



# WATER SUPPLY CONDITIONS UPDATE

Pomona City Council October 4, 2021

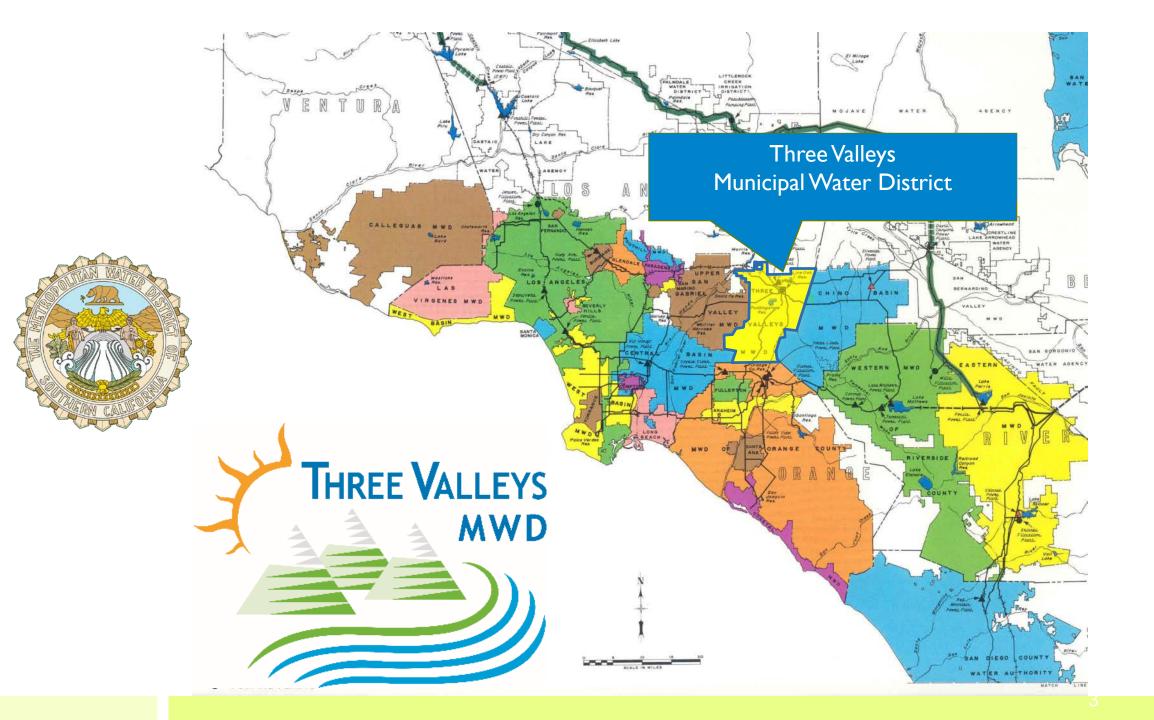




#### MISSION STATEMENT

The mission of Three Valleys Municipal Water District is to supplement and enhance local water supplies to meet our region's needs in a reliable and cost-effective manner.





#### MEMBER AGENCIES

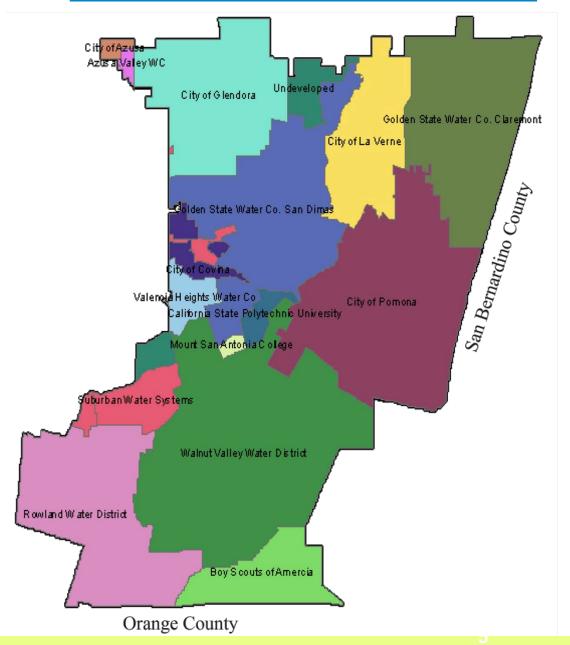
City of Glendora
City of La Verne
City of Pomona
Rowland Water District
Walnut Valley Water District
Golden State Water Co., Claremont / San Dimas
Suburban Water Systems
Valencia Heights Water Company
Boy Scouts of America - Firestone Reservation
California State Polytechnic University, Pomona
Mt. San Antonio College

