

**Location:** Long Beach Water Department & Virtual  
**Address:** Long Beach Ground Water Treatment Plant, 2950 Redondo Ave,  
Long Beach, CA 90808  
**Purpose:** Bi-Monthly Meeting  
**Date and Time:** April 12, 2022 from 11:30 a.m. – 1:00 p.m.  
**Distribution:** Los Angeles WaterReuse Association Chapter Members and Supporters

Below is a summary of the highlight from the April 2022 bimonthly member meeting of the Los Angeles Chapter of the WaterReuse Association.

The presentations from this meeting can be found at:

<http://www.watereuse.org/sections/california/losangeles/meetings>

**1. Host Presentation: Preparing for Future Recycled Water Demands** (*Dean Wang, Long Beach Water Department*)

The two largest recycled water uses for Long Beach are WRD's Leo J. Vanderlans (LVL) Advanced Water Treatment Facility (AWTF) and THUMS. In addition, recycled water users include schools, golf courses and parks. THUMS is on Island White off the coast of Long Beach and is an oil production facility. The LVL AWTF provides advanced treatment and was expanded to 8 MGD in 2014.

Potential future user for recycled water includes LADWP's Haynes Generating Station. Currently ocean water is used for cooling and discharged back into the ocean. Instead, recycled water could be used and would be discharged back to the Long Beach Water Reclamation Plant (WRP).

Additional storage for recycled water is currently being investigated:

- El Dorado Park Duck Pond Storage would allow for filling of the pond during the daytime when supply is greater than demand. The golf course irrigates at night and would draw recycled water from the pond.
- Alamitos Reservoir Tank Conversion would convert two potable water tanks into recycled water tanks; each tank has 3.3 MG capacity.

Potable-to-Recycled Water Transfer System: This system provides the ability to move potable water to the recycled water system on days when RW supply doesn't meet demand. This would provide a safeguard for the recycled water system.

**2. Sponsor Presentation: Enhancing Urban Waterways While Obtaining Water Supply Benefits in the City of Los Angeles** (*Chris Mote/Stantec*)

Defining the Challenges of Urban Runoff Pollution: The key challenges include limited water supply options; rainfall is unreliable; and infrequent storms leave pollutants undisturbed on paved surfaces for extended durations

Urban runoff picks up pollutants such as pet waste, leaves, motor oil, detergents and trash; due to water conservation there is lower flows of urban runoff and higher concentrations of pollutants. Also due to water conservation, there is less sewer flow into the WRPs, leaving available capacity to treat polluted runoff as well.

The project drivers and goals include diverting polluted urban runoff from storm drains for treatment, compliance with the Regional Water Quality Control Board (RWQCB) requirements and

state/federal Total Maximum Daily Loads, and supplementing the reduced influent flow to the WRPs due to conservation.

**Defining Low Flow Diversions and Design Considerations:** Low flow diversion (LFD) structures divert urban runoff from storm drains during dry weather, screen trash, and pump water to Hyperion WRP. In the City of Los Angeles, there are 12 existing and 42 proposed LFD systems, and 5 systems have complete design for installation in 2022.

**Construction Phases and Project Status:** LFD construction requires approximately a 12-month schedule. Construction challenges include traffic control, shoring, restrictions for storm drain work and TMDL compliance, existing utilities and flow diversion.

**Conclusion:** More than 1 MG of urban runoff can be reclaimed each day with these five LFD sites. LFD projects will increase water supply and provide tangible community benefits; generate low-cost, local, drought-proof water supply via non-potable and potable reuse; maximize existing unused wastewater treatment potential; and improve water quality of receiving waters and oceans. LFD projects are adaptable for other urban environments with separate storm and sewer systems.

### **3. Technical Topic: Las Virgenes-Triunfo Pure Water Project: Demonstration Facility Lessons Learned** (*Oliver Slosser/LVMWD*)

**Program Overview:** A new 7.5-MGD Advanced Water Purification Facility (AWPF), new brine line to convey reverse osmosis concentrate to Calleguas Municipal Water District's Salinity Management Pipeline, new project water line to convey water to LVR, new source water line connecting the existing RW distribution system to the AWPF, total of 13-15 new miles of pipeline, and possible improvements to existing RW distribution system and Tapia Water Reclamation Facility (WRF) to provide flow equalization.

**Demonstration Project:** Demonstration Facility designed for research as well as public tours and outreach. Completed in October 2020, the facilities process up to 25 GPM. The facility will inform the preliminary design for the full-scale project

**Lessons Learned:** The demonstration facilities are successful in community engagement, operator training, engineering optimization, and industry research. The demonstration has allowed for preoptimization of full-scale operational criteria which is likely to result in capital savings. Ongoing water quality sampling continues to demonstrate the high quality of produced water. The demonstration is at the forefront of research applying semi-autonomous operation for operator decision support.

**Disinfection By-Product (DBP) and Pipe Run Testing:** DBP testing was initiated to improve influent water quality to the AWPF, provide an ability to make changes at the Tapia WRF and assess changes at the demonstration facility, and provide an ability to optimize treatment process at the Tapia WRP and assess the associated capital and operational savings. Pipe run testing for the brine line provides the ability to operate the AWPF and brine line continuously and to test different concentrate qualities and the likelihood to form scale.

