resource Facility



PUREVIOLER SOUTHERN CALIFORNIA



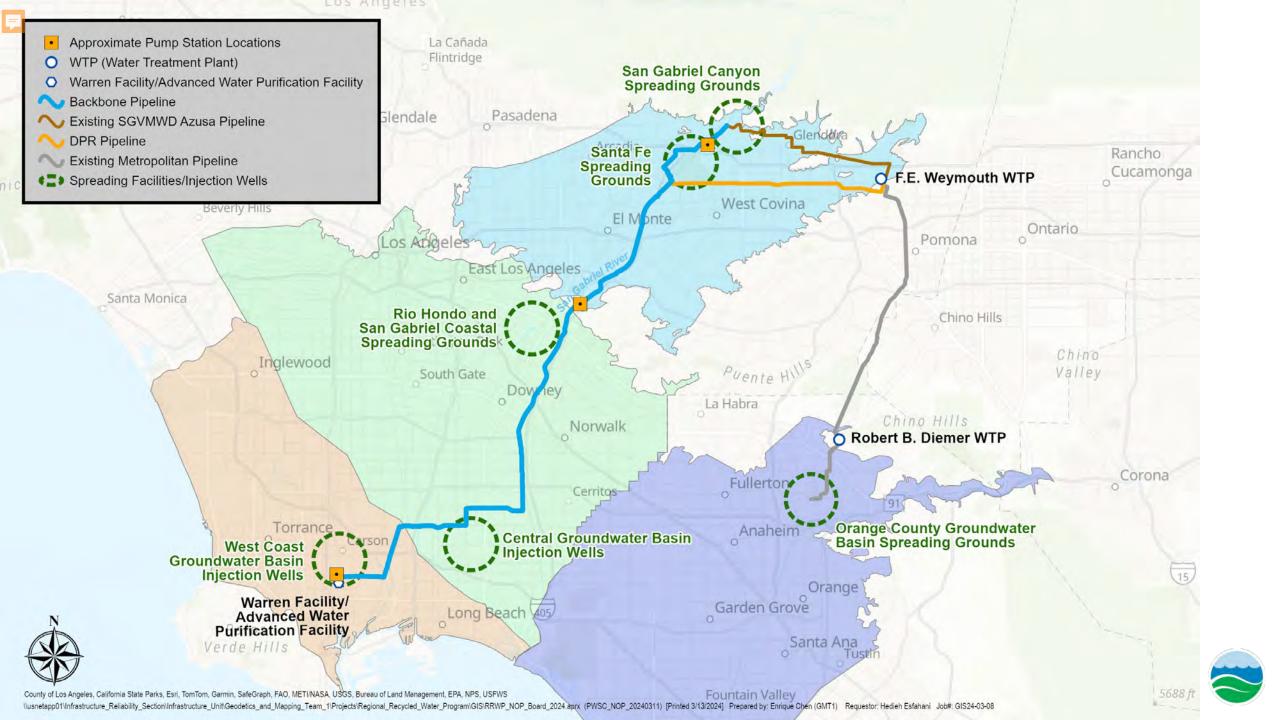


QUESTIONS?

Suzanne Brown
Senior Engineer

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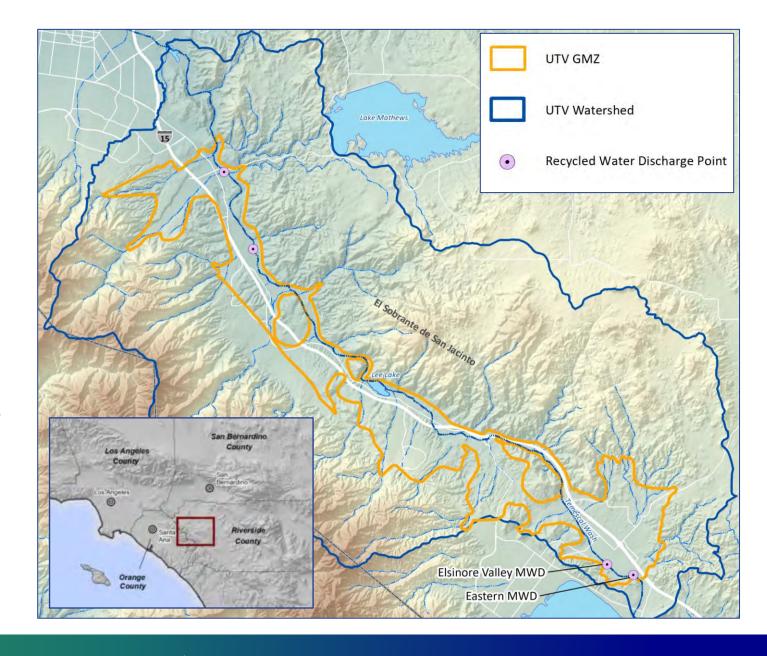
Presentation Outline