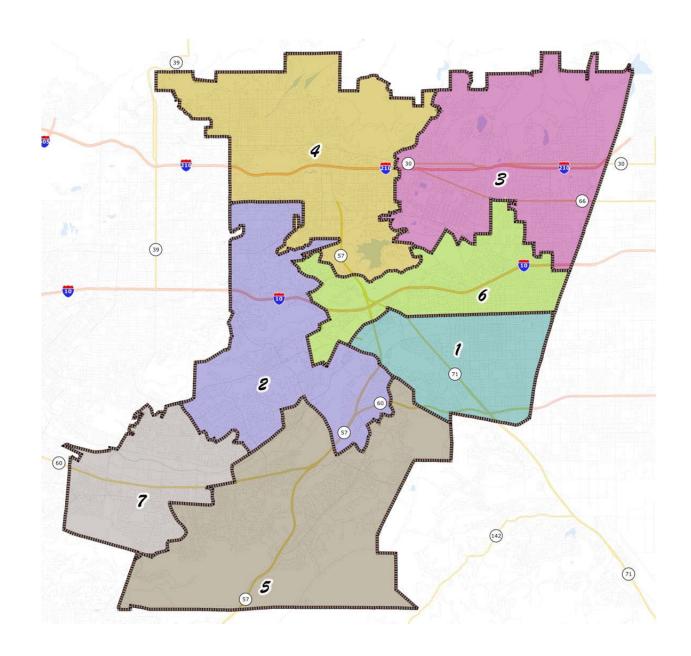
#### **MISSION**

To supplement and enhance local water supplies to meet our region's needs in a reliable and cost-effective manner

- •133 square mile region
- Pomona, Walnut, EastSGV region
- •525,000 population
- •7-member Elected Board

#### **TVMWD MEMBER AGENCIES**





#### **ELECTED DIVISIONS**

- Division I Carlos Goytia
- Division 2 David De Jesus
- Division 3 Brian Bowcock
- Division 4 Bob Kuhn
- Division 5 Jody Roberto
- Division 6 Danielle Soto
- Division 7 Mike Ti



