

RECLAMATION

Managing Water in the West

Upper San Joaquin River Basin Storage Investigation

Potential Contributions to Delta Solutions

BDPAC Water Supply Subcommittee

May 1, 2008



State of California
Department of Water Resources



U.S. Department of the Interior
Bureau of Reclamation

Planning Objectives

➤ Primary Objectives:

- Enhance San Joaquin River water temperature and flow
- Water supply reliability for agricultural and urban users

➤ Other Opportunities:

- Flood control
- Hydropower
- Recreation
- Water quality (San Joaquin River and urban)

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Additional Storage on the Upper San Joaquin could provide a variety of benefits for the San Joaquin River and Delta

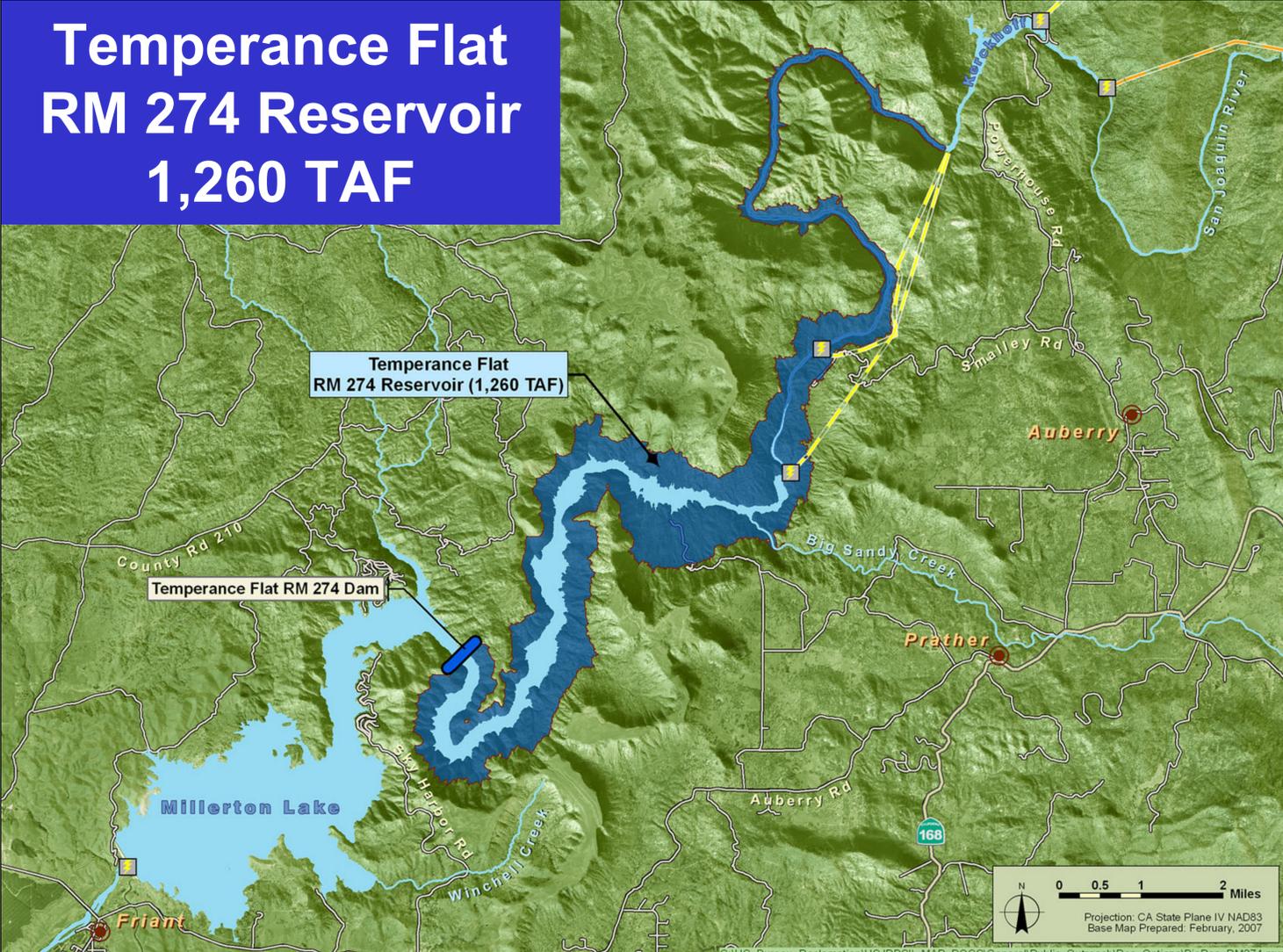


Friant Dam – Millerton Lake

- Ecosystem Restoration
- Delta Emergency Response

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Temperance Flat RM 274 Reservoir 1,260 TAF



Temperance Flat RM 274 Reservoir (1,260 TAF)