- Background
- Development of the Upper Temescal Valley (UTV) SNMP
- Approval
- Implementation
- Key Takeaways



Study Area

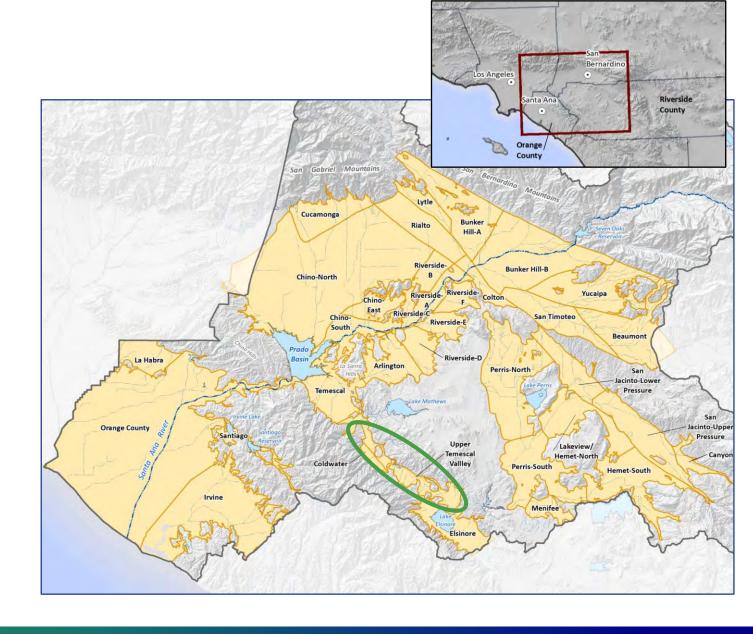
- UTV groundwater management zone (GMZ) is a 20-mile long, narrow and shallow alluvial basin
- UTV GMZ is drained by Temescal Wash
- Four permitted recycled water discharge points including Elsinore and Eastern's discharges





Regulatory Setting

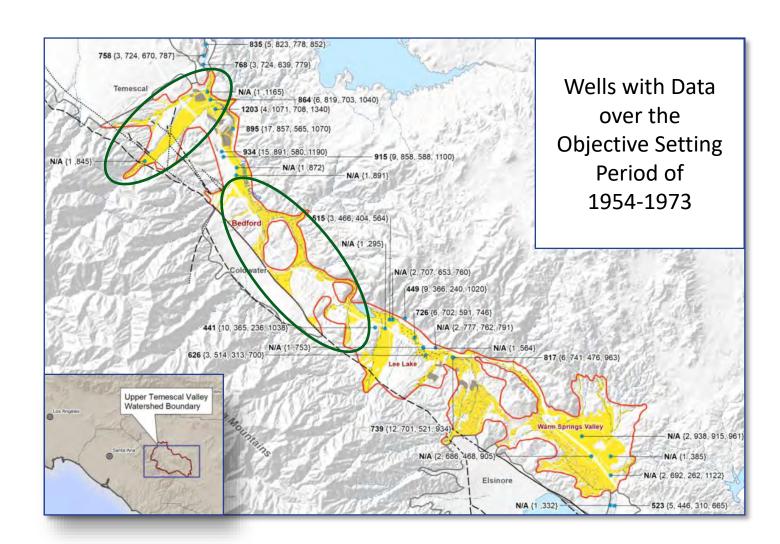
- Santa Ana Regional Water
 Quality Control Board
 (Regional Board) manages
 salinity by regulating recycled
 water activities
- Objective: Protect water quality consistent with antidegradation objectives defined in the Santa Ana Regional Water Quality Control Plan (Basin Plan)





