



Engineering, Operations, & Technology Committee

# Management Announcements and Highlights

Item 7a

January 8, 2024

# Engineering Services

Update by Deven Upadhyay

# Perris Valley Pipeline Project

- Tunnel Boring Machine Naming Event
  - 10AM January 25<sup>th</sup>
  - March Air Field Museum, Riverside
- Project Progress
  - Approximately 30% complete
  - Continuing construction on project's four shafts
  - Coordinating with Metrolink on construction under rail lines

**NAME THE TUNNEL BORING MACHINE FOR THE PERRIS VALLEY PIPELINE**  
Contest for Grades 4-12  
*Sponsored by The Metropolitan Water District of Southern California*



Help us name the tunnel boring machine (TBM) that will finish the Perris Valley Pipeline. This pipeline will bring water from Metropolitan's Mills Water Treatment Plant to the Perris Valley. The TBM is about 30 feet long and 10 feet in diameter. It moves 30-40 feet per day, building the tunnel as it digs. It needs a name!

- The naming contest is open to students in grades 4-12 at schools in the vicinity of the project (see project map).
- Choose a name for the TBM and tell us why you chose it in a short essay, no more than 200 words or in a MP4 video, up to 1 minute.
- The winning name will be placed on the TBM and you will hear it used in news stories and social media when we talk about the project.
- The top submission will be recognized at a ceremony this fall. The top three submissions will receive a classroom set of education supplies.
- Ask questions and submit entries to [MWDEducationPrograms@mwdh2o.com](mailto:MWDEducationPrograms@mwdh2o.com).



**Submissions Due September 30, 2023** [bewaterwise.com](http://bewaterwise.com)

# Water System Operations

Update by Shane Chapman

# Managing Initial Low SWP Allocation

## Current Operational Conditions

- 2024 SWP Allocation at 10%
- CRA at 4-pump flow
- Deliveries to DWCV at 300 cfs
- SWP blend targets are 0% at Weymouth, Diemer, and Skinner
- Suspended Cyclic, CUP, CCOP, Banking deliveries
- December 2023 deliveries of 110 TAF were 2 TAF lower than December 2022



