

Location: Virtual
Address: Zoom Call
Purpose: Bi-Monthly Meeting
Date and Time: April 13, 2021 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 2021 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: Glendale Recycled Water Update 2021** (*Richard Rule and Graciela Zapata/Glendale Water & Power*)

Graciela Zapata is a Civil Engineering Associate and Richard Rule is a Water Services Administrator at the Glendale Water and Power (GWP). The City of Glendale was incorporated in 1906 and is the fourth largest city in Los Angeles County, containing approximately 200,000 residents and approximately 33,000 water services. The City of Glendale first used recycled water in 1978, and currently over 7% of demand is local recycled water. The Glendale Water and Power serves 73% of its water sales to residential customers and its recycled water uses are generally irrigation, dual plumbing, dust control and industrial purposes.

Glendale's sources of water supply include 58% from the Metropolitan Water District (MWD), 31% from a local San Fernando Basin, 4% from the Verdugo Basin and 7% recycled water from the Los Angeles-Glendale Water Reclamation Plant (LAGWRP). A 1211 Wastewater Change Petition order was issued from the Division of Water Rights of the State Water Resources Control Board for expansion and use of recycled water in Pasadena as well as Glendale. As the co-owner of the LAGWRP, GWP is entitled to 50% of the recycled water produced, varying from 6,000 to 8,000 acre-feet per year (AFY). GWP's lessons learned from recycled water expansion include receiving firm commitments from customers to be served by the expansion, such as from schools. The length of the project, staff turnover at GWP and customers, led to miscommunication of the commitment, and therefore, funding, for onsite retrofit was not properly budgeted by the customers, resulting in delays for the final connections.

GWP's current potable rates include \$2.61 per hectare-feet (HCF) for Tier 1 and \$3.99 per HCF for Tier 3. The recycled water volumetric rate has been adjusted to \$2.64 per HCF from \$2.70 for commercial use and \$2.81 for irrigation. The depreciation expense for the recycled system was the main driver for the rate reduction.

Since 1978, GWP has provided for sustainable water resources. The use of recycled water helps serve 6,000 homes each year and reduces the water needed to be purchased and imported from the Colorado River or Bay Delta.

2. Technical Topic: Orange County Water District's Groundwater Replenishment System Expansion to 130 MGD (*Sandy Scott Roberts/OCWD*)

Sandy Scott Roberts is the Groundwater Replenishment System Program Manager for the Orange County Water District (OCWD). OCWD was formed in 1933 by California Legislature to manage the OC Groundwater Basin and to protect the rights to Santa Ana River water. OCWD provides groundwater to 19 municipal and special water districts including 2.5 million customers in north and central OC. The OC Groundwater Basin provides 77% of the water supply for north and central OC. OCWD's service area and complete groundwater replenishment system includes an advanced water treatment facility connected to a 13-mile long pipeline connected to recharge basins, and includes a seawater intrusion barrier to protect groundwater quality.

The current Groundwater Replenishment System (GWRS) Facility produces 100 MGD of purified water which accepts secondary treated water from the OC Sanitation Plant No. 1. The final expansion of the GWRS will expand production to 130 MGD of purified water requiring influent, and thus, additional conveyance, from the OC Sanitation Plant No. 2.

Plant No. 2 is a trickling filter solids contactor secondary effluent, with different water quality than Plant No. 1, and some adjustments have been needed to accommodate this new water. Non-reclaimable flows (brine streams, solids handling effluents and certain chemical streams) are being segregated out of the headworks and diverted from the advanced treatment facilities. The new influent water quality will affect the design of the GWRS Final Expansion (GWRSFE) facility where 170 MGD of influent is required to produce 130 MGD consisting of 120 MGD influent from Plant 1 and 50 MGD influent from Plant 2. The water quality effects from Plant 2 include higher ammonia which is predicted to increase microfiltration (MF) and reverse osmosis (RO) fouling, higher total dissolved solids (TDS) which will increase RO feed pressure, and increased alkalinity which will increase the use of sulfuric acid.

The current RO system is a 100-MGD three-stage process with a recovery rate of 85%. The GWRSFE Project will need interstage boosters to maintain the 85% recover rate. OCWD Research and Development (R&D) Department conducted pilot studies on RO concentrate recovery systems including closed circuit RO and forward osmosis RO. In the future, they will be testing a flow reversal RO system. The goal of the ROC Recovery pilot is to determine realistic recover and cost for the large-scale system.

