



WATER REUSE

ORANGE COUNTY

Chapter Newsletter

Fall/Winter 2015

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NEXT MEETING

Thursday,
February 18th
11:30 - 1:30 P.M.

LOCATION:

TetraTech
17885 Von Karman Ave.
Ste. 400
Irvine, CA 92614

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.

IRWD's Residential Recycled Water Fill Station

by Debbie Burris | DDB Engineering, Inc.

In August 2015, Irvine Ranch Water District (IRWD) opened the first recycled water filling station in Orange County. Recycled water is available free-of-charge to IRWD residents for outdoor irrigation and washing outdoor hardscape.

The fill station is located adjacent to IRWD's headquarters (see map). Residential customers must provide their own containers. Up to 300 gallons of recycled water may be taken per visit, and the number of visits per day is unrestricted. First-time visitors must complete an application form and show proof of their local residency with a California driver's license and IRWD water bill.

As of November 15, IRWD reports that approximately 190 residential customers have signed up for the program. Of those, almost 100 have received almost 40,000 gallons. Interest in the program has grown steadily. IRWD now averages six residents per day.

Residential recycled water fill stations have popped up throughout California:

- Central Contra Costa

- Sanitation District (Martinez)
- City of Brentwood
- City of Burbank's Department of Water and Power
- City of Livermore
- City of Oxnard
- City of Ventura
- Delta Diablo Sanitation District (Pittsburg/Antioch)
- Dublin San Ramon Services District (Pleasanton and Dublin)
- Ironhouse Sanitary District (Oakley)
- Irvine Ranch Water District (Irvine)
- Las Virgenes Municipal Water District (Calabasas)
- North Coast County Water District (Pacifica)
- North Marin Water District (Novato)
- Olivenhain Municipal Water District (San Diego)
- Padre Dam Municipal Water District (Santee)
- Palo Alto
- Redwood City
- Scotts Valley Water District (Scotts Valley)
- Sonoma Valley County Sanitation District (Sonoma)
- And the list keeps growing.....



Above: IRWD Fill Station Location Map

Below: Fill Station



Water Conservation Report Card for June - Oct 2015

by Debbie Burris | DDB Engineering, Inc.



We all know our “water conservation number”. That is, we know our local water use conservation/reduction standard set by the State Water Resources Control Board (SWRCB).

Now the question is: How are we doing so far?

Governor Jerry Brown issued Executive Order B-29-15 on April 1, 2015, that required the SWRCB to impose water restrictions to achieve a statewide 25% reduction in potable urban water use. In response, the SWRCB adopted an emergency regulation that became effective on May 15, 2015, and implemented mandatory water reductions. The regulation established nine tiers mandating water use reductions ranging from 4% to 36% and assigned each of California's 411 urban water suppliers a tier water reduction based on historical reductions in water use per region. The reduction is based on 2013 water use as the baseline. In other words, the SWRCB compares the water production during the compliance period with the corresponding water production during the same period in 2013. The compliance period for the statewide 25% reduction, and for the tiered conservation/reduction standards, began on June 1, 2015 and ends on February 29, 2016, unless the SWRCB adopts an extension.

On November 13, 2015, the Governor issued Executive Order B-36-15 giving the SWRCB the authority to extend and revise the emergency water conservation regulation if the drought conditions persist through January 2016. If the drought continues, the water conservation/reduction measures would be extended until the end of October 2016. The SWRCB held a public workshop on December 7, 2015, to receive input on the potential extension and modification of the existing emergency water conservation regulation.

Water suppliers are required to report their urban water use monthly to the SWRCB to assess their potable water production in comparison with their assigned conservation/reduction standard. The SWRCB tracks the water savings on a cumulative basis.

In Orange County, our water conservation/reduction standard targets range from 8% (Tier 2) to 36% (Tier 9). The table below presents the “June through October water conservation report card” for Orange County water agencies.

Orange County Water Supplier	Tier	Cumulative Water Savings (June-Oct 2015)	Final Conservation	Missed Target by %	Compliance Priority
Water Districts					
East Orange Co. Water District	9	38.8%	36%	-2.8%	0
El Toro Water District	6	26.2%	24%	-2.2%	0
Emerald Bay Service District	6	23.1%	24%	0.9%	0

