



Arcadis at a glance



OUR MISSION

Leading global natural and built asset design & consultancy firm working in partnership with our clients to deliver exceptional and sustainable outcomes through the application of design, consultancy, engineering, project and management services

ENGINEERING NEWS RECORD 2023 GLOBAL SOURCEBOOK RANKINGS

#4

Water Supply

#8

Dams and Reservoirs

1

Treatment and Desalination

5
Transmission Lines and Aqueducts

KEY STATISTICS

Founded in 1888

gross revenue

BILLION

people worldwide
THOUSAND

net revenue in Water US

200 MILLION

people in Water US

1 THOUSAND

BUSINESS AREAS

Resilience - Water/Environment



Mobility – Transportation



Places - Buildings





Arcadis California Water Presence







Water/Wastewater Supply & Treatment

Provide safe water and protect the environment



Water Resiliency

Deliver supply planning, drought resilience, and local water source solutions



Conveyance

Model/Move water/wastewater reliably and efficiently



Program Management/ Owner's Agent

Provide holistic support for clients' complex projects



Asset Management

Meet the service and performance expectations of customers, stakeholders, and regulators



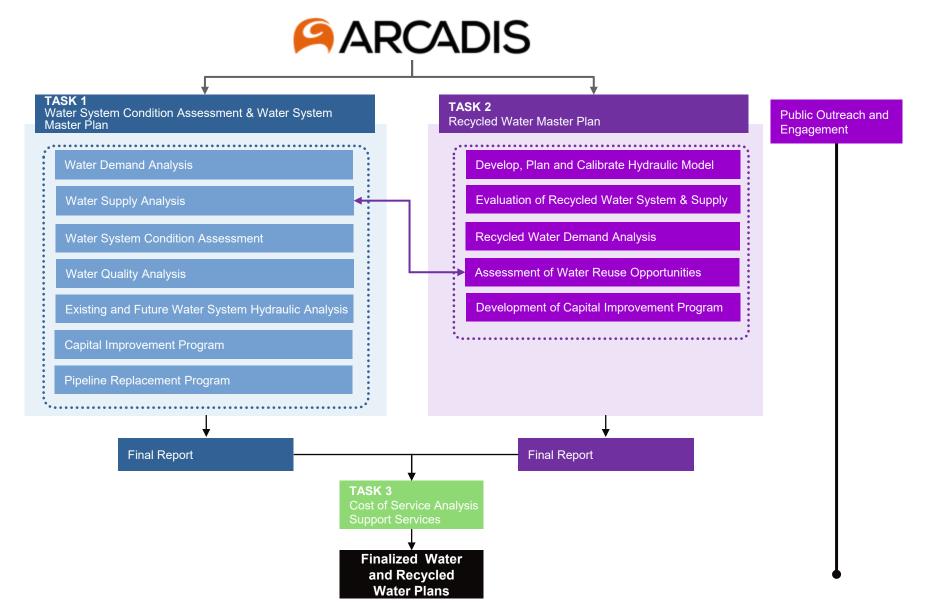
Construction Management

Oversee construction to monitor and report on contract compliance



GWP Water and Recycled Water Master Plan Overview ARCADIS











Increasing Awareness and Gaining Acceptance





Strategic Communications & Stakeholder Research



Informational Materials



Outreach Sessions



Meetings & Events



Visual Communication



Promoting the Project









Reuse Assessment

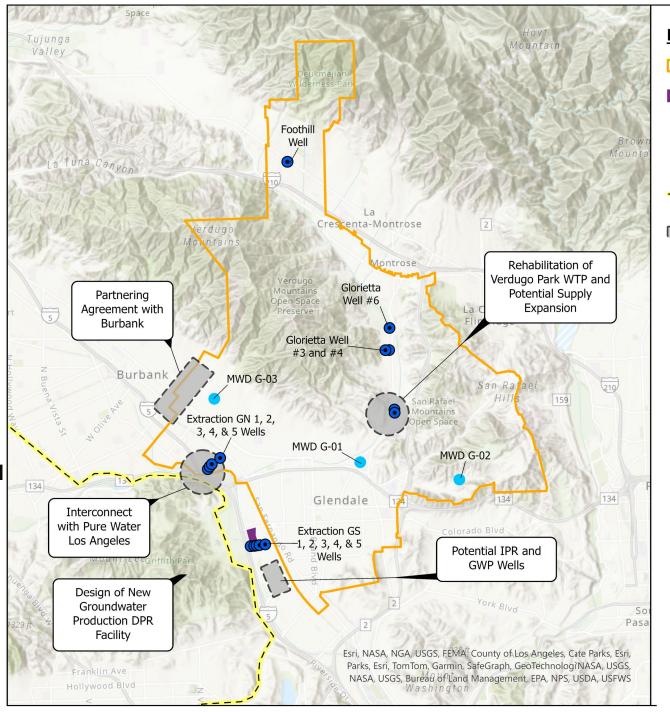
To Diversify and Secure Future for GWP's Potable and Recycled Supplies

