

Overview of the Sites Project and Rationale for Migration to CalSim 3

Reed Thayer, PE

Jacobs

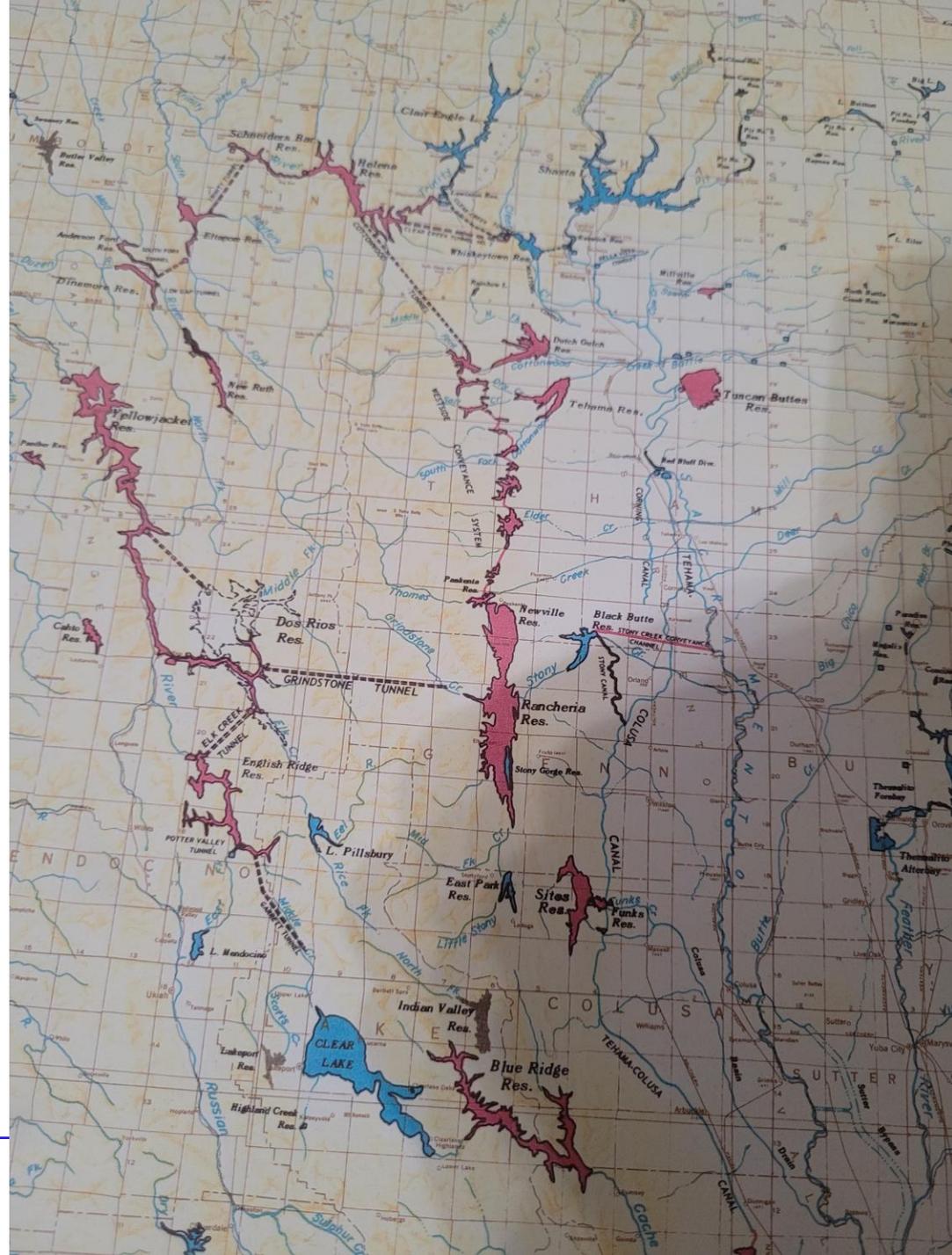
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