

# Orange County WATER REUSE CALIFORNIA Chapter Newsletter

Spring/Summer 2014

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## NEXT MEETING

Thursday, June 19th  
11:30 - 1:30 P.M.

## LOCATION:

URS  
2020 East First Street, Suite 400  
Santa Ana, CA 92705

## MISSION STATEMENT:

To advance the beneficial and efficient uses of high-quality, locally produced, sustainable water sources for the betterment of society and the environment through advocacy, education, and outreach, research, and membership.

## El Toro Water District's Recycled Water Expansion Project

by Dennis Cafferty | El Toro Water District and Debbie Burris | DDB Engineering, Inc.



Construction of the El Toro Water District (District) Recycled Water Expansion Project is well underway! The Project is a comprehensive, multi-phase effort that will significantly increase the amount of recycled water produced for irrigation in the District service area. Nearly tripling the production of recycled water, the El Toro Water Recycling Plant is being expanded to increase deliveries from 500 acre-feet per year (AFY) up to 1,480 AFY. A new recycled water distribution system consisting of over 100,000 linear feet of pipeline will convey the recycled water

associated with pumping imported water to the region. Other benefits of the Project include reducing the volume of treated wastewater discharged to the ocean, making beneficial use of the water, and enhancing local water supply reliability.

The District, like most other water districts in south Orange County, relies on imported water from the Sacramento-San Joaquin Bay Delta and Colorado River to meet up to 95% of its customer demands. The Project comes at a time when much of California is experiencing drought conditions, and available water sources are limited. The additional 980 AFY of recycled water produced by the Project will directly offset potable water demands used for irrigation.

The El Toro Tertiary Treatment Plant will use new cloth media disk filters to polish secondary effluent. The tertiary effluent will be disinfected using chlorine. The recycled water will be pumped from a new storage reservoir to the distribution system. Divided into three systems, the East Side,

the West Side, and the North Side, the distribution system will involve pipelines ranging in diameter from 4" to 20". The Project will convert over 200 existing potable water dedicated irrigation meters to recycled water.

The total estimated cost of the Project is nearly \$36 million. Funding for the Project comes from several sources: (1) a \$4.6 million grant from the State Water Resources Control Board (2) a low-interest state revolving fund loan, (3) rebates from the Metropolitan Water District (MWD) Local Resources Program, and (4) District capital construction reserves.

Construction on the East Side System is now complete. The West Side System is nearly 90% complete. Construction on the North Side System has just commenced and is expected to be complete by August, 2014. The Tertiary Treatment Plant construction is underway and is expected to be complete in August.

For more information, check the District's website for the El Toro Recycled Water Expansion Project: [www.etwd.com](http://www.etwd.com). And, if the information videos on the website only "whet your appetite" for more details, call the Project Helpline at 949.837.0880 or send an email to [district@etwd.com](mailto:district@etwd.com) to find out the latest.



to customers in Laguna Woods and Laguna Hills. Disinfected tertiary effluent complying with all Title 22 requirements will be used to irrigate golf courses, school yards, athletic fields, parks, medians and common areas in residential neighborhoods. By offsetting potable water demands, the Project will decrease the demand for imported water and lower greenhouse gas emissions



## Regulatory & Legislative Corner

by Christine Compton | Irvine Ranch Water District

**2014 Water Bond** – Last year the Legislature began a process to reformulate the water bond after 2012 polling showed voters would not support an \$11.14 billion water bond. Currently there are a number of active bills related to the water bond. The two most active bills continue to be AB 1331, SB 848, AB 2686, and SB 1250. Any changes to the existing bond will require a two-thirds vote in both the Assembly and State Senate. The final bond will have to win the support of a majority of voters in a statewide election.

**AB 2282 (Gatto)** – AB 2282 would require the Department of Housing and Community Development to conduct research to assist in the development, proposal, and the adoption by the California Building Standards Commission, of mandatory building standards for the installation of future recycled water infrastructure for single-family and multifamily residential buildings.

**AB 2417 (Nazarian)** – AB 2417 is sponsored by WaterReuse, Association of California Water Agencies (ACWA), and California Municipal Utilities Association



(CMUA). It would exempt from the California Environmental Quality Act projects for the construction and installation of a recycled water pipeline, not exceeding 8 miles in length, within a public street, highway, or right-of-way.