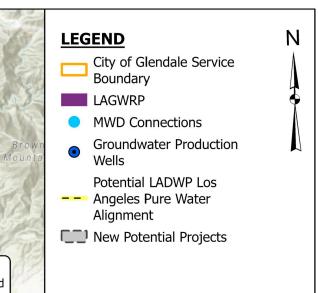


& Conceptual
Potable and
Recycled Supplies



Rank Future Potential Supplies through MCDA to Justify Best Supplies for GWP's Customers





0 0.5 1





LADWP's Path to Reuse

Non-Potable Reuse





- Irrigation
- Industrial Uses
- Environmental

Indirect Potable Reuse





- Terminal Island
- Donald C. Tillman
- Pure Water LA

Direct Potable Reuse



- Pure Water LA
- Headworks DPR

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LADWP Plans 1 MGD DPR Demonstration Facility

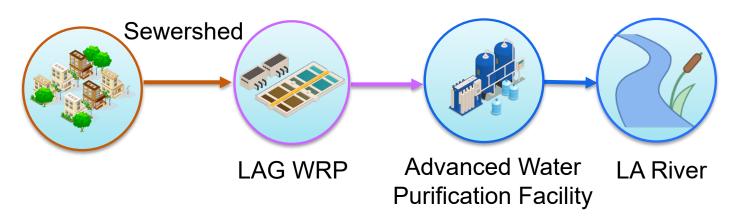






DPR Demonstration Facility Project Phases

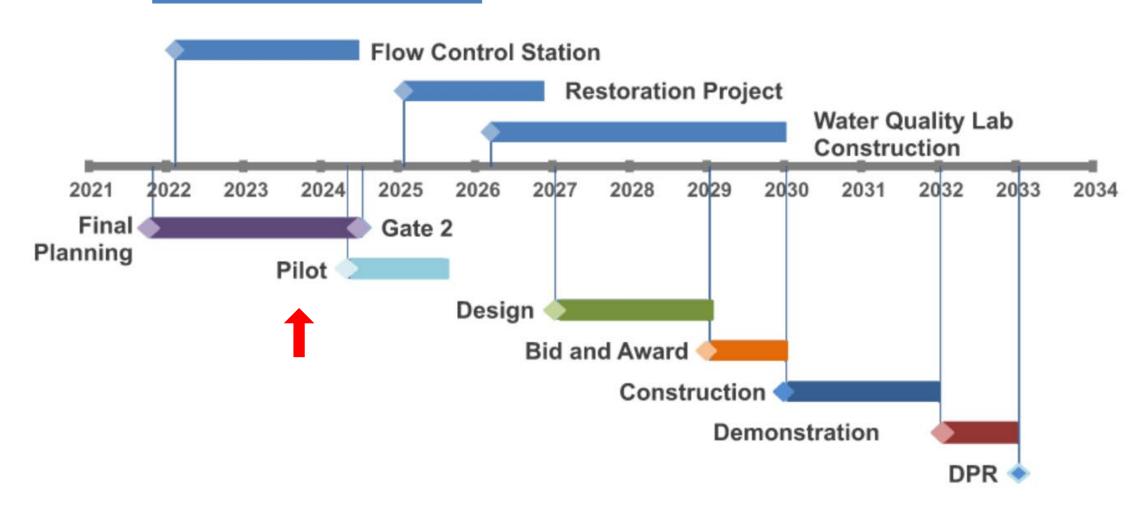
Phase 1 – Demonstration Facility (1 MGD)





