#### SUBMITTAL TO THE BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA



FROM: Executive Office

April 22, 2016

SUBJECT: Departmental Quarterly Water Conservation Update. All Districts [\$0]

**RECOMMENDED MOTION:** That the Board of Supervisors receive and file the attached Departmental Quarterly Water Conservation Update.

#### **BACKGROUND:**

#### Summary

The attached Departmental Quarterly Water Conservation Update highlights the current and ongoing efforts that each applicable county department has undertaken in the past three months to conserve water where possible. El Niño predictions for increased precipitation in Southern California have not materialized as originally thought; however Norther California reservoirs have made substantial gains in storage (see attached Metropolitan Water District update) due to a persistent northerly storm track. Consequently, periods of exceptional warmth in the months of February and March tapered off the county's rising trend in water savings compared to the previous update. County departments continue their commitment to find ways to maximize water savings, educate stakeholders, and leverage grant opportunities where feasible in order to reduce the county's overall water consumption

Steven Horn

Principal Management Analyst

FINANCIAL DATA Current Fiscal Year:		Next Fiscal Year:		Total Cost:		Ongoing Cost:		POLICY/CONSENT (per Exec. Office)	
COST	\$ 0	\$	0	\$	0	\$	0	0	2 D-1: 🗆
NET COUNTY COST	\$ 0	\$	0	\$	0	\$	0	Consent ⊠ Policy □	
SOURCE OF FUNI	DS: N/A						Budget Adjustn	nent: N/A	\
							For Fiscal Year	: N/A	
C.E.O. RECOMME	NDATION:		APPROV		Hann				

**County Executive Office Signature** 

MINUTES OF THE BOARD OF SUPERVISORS

Alex Gann

carried by	On motion of Supervisor Ashley, seconded by Supervisor Washington and duly rried by unanimous vote, IT WAS ORDERED that the above matter is received and file recommended.				
Ayes: Nays:	Jeffries, Tavaglione, Washington, Benoit and Ashley None	Kecia Harper-Ihem			

Nays: None Absent: None Date: May 17, 2016

E.O.

Prev. Agn. Ref.: 2.1 of 1/12/2016 District: ALL Agenda Number:

Positions Added 

Change Order

4/5 Vote

## SUBMITTAL TO THE BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA FORM 11: Quarterly Water Conservation Update. All Districts [\$0]

**DATE: April 22, 2016** 

**PAGE:** 2 of 2

#### **Background Continued:**

On May 9, 2016 Governor Brown issued Executive Order B-37-16 (Order) which updates temporary water restrictions contained in previous Emergency Proclamations and Executive Orders, and begins to transition them to permanent, long term improvements. The highlights of this Order include directing the State Water Resources Control Board (SWRCB) to: adjust current emergency water conservation regulations, work with the Department of Water Resources (DWR), urban water supplies, local governments, and others to develop new water use targets as part of a permanent framework for urban water agencies. Furthermore, the Order notes that the SWRCB shall permanently prohibit:

- Hosing off of sidewalks, driveways, and other hardscapes;
- Washing automobiles with hoses note equipped with a shut-off nozzle;
- Using non-recirculating water in a fountain or other decorative water feature;
- Watering lawns in a manner that causes runoff, or within 48 hours of measurable precipitation; and
- Irrigating ornamental turn on public street medians

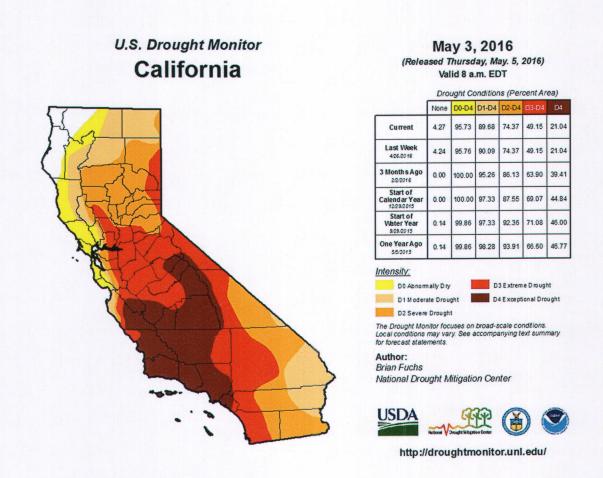
Additionally, the Order states that DWR will be tasked with strengthening requirements for urban Water Shortage Contingency Plans and subsequently work with affected stakeholders to implement such requirements. Further, DWR will work with the California Department of Food and Agriculture and other relevant stakeholders to update existing requirements for Agricultural Water Management Plans and require that such plans are prepared and adhered to by water suppliers with over 10,000 irrigated acres of land.