The GWRSFE Project is currently undergoing construction. The design was completed in February 2019. The construction contract of \$199.9 million was awarded to Shimmick Construction in November 2019 and the project is planned for completion in February 2023.

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

California Legislation

The COVID-19 pandemic has compressed the legislative calendar and limited the legislations from which they have had to prioritize certain measures. Due to the economic outlook, future bonds and funding have been reduced or removed estimated at a \$54B deficit. Legislation has also largely been focused on economic recovery, wildfires and homelessness.

April 30th is the last day policy committee to report fiscal bills. May 7th is the last day for fiscal committee. to report fiscal bills, June 4th is the last day for bills to pass in the house of origin and June 15th is the last day to pass the budget.

Recycled water volumetric reporting data is due April 30th every year as required by the updated Recycled Water Policy where approximately 820 wastewater and recycled water facilities are required to report influent, effluent, RW use, treatment and discharge type.

Climate Resiliency Bonds

- SB 45 (Portantino): CECs: Wildfire Prevention, Safe Drinking Water, Drought Preparation and Flood Protection Bond Act of 2022 including a \$5.5 billion bond, and \$100 million for water recycling where WRCA requested \$1.5 billion for recycled water projects.
- AB 1500 (Garcia): Safe Drinking Water, Wildfire, Drought, Flood Protection, and Workforce Development Bond Act of 2022 including a \$6.7 billion bond and \$300 million towards water recycling.

California Water Resilience Portfolio

- AB 836 (Gabriel): CBSC: recycled water: nonpotable water systems where dual plumbing is required for newly constructed nonresidential buildings by 2023 and requires SWRCB to establish a large onsite nonpotable water system by 2024 for local jurisdictions without a local onsite program and a fee schedule.
- AB 1434 (Friedman): Urban water use objectives: indoor residential water use where indoor water use requirements are lowered from the current 55 gpd by 2040.
- AB 1668 (Friedman, 2018) and SB 606 (Hertzberg, 2018): Water Conservation and Drought Planning: Establish water use efficiency objectives and reporting including initial indoor water use of 55 gallons per person per day decreases to 50 GPPD by 2030 and potable reuse credit of 10-15% for new or existing facilities
- SB 222 (Dodd): Water Affordability Assistance Program
- SB 223 (Dodd): Discontinuation of residential water service
- SB230 (Portantino): SWRCB: Constituents of Emerging Concern Program
- AB377 (Rivas): Water quality: impaired waters
- AB1195 (Garcia): Southern Los Angeles County Human Right to Water Collaboration Act

Federal update

Priorities established by the National Legislative and Regulatory Policy Committee include Water Reuse Infrastructure Financing, WaterSense, Permitting of Potable Reuse and Investment Tax Credit for Industrial Reuse. Policy principles include recognizing the role of onsite decentralized water recycling systems and emerging role of stormwater capture as well as addressing the presence of PFAS contaminants that exist at concentrations that create a risk to the public welfare and the environment.

FY 2020 Appropriations enacted:

- | | |
|---------------------|--------------------------|
| • CWSRF = \$1.638B | Aquifer Storage = \$10M |
| • DWSRF = \$1.126B | Innovative Water = \$1M |
| • Title XVI = \$63M | Stormwater Reuse = \$25M |
| • WINN = \$20M | Research Program = \$6M |
| • WIFIA = \$60M | Desalination = \$20M |

FY Appropriations enacted where the FY 2021 initial Appropriations request were significantly reduced. Continuing Resolution expires December 11th.

National Water Reuse Action Plan – EPA and stakeholders working on multiple implementation tasks and workshop set for April 29, 2021.

American Recovery Plan Act

STREAM Act (similar to S. 1932 from 2020) \$250 million for recycled water

S.914 – Drinking Water and Wastewater Infrastructure Act of 2021

4. Regulatory Agency Update

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

- State Water Board Proposed Framework for Regulating Direct Potable Reuse – Public workshop to be held on April 22nd

b. LA County Department of Public Health (*Glenn Van Eekhout*)

- DPH is reviewing the Cross Connection Control Policy Handbook comments are due April 27th to the Water Boards.
 - a. Swivel L change-over assembly for dual plumbed buildings is included after not being allowed for many years
- Governor removing COVID tiered system on June 16th.

c. State Water Board Division of Drinking Water Programs (*Saeed Hafeznezami*)