**Operator Training:** CA AWTO accreditation requires experience. Operators firsthand experience a full range of activities beyond that examined in accreditation, including membrane cleaning and repair, troubleshooting, instrument calibration and maintenance, compliance sampling, and system optimization. Training now means competent full-scale operation.

**Next Steps:** Further technical studies and testing; sample point for regulatory compliance; artificial intelligence; public outreach and community education.

#### 4. **Water Recycling Legislative/Regulatory Updates** (*Raymond Jay/MWD*)

##### Drought

- There has been worsening drought conditions over the last 3 months. State Water Project allocation decreased to 5% for 2022. Governor's EO N-7-22 prohibits irrigating non-functional turf and requires water suppliers to implement Level 2 response actions in Water Conservation Plans.
- The majority of California is in emergency drought, with exception of some southern CA counties. The state enacted 15% voluntary conservation. Metropolitan adopted a Water Supply Alert which alerts member agencies to start implementing their Drought Contingency Plans. Metropolitan's Water Supply Conditions Report is available online.

##### California Legislation

- CA Legislative Calendar: April 29 and May 6 are the last days to report fiscal bills.
- Water Legislation of Interest: WaterReuse California now has a web site that tracks legislation
- AB 1001 (C. Garcia): Environment: mitigation measures for air and water quality impacts: environmental justice.
- AB 1845 (Calderon): Metropolitan sponsored bill. WRCA supports this bill. Alternative project delivery methods
- AB 2387 (Garcia, E): Safe Drinking Water, Wildlife Prevention, Drought Preparation, Flood Protection, Extreme Heat Mitigation, and Workforce Development Bond Act of 2022. WRCA is watching this bill.
- AB 2787 (Quirk): Microplastics in products; WRCA supports this bill
- AB 2811 (Bennett): CA Building Standards Commission; recycled water and nonpotable water systems. WRCA opposes this bill unless amended.
- SB 230 (Portantino): SWRCB: Constituents of Emerging Concern Program. WRCA = support
- SB 991 (Newman): Public contracts: progressive design-build: local agencies; WRCA = support
- SB 1124 (Archuleta): Public health goal: primary drinking water standard: Manganese
- SB 1144 (Wiener): Water efficiency and quality assessment reports: state buildings and public-school buildings; WRCA = seek amendments
- SB 1157 (Hertzberg): Urban water use objectives; indoor residential water use; WRCA = oppose unless amended
- SB 1199 (Laird): Safe Drinking Water State Revolving Fund: financial assistance (Disadvantaged communities)
- SB 1219 (Hurtado): Water: 21<sup>st</sup> century water laws and agencies: committee
- SB 1221 (Hurtado): Wastewater operator certification program

### California Budget and RW Funding

- Proposed budget for FY22-23 is \$286 billion with \$1.63 billion for drought and water resilience. Updates are expected in May with the final budget by June 15, 2022.
- \$400M for RW and groundwater recovery
- \$100M for PFAS support

### Water Use Efficiency Implementation

- Water Conservation and Drought Planning: AB 1668, SB 606, SB 1157
- Establish water use efficiency objectives & reporting
- SB 1157 decrease indoor water use from 55 GPCD to 47 GPCD by 2025 and 42 GPCD by 2030
- Potable reuse credit of 10-15% for new or existing facilities
- Follow MWEL0 for outdoor uses
- No penalties before Nov 2007

### Regulatory Update

- Cross Connection Control Handbook Title 17 – no update
- WUE Implementation – recycled water variances and potable use credit workshop scheduled; potential variances for recycled water with >1000 mg/l TDS (which will not be applicable for many agencies in the Los Angeles area); proposed adoption in Spring 2022
- RW Volumetric reports are due at the end of April

### Federal Update

- Infrastructure Investment and Jobs Act (IIJA)
  - Bipartisan infrastructure package and reconciliation package update. There is \$1Billion set aside for western recycled water, for both Title 16 and large-scale grant program.
  - \$48 Billion for nationwide programs
  - Reauthorizes Alternative Water Source Grants.
  - Establishes federal interagency water reuse group.
- FY22 appropriations completed March 15, 2022 for Reclamation and EPA programs

## **5. Regulatory Agency Update**

### **a. State Water Board Division of Drinking Water Programs** (*Scott Miller*)

- Update on City of Santa Monica's project with public meeting coming up in April

### **b. Los Angeles Regional Water Quality Control Board** (*Steven Webb*)

- Municipal permitting questions? Please reach out to Steven Webb

- New position at RWQCB (Sr Water Resources Specialist) is open, and application is due today.

**c. LA County Department of Public Health**

- No updates.