The full text of Governor's Executive Order B-37-16 may be accessed here: <a href="https://www.gov.ca.gov/docs/5.9.16">https://www.gov.ca.gov/docs/5.9.16</a> Executive Order.pdf

In light of this recent Order, it should be noted that county departments continue their adherence to current prohibitions (as bulleted above) from the previous Executive Orders concerning the elimination of water waste and increasing water use efficiency. The requirement for the SWRCB to make these measures permanent should have little to no effect on county departments.



As shown in the graphic below, the majority of California, including Riverside County, remains in a moderate to extreme drought condition. This condition has improved since the previous water conservation update in January of 2016; the positive change attributed to increased rainfall in Northern California. However, Southern California, including Riverside County, didn't receive similar increases in rainfall. Conversely, Southern California and Riverside County experienced significant dry and warming trends in February and March. As elaborated on the following pages, County departments continue their effort to reduce water consumption where possible; provide informational outreach to the regulated business community, and strengthening of partnerships with local water agencies. The County Executive Office, together with multiple county departments, continues to stay engaged with the Riverside County Water Task Force.





#### <u>Departmental Water Conservation Status Updates</u>

#### Economic Development Agency/Facilities Management (EDA/FM)

The EDA Energy Division continues its collaboration with Western Municipal Water District (WMWD) to provide recycled water for irrigation to the Department of Public Health facility located at 14539 Innovation Drive, in Riverside (RV0376). WMWD has conducted several successful tests on the proposed system and submitted those to the State Water Board for review and approval. Once approved by the State Water Board, WMWD will connect the new recycled water supply, where appropriate. WMWD's goal is to have recycled water to the site and the surrounding area within the next 6 months.

The Energy Division is also giving scrutiny to water bills and alleged drought fines. Where the water budget or drought fines are suspect, division staff is challenging the validity of the bill. In many cases, the water agencies do not have the correct building information or accurate landscaping square footage. Some water agencies are backlogged with similar requests for changes.

In partnership with the Maintenance Division, the Energy Division is participating in Metropolitan Water District's Public Agency Landscape Program. This program will fund the installation of high efficiency water devices at various county facilities. This program is unique in that it provides the County with initial funding to do the work. After all rebates have been received, work will begin. The following facilities have been identified as prime candidates for efficiency measures. Results of these efforts will be reported in the subsequent quarters.

	1		
Riverside Historical Court House	4050 Main St		
Presley Detention Center	4000 Orange St		
Fleet Services	4293 Orange St		
Public Defender	4200 Orange St		
Veterans Services	4342 Orange St		
Downtown Law Building	3960 Orange St		
Riverside County Innovation Center	3450 14th St		
Simons Building	3610 11th St		
Law Library	3535 10th St		
Criminal Justice Building	3575 11th St		
Transportation Land Management Agency	3525 14th St		
Riverside County Administrative Center	4080 Lemon St		
District Court	3470 12th St		
12th St Parking Structure	3535 12 St		



#### Department of Environmental Health (DEH)

The Department of Environmental Health continues to promote water conservation efforts with its on-going education and outreach both on our website and during routine inspections of food and pool facilities that we regulate. Our staff continues to provide informational bulletins related to water conservation, gray water usage, and to assist those impacted by the drought as it pertains to programs under our authority.