Regulatory Setting

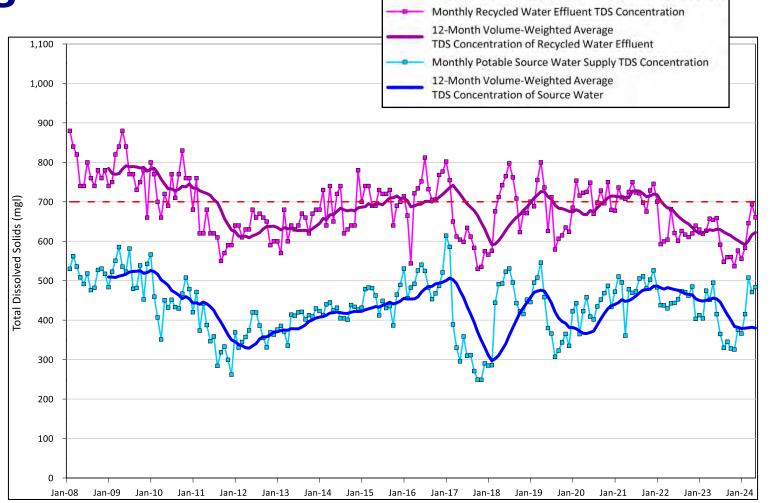
- Antidegradation objectives are based on historical data from 1954 to 1973
- Due to minimal historical data, the Regional Board did not establish water quality objectives for the UTV GMZ





Regulatory Challenges

- TDS concentration in Elsinore and Eastern's recycled water discharges exceeded their permit limits
- The Regional Board required agencies to quantify the impact of their exceedances and propose salt offset program
- How do you quantify impacts and develop salt offset plan with no objectives?

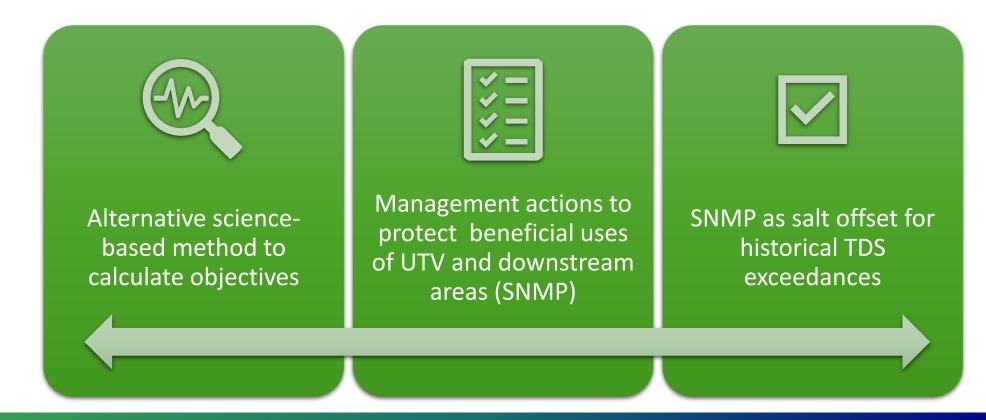


Regional WRF Recycled Water Permit Limit for TDS (700 mgl)



