



Fiscal Year 2025 Annual Readiness Report

Planning Committee

- October 14, 2025

Steve Bonini, Manager of Security and Emergency Preparedness

Agenda

- Emergency Planning
- Earthquake Preparedness and Response
- Mutual Aid and Community Partnerships
- Federal Regulations
- FY 2026 Next Steps

FY = Fiscal Year

District Emergency Plans

Emergency Operations Plan

- Comprises general response plans (annexes) for variety of incidents
- Updated every five years and completed September 26, 2025

21 Business Continuity Plans Completed

- Ensures basic business functions during and after emergencies
- Updated every two years; 7 updated in FY 2025
- Exercised annually; 21 of 22 completed in FY 2025

28 Site Security Emergency Action Plans Completed

- Required by OSHA, tailored to specific potential hazards at a workplace
- Updated every five years; 2 updated in FY 2025
- 11 due for update in FY 2026

Emergency Operations Plan – Annex Updates

Annex	Status
Earthquake Response Plan	Updated October 2024
Water Quality Response Plan	Updated July 2025
Commodity Point of Distribution Water Manifold Plan	Updated July 2025
Sampling and Analysis Plan	Created July 2025
Mutual Aid Coordination	Drafted July 2025
Emergency Operations Team Roles and Responsibilities	Drafted July 2025

Emergency Notification Drills

- Conducted four times per year, two District-wide and two conducted at Department level
- Communication performed through cloud-based notification software
- Purpose of drill is to confirm available workforce following emergency

Dates (District-wide Drills)	Employees Confirmed (%)
October 2024	98
April 2025	98

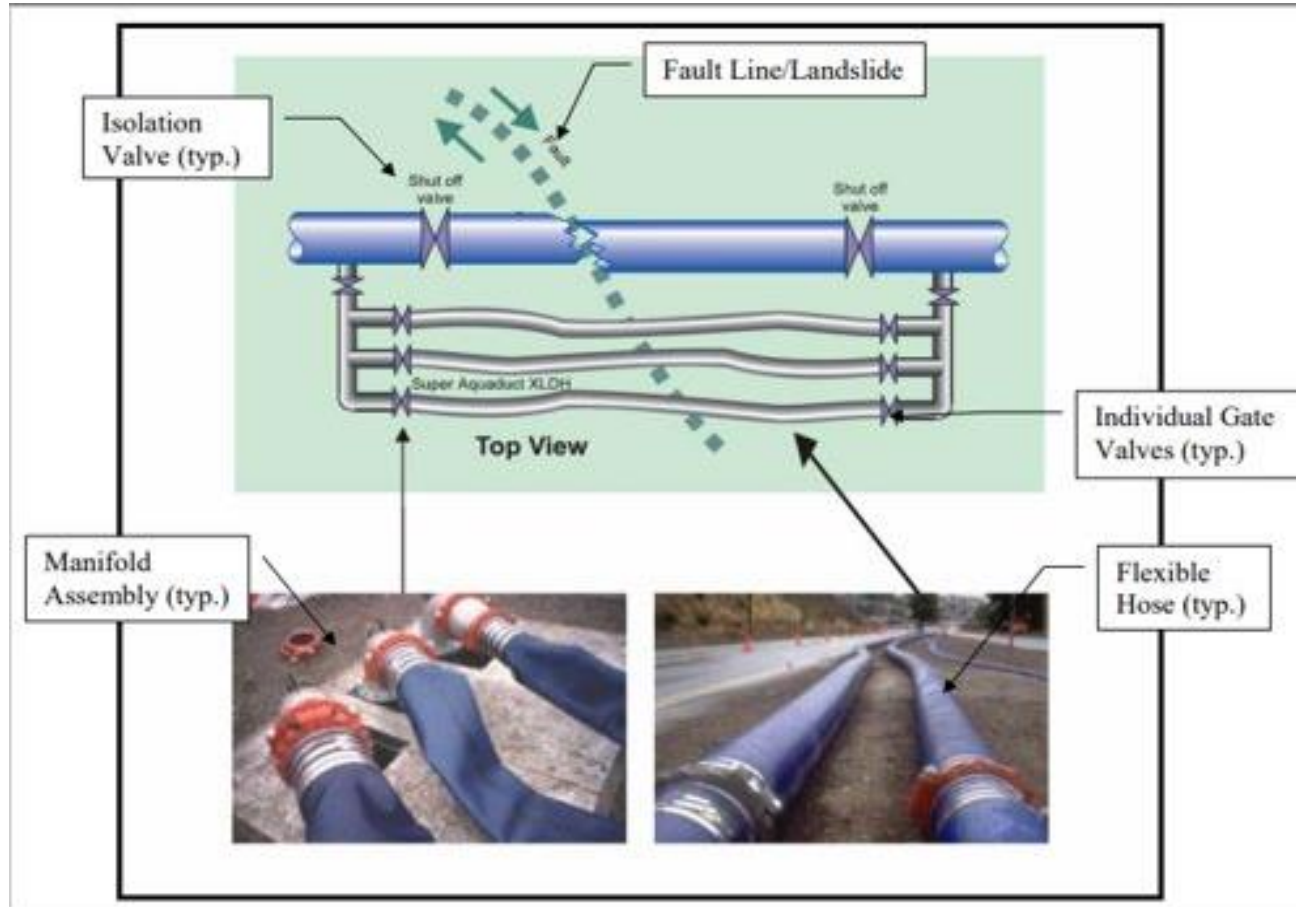
Mobile Emergency Command Center (MECC)