Headworks DPR Project Schedule

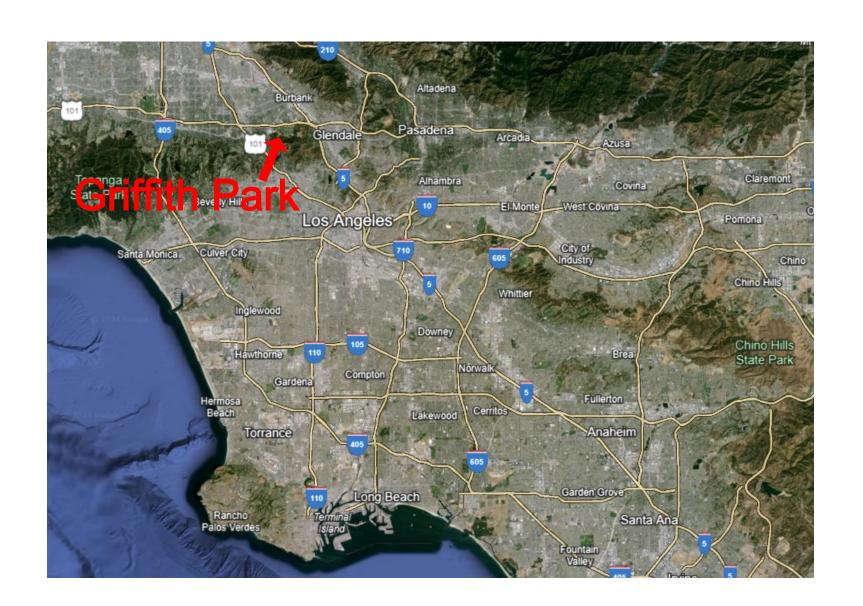
Headworks Construction Activity



Goals of Pilot Testing

- Collect data to comply with DPR regulations & engage regulators
- Optimize design of demo and full-scale facilities
- Evaluate process trains for addressing chemical spikes
- Evaluate direct monitoring of viruses for achieving LRVs
- Demonstrate integrity monitoring for critical control points