Temperance Flat RM 274 Dam

Millerton Lake

Friant

Auberry

Prather

County Rd 210

Smalley Rd

Auberry Rd

168

0 0.5 1 2 Miles

Projection: CA State Plane IV NAD83
Base Map Prepared: February, 2007

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Ecosystem Restoration

- **San Joaquin River aquatic species**
 - Enhance San Joaquin River temperature for anadromous fish
 - New storage provides larger cold water pool
 - Temperature control device(s) improve cold water pool management
 - Provide additional releases in critical-low years

- **Delta smelt and other pelagic fish species**
 - Operational integration of new storage with CVP and/or SWP
 - Exchanges with SOD users could improve management of exports
 - Shift SWP/CVP pumping operations to lower fisheries impacts
 - New storage could be filled through exchange during wet years
 - Releases from Upper San Joaquin River storage could decrease Delta export shortages in dry years

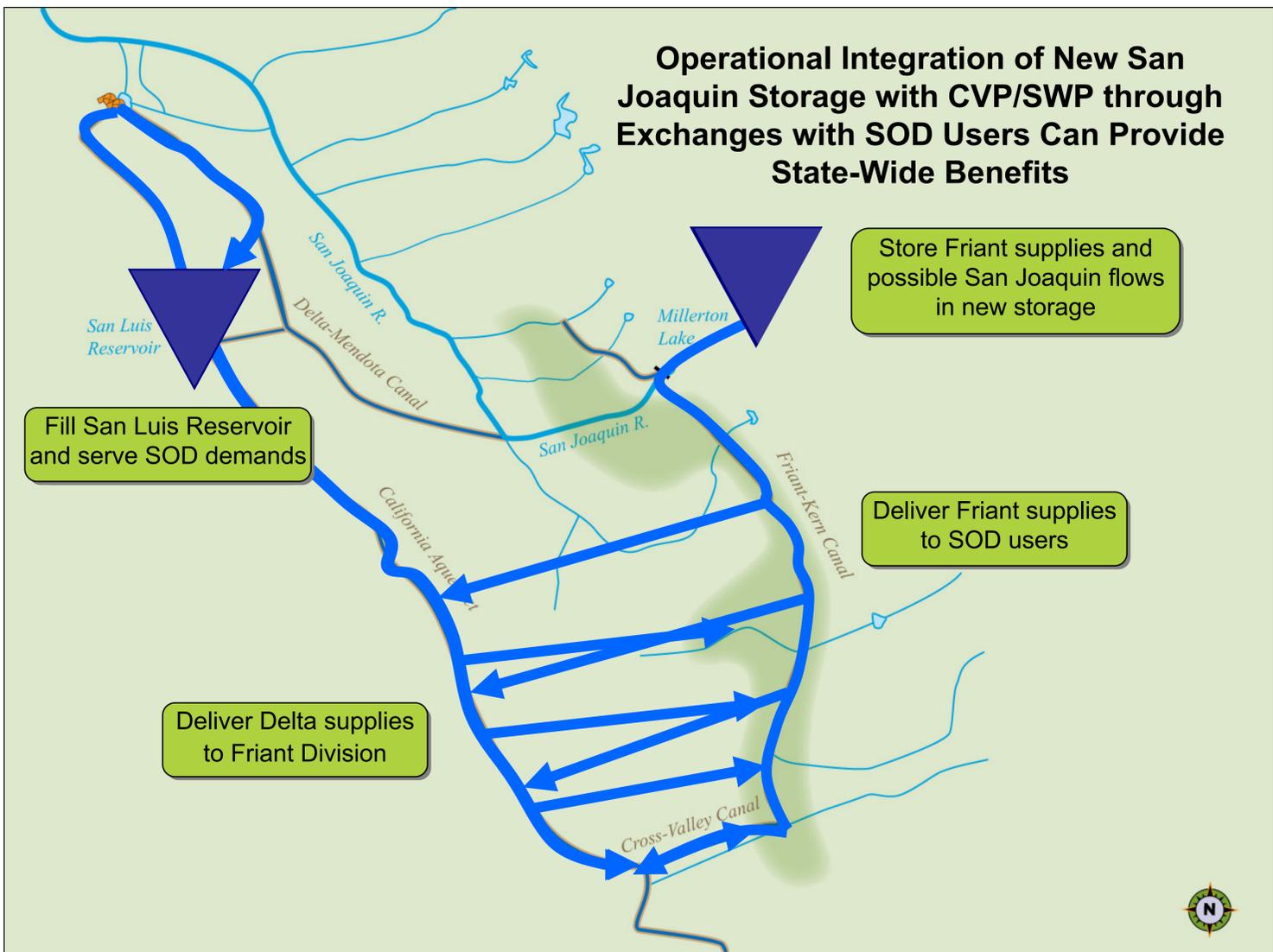
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Delta Emergency Response

- **Secure south of Delta water supply in the event of a catastrophic failure in the Delta**
 - Upper San Joaquin storage could supplement existing sources for Delta emergency response

 - Storage site is located South of the Delta – water would be available for direct delivery

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For Additional Information Contact

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