



# WATERREUSE

## LOS ANGELES

## Chapter Newsletter

DECEMBER 2015

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### NEXT MEETING

Tuesday, February 9th  
11:30am-1:30pm

### LOCATION:

**Pasadena Water and Power**  
100 N. Garfield Ave.  
Pasadena, CA 91109

**Lunch sponsored by:**  
**RMC Water and Environment**



## Registration Open For 2016 Conference

The 2016 WaterReuse California Annual Conference is scheduled for March 13-15, 2016, at the Hyatt Vineyard Creek Hotel and Spa in Santa Rosa California.

An excellent line up speakers from the Governor's Office, the State Water Resources Control Board and many more is planned. There are daily flights from LAX to The Charles M. Schulz - Sonoma County Airport (STS) just 10 minutes from the hotel.

Early-Bird registration, with the best rates are open now through January 29, 2016. For more information and registration, please visit: <https://www.watereuse.org/news-events/conferences/2016-watereuse-california-annual-conference/registration/>.

## Consultant Spotlight

### Kennedy/Jenks Consultants: Pioneers in Water Recycling

*Committed to Recycled Water as a Valuable Renewable Resource*



#### Overview

Kennedy/Jenks Consultants has been a leader in implementing water recycling in California since wastewater was first recognized as a valuable renewable resource. They completed the first-ever water recycling facility at Golden Gate Park in San Francisco the 1930s and since then have successfully completed hundreds of recycled water related projects in seven western states. During the past five years, their talented engineers have participated in the planning and design of several non-potable and potable reuse projects; pilot tested a variety of emerging membrane treatment and disinfection technologies; and designed over 500,000 LF of pipelines and dozens of pump stations, treatment and storage facilities with a combined construction value of more than \$1B. Kennedy/Jenks Consultants provides the full breadth of multi-disciplinary science and engineering services, along with expertise in alternative project delivery and advanced research.



#### San Elijo Joint Powers Authority Advanced Water Treatment System

- Kennedy/Jenks designed an advanced treatment (MF/RO) process with flexibility for future expansion.
- Served as owner's representative and developed financing strategy to fund the project and provide a lease-lease back approach to address limitations with design-build authority.

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## President's Column

The list of 2015 WateReuse accomplishments is exceptional, and includes many items that have prevented expanded use of recycled water in the past. One of the most prevalent constraints for many municipalities is funding, and the passage of Proposition 1 has provided an unprecedented opportunity for municipalities to receive some of the \$625 million that is designated for recycled water.

WateReuse has also worked diligently with the state to reduce regulatory barriers including revising the general recycled water permit, drafting new surface water augmentation regulations, developing criteria for direct potable reuse, revising Title 17 and 22 outdated regulations, and developing potable reuse operator requirements. In addition, frequent news reports on the drought and climate change has increased public interest in water recycling and has provided a strong foundation of public education for us to build upon locally.

Los Angeles Chapter members also helped make the 2015 Annual Conference the largest in WateReuse history. These combined efforts have advanced the safe use of recycled water in Los Angeles and should increase replenishment of many of the depleted groundwater basins over the next several years.

Although significant hurdles remain for full beneficial use of recycled water in Los Angeles, I look forward to tackling some of those hurdles in 2016 with your help. There are many opportunities for Los Angeles Chapter members to get involved either with public education, or design and engineering of local projects including the use of residential fill stations.

WateReuse and California need your help to safely expand the use of recycled water in Los Angeles. I look forward to seeing you at our next meeting on February 9th at Pasadena Water and Power. Please let me or the other Chapter Officers know which topics you would like to volunteer for.

Cheers,

**Raymond Jay, President**

WateReuse California, Los Angeles Chapter



## Pioneers in Water Recycling

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### Alternative Project Delivery to Expedite Potable Reuse

Kennedy/Jenks Consultants serves as owner's representative for clients, working with them to select and tailor project delivery strategies to meet aggressive schedules and financial goals. They have successfully facilitated the procurement process, provided third-party design review and construction management services, and developed innovative financing strategies to implement advanced treatment and potable reuse projects in California.

### Advanced Research Group Expertise

Kennedy/Jenks Consultants recognizes that clients need assistance on a broad perspective of project work from the routine to those requiring cutting-edge or novel solutions. To help clients resolve technologically challenging problems, Kennedy/Jenks Consultants offers support from their Advanced Research Group (ARG). This group is composed of scientists and engineers who have led major research initiatives in the water and wastewater fields that have resulted in acceptance of new treatment technologies and processes. ARG can quickly access information from universities and other institutions doing research in specific subject areas and apply that knowledge or technique to solve client problems.



#### Padre Dam Municipal Water District East County Regional Potable Reuse Program

- Kennedy/Jenks has been serving Padre Dam since 2013 to plan, permit and implement its potable reuse vision.
- Served as the owner's representative for CMAR/DB project delivery for an AWT pilot plant.
- Leading funding efforts to secure a 1% loan and a \$15M grant for facilities construction for the first phase of their groundwater recharge reuse project.



#### Monterey Regional WPCA Groundwater Replenishment Program

- Identified project delivery strategies for 11 IPR project elements and developed an implementation schedule and cash flow.
- Recently selected to lead the design of the Pure Water Monterey – Groundwater Replenishment Project's Advanced Water Treatment Facility and Pump Station.



Jean Debroux, PhD, Kennedy/Jenks' chief technical officer, was recently asked by the NWRI to be a contributing author for the WateReuse Research Foundation Project (WRRF 15-01) Potable Reuse Research Compilation: Synthesis of Findings.