Pilot Plant Location

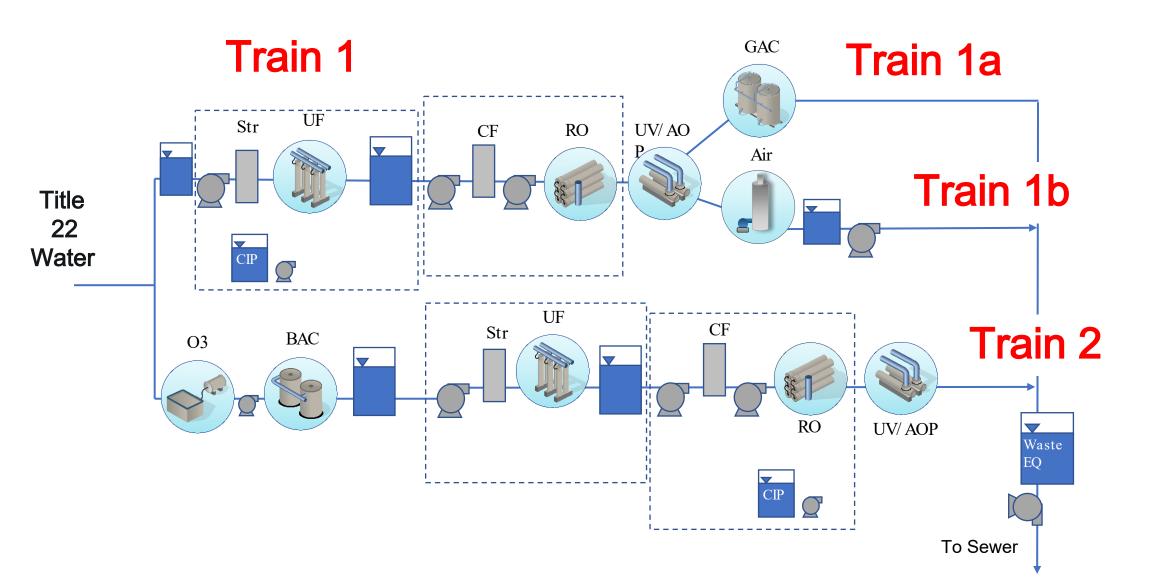




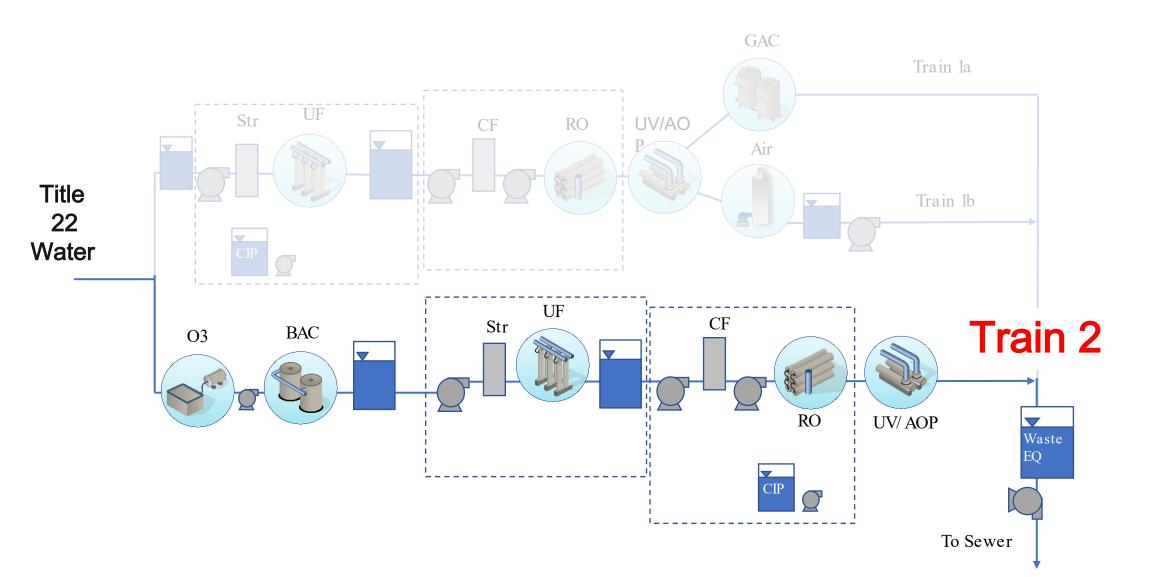
Pilot Plant Location



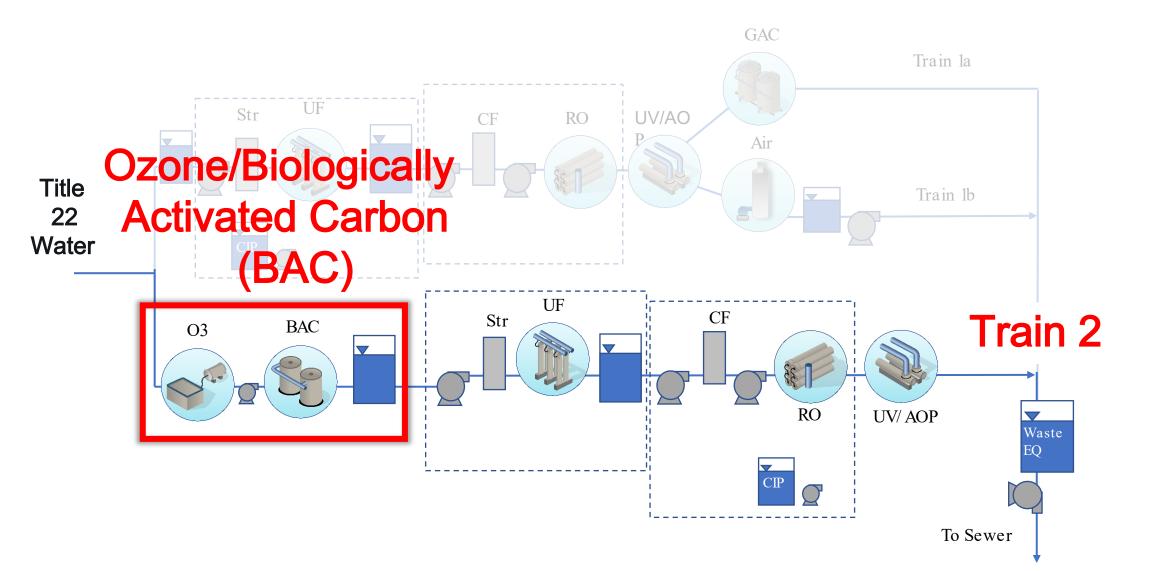




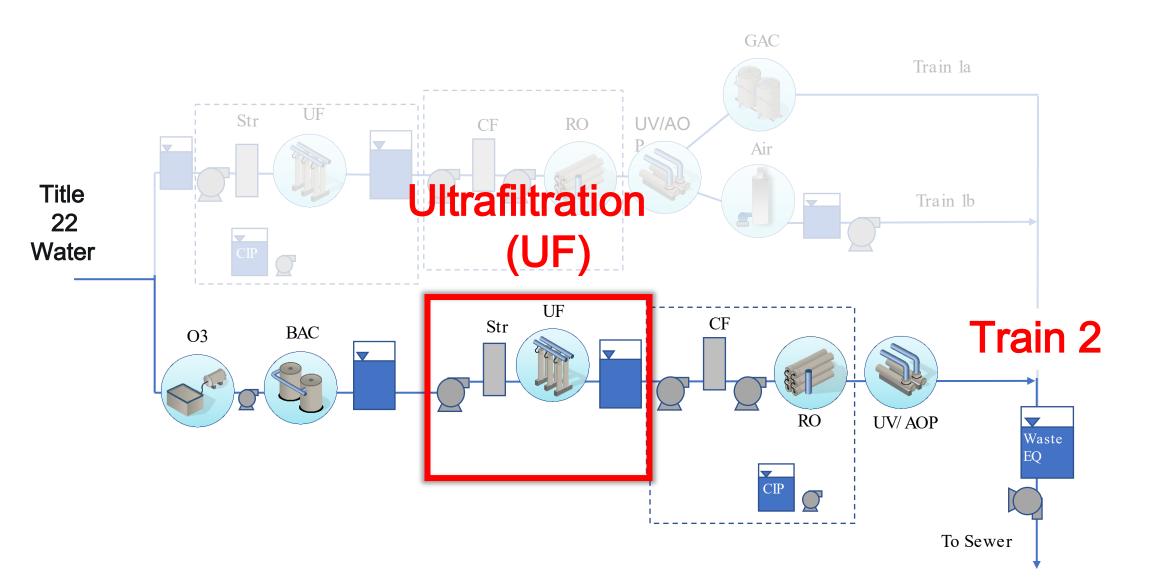




