



Engineering & Operations Committee

Water System Operations Manager's Report

Item 7a

Monday, March 7, 2022

08:30 a.m.

WSO Manager's Report

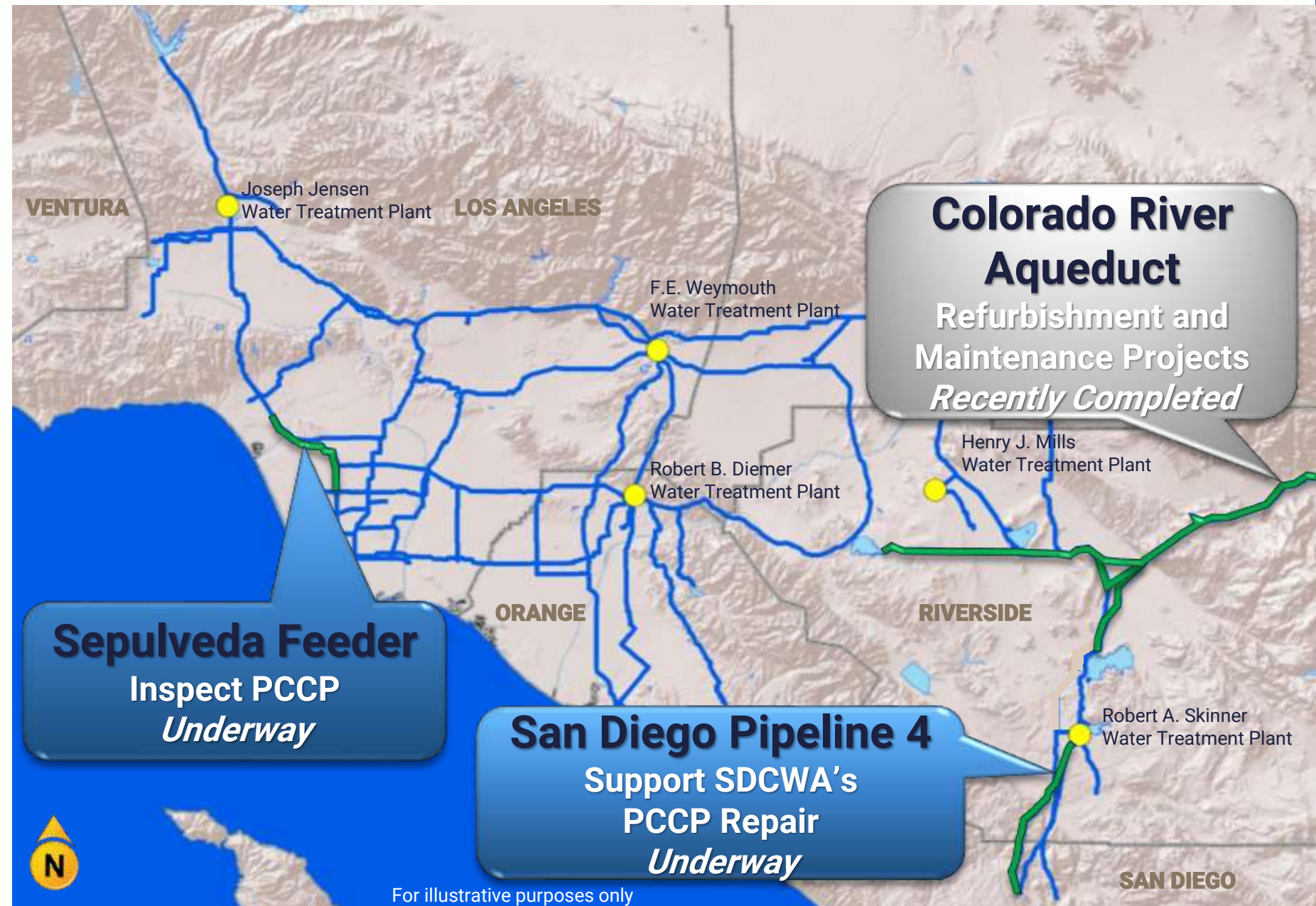
Current Operational Conditions.