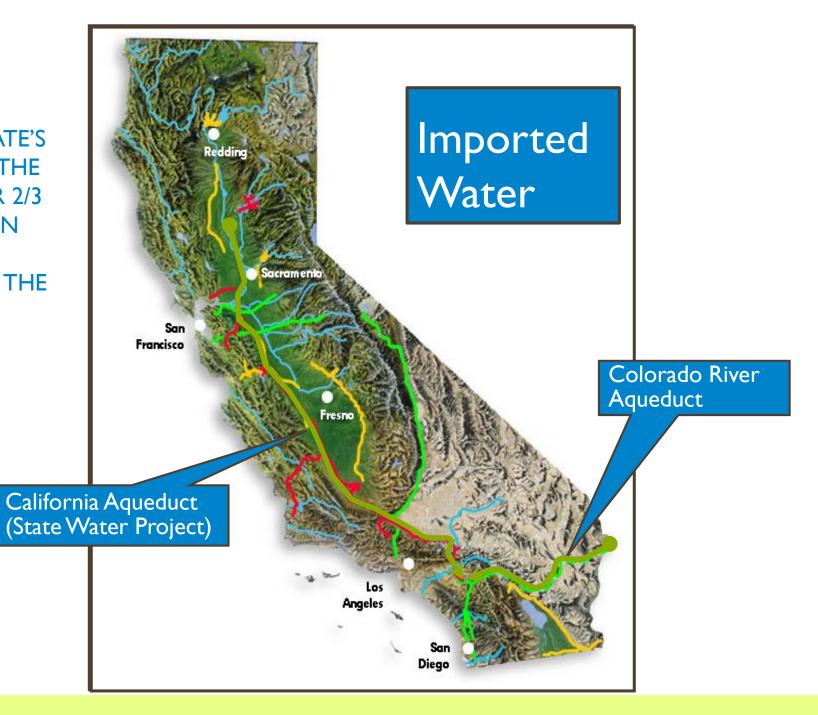
# TVMWD WATER SUPPLY



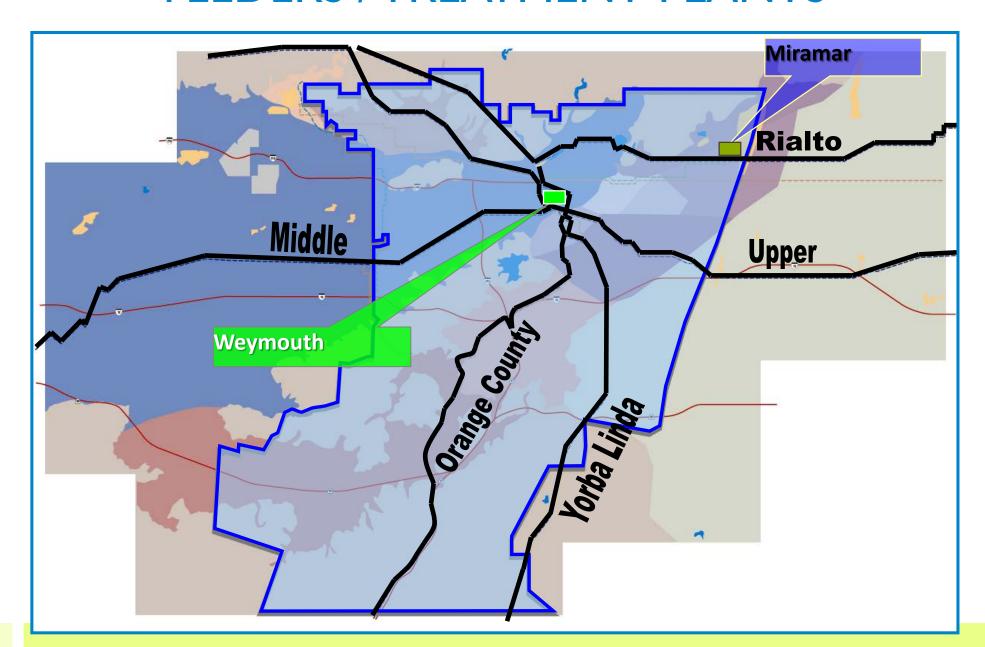




OVER 2/3 OF THE STATE'S WATER SUPPLY IS IN THE NORTH, WHILE OVER 2/3 OF THE DEMAND IS IN THE CENTRAL AND SOUTHERN PART OF THE STATE.