Whitewater Bridge Demolished



# Preserving SWP Supplies with Low Initial Allocation

*Maximizing future reliability*

## Protecting Drought Storage



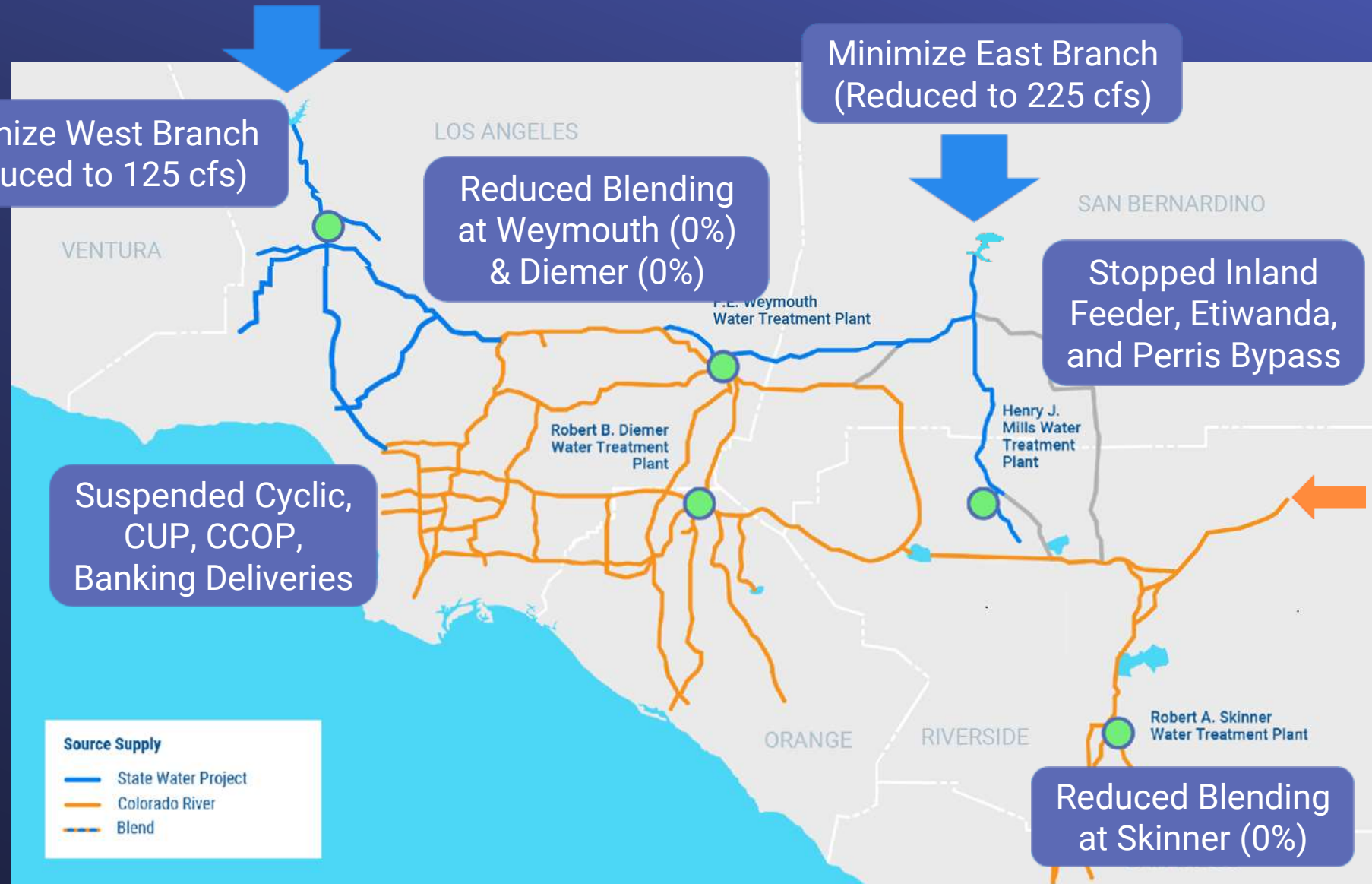
San Luis Reservoir

- Early 2024 operations based on lessons learned during last drought
  - Preserve Carryover supplies
  - Preserve Flex storage
  - Maintain a full DVL
- Position SWP supplies to meet SWP Dependent Area needs if dry conditions continue
- Increase use of SWP supplies as allocation increases