#### Flood Control and Water Conservation District (District)

The District continues to tune and refine countywide water conservation website to assist residents and businesses with links to Riverside County specific water conservation rebates, tools and other information. It may be accessed here: <a href="http://www.floodcontrol.co.riverside.ca.us/DroughtPortal/Default.aspx">http://www.floodcontrol.co.riverside.ca.us/DroughtPortal/Default.aspx</a>

The District continues to seek out partnership and grant opportunities for storm water capture projects. Our grant supported Bautista Recharge Basin expansion partnership with Lake Hemet Water District is also ongoing. The District is also collaborating with local water agencies on non-grant funded projects to increase the stability and safe yield of local water resources by repurposing existing and future District facilities. These partnerships include:

- Western Municipal Water District: Arlington Desalter Expansion.
- City of Riverside: Evaluation of Columbia, Marlborough, Box Springs and Kansas basins for recharge potential.
- <u>City of Corona</u>: Coldwater Canyon groundwater recharge enhancement study and Lincoln/Cota Basin Diversion Project
- > Eastern Municipal Water District: San Jacinto River Recharge Basins
- ➤ Lake Hemet Water District: Little Lake Basin Recharge Retrofit
- Elsinore Valley Municipal Water District: Elsinore Line A Basin Recharge Project

The District has also just completed infiltration and percolation testing of several other dams and detention basins to determine their recharge viability. This information will be shared with local water agencies in an effort to identify additional partnership opportunities. To date, the District estimates that, through these partnerships with local water agencies, approximately 25,000 acre feet of storm water have been recharged into area aquifers to the benefit of Riverside County residents.



#### Regional Parks and Open Space District (Parks)

Parks has completed or has several ongoing measures to enhance their water conservation programs and outreach throughout their areas of responsibility. These measures include:

- Turf Conversion: Completed conversion of turf to pagers and drought tolerant plants at The Cove Waterpark and received reimbursement from Jurupa Community Services District. Continued to abandon ornamental turf in non-active areas of parks. See photographs on the following page.
- ➤ <u>Turf Management</u>: continued reduced irrigation frequencies between 25% and 50% from the prior year. All irrigation systems have been turned off when rain was in the forecast.
- Indoor Measures: repaired plumbing leaks and broken sprinkler heads at all park and recreation facilities.
- Public Education: Continued outreach to customers regarding water conservation efforts at all facilities.
- Other outdoor conservation: Splash pads and water park facilities have been turned off for the winter. Additionally, Lake Skinner's splash pad will be reconstructed with newer equipment, which will increase the water use efficiency and reduce water runoff of this very popular attraction.

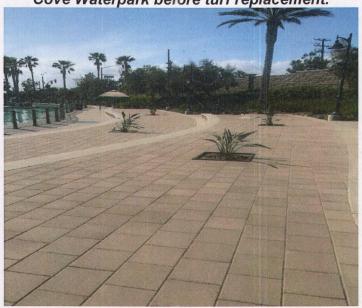




Park District Headquarters/Crestmore Manor - water conservation signage.



Cove Waterpark before turf replacement.



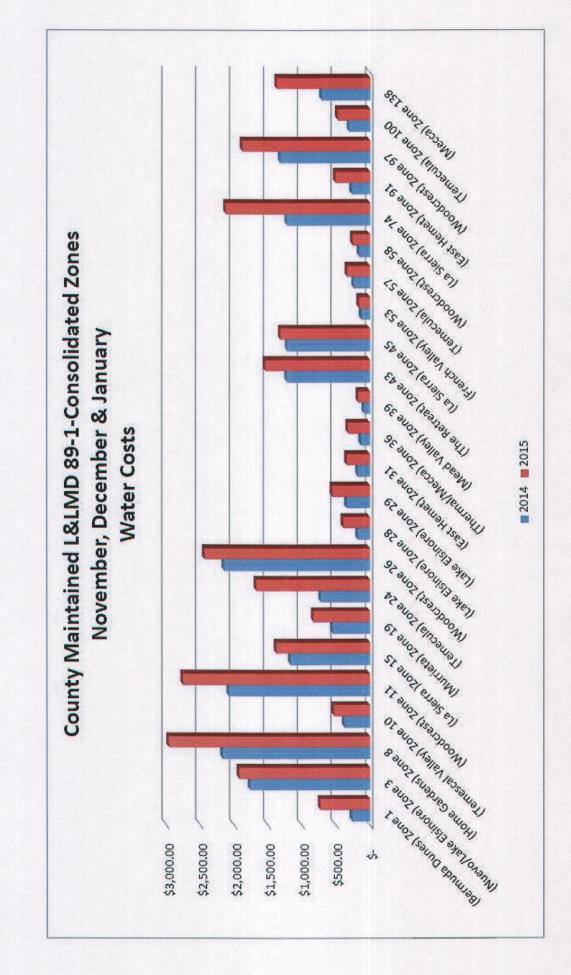
Cove Waterpark after turf replacement project.



