## Joint Reservoir Committee Authority Board Meeting

Agenda Item 3-3, Confirm Operations Analysis for Revised Draft EIR/Supplemental Draft EIS

February 19, 2021



Draft - Predecisional Working Document - For Discussion Purposes Only

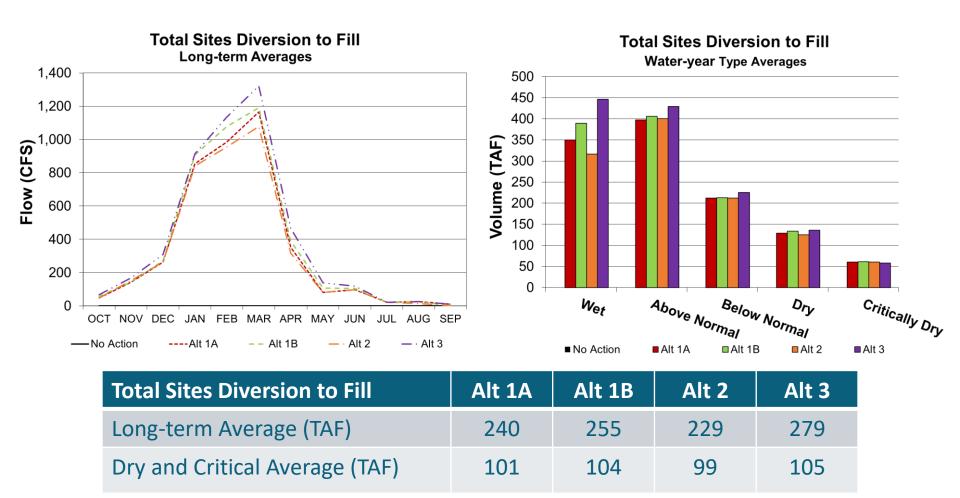


- 1. Last presented results in December
- 2. Change since last update:
  - a. CalSim 2020 Benchmark Baseline
    - i. Created by Reclamation in coordination with DWR and CDFW
    - ii. Includes latest model assumptions for ROC on LTO and SWP ITP
- 3. Results will be used in analysis for EIR/EIS, biological assessment

## **Background: Alternatives**

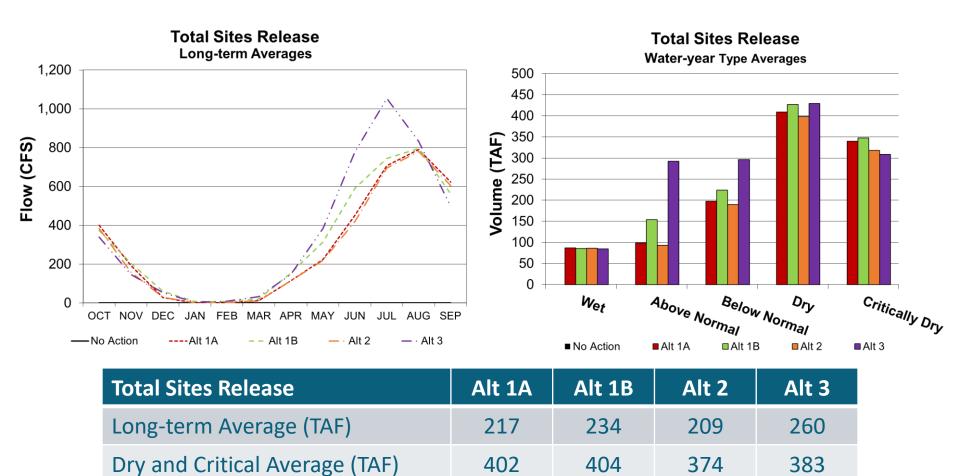
Facilities / Operations	Alternative 1A	Alternative 1B	Alternative 2	Alternative 3
Reservoir Size	1.5 MAF	Same as Alt 1A	1.3 MAF	1.5 MAF
Conveyance Release / Dunnigan Release	1,000 cfs to Colusa Basin Drain	Same as Alt 1A	1,000 cfs to Sacramento River. Partial release to CBD.	Same as Alt 1A
Reclamation Involvement	<ul> <li>Operational exchanges only</li> <li>No funding</li> </ul>	<ul> <li>Funding Partner up to 7% Cost- Share</li> <li>Also includes operational exchanges</li> </ul>	<ul> <li>Operational exchanges only</li> <li>No funding</li> </ul>	Same as Alt 1B, but up to 25% investment
DWR Involvement	Operational Exchanges with Oroville and use of SWP facilities South-of-Delta	Same as Alt 1A	Same as Alt 1A	Same as Alt 1A

### **Results: Diversions**



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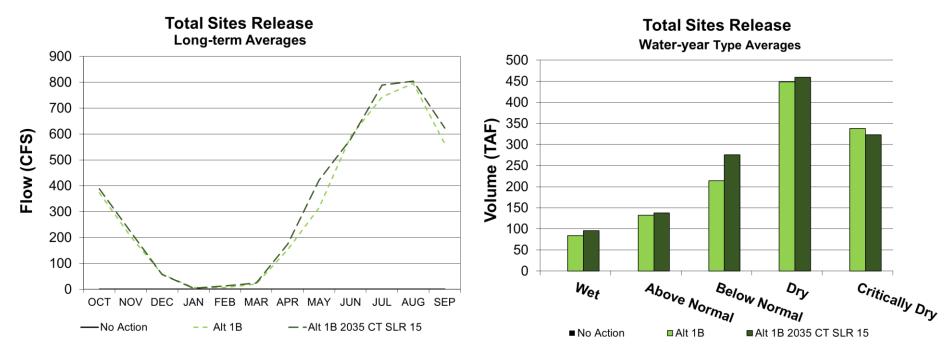
### **Results: Releases**