# Flipped the System – Minimizing SWP

Early 2024  
Operations

Minimizing SWP Supplies  
to Prepare for Possible  
Drought Sequence



**West Valley Feeder No. 1**  
Support Calleguas inspection  
Jan. 15 – 18, 2024

**Calabastas Feeder**  
PCCP inspection  
Jan. 15 – 26, 2024

Ensuring  
Continued  
System  
Reliability

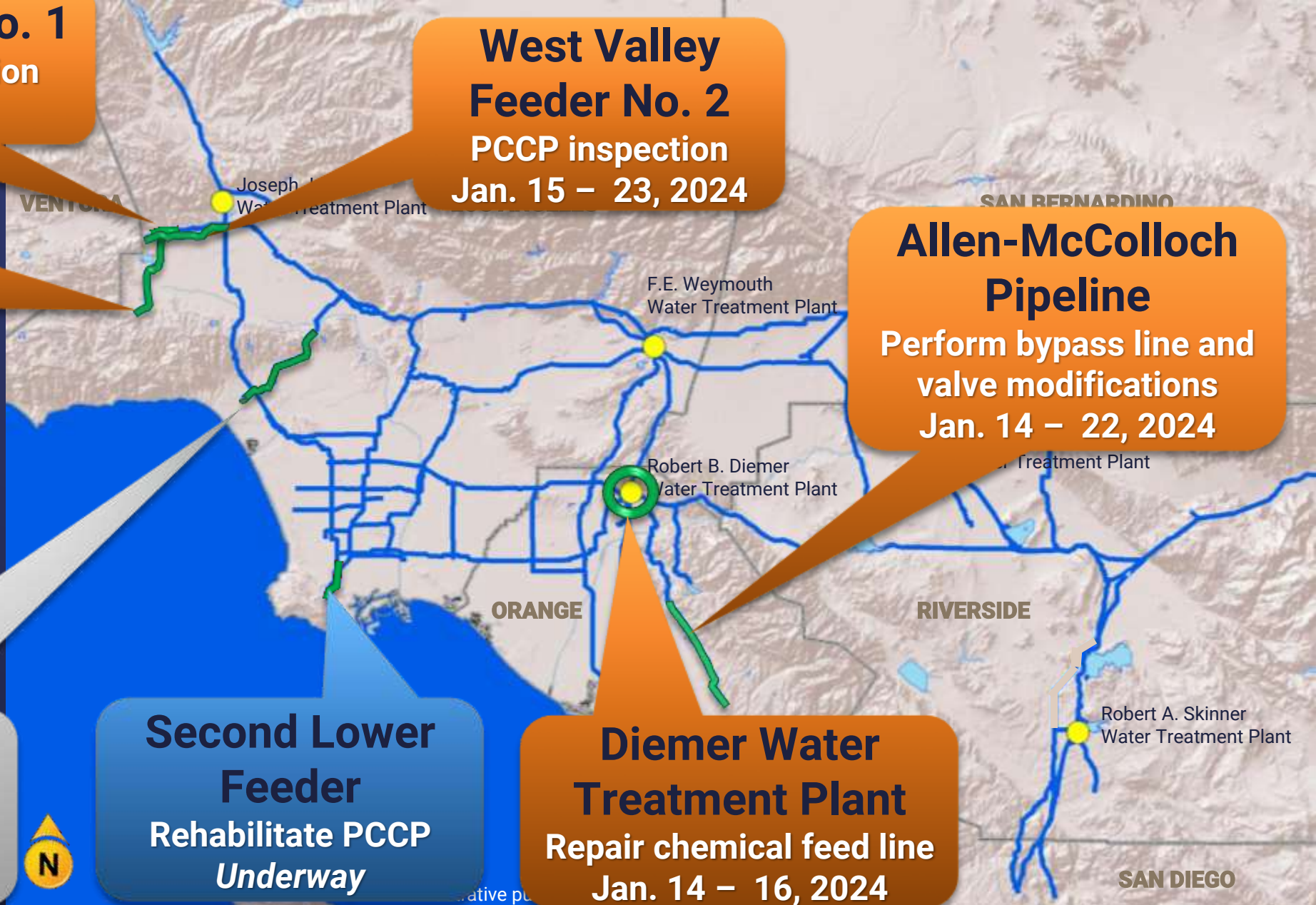
**Santa Monica Feeder**  
Urgent meter repair for  
SMN-01  
Recently Completed

**West Valley Feeder No. 2**  
PCCP inspection  
Jan. 15 – 23, 2024

**Allen-McColloch Pipeline**  
Perform bypass line and  
valve modifications  
Jan. 14 – 22, 2024

**Second Lower Feeder**  
Rehabilitate PCCP  
Underway

**Diemer Water Treatment Plant**  
Repair chemical feed line  
Jan. 14 – 16, 2024





# Quagga Mussels in West Branch State Water Project



*Castaic Lake, 2021*

January 8, 2024

## Quagga Mussel Monitoring

- Confirmed evidence of quagga mussel reproduction in SWP West Branch
  - Adult mussel discoveries in 2016, 2021, 2023
  - Veligers detected by microscopy at multiple locations in 2023
  - Calcium in SWP lower than CRA so may not see same level of proliferation or impact
- Continued monitoring and coordination with DWR, CDFW, and impacted Member Agencies
- Reviewing management and control options
- Ensuring raw water deliveries have no downstream impacts
- Update planned for February EO&T Committee meeting

# State Water Board Unanimously Approves DPR Regulations

## Direct Potable Reuse



- Significant milestone and 10+ years in the making
- Most advanced standards in the nation for converting wastewater into purified drinking water
- Recognition of Metropolitan's leadership and contributions in advancing potable water reuse
  - Testimony supporting adoption of DPR regulations at State Water Board meeting on December 19
  - Extensive engagement, comments and recommendations throughout regulatory development process
- Regulations expected to be codified in early 2024

# 50<sup>th</sup> Anniversary of Water Quality Section

## 1974 - 2024



*Original home of  
Water Quality, 1974*



*Pouring concrete for  
Water Quality Lab, 1983*



*Generations of Water  
Quality leadership*



*2024 – A year of  
celebration*

1974 – Water Quality & Research Branch – 10 staff

1978 – Water Quality Branch – 27 staff

1986 – Water Quality Division – 56 staff

2000 – Water Quality Section – 116 staff

2024 – Water Quality Section – 108 staff

# Information Technology

No update for this period