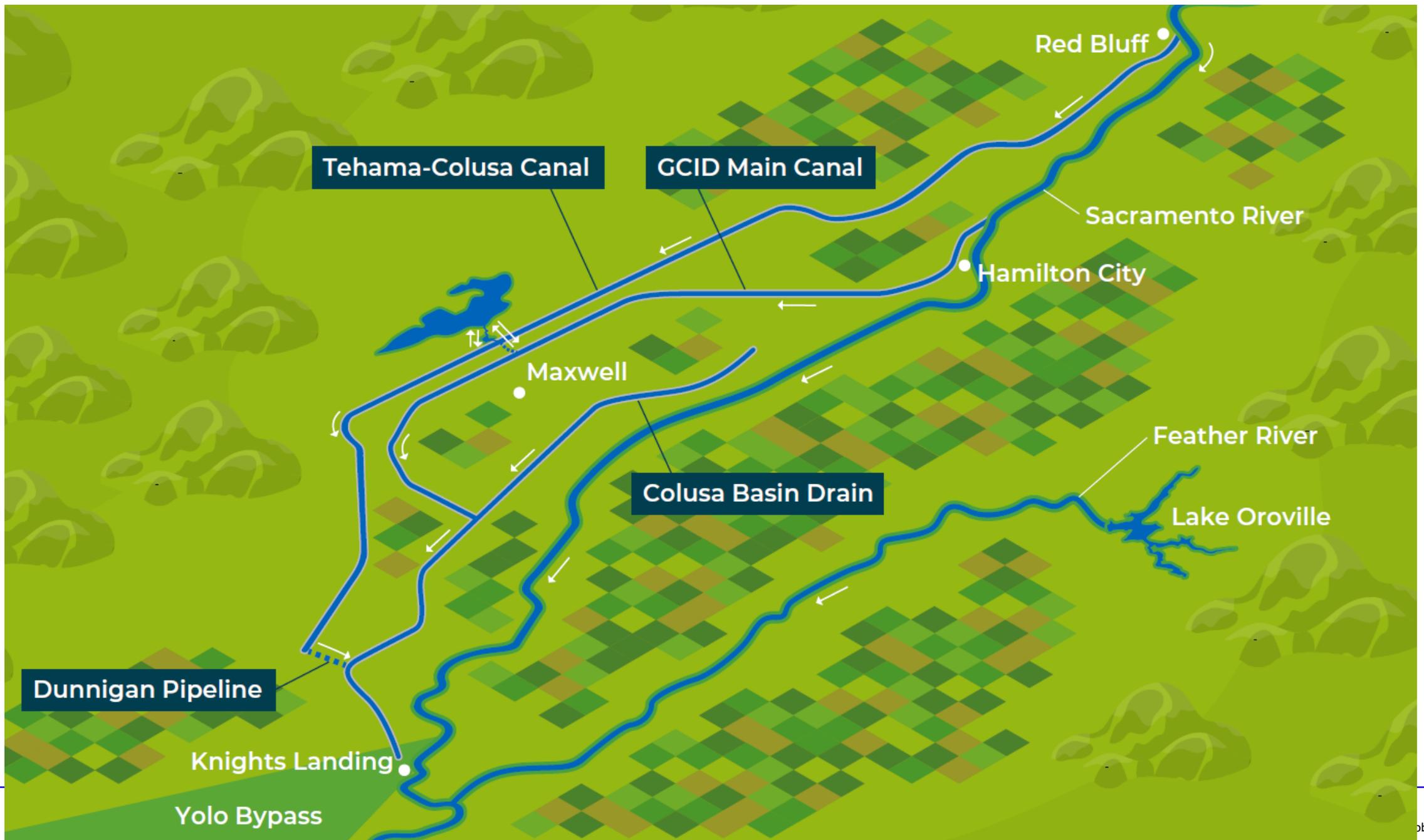
This is a work in progress. All slides, figures, tables, and information is draft and pre-decisional but is presented with permission from the Sites Project Authority.