- MECC capabilities similar to Emergency Operations Center at the Administration Building
- Refurbished in 2025
- Temporarily relocated to and stored at Castenada Service Center due to construction at the Walnut Creek Water Treatment Plant.



MECC with new EBMUD graphics

Earthquake Fault Bypass Connections

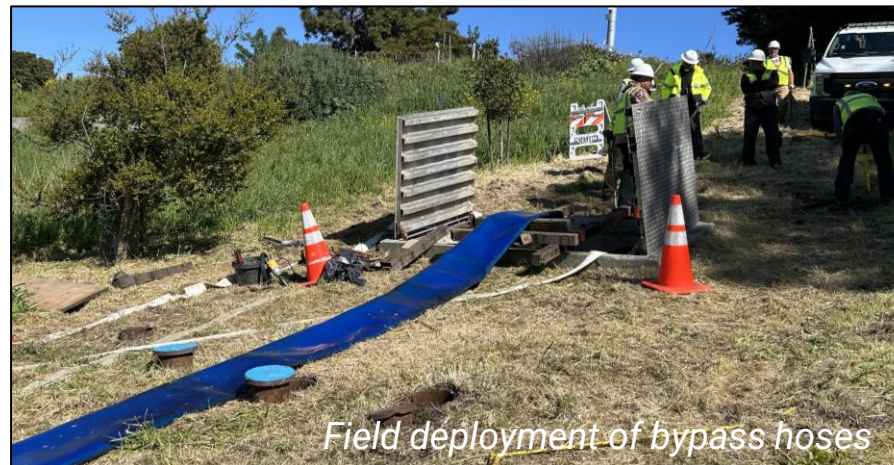
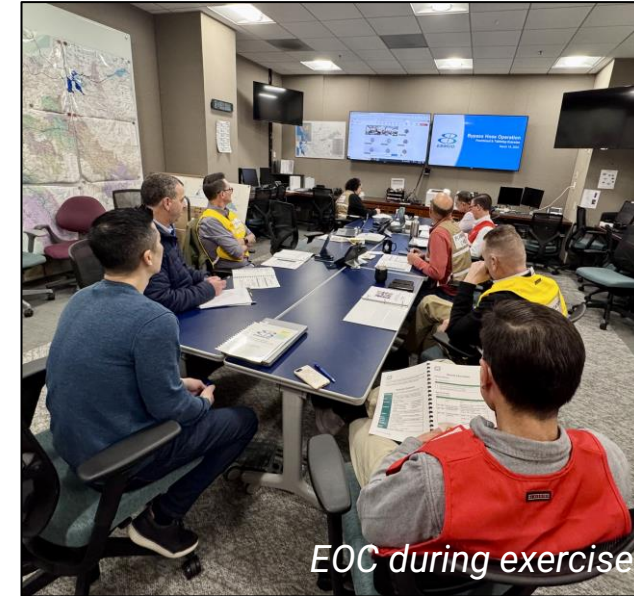


Emergency Bypass Connection

- Inventoried flexible hose, connections and deployment equipment
- New hoses and components were ordered as needed
- Existing hoses being pressure tested