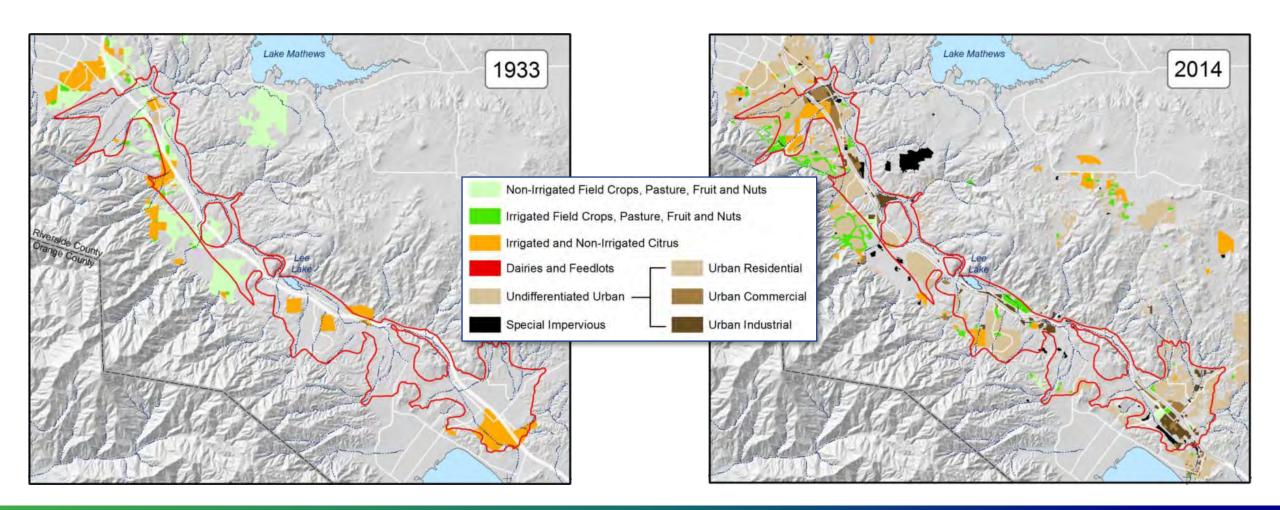
Development of the UTV SNMP

To resolve their historic exceedances and ensure long-term protection of the beneficial uses and water quality in the UTV, the agencies collaborated and developed an alternative regulatory compliance strategy.