- Project Overview
- Work so far
- Why CalSim 3?

Project Overview



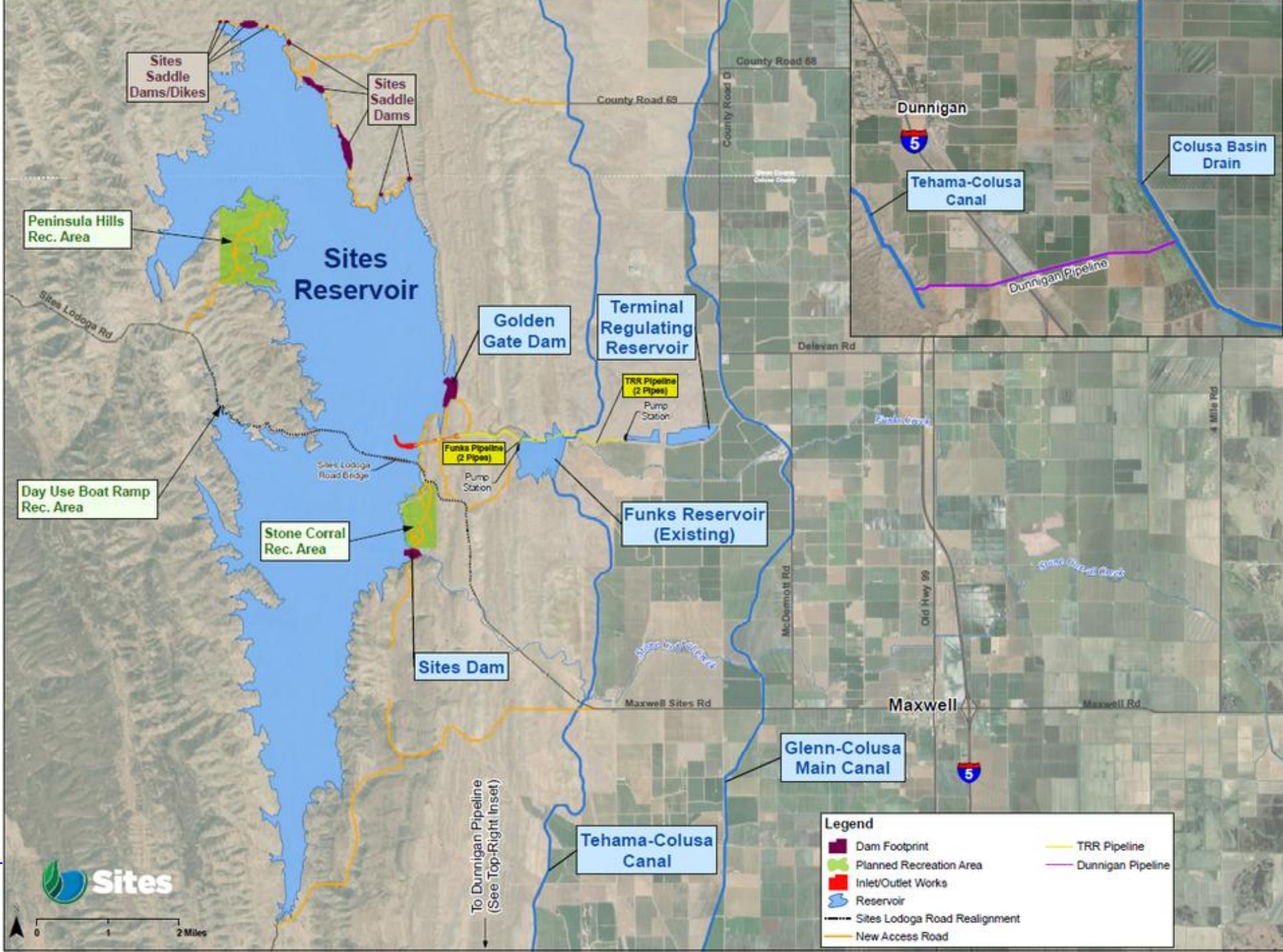




Sites Project

- 1.5 MAF offstream reservoir
- Will be owned and operated by the Sites Project Authority
- State and Federal participation