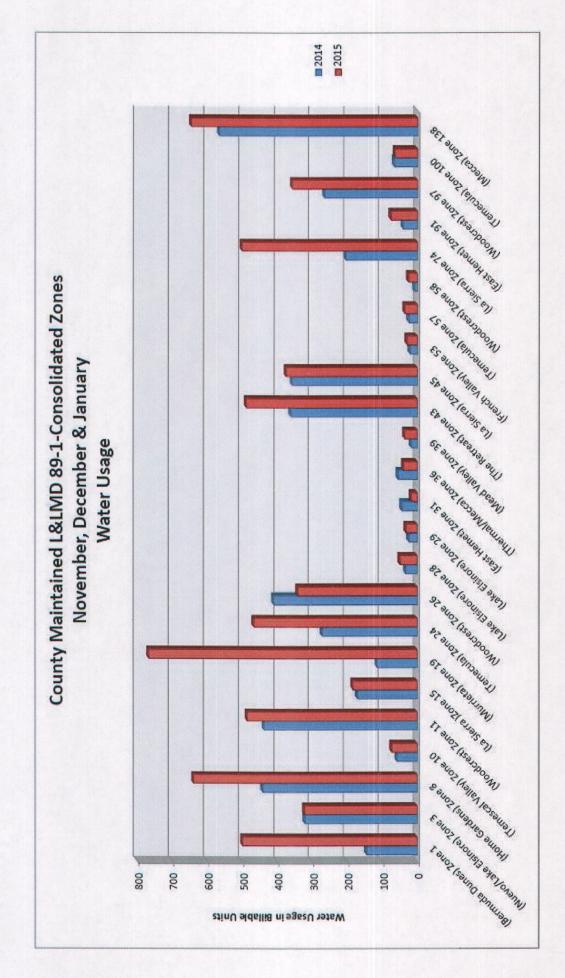
#### Transportation Department (Trans)

As the administrator for County Maintained Landscape and Lighting Maintenance District 89-1-Consolidated, Trans reports increased usage of water for landscaping during this period compared to the same period last year as shown in the graphs on the following pages. This is likely due to detrimental plant health and the periods of heat during February and March. Trans will continue to monitor the use within the consolidated zones and make adjustments as necessary in order to balance water use and plant health.











#### Water Use Reductions

The matrix below represents the current water use reductions, with corresponding fee increases or decreases for the departments that manage a majority of the water use at County facilities.

Dep.	Base Year Q3 FY 2014-2015 Usage CCF*	Current Year Q3 FY 2015-2016 Usage CCF	Usage Reduction (%)	Base Year Q3 FY 2014- 2015 Cost	Current Year Q3 FY 2015- 2016 Cost	Cost Reduction (%)
EDA/FM	171,085	178,658	-4%	\$ 504,238.00	\$ 539,259.00	-7%
Parks	45,939	24,869	46%	\$ 54,178.00	\$ 49,279.00	9%
TLMA	4,446	6,539	-47%	\$ 18,993.00	\$ 27,040.00	-42%
Total	221,470	210,066	-2%	\$ 577,409.00	\$ 615,578.00	-13%

\*1 CCF = 748 Gallons

Total Gallons Saved this Quarter:

8,530,192

Compared to last year (same period)

Total Cost *Increase* this Quarter:

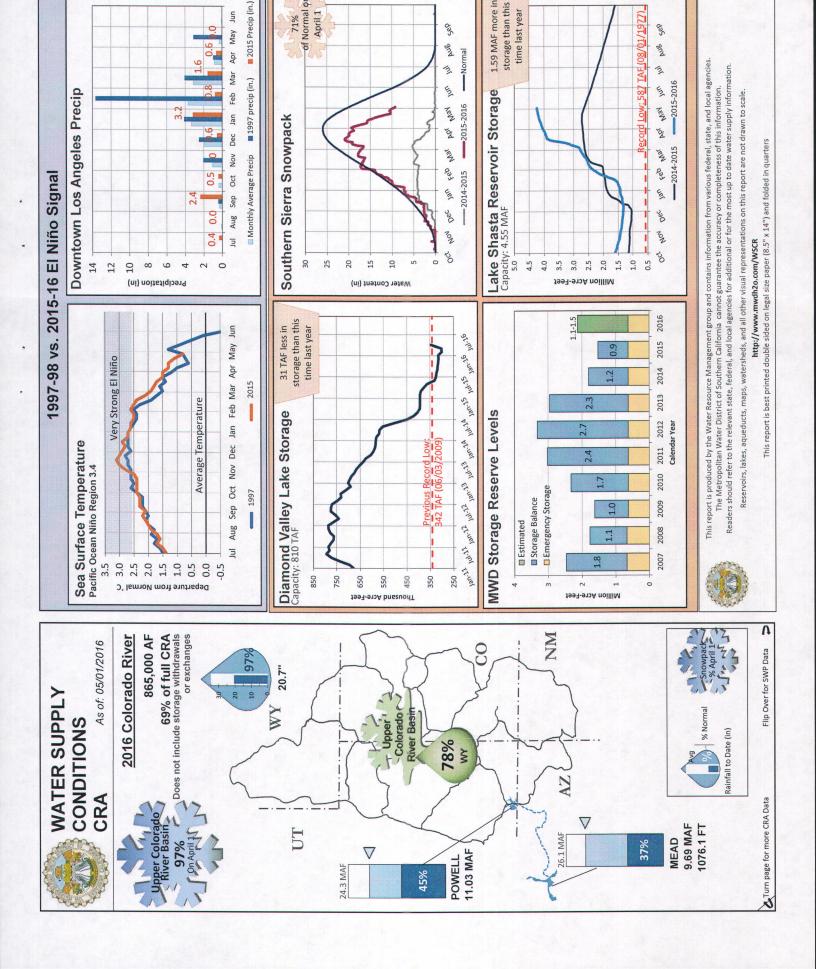
\$ 38,169.00

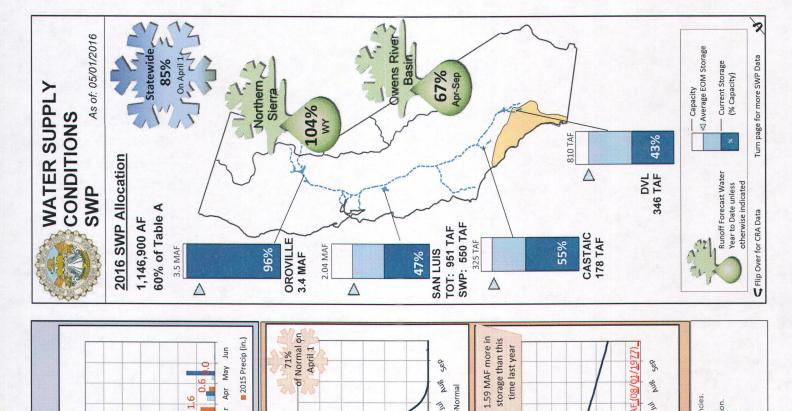
Compared to last year (same period)

As shown in the above table, the county departments collectively saved ~8.5M gallons of water during this period, even though some uses increased. The minor increases in water uses led to an increased cost of ~\$38,000 compared to the same period last year. EDA/FM and TLMA will continue optimizing and evaluating their systems to ensure that water reduction strategies are incorporated into daily operations to the maximum extent practical.

#### Ordinance 859.3 Update

On July 21, 2015, the Board unanimously approved adoption of Ordinance 859.3, an Urgency Ordinance of the County of Riverside amending ordinance 859.2 Water Efficient Landscape Requirements. This ordinance update took effect immediately, and among other provisions, prohibited the use of natural turf grass in front yards of new residential subdivisions. Staff is proposing to bring a clean-up revision addressing new and revised State requirements that took affect December 1, 2015 to the Board during the second quarter of 2016 and report on its implementation. The State requirements referenced are those in the revised California Code of Regulations Title 23, Division 2, Chapter 2.7. Model Water Efficient Landscape Ordinance (MWELO).





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