Annual Emergency Operations (EOT) Exercise

- Conducted March 18, 2025
- Functional exercise focused on deploying emergency bypass hoses following a magnitude 7.2 regional earthquake
- Activated both the Emergency Operations Center (EOC) and the North Area Service Center (NASC) Incident Base



Earthquake Preparedness

- Earthquake Response Plan Annex updated FY 2025
 - Response actions to be taken throughout District
 - Communications plan
 - Deployment guidelines
 - Restoration priorities
- Emergency Action Plans for each dam

Mutual Aid Partnerships

- Continue to coordinate with Alameda and Contra Costa County, Cal/Office of Emergency Services, and Federal Emergency Management Agency
- Continued leadership role in California Water/Wastewater Agency Response Network
- Mutual aid coordination meetings held with Los Angeles Department of Water & Power and Las Vegas Valley Water District



Community Support

Commodity Point of Distribution (CPOD) Manifolds

- Temporary hydrant connections could provide emergency water distribution
- Ongoing collaboration with Alameda and Contra Costa counties for review of site placement
- 100 manifold kits assembled and available for use



Emergency water manifold

Storage of Water Manifolds

25 kits per trailer, four trailers stored at each service center for deployment



CPOD manifolds inside trailer



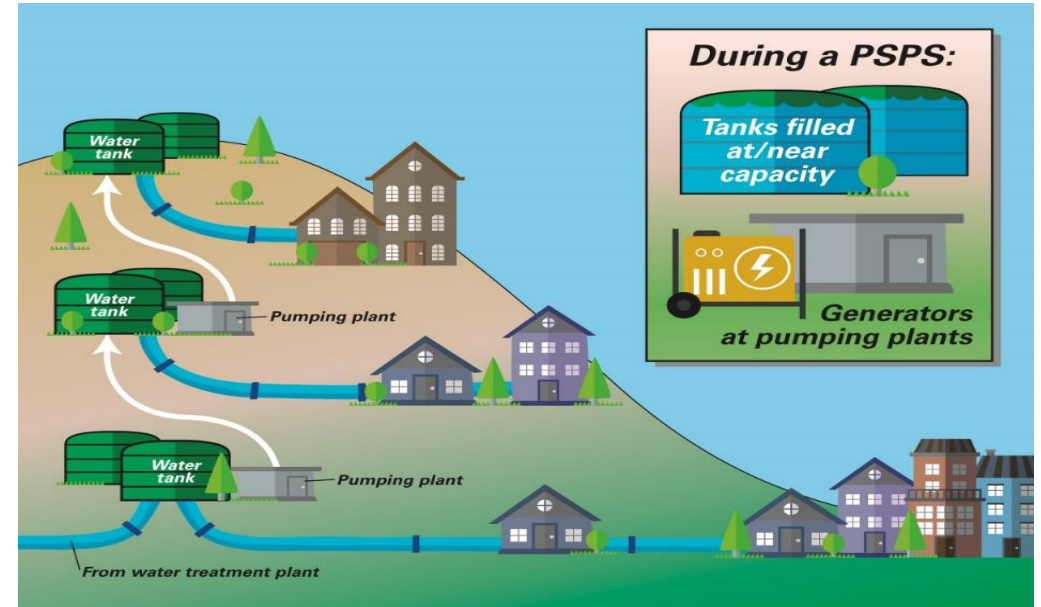
Manifold hose, rolled for proper storage inside trailer



CPOD trailers ready to be deployed

Public Safety Power Shutoffs (PSPS)

- A combination of portable generators and portable pumps were deployed for critical infrastructure
 - Portable generators sourced through long-term vendor contract
 - During FY 2025, strategic deployments of the District's five portable generators and 14 rented portable generators were staged in high-risk wildfire regions within our service area
- There were two minor PSPS events within the EBMUD service area in FY 2025



Water tank and pumping plant diagram

Federal Energy Regulatory Commission (FERC) Requirements

- Pardee and Camanche Dams subject to FERC requirements for safety and emergency preparedness
- November 6, 2024, the District held Joint Emergency Action Plan Annual Seminar with Jackson Valley Irrigation District, Calaveras Public Utility District, and PG&E in Lodi
- Security assessment conducted; Security Plan updated

America's Water Infrastructure Act (AWIA)