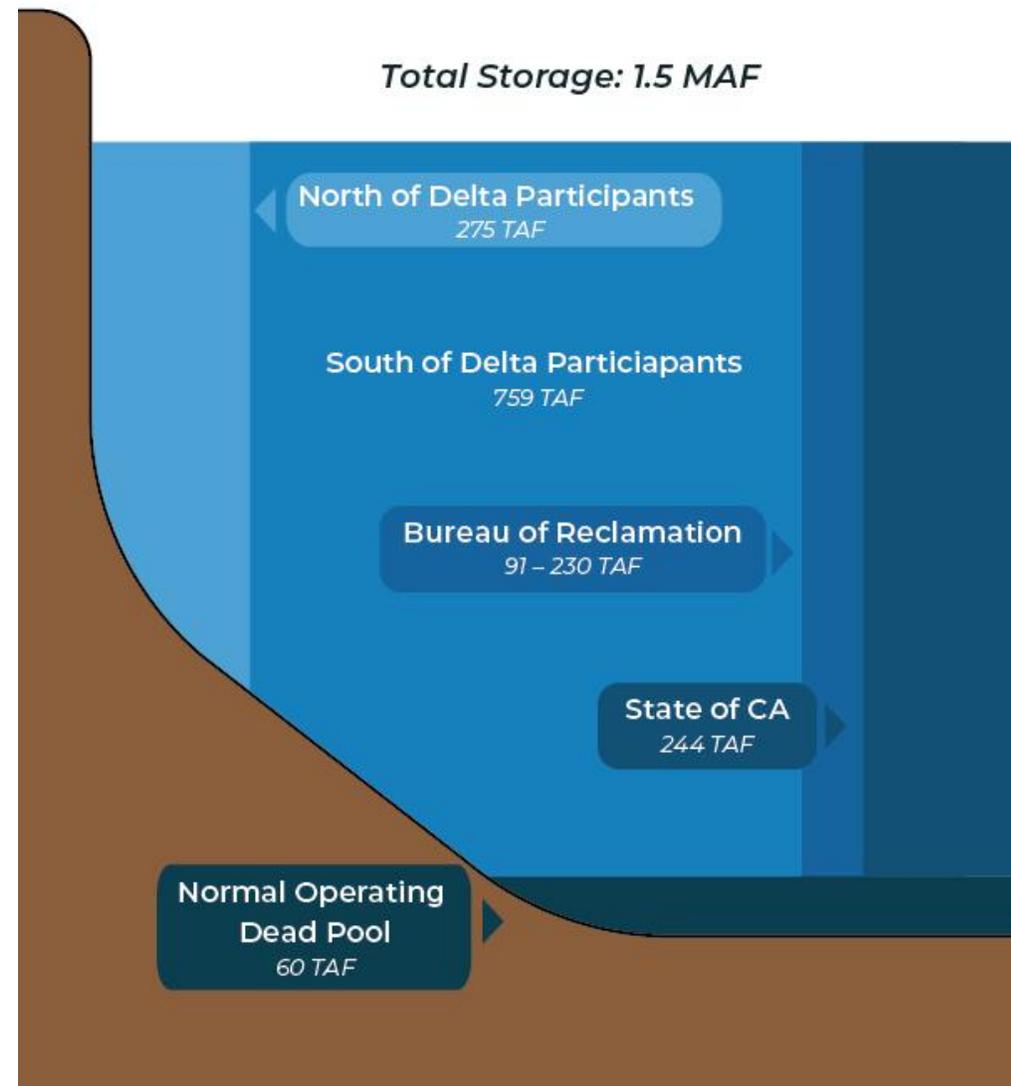




To Dunnigan Pipeline
(See Top-Right Inset)

Legend

- Dam Footprint
- Planned Recreation Area
- Inlet/Outlet Works
- Reservoir
- Sites Lodoga Road Realignment
- New Access Road
- TRR Pipeline
- Dunnigan Pipeline



Proposition 1 Water Storage Investment Program: Funding the Public Benefits of Water Storage Projects

Proposition 1 of 2014 dedicated \$2.7 billion for investments in water storage projects. The California Water Commission is administering the Water Storage Investment Program (WSIP) to fund the public benefits associated with these projects.