Continuing Drought Operations

- 2022 SWP Allocation is 15%
- SWP blend targets are 0% at Weymouth, Diemer, and Skinner plants
- DVL to Mills drought operation continues to perform well
- Managing storage based on WSDM principles
- February 2022 deliveries of 106 TAF were 8 TAF higher than February 2021

WSO Manager's Report

Ensuring Continued System Reliability.



WSO Manager's Report __

Colorado River Aqueduct Shutdown.



Preparing for CRA 8-Pump Operation.



For Illustration Only

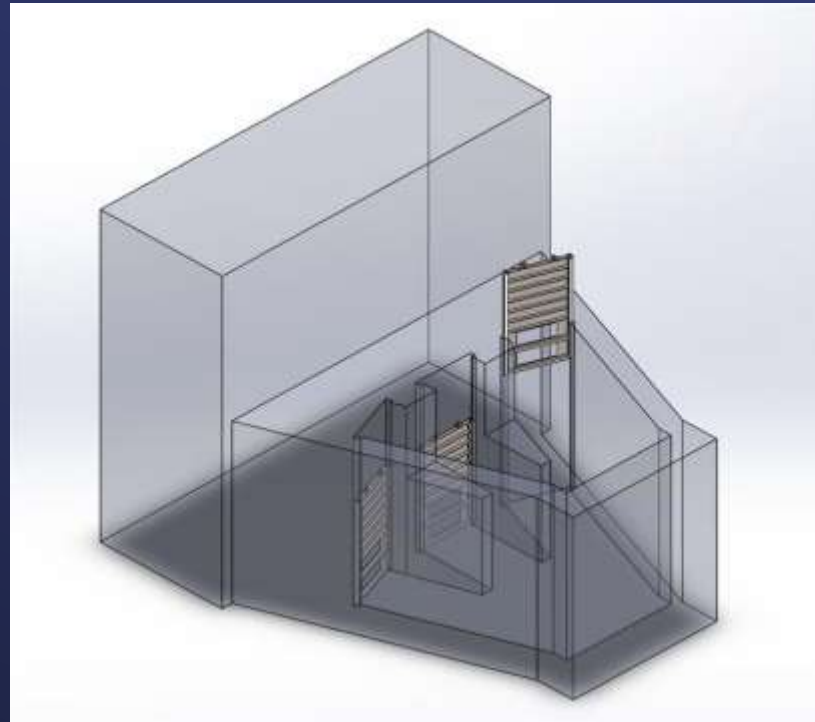
- Pinch discharge gates to reduce flow
- Requires more coordination, patrols, and monitoring
- Balancing act with changing conditions
- Supports operation of minimizing SWP deliveries

8-Pump Flow Improvement Projects.