- Federally required review of risks and resilience associated with multitude of potential hazards
- Risk and Resilience Assessment (RRA) completed FY 2025
- RRA certified with Environmental Protection Agency FY 2025
- Emergency Operations Plan (EOP) update required every five years (EOP updated and certified in early FY 2026)
- AWIA not applicable to wastewater utilities
- Vulnerability to cyberattacks was assessed for operations and business networks

FY 2026 Next Steps

- Continue to train staff in emergency deployment of temporary bypass piping following seismic events.
- Audit the EOT members training and host training courses as needed.
- Complete the agreement and implementation of new emergency management platform including emergency employee notification.
- Expand three-party mutual aid agreement with additional partners in California.
- Provide crisis communications training for the Board of Directors.

Questions?



Flowing
into the
Future



Joint Study Agreement for Fisheries

Planning Committee

October 14, 2025

James Pearson, Supervising Fisheries/Wildlife Biologist

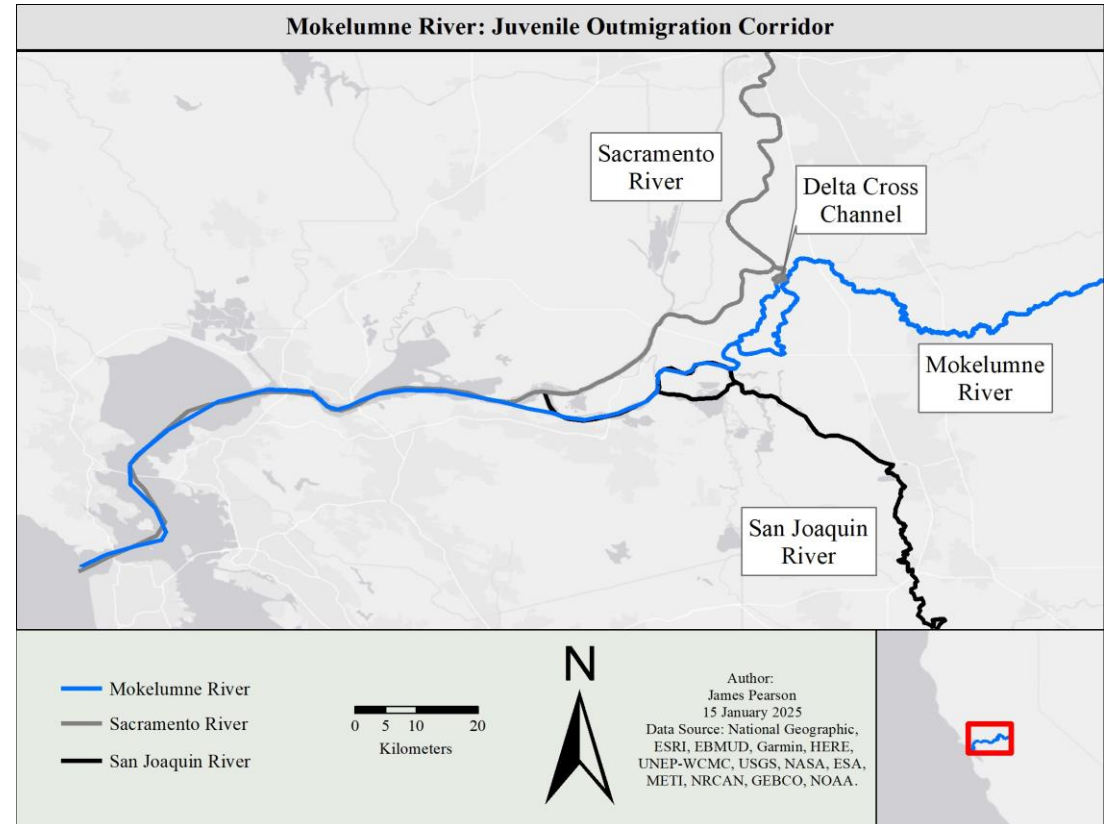


Presentation Overview

- Mokelumne River Juvenile Salmonid Outmigration
- Delta Conveyance Project - Potential Impact
- Joint Study Agreement
- Agency Roles
- Innovative Tools - ATS JSATS Tags
- Final Report and Outcomes
- Next steps