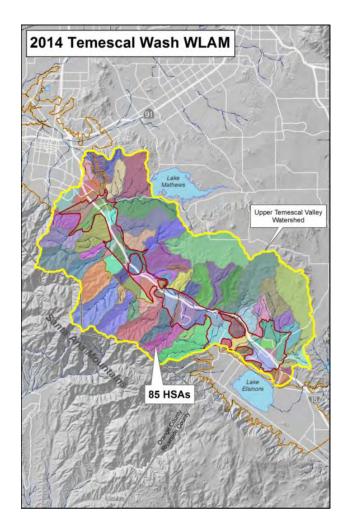
Development of UTV SNMP

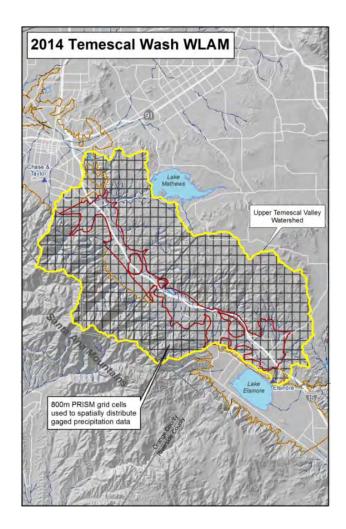


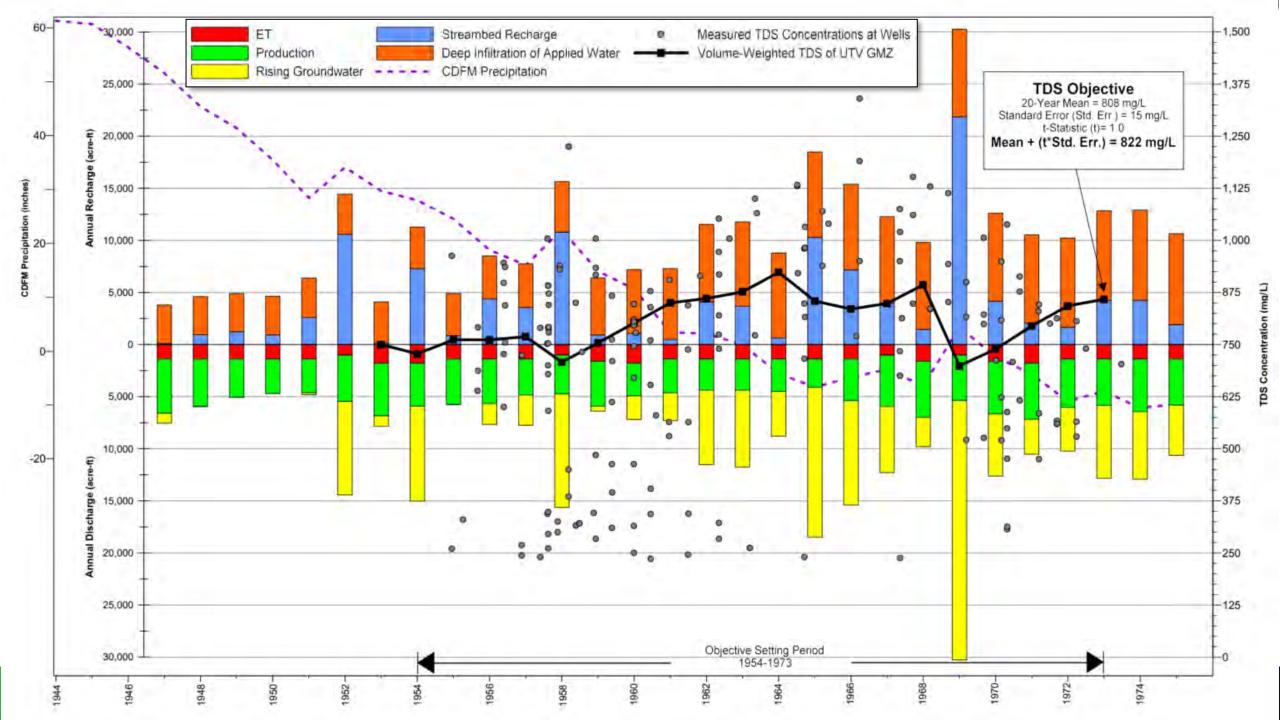


Development of UTV SNMP

Refinement and recalibration a surface water model used to estimate stormwater runoff and streambed infiltration









Development of the UTV SNMP

TDS and nitrate objectives of 820 mgl and 7.9 mgl, respectively

Surface water and groundwater monitoring

Triennial reporting on water supply and associated drivers of TDS

Participate in SAWPA Task Force effort to periodically update WLA

Periodic recomputation of ambient water quality

Periodic update of the UTV SNMP management actions

Develop/implement salt offset plan(s) to address ongoing TDS limit exceedances

Annual reporting of progress of UTV SNMP implementation





SNMP Development and Approval



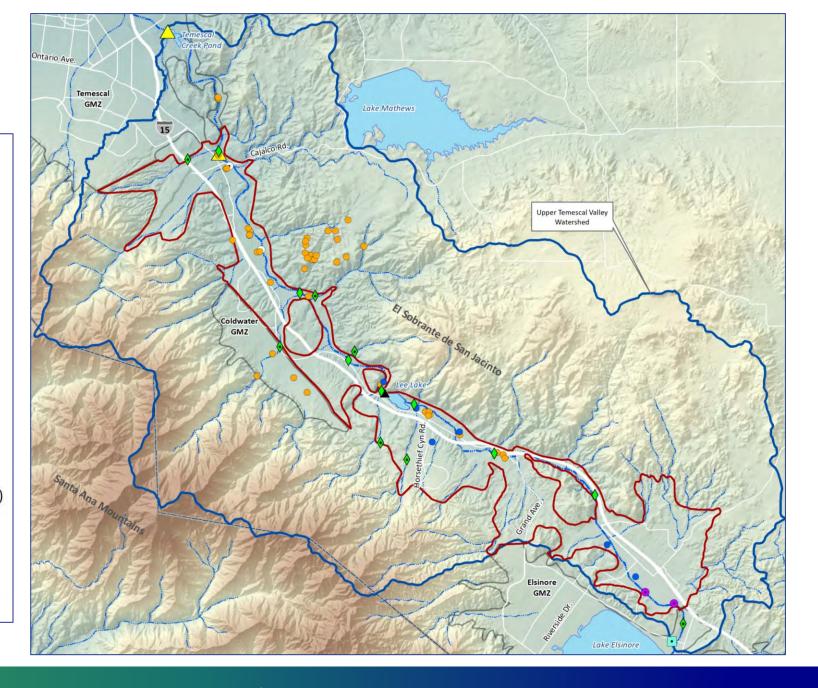


Field Monitoring Locations

- Groundwater Well
- Surface Water and Stormwater Site
- Dedicated Stormwater Site

Cooperative Data Locations (Cooperator)

- Groundwater Well (Multiple)
- Surface Water Discharge Gage
 (California Department of Water Resources)
- Surface Water Discharge Gage
 (United State Geological Survey)
- Precipitation Gage
 (County of Riverside Department of Flood Control)
- Active Recycled Water Discharge Point in 2023 (Multiple)
- Inactive Recycled Water Discharge Point in 2023 (Multiple)





Key Takeaways

Developing compliance strategy for basin with limited historical data include:

- Alternative method that considers the known basinspecific hydrogeology and surface water-groundwater interactions
- Adaptive management plan
- Data collection to assess impacts and develop appropriate and cost-effective salt offset plan



Thank You

Questions/Comments?