WSIP

Take a visual tour of the Water Storage Investment Program

In July 2018, the Commission made maximum conditional eligibility determinations (MCEs), which is the amount of Proposition 1 funding available to a given project, for eight projects. The projects range from expanding existing reservoirs to boosting groundwater storage to building 21st century surface storage facilities. Since July 2018, two projects withdrew from the WSIP and the Commission adjusted the remaining projects' MCEs. The remaining projects collectively would boost California's water storage capacity by 2.65 million acre-feet.

Through a rigorous selection process, the Commission chose the eight projects based on the public benefits their projects will provide, such as flood control, ecosystem improvement, water quality improvement, emergency response and recreation. Applicants must now complete the remaining Proposition 1 requirements, including final permits, environmental documents, contracts for the administration of public benefits, and commitments for non-Proposition 1 funding.

Throughout this process, the Commission will continue to meet with the applicants, state agencies and interested parties to review the status of each project. Once an applicant has obtained all the necessary permits, documents and contracts, the Commission will hold a final award hearing.

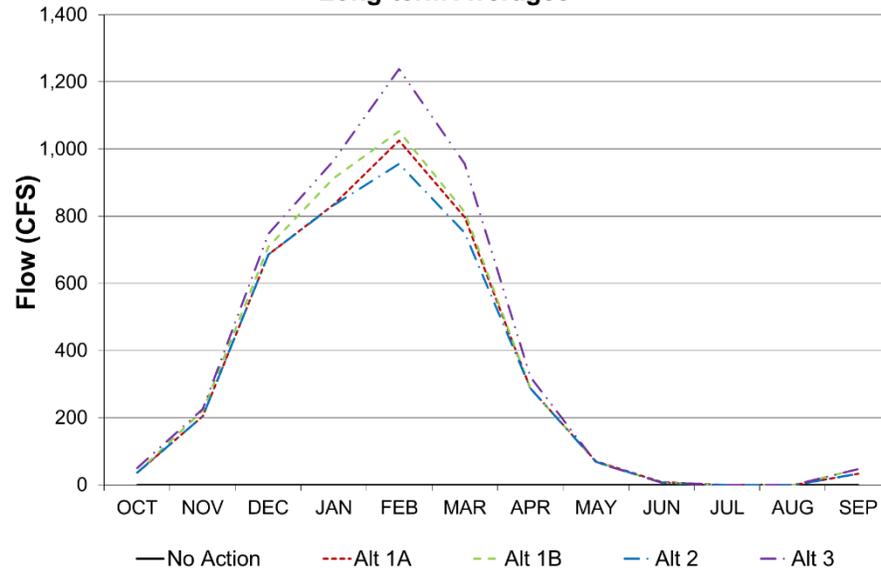
Operations

- Public Water Agencies (PWA)
 - North of Delta
 - Ag Service Contractors
 - Settlement Contractors
 - South of Delta
- CVP Operational Flexibility
- Public Benefits (WSIP)
 - Yolo Bypass Augmentation Flows
 - CVPIA Level 4 Refuge Deliveries