### **Reservoir Releases – Summary Table**

	Alternative 1A	Alternative 1B	Alternative 2	Alternative 3	Value Planning (VP7)		
Reservoir Size	1.5 MAF	1.5 MAF	1.3 MAF	1.5 MAF	1.5 MAF		
Federal Cost- Share	0%	6.6%	0%	25%	0%		
Releases by Year Type (TAF)							
Wet	87	86	86	85	85-115		
Above Normal	98	154	93	292	255-285		
Below Normal	197	224	190	296	245-275		
Dry	409	427	398	429	355-385		
Critically Dry	340	348	318	308	205-235		
Long-Term Annual Average	217	234	209	260	213-243		

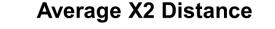
### **Results: Releases Under Climate Change**

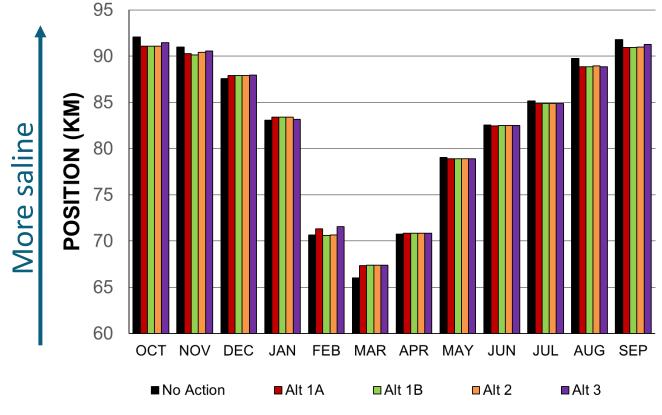


Total Sites Release	Alt 1B	Alt 1B 2035CT SLR15
Long-term Average (TAF)	234	250
Dry and Critical Average (TAF)	404	405

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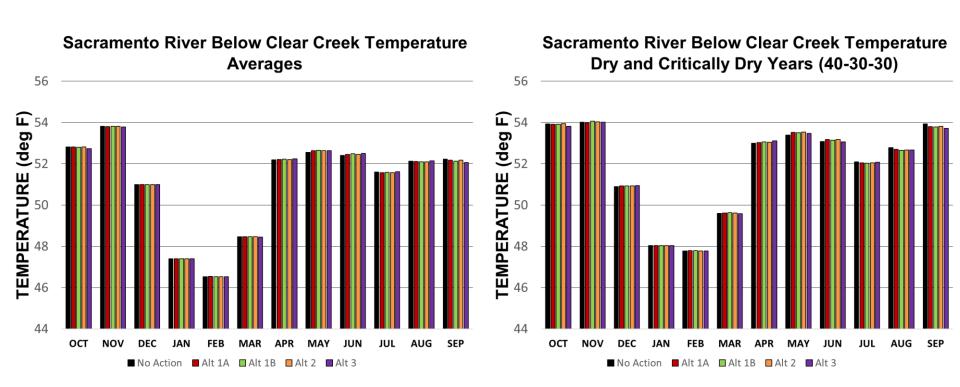
### **Results - Delta Water Quality X2**





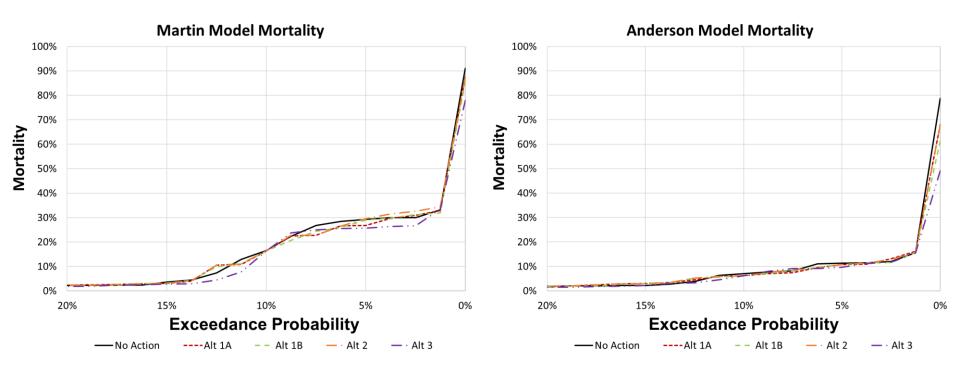
#### Improving salt conditions when salt content is at its highest

### **Results – Sacramento River Temperature**



#### Minimal changes to River temperature due to pumping

### **Results – Fisheries - Mortality**



#### Improvements above the No Action Alternative in high mortality conditions

### **Next Steps**

- Other models:
  - Power
  - Reservoir temperature
  - Further updates with Alt 3
- Deliveries by participant by year type
  - Work with participants on operating assumptions
- Run analysis under 2030 and 2070 WSIP hydrology for CWC Feasibility
- Use updated cost estimate and operating options to develop a range of costs per acre-foot
- Work with permitting agencies to discuss possible areas of concern

# **Questions?**