**Transfer of the State's Drinking Water Program** – The Health and Human Services Agency and Cal/EPA released the long-awaited "Drinking Water Reorganization Transition Plan" outlining the Administration's proposal for moving the Drinking Water Program from the Department of Public Health to the State Water Resources Control Board (SWRCB). A copy of the "Drinking Water Reorganization Transition Plan" can be found at <http://www.waterboards.ca.gov/drinkingwater/index.shtml>. The Administration has proposed that the transfer of the Drinking Water Program be completed on July 1, 2014, and that the needed legislation be adopted as part of the Fiscal Year 2014-15 budget.

## Metropolitan's On-Site Retrofit Pilot Program

by Ray Mokhtari, PE | Metropolitan Water District

Metropolitan's 2010 Integrated Water Resources Plan (IRP) Update calls for the development of a diverse resource portfolio, including recycled water projects to help meet expected future demands and secure supply reliability in the region. In addition, the IRP Update sets water use efficiency goals that include a 20 percent reduction in urban per capita water use by 2020. Increased conservation efforts and expanded use of recycled water are two ways of achieving this goal.

Recycled water projects usually take several years to achieve capacity because each site must be retrofitted to accept recycled water. The cost associated with the on-site retrofit of potable water systems to recycled water is an impediment to recycled water use. To help with the site conversion costs, Metropolitan will launch an On-site Retrofit Pilot Program (Program) on July 1, 2014. The Program goal is to encourage property owners to convert from potable water to

recycled water use, which will increase use of recycled water and achieve IRP Update and 20x2020 goals. Increased recycled water use also will help respond to the Governor's recent declaration of a statewide drought and request to increase water savings throughout the state.



Program works on a first-come, first-served basis. Applications are available online at [mwdh2o.com](http://mwdh2o.com) or [bewaterwise.com](http://bewaterwise.com) beginning July 1, 2014. Applications will be accepted from July 1, 2014, to June 30, 2016 or until funding is exhausted, whichever is earlier.

For further information visit [bewaterwise.com](http://bewaterwise.com) or contact:

Ms. Kira Alonzo  
213.217.6489  
[kalonzo@mwdh2o.com](mailto:kalonzo@mwdh2o.com)

Mr. Ray Mokhtari  
213.217.6142  
[rmokhtari@mwdh2o.com](mailto:rmokhtari@mwdh2o.com)

**The Program is open to public and private property owners with access to recycled water within Metropolitan's six county service area.**

The Program is open to public or private property owners that have access to recycled water within Metropolitan's service area. To qualify, the site must be within Metropolitan's service area and use potable water. The

## JUST THE FACTS...

**Date:** March 16-18th, 2014

**Where:** Newport Beach Marriott

**Number of Attendees:** 423

**Tour Participants:** 50

**Workshop Participants:** 27

**Conference Co-Chairs:**

- Jason Dadakis
- Shivaji Deshmukh
- Mark Tettemer

**Total Abstracts Received:** 64

**Total Technical Presentations:**  
48

**Total Technical Posters:** 4

**Total Exhibits:** 19

**Total Sponsors:**

- Platinum (8)
- Gold (7)
- Silver (8)
- Bronze (8)
- Purple (11)

**Town Hall Plenary and Roundtable Sessions:**

- Elected Leader Forum
- Regulatory Roundtable

**Technical Tours:**

- Behind-the-Scenes Tour of California Adventure Park at the Disneyland Resort
- Orange County Water District Groundwater Replenishment System
- Irvine Ranch Water District Michelson Water Reclamation Plant

**Pre-Conference Workshops:**

- Membrane Treatment for Reuse
- Ozonation, Advanced Oxidation Processes, and Disinfection

## The Annual CA Conference Comes to Orange County!

by Debbie Burris | DDB Engineering, Inc.

### AWARD WINNERS

**Lifetime Achievement Award**

Dave Requa

**Recycled Water Agency of the Year**

- Small - Sonoma Valley County Sanitation District
- Medium - City of Santa Clara
- Large - Santa Clara Valley Water District

**Recycled Water Community Outreach and Public Education Program of the Year**

Pure Water San Diego

**Recycled Water Customers of the Year**

- Gibson Ranch
- Napa-Sonoma Salt Marsh Restoration Project
- Tuflex Carpet Mill

**Recycled Water Staff Person of the Year**

Daniel Rydberg, City of Oxnard

**Recycled Water Advocate of the Year**

Earle Hartling, Sanitation Districts of Los Angeles County

Dave Requa, Award Winner



Gibson Ranch, Award Winners



Santa Clara Valley Water District, Award Winner

### SPONSORS

#### Platinum

Cannon  
CDM Smith  
Irvine Ranch Water District  
Kennedy/Jenks Consultants  
Moulton Niguel Water District  
Orange County Water District  
RBF Consulting, A Company of Michael Back International  
RMC Water and Environment