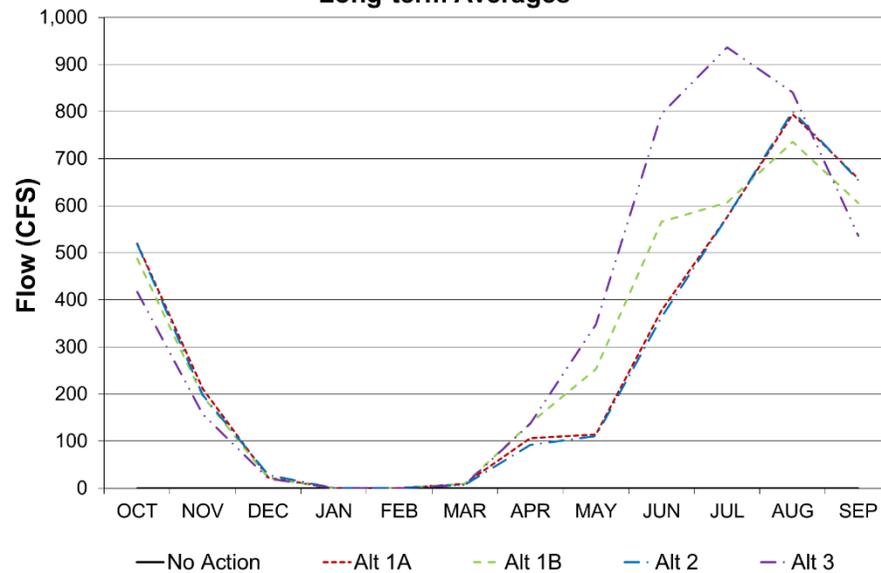
Diversion Criteria

Sites Modeling Diversion Criteria	
Sites Storage Capacity	1.5 MAF
Red Bluff diversion capacity	2,100 cfs
Red Bluff Bypass	3,250 cfs
Hamilton City diversion capacity	1,800 cfs & variable winter capacities
Hamilton City Bypass	4,000 cfs
GCID Main Canal maintenance	Last week in Jan, first week in Feb
Wilkins Slough Bypass	10,930 cfs
Balanced Conditions	No diversions when Delta is in Balanced conditions
Fully Appropriated Streamflow	No diversion from Jun 15 to Aug 31
Flow Dependent Diversions	Diversions limited by flow at Bend Bridge and Hamilton City (per Section 9.14 of the Sites Ops ITP)
Near Excess conditions	Limit diversions to not use first 3,000 cfs of Surplus Delta Outflow
Shasta Spring Pulse	Limit diversions in months with Shasta releases for Spring Pulse objectives

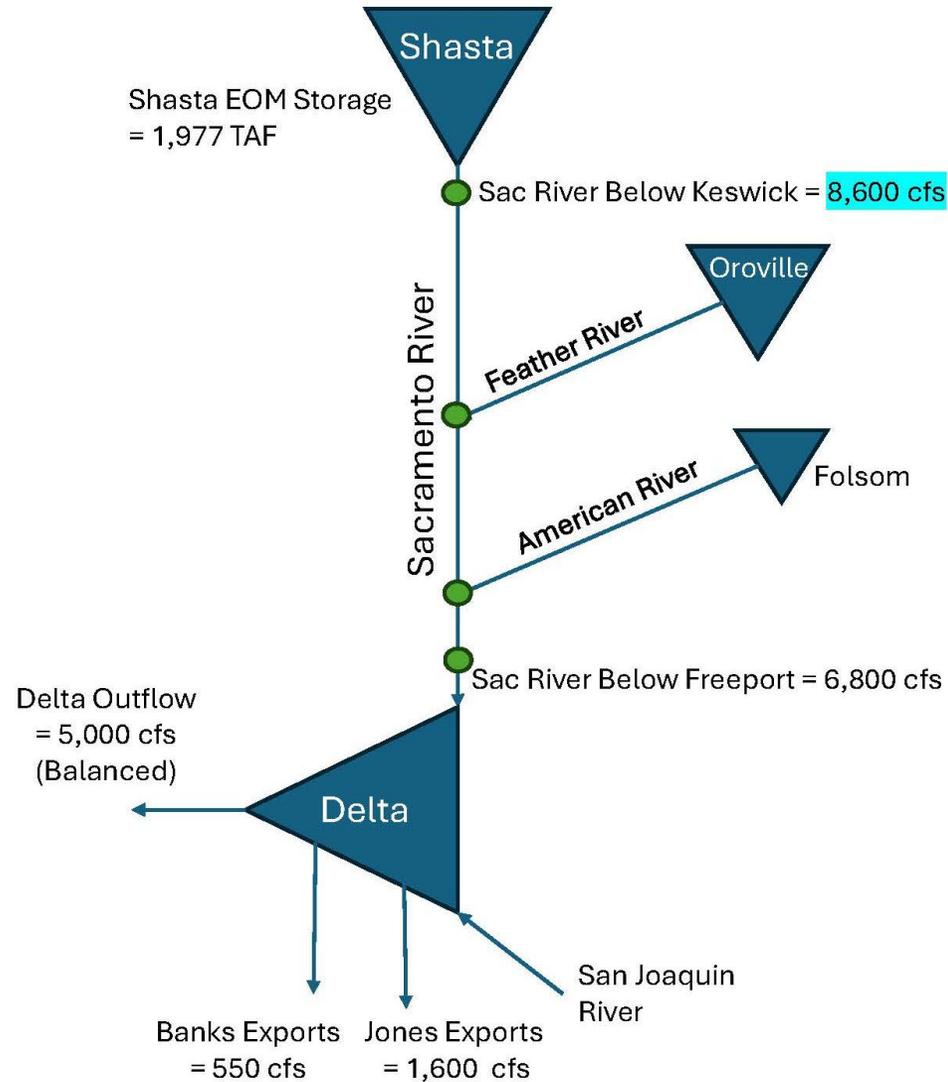
**Total Sites Diversion to Fill
Long-term Averages**