Orange County Water Supplier	Tier	Cumulative Water Savings (June-Oct 2015)	Final Conservation	Missed Target by %	Compliance Priority
Golden State Water Company (West Orange)	4	25.2%	16%	-9.2%	0
Golden State Water Company (Cowan Heights)	9	37.2%	36%	-1.2%	0
Golden State Water Company (Palcentia)	6	29.8%	24%	-5.8%	0
Irvine Ranch Water District	4	18%	16%	-2.0%	0
Laguna Beach County Water District	6	23.1%	24%	0.9%	0
Mesa Water District	5	20.9%	20%	-0.9%	0
Moulton Niguel Water District	5	22.9%	20%	-2.9%	0
Santa Margarita Water District	6	27.9%	24%	-3.9%	0
Serrano Water District	9	41.9%	36%	-5.9%	0
South Coast Water District	6	30.4%	24%	-6.4%	0
Trabuco Canyon Water District	8	33.7%	28%	-5.7%	0
Yorba Linda Water District	9	40.5%	36%	-4.5%	0
City Water Departments					
City of Anaheim	5	24.8%	20%	-4.8%	0
City of Brea	6	22.4%	24%	1.6%	3
City of Buena Park	6	24.5%	24%	-4.5%	0
City of Fountain Valley	5	24.5%	20%	-4.5%	0
City of Fullerton	7	24.3%	28%	3.7%	0
City of Huntington Beach	5	25.1%	20%	-5.1%	0
City of La Habra	7	24.4%	20%	3.6%	3
City of La Palma	3	26.7%	20%	-6.7%	0
City of Orange	7	28.4%	28%	-0.4%	0
City of Newport Beach	7	20.8%	28%	7.2%	2
City of San Clemente	7	28.2%	24%	-4.2%	0
City of San Juan Capistrano	7	25.9%	28%	2.1%	3
City of Santa Ana	3	19.4%	12%	-7.4%	0
City of Seal Beach	2	21.7%	8%	-13.7%	0
City of Tustin	7	29.2%	28%	-1.2%	0
City of Westminster	5	19.9%	20%	0.1%	0

¹ Cumulative reduction/savings achieved from June through October 2015 in comparison with the same period in 2013 water use.

² Final standard as of 7/15/15

³ Compliance priority based on:

- 1 > 15% from meeting standard
- 2 > 5% and < 15% from meeting standard
- 3 > 1% and < 5% of meeting standard
- 4 < 1% of standard

OUR MEMBERS

PUBLIC AGENCIES

California Department of Public Health
El Toro Water District
Irvine Ranch Water District
Mesa Water District
Metropolitan Water District of Southern California
Moulton Niguel Water District
Orange County Water District
Santa Margarita Water District
South Coast Water District
South Orange County Wastewater Authority
State Water Resources Control Board - Division of Drinking Water

ASSOCIATES

AECOM
ARCADIS
Black & Veatch
Brown & Caldwell
Carollo Engineering
CDM Smith
CH2M
DDB Engineering, Inc.
Dudek
Eurofins Eaton Analytical Inc.
GHD
Hazen and Sawyer
HDR
John Robinson Consulting, Inc.
Michael Baker International
MWH
PACE
Pacific States Environmental
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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. 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)

WaterReuse Association www.watereuse.org/sections/california/orange-county

Newsletter design by **DUDEK**

Water Conservation Report Card Continued

On a statewide basis, Californians reduced their cumulative water use by 27.1% from June through October, exceeding Governor Brown's 25% mandate. The majority of California water suppliers achieved their assigned water conservation/reduction targets as shown below:

Compliance Priority		Number of Water Suppliers
1	Greater than 15% from meeting standard	7
2	More than 5% and less than 15% from meeting standard	58
3	Between 1% and 5% of meeting standard	60
4	Met or within 1% of standard	268

¹ 3 suppliers did not report data by the 11/15/15 deadline

Source: SWRCB June 2015 - October 2015 Cumulative Savings and Urban Water Supplier Conservation Compliance Dataset (11/18/15)
www.waterboards.ca.gov/water_issues/programs/conservation_portal/conservation_reporting.shtml

How did well your local water agency fare? Did you "make the grade" and earn a "gold star"? Or, were you encouraged to "try harder"? Either way, we're all doing a lot better than when the water targets were first put in place last June. But, we can always do a little more to make water conservation a part of our daily lives.

What can the SWRCB do if a water supply agency has not met its designated water conservation/reduction standard?

- Issue notices of violation and impose fines for suppliers more than 15% below their standard (Priority 1)
- Issue information orders for suppliers that are between 5% and 15% of meeting their standard (Priority 2)
- Send warning letters for suppliers that are between 1% and 5% of meeting their standard (Priority 3)

What can water suppliers do to encourage customers to conserve water?

- Public education
- Deliver notices of violation to customers and possible future penalties and fines for continued over use of water
- Hire extra staff to track water waste complaints and assist customers to save water
- Prohibit use of potable water to irrigate turf on public street medians
- Limit outdoor irrigation to no more than two days per week
- Prohibit gutter flooding, leaks, washing down hard surface areas, waste, and runoff water waste
- Impose drought surcharge water rates.

Water Reuse Conference

255 total attendees - the largest attendance on record

The most conference abstract submissions (172 abstract submissions)