Sodavy Ou (sou@westyost.com)





WateReuse Legislative Update, LA Chapter

Phillip Vander Klay

Legislative Liaison, LACSD

December 03, 2024



Election Update

New Representatives for LA County

- US Senator Adam Schiff
- 4 new representatives
- 4 new state senators
- 8 new assemblymembers

Proposition 4 – AKA the Climate Bond



Legislative Update

Swearing in new members

- 70% of the legislature has served 4 years or fewer
- Lowered the bill limit to 35 per two-year session

Special Session

- \$25 million in funding for Attorney General
- Taking more of a wait-and-see approach



Legislative Outlook

Stable Budget Outlook – for now

Watch for Proposition 4 Bond Funding

WateReuse Possible Legislative Proposals

- Updates to Title 22
- Recycled water impoundments
- Redefine unauthorized discharges of recycled water



Possible Legislative Proposals

Problem 1: Outdoor eating areas cannot have any contact with recycled water.

Problem 2: Recycled water cannot be used in food handling or processing facilities even for toilet or urinal flushing.

Problem 3: A homeowners' association (HOA) that irrigates the outdoor landscaping of common space not part of an individual residences, although adjacent or near them, is a "dual sourced" property, but in many parts of the state are being treated as if they are "dual plumbed." The outdoor space near the residence is not owned by the homeowner.





Last Board of Trustees Meeting: November 8, 2024



Strategic Planning Update

Katie Burkart, MatterLogic

Next Steps...

- Survey Landscape
- 2. Q&A Sessions
- 3. Clarify direction and Growth
- 4. Develop 1st and 2nd drafts, Refine draft, Adopt and Implement







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Proposed 2025 WRCA Special Projects

- 1. Water Loop Videos
 - Produce engaging video series to showcase the potential of watereuse
- 2. Strategic Plan Implementation
 - Deliver the NEW strategic plan 1st quarter of 2025
- 3. Southern California Water Coalition Video
 - WRCA & SCWC to develop videos focused on improving perception of DPR
- 4. Reuse Implementation Set Aside
 - WRCA workshop 11/7/2025 focusing on implementation needs for DPR
- 5. Regulation Guidebook
 - WRCA to develop regulatory guidebook





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FY 2025 Proposed Budget

- FY 2024 (through 9/30/24) \$1,414,216
- FY 2025 Proposed \$1,276,519

APPROVED

Contract with PC Events

- Meeting planner with experience in conference program development, Sponsorship, and Exhibit Hall management and event logistics.

 APPROVED
- PC Events will provide services for WRCA's 2025 Annual Conference

Contract with MatterLogic

Strategic Plan Implementation

Contract with WaterLoop

WRCA Podcasts/videos







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2025 WaterReuse Symposium

- Tampa, FL JW Marriot Tampa Water Street
- March $16^{th} 19^{th}$, 2025



2025 WateReuse Annual Conference

- San Diego, CA Town and Country Resort
- September 7th -9th, 2025





LA Chapter Committee Updates

- Communications Committee
 Oliver Slosser
 oslosser@lvmwd.com
- Rising Professionals Committee
 Seto Cherchian
 SCherchian@mwdh2o.com
- Technical Topics Committee
 Alex Franchi
 alex.franchi@aecom.com
 Dinaz Kureishy
 dinaz.kureishy@santamonica.gov
- Agricultural Committee
 Seto Cherchian
 SCherchian@mwdh2o.com

- Recycled Water Users Manual John Lockett
- Ad Hoc Urban Irrigation Manual Update Committee Monica Sanchez/LACSD monicasanchez@lacsd.org Erika Bensch/LACSD Jesus Gonzalez/LADWP
 - Meeting Summaries –
 Discontinued. Materials will be available on LA Chapter website.



LA Chapter Board Elections 2025-2026

- Nominations from the Floor
- In accordance with our Chapter Bylaws, each dues-paying member organization will select one representative to cast a vote on their behalf.
- Please cast a hard copy ballot.
- Executive Committee Approved Slate:
- ☐ President: Jennifer Jacobus, Rincon Consultants
- ☐ Vice President: Everett Ferguson, WRD
- ☐ Trustee: Rafael Villegas, LADWP
- ☐ Secretary/Treasurer: Setrag Cherchian, Metropolitan



Member Agency Roundtable