

Location: Los Angeles County Department of Public Health
Address: 5050 Commerce Dr., Room 170
Baldwin Park, CA 91706
Purpose: Bi-Monthly Meeting
Date and Time: August 14, 2018 from 11:30 a.m. – 1:30 p.m.
Distribution: Los Angeles WaterReuse Association Chapter Members

Lunch: Sponsored by Hazen and Sawyer

Below is a summary of the August 2018, 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. **Welcome and Introductions**
2. **Venue host presentation: LA County Permitting of Onsite Treatment for Nonpotable Reuse**
(*Glenn van Eekhout and Robert Bueras*)

The overall goal of the permitting program is to protect domestic water and enforce the plumbing code. In 2011, LA County spearheaded the effort to develop guidelines for harvesting rainwater, stormwater, and urban runoff for outdoor nonpotable uses. LA County Guidelines for Alternate Water Sources was developed in 2016 and helps to address Senate Bill 966 for onsite treated nonpotable water systems.

The County's Cross Connection and Water Pollution Control Program consists of the chief, office support staff, 9 inspectors, 6 plan checkers, and 3 field inspectors. In 2017, there were 382 plans submitted and thus far in 2018, there have been 443 plans submitted. A majority of the plans submitted are for rainwater and recycled water.

The application fee for the plan review process has been increased. After submittal of the plans, application, and fee, the County has 21 days to review and respond. Next, a preconstruction meeting is scheduled with the contractor along with inspections of the different phases as pipes are starting to be covered. A final cross connection shutdown test will then be performed, and an annual permit will be issued. It is important that the person who is submitting the plans is aware of the plan requirements.

3. **Sponsor Presentation: Using Dashboards to Optimize Plant Performance** (*Nathan Boyle/Hazen and Sawyer*)

With reuse and advanced treatment facilities, there are a number of criteria to monitor for plant operation and optimization. When something happens at a facility, it takes time to identify the issue. By effectively using dashboards and moving toward a proactive approach, the issue can be identified beforehand and steps taken to prevent it from happening or buy some time to correct it. Proactive operation requires 5 key components: asset management, training, standard operating procedures, process optimization, and dashboards.

A dashboard is a small report used to summarize key information for decision making. Creating a dashboard for critical decision making requires the following steps:

1. Identify Key Performance Indicators
2. Develop Target Values
3. Identify Equipment and Instrument Tags
4. Data Storage, Handling, and Cleanup Methods
5. Create Dashboard Reports

Key performance indicators are important to define when developing dashboard reports. The reports can also incorporate average annual values or seasonal trends versus recent trends. Dashboards will not replace the operator but can help the operator's judgement in managing the treatment plant. Dashboards can come in different forms that can range from a simple Excel spreadsheet to those developed by programmers. The key elements are engineering information and identifying what needs to be monitored. Other information can be added to the dashboard that may be useful for operations meetings. Overall, dashboards have data on demand that can help to guide decisions and manage the overload of data coming from the treatment plants.

4. **Special Guests: CA Section Briefing** (*Rich Nagel/Section President, Jennifer West/Managing Director*)

A goal this year was for Jennifer and Rich to visit every California chapter of WaterReuse. The purpose for their visit is to enhance and maintain Chapter communications by providing information from the WaterReuse California Board of Directors since this Board is helping to shape water policy and major initiatives. A collaborative working group was formed for public information officers to share lessons learned. There was a need to integrate those who are dealing with the outreach efforts. This work group will start in fall and meet quarterly at MWD headquarters.

Another goal is to create five legislative champions to be the leaders on reuse, offer bills, and be able to combat bills. The Board is also helping to facilitate a documentary to celebrate the formation of WaterReuse with the national association and its founders.

With respect to non-potable tertiary-treated recycled water, there has been a struggle for many years to get updates in the plumbing code, Title 17 and Title 22. At the Board level, there are a variety of ways to address this issue and there will be further discussion at the next meeting.

The recycled water policy should be adopted by the State Board in December. There are two primary concerns: it adds a new goal to minimize direct discharge to the ocean, potentially complicating the wastewater change petition (Water Code Section 1211) process, and it includes two new bioassay tests with response actions. With respect to the two bioassay tests, there will be regulatory consequences when the policy is next updated. The expert panel recommends that all phases be conducted with guidance from an advisory group and that the tests be validated. The WaterReuse California Board is committed to making sure tests are standardized and conducted correctly.