**6. California State Section Update** (*Rafael Villegas*)

- Last WaterReuse CA Board of Trustees Meeting on February 4, 2022. Next Trustee Meeting scheduled for May 13, 2022.
- 37<sup>th</sup> WaterReuse Symposium 2022 Recap
  - Over 45 technical sessions across 6 tracks
  - 6 plenary sessions
  - LA chapter representation = 8 presentations
- Recycled Water Funding Request – sent to California Governor and others, requesting \$750M for water recycling. Also requested language revision to decouple current and future budget for groundwater cleanup and inclusion of “large Project” funding category.
- WRCA Communications Collaborative Group: Next meeting is April 21, 2022. Topic will be Best Practices for Advanced Water Treatment Exhibits and Tips for Use Canva
- WaterReuse Webcasts
  - Alternate Approaches to Replace Ozone and BAC in CA DPR Projects (Recording)
  - Direct Potable Reuse in the Four Corners (5/18/22; 11am-12pm PT)
  - WaterReuse.org > Engage > Webcases
- Save the Date for 2022 WaterReuse California Annual Conference in San Francisco, September 11-13, 2022
- Save the Date for 2023 38<sup>th</sup> Annual WaterReuse Symposium in Atlanta GA

**7. Chapter Updates** (*Judi Miller*)

The December 2021 Meeting Summary was approved.

- Open Volunteer Opportunities: Communications Lead/Newsletter
- Emerging Professionals Committee Update (*Alex Waite*)
  - Member survey is out right now. Please respond!
  - Please contact Alex with any ideas for tour opportunities.
- Membership Committee Update (*Everett Ferguson*)
  - Working on goals and objectives
- Technical Topics Committee (*Alex Franchi*)
  - Please contact Alex with any ideas for topics and speakers

**8. Membership Roundtable** (*Jared Lee*)

- No update

**9. Next Meetings**

- June 14, 2022 – Hybrid meeting: Host and Sponsor: TBD
- August 9, 2022 – Host: West Basin MWD; Sponsor TBD

10. **Adjournment** ..... 1:00 p.m.

**Los Angeles Chapter Officers for 2020/2022**

Fred Gerringer, President 626-319-1107  
 Jared Lee, Vice President 626-379-8443  
 Judi Miller, Secretary/Treasurer 213-228-8236  
 Rafael Villegas, Chapter Trustee 213-367-1014  
 Raymond Jay, Past-President 213-217-5777

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[rjay@mwdh2o.com](mailto:rjay@mwdh2o.com)

**Meeting Attendees**

FIRST NAME	LAST NAME	ORGANIZATION
Shahnawaz	Ahmad	SA Associates
Ginachi	Amah	LA Regional Water Quality Control Board
Jenny	Anderson	Santa Clarita Valley Water Agency
Flor	Burrola	LASAN
Ryan	Bye	Santa Clarita Valley Water Agency
Camille	Castillo	West Basin MWD
Susan	Chang	LASAN
Seto	Cherchian	Brown and Caldwell
Denise	Chow	LASAN
Tracy	Dinh	LADWP
Everett	Ferguson	WRD
Hannah	Ford	El Toro Water District
Frank	Fuchs	West Basin MWD
Fred	Gerringer	Hazen and Sawyer
Preeti	Ghuman	LACSD
Jocelyn	Giron	Long Beach Water
Jesus	Gonzalez	LADWP
Karina	Gonzalez	LASAN
Andrew	Han	LADWP
Cory	Heggtveit	Tetra Tech
Vora	Hem	Carollo

FIRST NAME	LAST NAME	ORGANIZATION
Nichole	Horton	City of Pomona
Bryan	Hutchins	Atkins
Jennifer	Jacobus	Rincon
Raymond	Jay	Metropolitan Water District of Southern California
Olga	Krel	LASAN
Jared	Lee	Burbank Water and Power
John	Lockett	LADWP
Scott	Lynch	Jurupa Community Services District
Ehsan	Mazinani	Atkins
Judi	Miller	Jacobs
Scott	Miller	SWRCB DDW
Christopher	Mote	Stantec
Sarah	Mouakkad	LADWP
Aide	Ortiz	SWRCB DDW
Brianna	Plancarte	LADWP
Melissa	Ramirez	Long Beach Water
Abraham	Razon	LASAN
Robert	Reid	West Yost Associates
Julie Ann	Robinson	Glendale Water and Power
Alex	Rojas	Central Basin MWD
Michael	Salas	Long Beach Water
Janet	Samala	LASAN
Jeremiah	Shea	West Basin MWD
Oliver	Slosser	Las Virgenes Municipal Water District
Dean	Takashima	Santa Clarita Valley Water Agency
Diana	Tang	Long Beach Water
Du	Tran	LADWP
Tai	Tseng	Long Beach Water
Rafael	Villegas	LADWP
Alex	Waite	City of Santa Monica
Dean	Wang	Long Beach Water
Steven	Webb	LA Regional Water Quality Control Board



FIRST NAME	LAST NAME	ORGANIZATION
Chao	Wong	Metropolitan Water District of Southern California
Bob	Yamaguchi	Walnut Valley Water District
Azita	Yazdani	Exergy
Graciela	Zapata	Glendale Water and Power
Alex	Zaragoza	Rowland Water District
Aimee	Zhao	WRD

**TOTAL: 59**