This timely document will summarize the state of potable reuse for the DPR Expert Panel; based on the 34 most recent research projects funded through the California DPR Research Initiative, along with other background literature.

### For More Information Contact

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Earle Hartling  
Water Recycling  
Coordinator for  
the Sanitation  
Districts of Los  
Angeles County,



answers your burning questions on all issues regarding recycled water. He has been involved with water reuse for now over 34 years, so ask your questions sooner than later, because he ain't getting any younger! Seriously, he really isn't!

## Ask the Guru

**Question:** We're trying to locate some infrastructure improvements that are critical for our recycled water distribution system. However, a small group is opposed to some of the facilities in their neighborhood. They are pretty vocal and the local politicians have taken notice. I thought everybody loved water recycling! How can I convince them to drop their opposition, and can you come and talk some sense into the involved parties?

— Up Against It

Dear Up,

One thing I can probably guarantee you, their problem ISN'T with the recycled water, per se. I've found that, in these kind of situations (regardless of the type of project), opponents are either against the dust and noise of construction (which are pretty short-term and mitigatable), or they're against the long-term visual or audible impacts (although these can also be effectively mitigated), or something related to the engineering design. Or, they might just be against it because of NIMBY. Whatever their issue is, it is most certainly local, especially if you're not hearing boo from the rest of your community.

I've got some good news and some bad news for you. The bad news is that you most likely will never, ever change the minds of your opponents. You can line up all of your high level public servants, outside technical experts, academics and political heavy-weights, with little or no chance of success. And while I appreciate your confidence in my powers of persuasion, not even a silver-tongued devil like the Guru would have much impact with this group. I've tried it before. They are simply against it, and no amount of logic, reasonableness, facts or figures are likely to change their minds.

But the good news is you don't necessarily have to change their minds to find success with your project. You just need to counteract the effect the opposition is having on the minds of your mayor and city council members. If the loud clamor of naysaying is all the decision makers are hearing, they'll be much more likely to be swayed in that direction. However, if you can cultivate grass-root supporters who are at the same social level as

the opponents (unlike the experts, academics or politicians whom, for some reason, regular folks don't seem to trust), their unified voice will also be heard at City Hall.

But what would motivate regular citizens to support your cause? For starters, pretty much every community in California is under State mandate to reduce their potable water consumption by some degree. For example, let's say your city has to meet a conservation goal of 25%. And let's also say your recycled water project will provide 8% of your city's water demand when it's complete (recycled water counts gallon for gallon against your conservation target). This means your citizens/voters will only have to meet a conservation goal of 17%, not 25%, reducing their required cutbacks by about a third!

Mandatory conservation can not only be difficult, but costly to the average person, such as the loss of their landscaping investment. This is the story you tell to every community group you can get in front of. Every Rotary Club, every Kiwanis Club, every PTA group, every homeowner's association, every church group, every Neighborhood Watch. Leaders from these kinds of grass-root organizations are influential in the community in ways experts could never be. If people outside the zone of opposition find out that a small group is blocking a project that will provide drought relief to the rest of the city, they will become your allies. You get them to buy into your project, and they will carry your message to City Hall in a way that will be heard, unlike anything you or I could say.





## OUR MEMBERS

AECOM  
Black and Veatch  
Burbank Water and Power  
California Department of Public Health  
California Department of Water Resources  
California Regional Water Quality Control Board  
California State Water Resources Control Board  
Calleguas Municipal Water District  
Cannon  
Carollo Engineers  
Castaic Lake Water Agency  
CDM Smith  
Central Basin Municipal Water District  
City of Cerritos  
CH2M Hill  
Dudek  
Environmental Now  
Eurofins Eaton Analytical  
Forest Lawn  
Glendale Water and Power  
Irvine Ranch Water District  
Kennedy/Jenks Consultants  
John Robinson Consulting, Inc.  
City of Lancaster  
Las Virgenes Municipal Water District  
LEE & RO, Inc.  
Long Beach Health Department  
Long Beach Water Department  
Los Angeles Bureau of Sanitation  
Los Angeles Department of Public Health  
Los Angeles Department of Public Works  
Los Angeles Department of Water and Power  
Los Angeles Regional Water Quality Control Board  
Metropolitan Water District of Southern California  
MNS Engineers  
MWH Americas, Inc.  
NALCO  
Newhall Land and Farming Company  
Pacifica Services, Inc.  
City of Palmdale - Public Works Program Management  
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Phoenix Civil Engineering, Inc.  
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Precise Landscape Water Conservation, Inc.  
Psomas  
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Red Wolf Studio  
RMC Water and Environment  
Rowland Water District  
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Sequia Technologies  
Separation Processes, Inc. (SPI)  
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Test America  
Tetra Tech, Inc.  
Three Valleys Municipal Water District  
United Water  
Upper San Gabriel Valley Municipal Water District  
Valencia Water Company  
City of Vernon  
Walnut Valley Water District  
Water Replenishment District of Southern California  
WaterReuse California  
West Basin Municipal Water District



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### **Monica Gasca, Trustee to WaterReuse**

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## GOT NEWS?

We're always looking for interesting stories and informational articles to keep our members up to speed on all that's happening in water reuse and reclamation. Email articles or ideas to Matthew Elsner ([melsner@ci.burbank.ca.us](mailto:melsner@ci.burbank.ca.us)) or Shelah Riggs ([sriggs@dudek.com](mailto:sriggs@dudek.com))

**WaterReuse Association:** [www.watereuse.org/sections/california/losangeles](http://www.watereuse.org/sections/california/losangeles)

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