The Department of Water Resources (DWR) is updating the Model Water Efficient Landscape Ordinance (MWELO). The WaterReuse California Board position is to preserve the existing standard. With the passing of conservation legislation, there is a requirement that DWR conduct studies to recommend an outdoor water use standard.

Advanced Water Treatment (AWT) operator certification is strongly supported by the WaterReuse California Board. A website was launched with more information on the certification:
www.awtoperator.org.

5. **Technical Topic: Environmental NGO Perspectives on Recycled Water** (*Bruce Reznik/LA Waterkeeper and Cathy Seward/TreePeople*)

The LA Waterkeeper used to be known as the Santa Monica Baykeeper, one of many keepers around the world. There are international and statewide alliances, as well as 350 local groups with the approach to reduce, reuse, recycle, and restore. Part of being a waterkeeper is the ability to litigate. Without this type of litigation, Pure Water San Diego may not have happened. Currently, LA Waterkeeper is suing most of the wastewater agencies for discharging water into the ocean.

The LA Waterkeeper considers conservation to be the most important strategy, followed by recycling when conservation has been exhausted. There is support for direct and indirect potable reuse but nonpotable reuse may incentivize water wasting such as using nonpotable water and energy to water lawns that are inappropriate for this climate.

TreePeople uses recycled water for their forestry work which, in turn, helps to educate volunteers. As native plants are planted, it helps to restore the natural ecosystem. There are other projects to convert urban blocks to capture stormwater and are currently working on a project for residential retrofits to show stormwater capture on the residential level. Conservation efforts have also extended to the Angeles National Forest and Santa Monica Mountains.

TreePeople helps to increase environmental support which can contribute to support for water policy. The organization partners with other NGOs, cities, and schools. Community engagement is key to environmental education. There are about 3 to 10 events per week consisting of gatherings of 25 to 100 people, touching about 250,000 students.

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

California Legislation

August 31st is the last day to pass bills and September 30th is the last day for the Governor to sign and veto bills.

SB 966: sponsored by San Francisco Public Utilities Commission (SFPUC) to adopt risk-based regulations to encourage use within buildings of graywater, rainwater, stormwater, or blackwater; prohibits installation except under adopted local program, systems approved by local agency prior to State Board adoption of regulations have up to two years to comply with statewide regulations.

AB 2072: maintains that the State Board establishes/maintains research on CECs and broadens how they identify these compounds such as occurrence in water, sediments, organisms, etc. Held under submission.

SB 1422: requires State Board to adopt 3 years of testing for microplastics, before which would need methodology for testing. Has been amended and re-referred to appropriations.

AB 2062: landscaping on state highways should require use of non-water intensive landscaping and drought plants. Pushes for recycled water to be used on highways. Bill is enrolled.

Recycled Water Quick Links are provided on the State Board's website (link below); can monitor the status of the recycled water survey; caution: website is a little outdated.

https://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/recycledwater_research.shtml

Federal Update

Both House and Senate have passed appropriations bills and are coming to a negotiation. The Clean Water State Revolving Fund will likely get \$1B along with the Drinking Water State Revolving Fund.

7. **Regulatory Agency Update:**

- a. SWRCB Division of Drinking Water Programs: no updates provided
- b. Los Angeles Regional Water Quality Control Board: One of the outcomes of the Recycled Water Policy will be for the Regional Board to transition to General Permits for recycled water; notifications will be sent out to agencies prior.

8. **California State Section Update** (*Monica Gasca*)

- WaterReuse National Conference – Sept 11-15 in Austin, Texas. Guaranteed to have good presentations and speakers.

9. **Focus Areas: Funding opportunities** (*Raymond Jay*) / (*John Robinson*)

- See 4-page handout, first page is MWD funding programs. The groundwater grant program has just closed along with coastal conservation. The DWR Proposition 1 stormwater Proposed Solicitation Package is coming out later this year.
- New influx of money for SRF programs. The Clean Water SRF is accepting clean water projects such as AMI and SCADA projects. The State Board is conducting a workshop on CWSRF funding in September 2018.

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

- a. Approval of June 2018 Member Meeting summary
 - The June 2018 Member Meeting Summary was approved with all in favor.

11. **Next Meetings**

- October 9, 2018 – Host: *Central Basin Municipal Water District*; Sponsor: *Kennedy/Jenks*
- December 4, 2018 – Host: *Las Virgenes Municipal Water District*; Sponsor: *Parsons*

12. **Adjournment** 1:30 p.m.