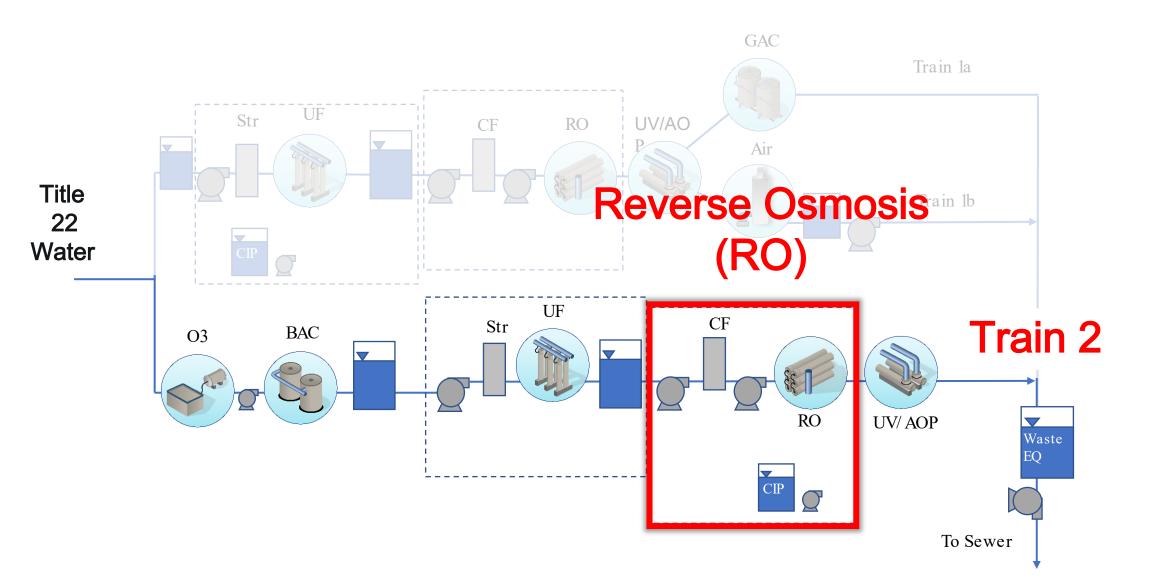




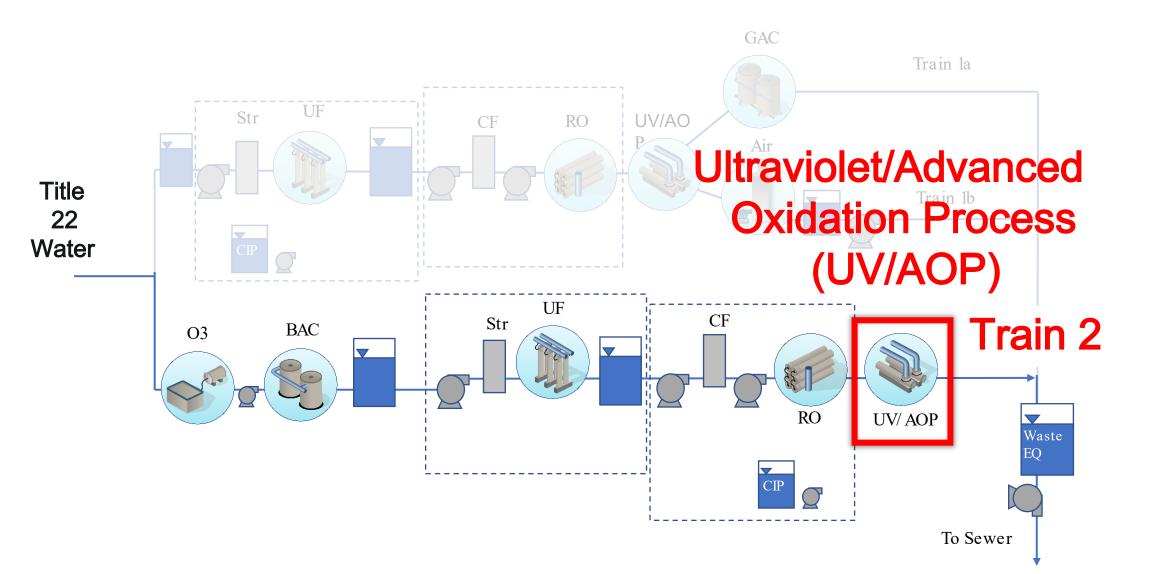




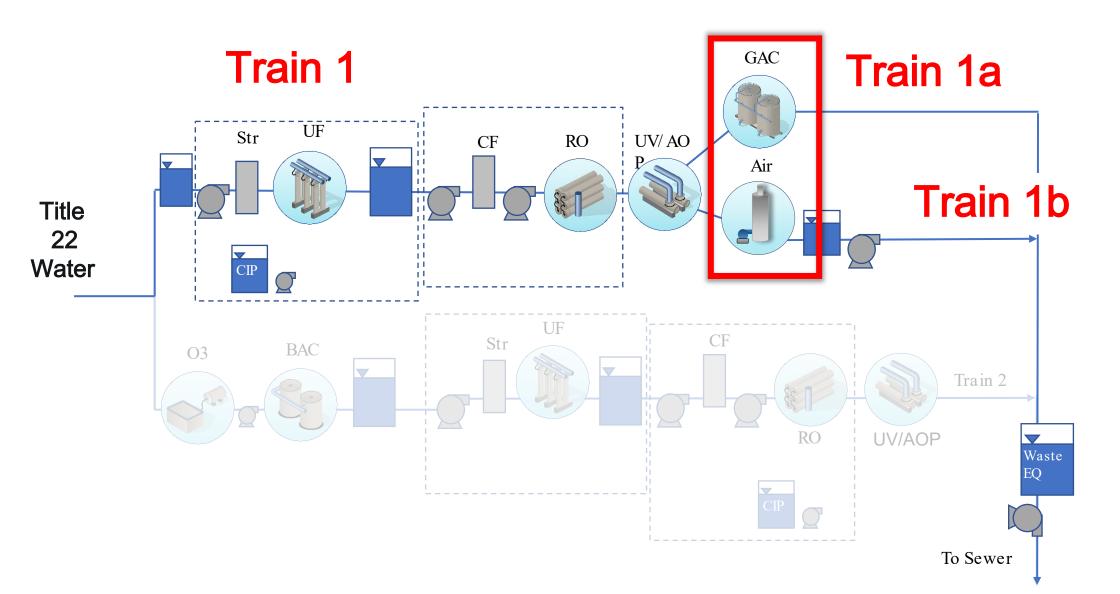




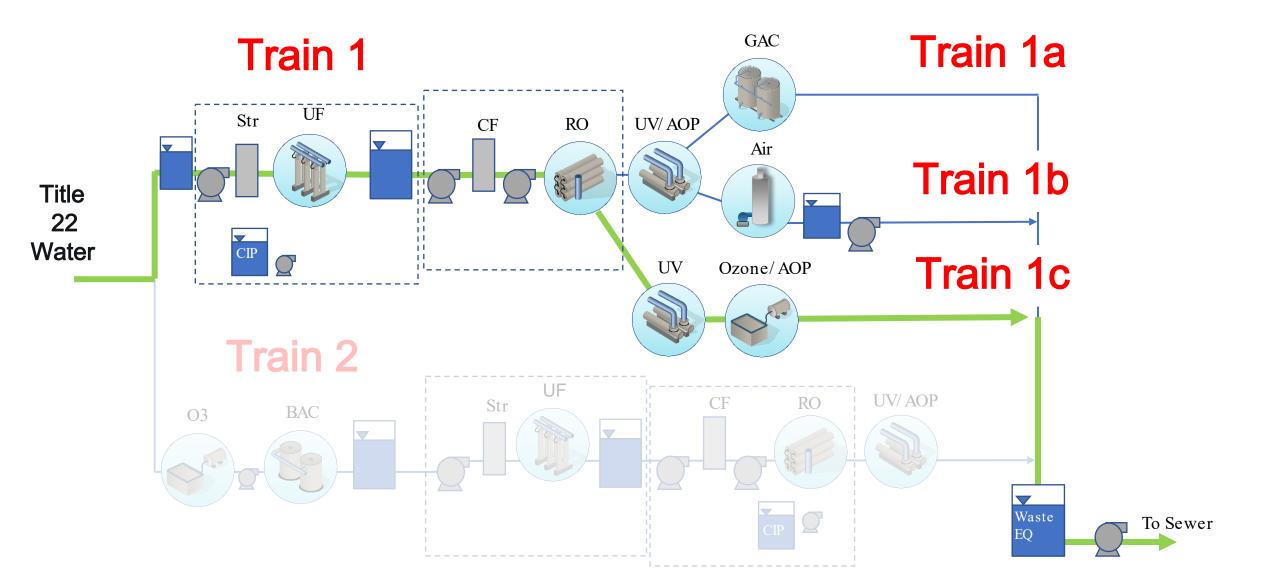