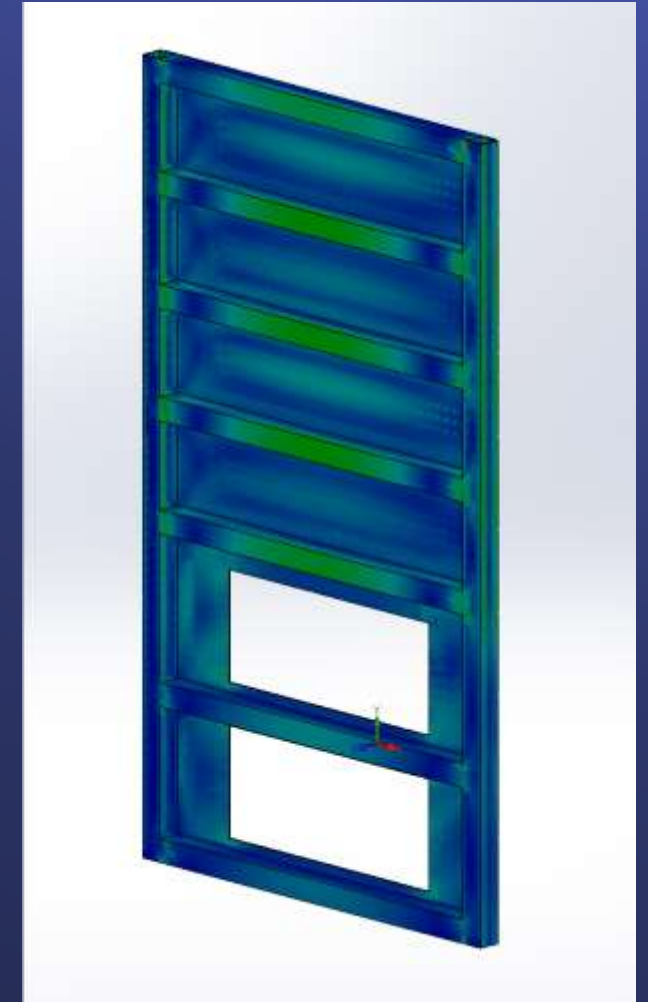
WSO Manager's Report

Orifice Drop Gates

- 1 gate at Iron Mountain Pumping Plant
- 3 gates at Hinds Pumping Plant
- Reduces need to pinch discharge gates



Surge Chamber (Typ.)



Drop Gate

Orifice Drop Gates

Orifice gate installation at
Hinds Pumping Plant

WSO Manager's Report

8-Pump Flow Improvement Projects.



WSO Manager's Report

8-Pump Flow Improvement Projects.

Pump Recirculation at Eagle Mountain Pumping Plant



Recirculation line connections at the Eagle Mountain Pumping Plant

WSO Manager's Report

8-Pump Flow Improvement Projects.

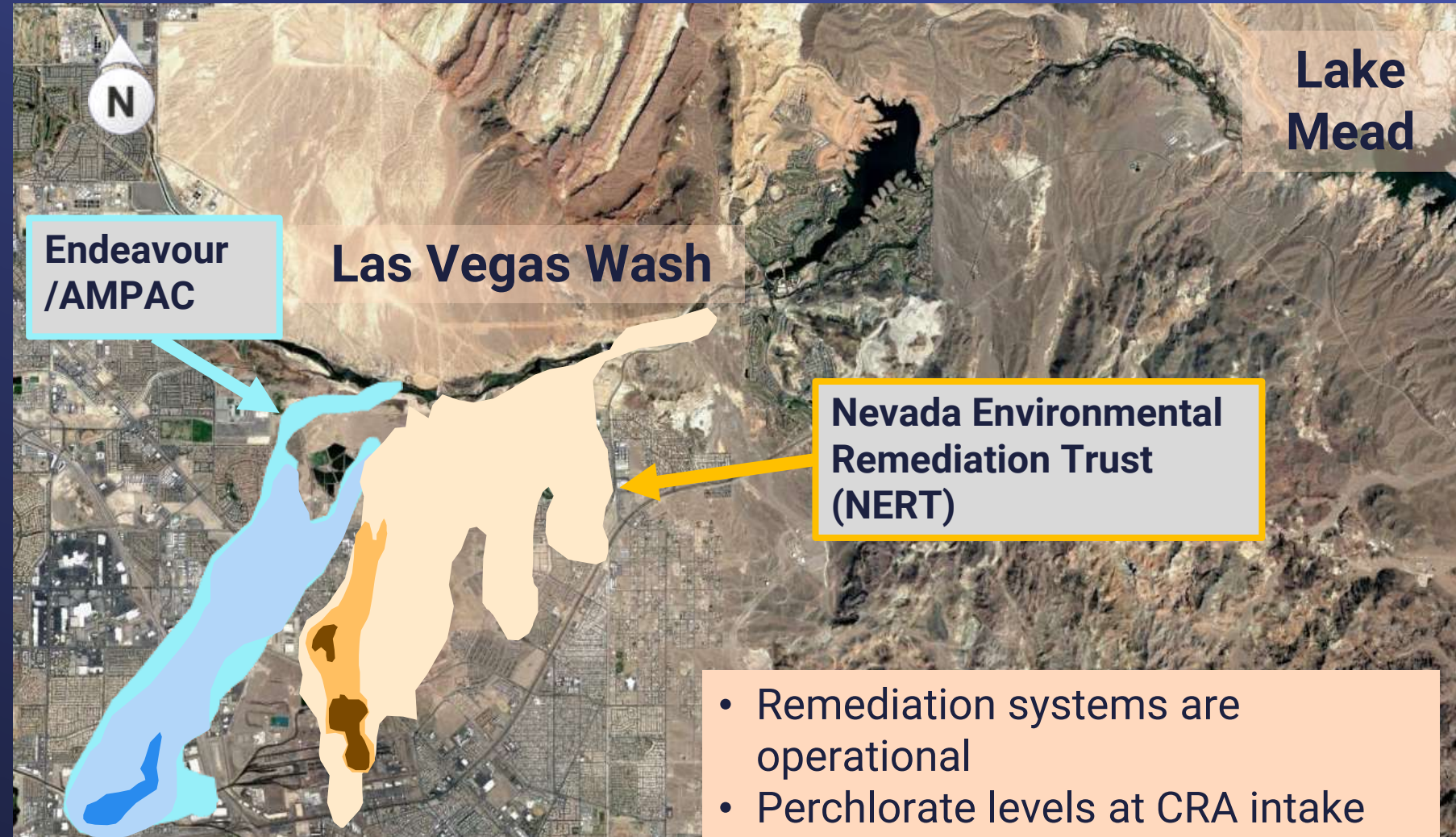
Pump Recirculation at Eagle
Mountain Pumping Plant