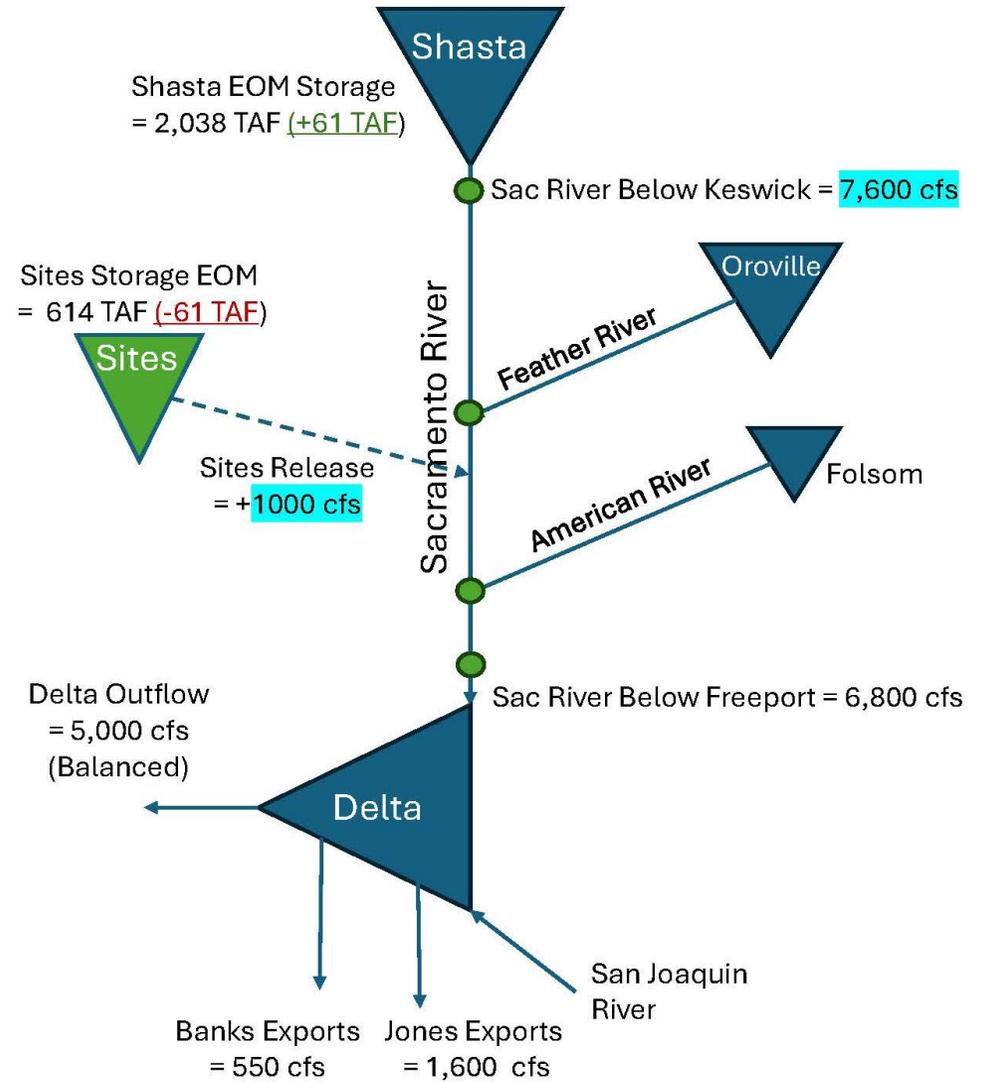
**Total Sites Release
Long-term Averages**