DPR Pilot Setup



Processes Inside the Trailer



Ozone Contactor



UV/AOP



GAC

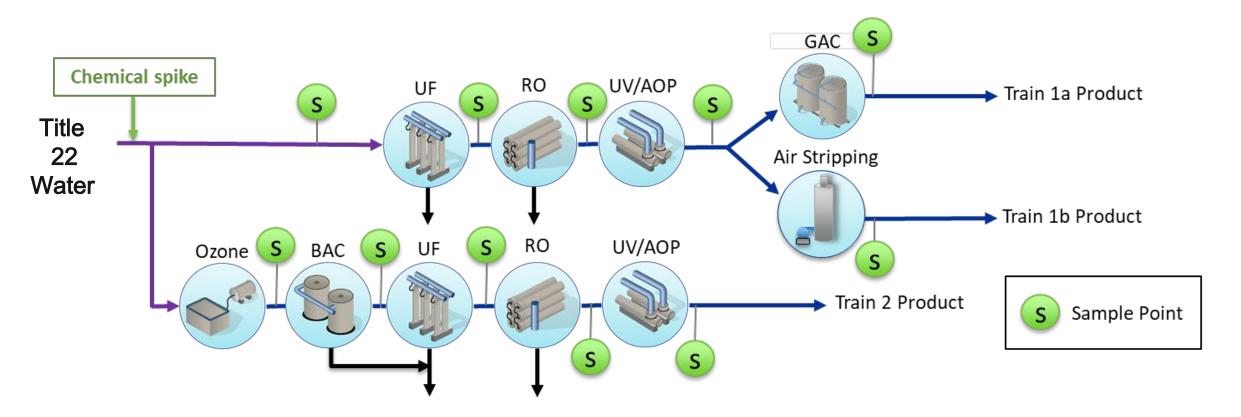
Special Testing

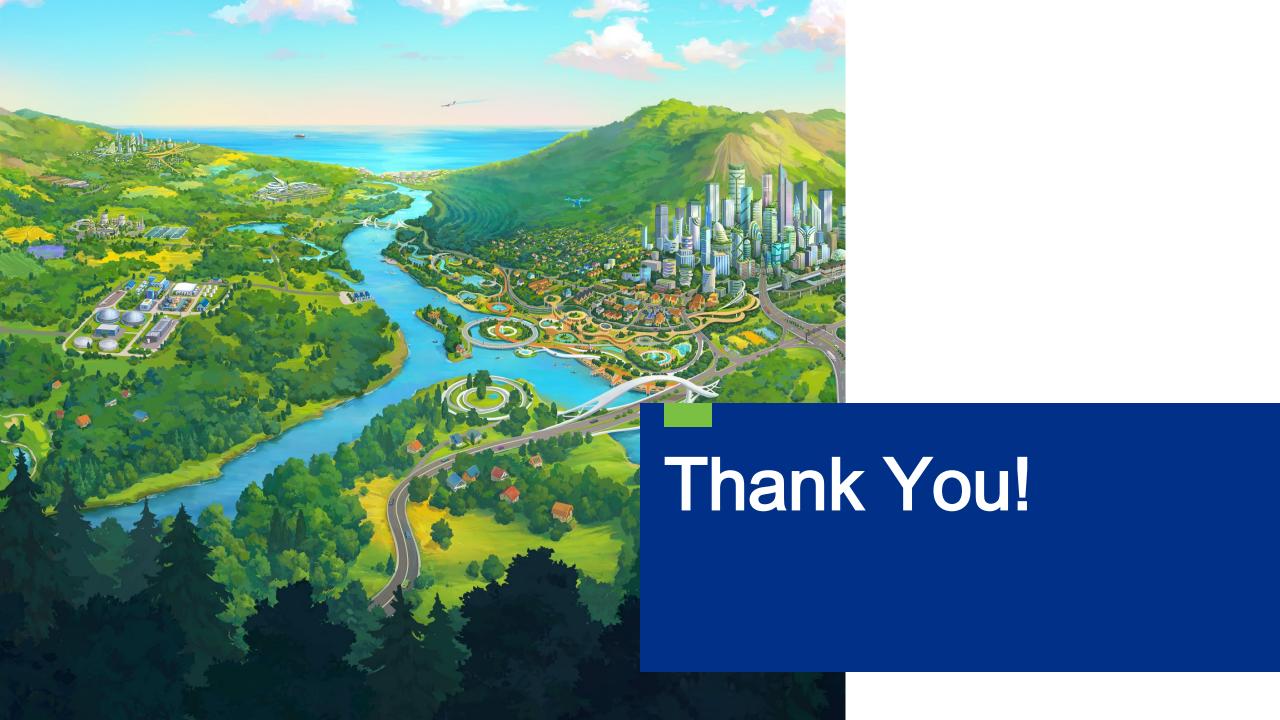
- Bench-scale free chlorine disinfection testing
- Simulated distribution system testing
- Jar testing for post-treatment water quality
- Chemical spiking
- qPCR testing
- UV/ AOP challenge testing
- Post-RO ozone/ AOP challenge testing