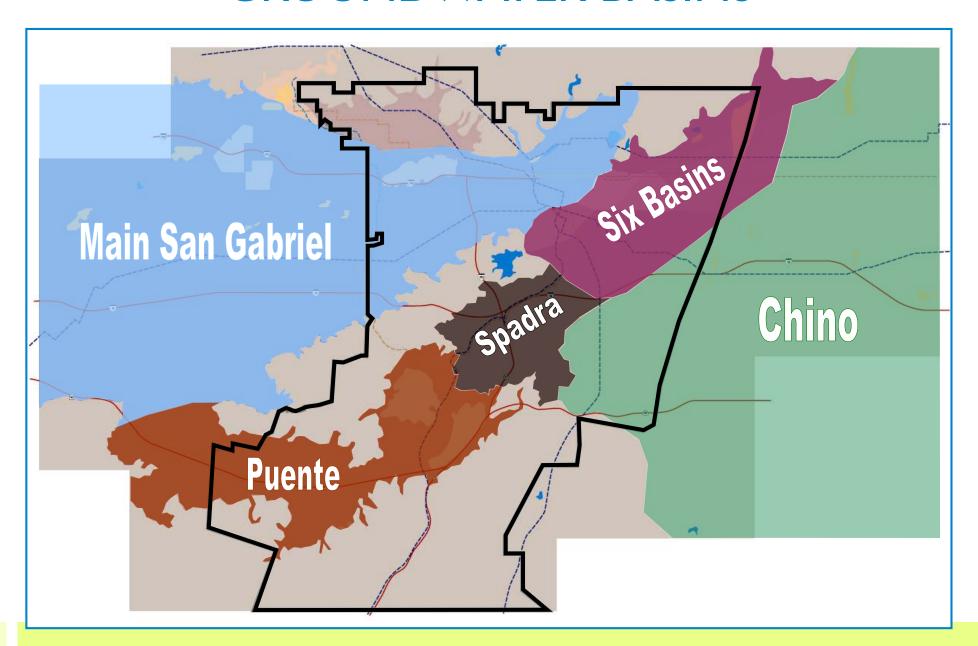


#### FEEDERS / TREATMENT PLANTS

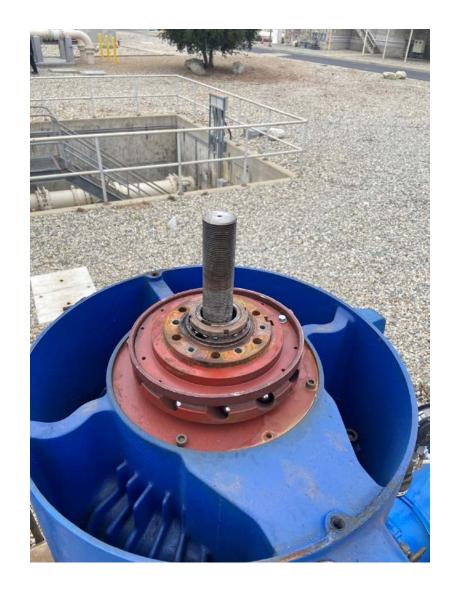




### **GROUNDWATER BASINS**



## WELL NO. I



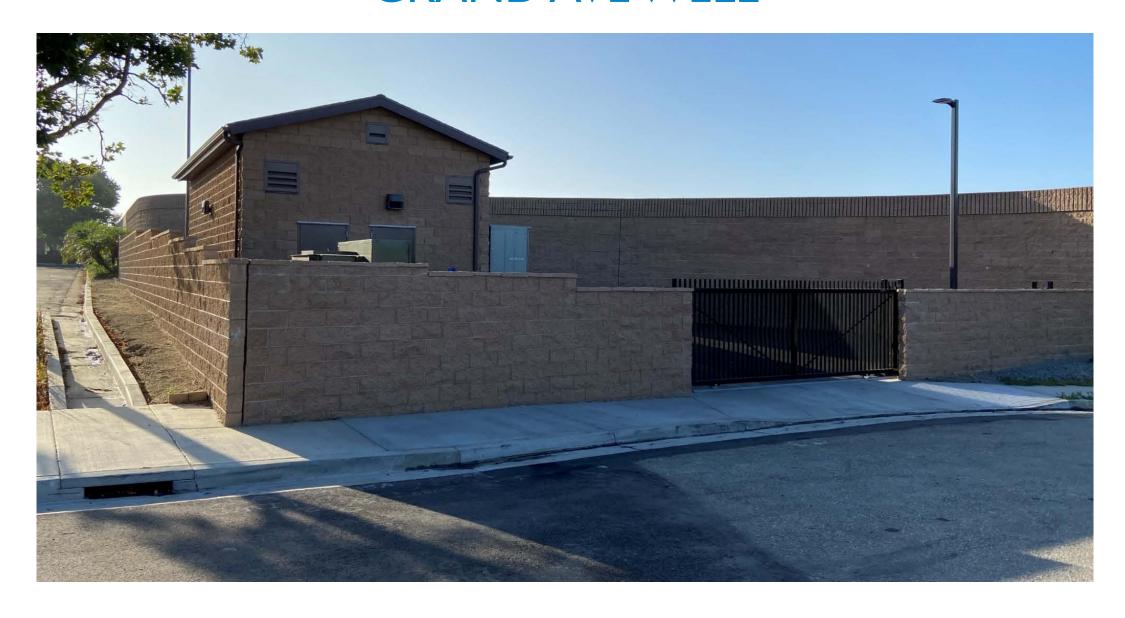


## WELL NO. 2





### **GRAND AVE WELL**







# 2021 SUPPLY/DEMAND BALANCE AND ACTIONS



# BLEAK OUTLOOK FOR IMPORTED WATER SUPPLY CONDITIONS



Oroville