Shasta Operations (No Sites Reservoir)



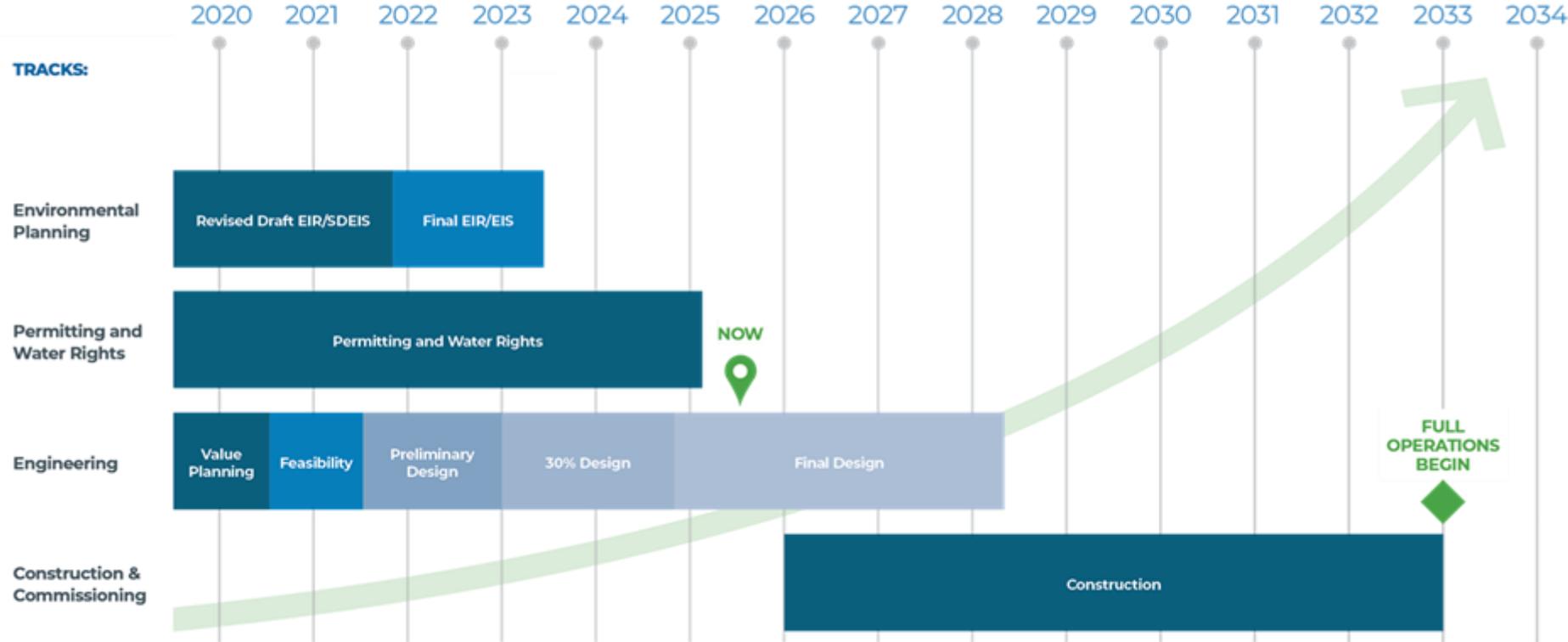
Shasta Operations (With Sites Reservoir Exchange)



Note: This is a depiction of a month-long exchange example. Flows shown as cubic feet per second (cfs) are monthly average. Change in storage at reservoirs are difference between end of month storage and first day of month storage.

Project Schedule

Sites Reservoir Project Schedule



Modeling work so far

- 2017 – Draft EIR/EIS
- 2017 – WSIP Application
- 2021 – Revised Draft EIR/EIS
- 2023 – Final EIR/EIS
- 2024 – ITP
- 2025 – Biological Assessment
- Water Rights
- Value Planning
- Member Collaboration
- Design Support

Why CalSim 3?





Acknowledgements

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 - Ali Forsythe
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Reed.Thayer@jacobs.com

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Reinventing tomorrow.