Branch tee installation at the Eagle Mountain Pumping Plant

WSO Manager's Report

Henderson Perchlorate Remediation Update.



- Remediation systems are operational
- Perchlorate levels at CRA intake are well below CA MCL

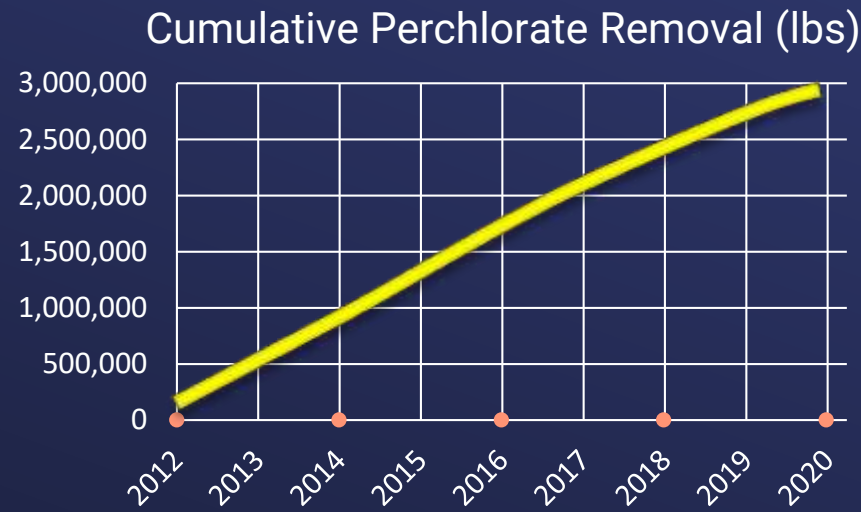
Endeavour (formerly AMPAC)

WSO Manager's Report

Henderson Perchlorate Remediation Update.



- Fluidized Bed Reactors
 - Installed 2012, following challenges with in-situ bioremediation
 - Cumulative perchlorate removal to date
 - 3 million lbs (1,500 tons); 650-800 lbs/day
- Ongoing performance optimization to maximize capture and removal



Nevada Environmental Remediation Trust (NERT)

WSO Manager's Report

Henderson Perchlorate Remediation Update.

- Fluidized Bed Reactors
 - Installed 2004
 - Cumulative perchlorate removal to date
 - 11 million lbs (5,500 tons); 800-1,000 lbs/day
- Long-term remediation plan to accelerate cleanup



FBR system at NERT site