#### Gold

AECOM  
ARCADIS  
Black & Veatch  
Brown and Caldwell  
Carollo Engineers, Inc.  
Eastern Municipal Water District  
Los Angeles Department of Water and Power

#### Silver

CH2M Hill  
Dudek  
El Dorado Irrigation District  
GHD, Inc.  
HDR Engineering, Inc.  
Kimley-Horn and Associates, Inc.  
Parsons  
Tetra Tech, Inc.

#### Bronze

Castaic Lake Water Agency  
El Toro Water District  
Hazen and Sawyer  
Inland Empire Utilities Agency  
Santa Clara Valley Water District  
Upper San Gabriel Valley Municipal Water District  
West Basin Municipal Water District  
Western Municipal Water District

#### Purple

Central Basin Municipal Water District  
Infrastructure Engineering Corporation  
Katz & Associates  
Larry Walker Associates  
Long Beach Water Department  
Olivehain Municipal Water District  
Orange County Sanitation District  
Psomas  
San Diego County Water Authority  
SPI  
Stantec



2014  
Conference Sponsors

### EXHIBITORS

Aqua-Aerobic Systems, Inc  
Babcock Laboratories, Inc  
Calgon Carbon Corp.  
Cannon  
CSM  
Degremont Technologies  
DN Tanks  
Incrementum  
Irvine Ranch Water District  
NOVA Water Technologies

Pacific Tank Solutions  
Process Solutions  
RBF Consulting, A Company of Michael Baker International  
RMC Water and Environment  
Spears Manufacturing Company  
The Covello Group  
Trojan Technologies  
Water Finance Authority  
Xylem



Exhibitor Hall

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## OUR MEMBERS

### PUBLIC AGENCIES

California Department of Public Health  
Irvine Ranch Water District  
Mesa Consolidated Water District  
Metropolitan Water District of Southern California  
Moulton Niguel Water District  
Orange County Sanitation District  
Orange County Water District  
San Diego Regional Water Quality Control Board  
South Coast Water District  
South Orange County Wastewater Authority  
El Toro Water District

### ASSOCIATES

Black & Veatch  
Carollo Engineering  
CH2M Hill  
DDB Engineering, Inc.  
Dudek  
GHD  
HDR  
Lee & Ro, Inc.  
Malcom Pernie  
MWH  
Nalco Company  
PACE  
Phoenix Civil Engineering, Inc.  
Psomas  
RBF Consulting

## Annual CA Conference Comes to Orange County! (cont...)

### ADDITIONAL CONFERENCE PICTURES

David Smith,  
WateReuse CA  
Managing Director



Benjamin Edwards, Hurley  
H2O Campaign  
Keynote Speaker



Paul Klein,  
WateReuse CA  
Board of Trustees



Melissa Meeker,  
New WateReuse  
Executive Director



Opening Session



Michael Markus,  
New President  
WateReuse CA



Earle Hartling, Award Winner



Dawn Taffler,  
Awards  
Committee Chair



Jason Dadakis,  
Shivaji Deshmukh, &  
Mark Tettemer,  
Conference Co-Chairs



Awards  
Luncheon

## CHAPTER OFFICERS

### President

Mark Tettemer  
IRVINE RANCH WATER DISTRICT  
tettemer@irwd.com

### Vice President

Jason Dadakis  
ORANGE COUNTY WATER DISTRICT  
jdadakis@ocwd.com

### Secretary/Treasurer

Scott Lynch  
BLACK & VEATCH  
lynchst@bv.com

### Chapter Trustee

Scott Goldman  
EL TORO WATER DISTRICT  
sgoldman@rmcwater.com

DO ensure that no plumbing cross connections exist or are created between recycled water systems and all other water systems.

DON'T remove or alter water system and/or site identification materials.

**DOs  
DON'Ts**

## 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. If you would like to contribute an article or have other ideas about this newsletter, please email Debbie Burris (dburris@ddbe.com) or Lisa Knox (lknox@dudek.com)

**WateReuse Association** [www.watereuse.org/sections/california/orange-county](http://www.watereuse.org/sections/california/orange-county)

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