Chemical Spiking Approach

Focus on full treatment train rather than individual process







WateReuse Legislative Update, LA Chapter

Phillip Vander Klay Legislative Liaison, LACSD

February 11, 2025



Legislative Update

Chaos in Washington

- Funding frozen, then unfrozen
- Water funding fine for now, EV funding in trouble
- Regulatory actions on hold PFAS, etc
- Complete disregard for rule of law no stability on what happens next
- Staff fired and agencies shut-down on a whim



Legislative Update

Sacramento Update

- •\$2.5 billion in funding for LA fires response
- Executive Orders from Governor to speed rebuilding
- Bill introduction next week wait and see
- Recycled water funding bond & budget



Legislative Outlook

Action Items

- Get funding agreements executed quickly if possible
- Don't count on anything in the short term
- Earmarks still likely for FY 25 and FY 26
- We'll see how court cases and state legislative response develop



WateReuse LA Chapter Meeting February 11, 2025 Division of Drinking Water Updates



Recycled Water Regulatory Updates

- Regulations for Onsite Treatment and Reuse of Non-potable Water
 - Public Notice of Proposed Rulemaking expected in late-March
- State Water Resources Control Board Meeting
 - Consideration of a Proposed Resolution adopting the prioritization of drinking water regulations development for calendar year 2025.
 - Agenda Item 3
 - Draft Resolution









Strategic Planning Update

Purpose: To make recycled water work for communities in California

Mission: We convene the only community focused on delivering all forms of recycled water through leadership, education, and advocacy.

Vision: Recycled water is part of California's water future

Outcomes:

- Our Members have knowledge needed to deliver recycled water
- Our Members develop relationships and grow business
- Our Members go through a streamlined regulatory process
- Our Members have funding for recycled water projects









Last Board of Trustees Meeting: February 10, 2025

FY 24/25 Preliminary Budget

- Budget \$1,050,572
- Revenue \$1,173,459

Preliminary FY2024 Financials

- Beginning Net Assets: \$1,095,391
- Ending Net Assets: \$886,059

Leg/Reg Committee Guideline Revisions

- Revision Goal: To increase participation, engagement, and attendance
 - Number of Committee Members
 - Distribution Clarification
 - At Large Numbers and Attendance policy

CalVal – Uniform LRV Guidance Manual Project

- Standardize DPR Permitting and Validation
- Funding from Members ~\$250k (includes participation from WRF)











Last Board of Trustees Meeting: February 10, 2025



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. Regulation Guidebook
 - WRCA to develop regulatory guidebook for other states







Last Board of Trustees Meeting: February 10, 2025



2025 WaterReuse Symposium

- Tampa, FL JW Marriot Tampa Water Street
- March 16th 19th, 2025

2025 WateReuse Annual Conference

- San Diego, CA Town & Country Resort
- <u>UPDATED</u>: September 21st 23rd , 2025

Celebrating 40 Years!







LA Chapter Updates

- Communications Chair: Oliver Slosser
 oslosser@lvmwd.com
- Ad Hoc Urban Irrigation
 Manual Update Co-Chairs:
 Monica Sanchez, Erika
 Bensch, and Jesus
 Gonzalez
 monicasanchez@lacsd.org
- Recycled Water User
 Manual Update Chair:
 John Lockett
 primal.truth@gmail.com
- Technical Topics Chair: *Alex Franchi and Dinaz Kureishy*

alex.franchi@aecom.com



Volunteer Opportunity
 Rising Professionals
 Committee Chair

Member Agency Roundtable

- 40th WateReuse Symposium
 - March 16-19, Tampa, FL
- CA WateReuse Conference
 - September 21-23, San Diego, CA
- Needed Chapter Meeting Hosts & Sponsors
- Needed Technical Topic
 - Advanced Treatment Facility projects
 - > PFAS
 - New regulations
 - Climate resiliency
 - ➤ New/emerging technologies.
 - ➤ Complying with IPR/DPR regulations
 - Digital application in Water Reuse
 - > DPR related effort

