

# **2019 Annual Review** of the construction and operation of the **State Water Project**



# Key Issues



# Climate Change: SWP Vulnerability Assessment





# EO N-10-19 and 10-Delta Conveyance





# Oroville Spillways Update





# SWP Water Deliveries and Power



# SWP Water and Power





# Dam Safety



# Coordinated Operations with the Central Valley Project





# Incidental Take Permit





# Forecast Informed Reservoir Operations

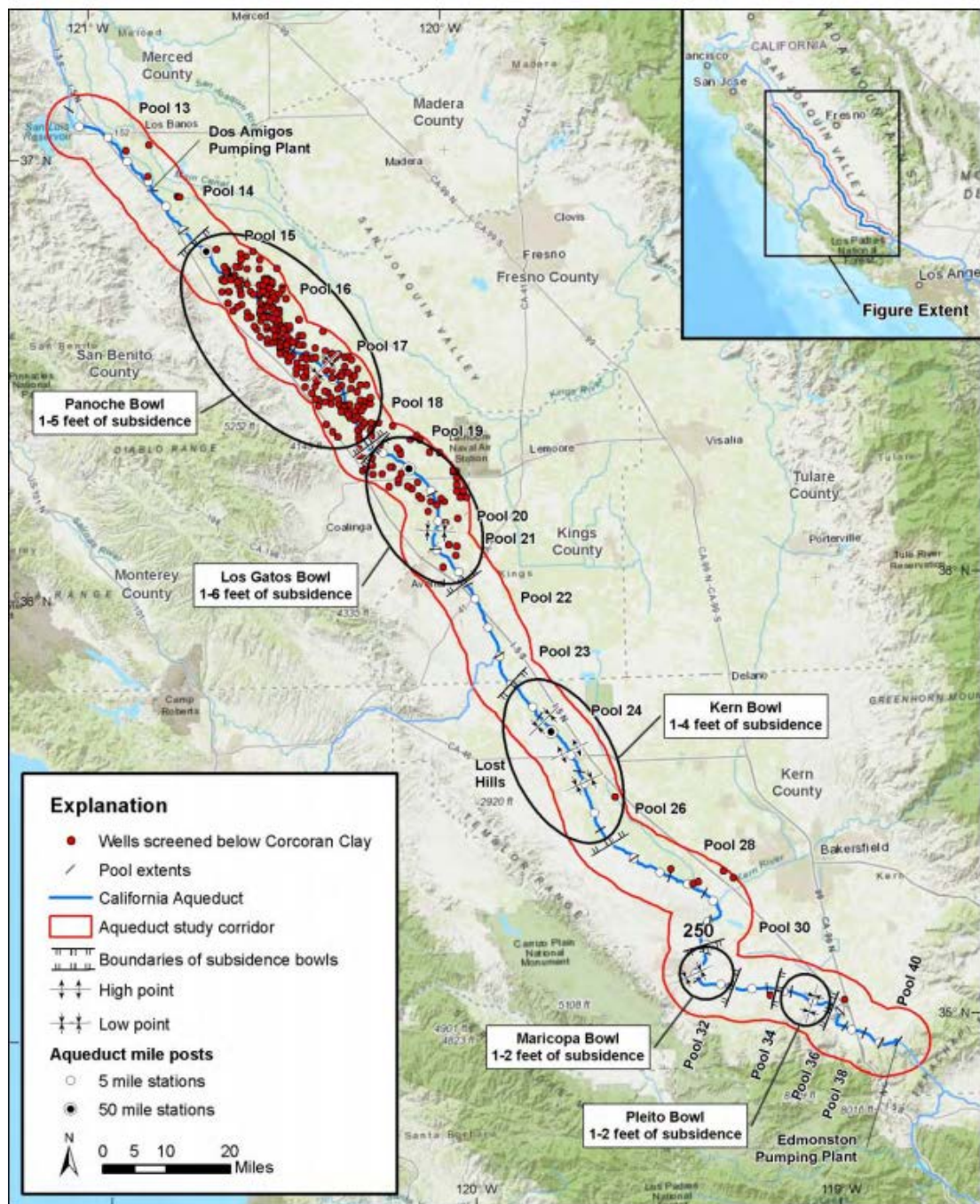




# Aqueduct Subsidence



Figure 2-27 Wells Screened Exclusively Below the Corcoran Clay, Aqueduct Study Corridor



## Bulletin 118 Groundwater Basins Subject to Critical Conditions of Overdraft - Update based on 2018 Final Basin Boundary Modifications





# Ecosystem Restoration





# Construction Projects





# Findings and Recommendations





# Findings

- DWR has kept the Commission apprised on its progress in implementing its strategic plan, particularly those activities associated with modernizing SWP infrastructure, and using an asset management approach to support risk-based decision making;
- DWR Director Nemeth committed to reinvigorating the relationship with CWC to increase interaction with the public on the activities of the SWP, and to keeping the Commission and the public informed as it plans for a single-tunnel Delta conveyance
- DWR made good progress with inspecting its dams and spillways, developing inundation maps and emergency action plans, and integrating the SWP dam safety program with the SWP Operations & Maintenance Asset Management program;
- DWR completed reconstruction of the main and emergency spillways at Oroville, and reopened important public access and recreation facilities at the reservoir;





# Findings, continued

- Some sections of the California Aqueduct south of the San Luis Reservoir have lost approximately 20 percent of conveyance capacity due to subsidence.
- Forecast Informed Reservoir Operations (FIRO) is a proposed management strategy that uses data from watershed monitoring and improved weather forecasting to enable more effective management of reservoirs. DWR, along with outside stakeholders, is exploring the use of this new strategy.
- DWR is pursuing a 10-year incidental take permit (ITP) for state-listed endangered species under the California Endangered Species Act (CESA) to allow the long-term operation of the SWP.
- DWR continues to take significant steps to address climate change and to reduce greenhouse gas emissions.





# The Commission Recommends that:

- DWR keep the Commission apprised of the potential role of the SWP in support of increasing groundwater recharge efforts in the State;
- DWR update the Commission on the status of emergency planning in communities within the inundation areas of SWP dams;
- DWR keep the Commission apprised on how it plans to adapt the operation of the SWP over the long term to the expected effects of climate change, including anticipated changes to deliveries, a new Delta conveyance, and ecosystem restoration efforts;
- DWR update the Commission on subsidence as it relates to the California Aqueduct and studies or plans for resolving reduced operating flexibility and capacity;
- DWR keep the Commission apprised of the information obtained through the Feather-Yuba FIRO project, and brief the Commission on the potential to apply FIRO to other reservoirs in the SWP system.





# Recommendations, continued

- DWR begin exploring watershed planning in the Upper Feather River watershed and the possibility for green infrastructure projects to enhance SWP operations, and brief the Commission as this work evolves;
- DWR and CDFW brief the Commission on how the ITP will affect SWP operations, as well as the condition of the four listed fish species;
- DWR continues to keep the Commission apprised on progress in achieving greenhouse gas reduction goals and the SB 100 requirement that state agencies use 100% emissions-free electricity by 2045;
- DWR should keep the Commission apprised on the public engagement efforts and planning for a single-tunnel Delta conveyance project.





# The End