- Anticipating a zero percent initial 2022 SWP Allocation
  - Oroville storage may end the year at record low levels
  - Roughly even chance of 20 percent SWP allocation in 2022

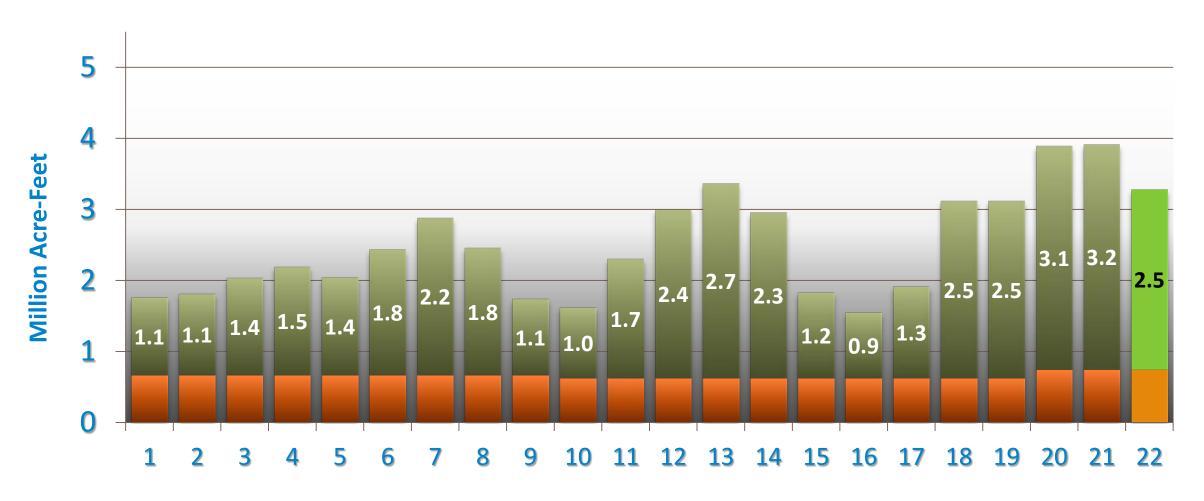


Lake Mead

- Shortage declared for Lower Colorado River Basin
  - Latest 24-month study showing continued decline in reservoir levels