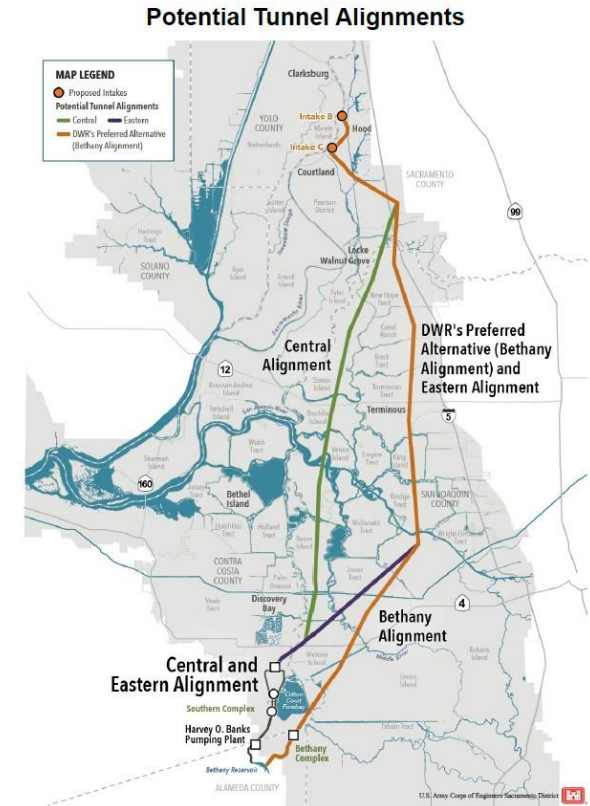
Mokelumne River Juvenile Salmonid Outmigration

- Environmental Challenges
 - Elevated water temperature
 - Limited prey availability
 - High predation pressure
 - Salinity and flow variability
- Sacramento Salmonids
 - Bypass Interior Delta
 - Less challenging environment
- Existing models don't capture Mokelumne migration



Delta Conveyance Project (DCP): Potential Impact

- New tunnel system will alter hydraulics and flow
- Could influence migratory outcomes for salmonids
- Highlights the need for:
 - Better baseline data to inform models
 - Supplemental modeling
- DEIR comments on the DCP by EBMUD noted insufficient assessment of impacts to Mokelumne fisheries
- Led to a Joint Study Agreement between EBMUD and DWR



Delta Conveyance Project –
Draft Environmental Impact
Report - USACE

Joint Study Agreement

- Collaborative investigation on how Delta hydrodynamics affect Mokelumne salmonid behavior
 - Migration timing
 - Route selection
 - Residence time
 - Entrainment risk
- Collaborators
 - EBMUD, DWR, and USGS



USGS – United States Geological Survey

Agency Roles

- EBMUD
 - Tagging and releasing ~1,000 juvenile Chinook salmon annually
 - Deploying, data retrieval, and maintenance of receiver array
 - Data transmission
- DWR
 - Tagging and releasing ~1,000 yearling steelhead trout annually
- USGS
 - Survival modeling & statistical analysis
 - Developing and refining a multi-state mark-recapture model
 - Model delta hydrodynamics (tides, discharge, pumping facility)
 - Integrating model outputs into STARS model
 - Simulate future scenarios including DCP operations
 - Reporting



EBMUD Staff Tagging
Juvenile Chinook



Releasing Tagged
Juvenile Chinook

Innovative Tools: ATS JSATS Tags

- Advanced Telemetry Systems (ATS)
 - JSATS Transmitter Tags
 - Tag Features
 - High-resolution tracking
 - Minimally invasive implantation
 - Unique ID signals
 - Superior battery & signal performance
 - Tag Smolt sized fish and track for up to 159 days



Final Report and Outcomes

- Summarize key findings for Chinook salmon and Steelhead
- Assess DCP impacts on Mokelumne River salmonid populations
- Evaluate the need for mitigation measures by DWR in the Mokelumne River
- Support future DCP operations and environmental planning
- Deliver a validated model recognized by DWR and water agencies for use in large-scale water project evaluations

Next Steps

- Board consideration
 - Approve purchase contract with ATS for acoustic tags 10/14/2025
 - Authorize an agreement with USGS 10/28/2025
- Implementation of study (winter/spring 2026)
- Analyze data and assess DCP operations for potential impacts
- Data can be used to evaluate other Delta Operations



Questions?