- Addendum to the Framework for Regulating DPR posted in March and includes early draft criteria for DPR; the closing date for the written comment period is Friday, June 25th.
- DDW staff will present overview of early draft of the criteria at the April 22 workshop
- Public and interested parties to present any oral comments they have
- Electronic mailing list on recycled water, so be sure to sign up

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

- Last WaterReuse CA Board of Trustees Meeting on February 5, 2021
 - DPR Regulations, Review of SB45, AB1500, Biden's Infrastructure bill
- 36th Annual WaterReuse Symposium
 - Streaming now through April 23, 2021
- Draft DPR Criteria Panel Discussion
 - April 14th 11 am-1 pm PST
 - Draft DPR regulations released on March 22nd
 - Register directly on WaterReuse California (WRCA) website
- 36th Annual WaterReuse Symposium – Member Spotlight

- 12 presentations by LA Chapter members
- 36th Annual WaterReuse Awards
 - Members received the Excellence in Action Award for SoFi Stadium at Hollywood Park
 - Members received the Transformative Innovation Award for the Hyperion Membrane Bioreactor Pilot Facility Project – LASAN, LADWP and West Basin MWD
- 2021 WaterReuse CA Conference is coming to Los Angeles!
 - September 12-15, 2021

6. Chapter Updates (*Judi Miller*)

The February 2021 Member Meeting Summary was approved. Announcements from the member committee included:

- *Volunteer Opportunities*
 - *Technical Committee Chair – Kristina Zabalsa*
 - *Meeting Summary Preparation*
- Young Member Committee Update (*Alex Waite*)
 - *Everyone is welcome to our monthly happy hour sessions!*
 - *Third Thursday of the month at 5:00 pm*
 - *April 22nd is next Happy Hour*
 - *Need a volunteer host!*

Membership is at the national level of the WaterReuse Association. While most of our LA Chapter participants are members via their employer, participation in the Chapter is not contingent on WaterReuse membership. However, certain activities (such as voting and holding leadership positions) are restricted to members only.

If you would like further information about your organization becoming a WaterReuse member, please contact Erin DiMenna, Director of Membership at edimenna@watereuse.org or 571.445.5505.

7. Membership Roundtable (*Jared Lee*)

The Membership Roundtable is an opportunity for agencies to share their accomplishments and challenges with, or seek input from, the LA Chapter WR members.

- The LA Chapter is looking for a host for our August meeting, that might possibly be held in-person, pending LA County regulations, as well as for our October meeting.

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COVID working conditions updates:

- City of Burbank had second round of vaccines hosted by the City made available to City employees, school districts and Water and Power. Back to work two days a week is anticipated.
- LADWP employees one day a week and managerial levels are in 2 days a week.
- MWD is waiting for July 1st for in-person working conditions.



- GWP back at 50% capacity and working from home every Friday.
- Jacobs is working 100% remotely globally and will be until further direction by the Executive Leadership Team.
- Hazen working fully remotely where some are working from the office at-will.

8. Next Meetings

- June 8, 2021 – Virtual Meeting
- August 10, 2021 – Virtual Meeting?

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

Los Angeles Chapter Officers for 2019/2021

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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Meeting Attendees

FIRST NAME	LAST NAME
Jessica	Arm
Erik	Avila
Elisha	Back
Erika	Bensch
Matt	Bequette
Suzanne	Brown
Flor	Burrola
Rita	Chang
Susan	Chang
Denise	Chow
Uzi	Daniel
Grace	David
Michael	De Ghetto
Everett	Ferguson
Frank	Fuchs
Curtis	Gauthier
Fred	Gerringer
Jesus	Gonzalez
Andrew	Han
Saeed	Hafeznezami
Cory	Heggtveit
Bob	Huizenga
Jennifer	Jacobs
Raymond	Jay
Darrell	Johnson
Kristin	Kale
Madeline	Kelsch
Jared	Lee
John	Lockett
Scott	Lynch
Danielle	Maurizio

FIRST NAME	LAST NAME
Judi	Miller
Monica	Morales
Sarah	Mouakkad
Brianna	Plancarte
Richard	Ruyle
Farzaneh	Shabani
Monica	Sanchez
Sandy	Scott-Roberts
Kevin	Stewart
Dawn	Taffler
Dian	Tanuwidjaja
Glen	Van Eekhout
Rafael	Villegas
Alex	Waite
Sunny	Wang
Steven	Webb
Charles	Wyatt
Bob	Yamaguchi
Graciela	Zapata
Rick	Zimmer

TOTAL: 51