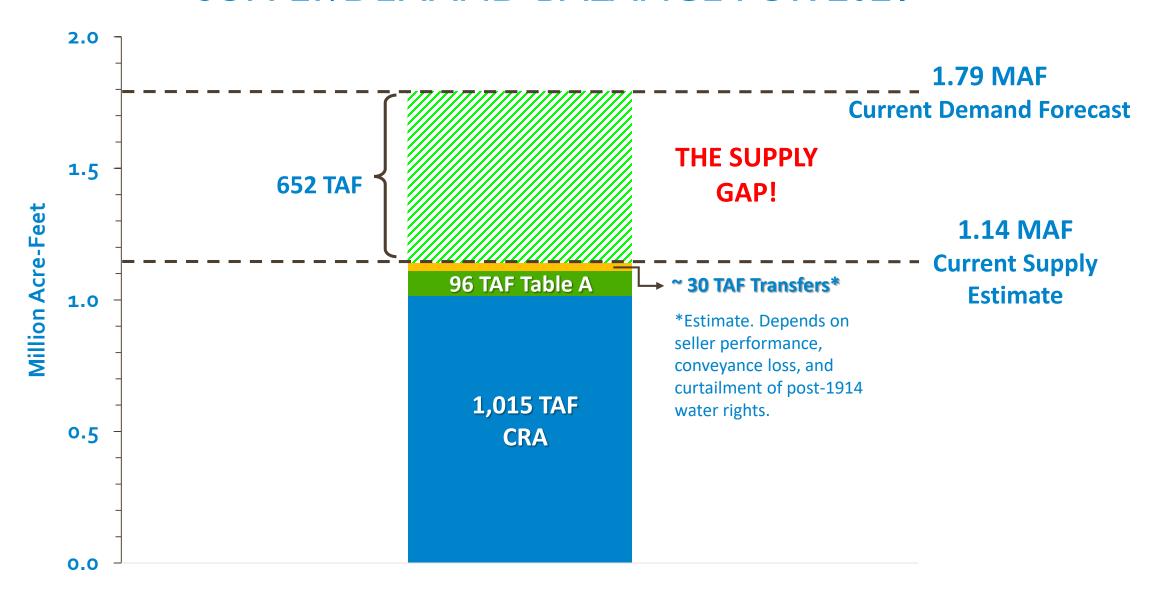
### PROJECTED METROPOLITAN STORAGE BALANCES

End of Year Balances



Estimate – May change based on supply/demand conditions

# IMPORTED WATER SUPPLY/DEMAND BALANCE FOR 2021





## WATER SURPLUS/DROUGHT MANAGEMENT (WSDM) PLAN



### CURRENT WSDM ACTIONS (2021)



- Purchasing ~43 TAF of transfer supplies (~30 TAF after losses)
  - State Water Contractors Buyers Group
  - Yuba Accord supplies
- Withdrawing from dry-year storage
- Arvin-Edison Exchange/Recovery
  - Receiving high quality surface water (Friant supplies)