Los Angeles Chapter Officers for 2018

Raymond Jay, President	213-217-5777	rjay@mwdh2o.com
Fred Geringer, Vice President	626-463-0390	fredg@trusselltech.com
Judi Miller, Secretary/Treasurer	213-228-8236	judi.miller@ch2m.com
Monica Gasca, Chapter Trustee	562-908-4288 x3508	mgasca@lacsds.org
John Robinson, Past-President	626-375-9389	jrobinson@johnrobinsonconsulting.com

Meeting Attendees

MEMBER		ORGANIZATION
Walter	Alarcon	LADWP
Dan	Bacani	LA County Department of Public Health
Shadi	Bader	Castaic Lake Water Agency
Changmii	Bae	LA County Department of Parks and Recreation
Matthew	Bequette	LASAN
Domenick	Booker	LA County Department of Public Health
Carlos	Borja	LA County Department of Public Health
Nathan	Boyle	Hazen and Sawyer
Dan	Braun	TreePeople
Suzanne	Brown	LACSD
Robert	Bueras	LA County Department of Public Health
Flor	Burrola	LASAN
Gilbert	Chacon	Burbank Water and Power
Susan	Chang	LASAN
Denise	Chow	LASAN
Heather	Collins	Metropolitan Water District of Southern California
Uzi	Daniel	West Basin MWD
Matt	Elsner	Woodard & Curran
Oscar	Espinoza	SAFNA Engineering and Consulting
Gerry	Filteau	SPI
Eryn	Fleming	LASAN
Monica	Gasca	LACSD
Fred	Gerringer	Trussell Technologies
Clint	Granath	Forest Lawn Memorial Park
Gary	Hamm	The Solis Group
Ann	Heil	LACSD
Amanda	Heise	CH2M, now Jacobs
Nichole	Horton	City of Pomona
Humberto	Jaramillo	HDR
Raymond	Jay	Metropolitan Water District of Southern California
Dave	Jones	Hazen and Sawyer
Don	Jones	Central Basin Municipal Water District
Angel	Le	LA County Department of Public Health
Jared	Lee	Burbank Water and Power
Qiong	Lei	LASAN
Jeong-Hee	Lim	Los Angeles Regional Water Quality Control Board
Paul	Liu	LADWP
John	Lockett	LADWP
Quang	Ly	LA County Department of Public Health
Danielle	Maurizio	LACSD
Alex	Mena	LA County Department of Parks and Recreation
Judi	Miller	CH2M, now Jacobs
Ray	Mokhtari	Metropolitan Water District of Southern California
Tom	Monk	Walnut Valley Water District
John	Morris	
Jeff	Mosher	Carollo Engineers

Los Angeles Chapter of the WaterReuse Association

August 14, 2018 MEETING SUMMARY



MEMBER		ORGANIZATION
Rich	Nagel	CA Section WaterReuse
Stephen	Opot	LASAN
Otim	Ochan	LASAN
Adelina	Pirijanyan	Black & Veatch
Alex	Purry	City of Pomona
Wes	Rezk	Forest Lawn Memorial Park
Bruce	Reznik	LA Waterkeeper
John	Robinson	John Robinson Consulting
Bertha	Ruiz-Hoffmann	LA County Department of Parks and Recreation
Richard	Ruyle	Glendale Water & Power
Cathy	Seward	TreePeople
Terri	Slifko	Metropolitan Water District of Southern California
Eric	Smith	CDM Smith
Jim	Smith	LA County Department of Parks and Recreation
Bob	Sun	LADWP
Alton	Ta	LA County Waterworks
Shieva	Taat	LASAN
Belal	Tabannaj	LA County Waterworks
Dawn	Taffler	Kennedy/Jenks
Dian	Tanuwidjaja	Long Beach Water Department
Mark	Tettermer	Irvine Ranch Water District
Reymundo	Trejo	SAFNA Engineering and Consulting
Tony	Umphenor	Burbank Water and Power
Duong	Ung	LADWP
Shradha	Upadhayay	Metropolitan Water District of Southern California
Yvaine	Valenzuela	LASAN
Glenn	van Eekhout	LA County Department of Public Health
Roumiana	Voutchkova	City of Pasadena
Joe	Walters	Purple Pipe Consulting
Dean	Wang	Long Beach Water Department
Steven	Webb	Los Angeles Regional Water Quality Control Board
Jennifer	West	CA Section WaterReuse
Bob	Yamaguchi	Walnut Valley Water District
Jason	Yim	Santa Clarita Valley Water Agency

TOTAL: 80