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### TCWD'S WATER SUPPLIES

From a water agency perspective, 2017 has started out really well. After a significant five-year statewide drought, the recent storm events have been a very welcome change. As local media sources report that snowpack levels in the Sierra Nevada mountain range are deeper and denser than past years due to the atmospheric river events, the outlook for the state's water supply has improved greatly. As much as water has been in the news during the drought, many of our customers ask "where does TCWD get its water?"

It all depends on the time of year and sometimes the weather. A high-level overview of how water moves through California is provided on the other side of the newsletter for informational purposes. At a local level, TCWD has a variety of water supply sources, which include imported wholesale untreated and treated water supplies and local groundwater. TCWD delivers drinking water through its pressurized water system which consists of approximately 56 miles of pipeline and 9 pressure zones.

It is important to note that many water agencies in South Orange County receive water from the Metropolitan Water District of Southern California (MET) Diemer Water Treatment Plant (Diemer), where a blend of imported water from Northern California and Colorado River water from Lake Mathews in Riverside County is treated. TCWD is relatively unique among the south county water agencies in that we treat our water at TCWD's own Dimension Water Treatment Plant in the City of Lake Forest. The majority of our water supply to the Dimension Water Treatment Plant is Colorado River water from Lake Mathews prior to its delivery.

Sometimes, when there is abundant snow pack melt from the Sierra Nevada, water is supplied from this northern source. Water is then taken from Lake Mathews and sent to the Diemer Water Treatment Plant in Orange County. The water treated at Diemer is delivered to the south county water agencies through the Allen McCullough

Pipeline (AMP). AMP water is conveyed to the District by the South County Pump Station through the South County Pipeline Delivery System. TCWD owns capacity in the AMP and uses this water when demand is high. The District attempts to avoid using this water when possible because the cost per acre foot is greater than the water produced at our own facility due to the higher treatment and pumping costs.

TCWD's groundwater sources include the Trabuco Creek Wells Facility. Groundwater from the Arroyo Trabuco aquifer, part of the San Juan Valley Groundwater Basin, is treated at this facility and then pumped into TCWD's distribution system. This groundwater is highly desirable not only in terms of water quality, but also allows TCWD to be less dependent on imported water supplies overall. Groundwater production at this facility varies depending on seasonal rainfall.

Recently, TCWD has partnered with four other south county water agencies to build and operate the Baker Water Treatment Plant (BWTP) and further diversify its water reliability and redundancy portfolio. This new state of the art facility provides TCWD with approximately 1.3 million gallons of water per day or 2 cubic feet per second. These values are important because they represent TCWD's typical total water demand during the cooler months of the year. Participation in the BWTP provides TCWD with a reliable and redundant water supply in the event of emergencies, as well as, a sufficient supply of water for our customers during periods when our own treatment facility requires repairs or service.

Through participation in the BWTP, TCWD has the capability to obtain water from the Santiago Reservoir, or what is better known as Irvine Lake, as a source of supply in the event of an emergency and loss of supply from Northern California or the Colorado River. Additionally, TCWD has strategic interties with neighboring water agencies which provide the ability to transfer and exchange water for short durations in the event of emergencies or service interruptions such as water main breaks or repairs.

For more information concerning TCWD's water supplies, please contact us at (949) 858-0277, or visit us at our Administrative Facility.

# OVERVIEW OF SOUTHERN CALIFORNIA'S PRIMARY WATER SUPPLIES



Source: South Coast Water District

## REGULAR BOARD MEETINGS HIGHLIGHTS

The following items are highlights or matters discussed at the September and October Regular Board Meetings:

- Receipt and file of TCWD's Fiscal Year 2015/2016 Financial Report (Audit)
- Election of Board Officers
- 2017 Board Member Committee Appointments & Agency Representative Assignments
- Approval of District Organizational Structure Changes, New Salary Plan, and Employee Monthly Pay Table

The Board of Directors Regular Meeting is scheduled for the third Wednesday of each month at 7:00 p.m. at the District's Administrative Facility located at 32003 Dove Canyon Drive, Trabuco Canyon. The public is encouraged to attend.



## BOARD OF DIRECTORS

Glenn Acosta President	Michael Safranski Vice President	
Don Chadd Director	Stephen Dopudja Director	Edward Mandich Director

**General Manager** Hector Ruiz