# EXTRAORDINARY DROUGHT ACTIONS CONSERVE SWP SUPPLIES – "SHIFTING" DEMANDS TO CO RIVER

#### **Drought Action**

DVL to Lakeview Pipeline

**DVL** to Mills

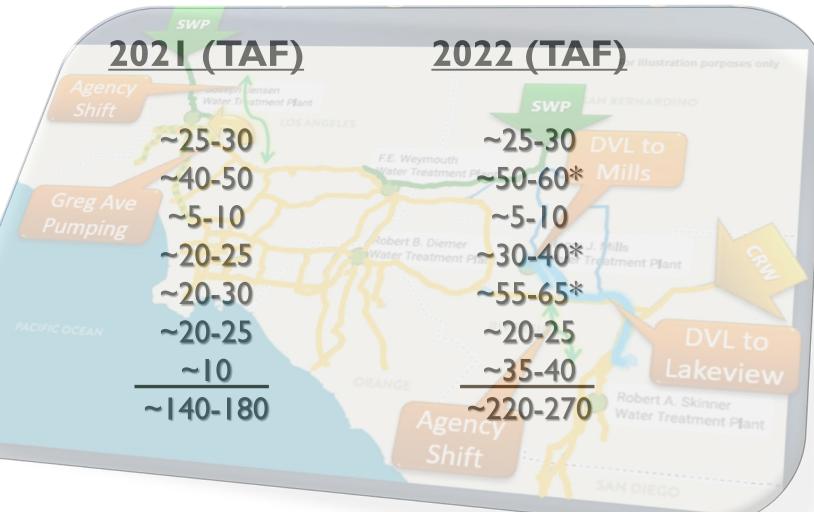
Defer Deliveries

Greg Avenue Pumping

Shift to CRW Connections

Other MWD System Mods

Defer Shutdowns

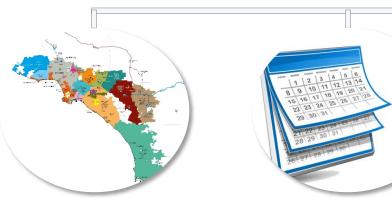


<sup>\*</sup>Increase in drought action performance from 2021 results from more months of operation in 2022

### METROPOLITAN EVALUATES NEW DROUGHT ACTIONS FOR THE NEAR AND LONG TERM

- Generated 132 creative ideas
  - 50 selected for further development

#### **Project Categories**



System and Operations



**Shift Timing** of Deliveries



Increase Local **Supplies** 



Increase **Conservation** 



**Expand WSDM Programs** 



### TVMWD DROUGHT ACTIONS



# "SHIFTING" SWP DEMAND TO COLORADO RIVER WATER

TVMWD executed agreement to "shift" 5 cfs away from Miramar Treatment Plant (100% SWP water) to MWD's Weymouth Treatment Plant (100% Co River Water)

- Will save approximately 5,000 acre-feet of SWP for next year
- MWD reimburses TVMWD for increased cost

MWD made call on Conjunctive Use Program (CUP) agreement in 6 Basins GW Basin

- TVMWD produces more groundwater in lieu of imported water at Miramar Treatment Plant
- MWD pre-delivered 1,000 acre-feet into basin
- Will reduce up to 1,000 acre-feet off the Miramar Treatment Plant

#### TVMWD BOARD APPROVES 15% VOLUNTARY REDUCTION

- In August 2021, MWD Board approved 15% voluntary conservation via resolution
- In September 2021, TVMWD Board of Directors approved a resolution supporting MWD 15% voluntary conservation via resolution.



# MANY TARGETED ACTIONS TO RESPOND TO POTENTIAL HISTORIC DRY CONDITIONS BEGAN IN JANUARY

Jan 2021

Feb 2021

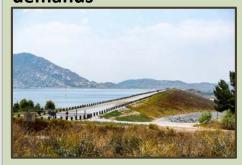
Mar 2021

Apr 2021

Began releases from DVL to serve connections on the Lakeview Pipeline



Minimize operational flow of SWP to areas that can receive both SWP and CRW Metropolitan began pump-back operations at Lake Perris to withdraw flexible storage to meet Mills demands



Returns from Semitropic Storage Program and Kern Delta Storage Program began Began operating CRA at full capacity for the first time since 2015



Board voted to explore purchasing transfers north of the Delta

Bulkheads installed to allow deliveries from DVL to Mills Plant

Eastern MWD began shifting deliveries, when possible

# MANY TARGETED ACTIONS TO RESPOND TO POTENTIAL HISTORIC DRY CONDITIONS BEGAN IN JANUARY

Jul 2021

May 2021

Greg Avenue pumping

West Basin MWD began shifting demands

LADWP began shift through OSCOP

Aug 2021

**Began receiving** 

Program

exchange of surface

**Arvin-Edison Storage** 

water supplies from the

TVMWD began shift through OSCOP

**Sep 2021** 

Board approved new Operational Shift Cost Offset Program (OSCOP)

Lakeview Pipeline improvements completed



DVL to Mills Plant in operation for the first time in Metropolitan's history

station tests completed and began operation

Jun 2021



Amended agreement with DWR to increase stated max flow rate for DVL to Mills Plant operation

Continue to discuss
OSCOP potential with
other member agencies

Board declared a Water Supply Alert, calling for consumers and businesses to voluntarily reduce their water use

