

Topic: Reservoir Committee Agenda Item 1-4 2017 Dec 21

Subject: California Water Commission Meeting – December 13,

2017

Requested Action:

Informational with possible direction to staff.

Detailed Description/Background:

At its December 13, 2017 meeting, the California Water Commission heard presentations from the 11 applicants for the Proposition 1 WISP program. The Sites Project Authority made a presentation.

The meeting agenda and a copy of the Sites Project presentation can viewed at the following link: https://cwc.ca.gov/Pages/2017/12 December/Agenda.aspx

A recording of the webcast of the meeting can be viewed at the following link: Webcast with the 15-min Sites Project presentation starting at 2:52:20 followed by responses to Commissioner's comments, public comments, and Authority's closing remarks.

On December 14, 2017, the California Water Commission continued the business portion of their monthly meeting, which included agenda items 13 (status) and 14 (Maximum Conditional Eligibility Determination) related to the WSIP.

Prior Reservoir Committee Action:

Recommendation to submit the application on or before the August 14, 2017 deadline.

Fiscal Impact/Funding Source:

None.

Staff Contact:

Jim Watson

Attachments:

Attachment A - Sites Presentation.

Status:FinalPreparer:SpesertPhase:1Version:APurpose:Sites Project Authority Staff ReportChecker:Date:2017 Dec 18Caveat:InformationalQA/QC:Ref/File #:(TBD)Notes:Page:1of1



California Water Commission

December 13, 2017



PROPOSITION 1:

A ONCE-IN-A-LIFETIME OPPORTUNITY

Sites:

- ✓ A New water management tool
- √ 40% of reservoir's capacity dedicated to improve the ecological health of the Delta
- ✓ Prop 1 water controlled by State's Resource Managers
- ✓ Stores water to ameliorate drought conditions



California Needs Sites Reservoir

\$122 MILLION in annual public benefits

The Sites Reservoir

Delivers about **441,000** acrefeet of water per year to California's water system for...



Drinking Water



Irrigation



Enhanced Water Quality



Flood Management



New Recreational Opportunities



Renewable Energy



Climate Change Resiliency



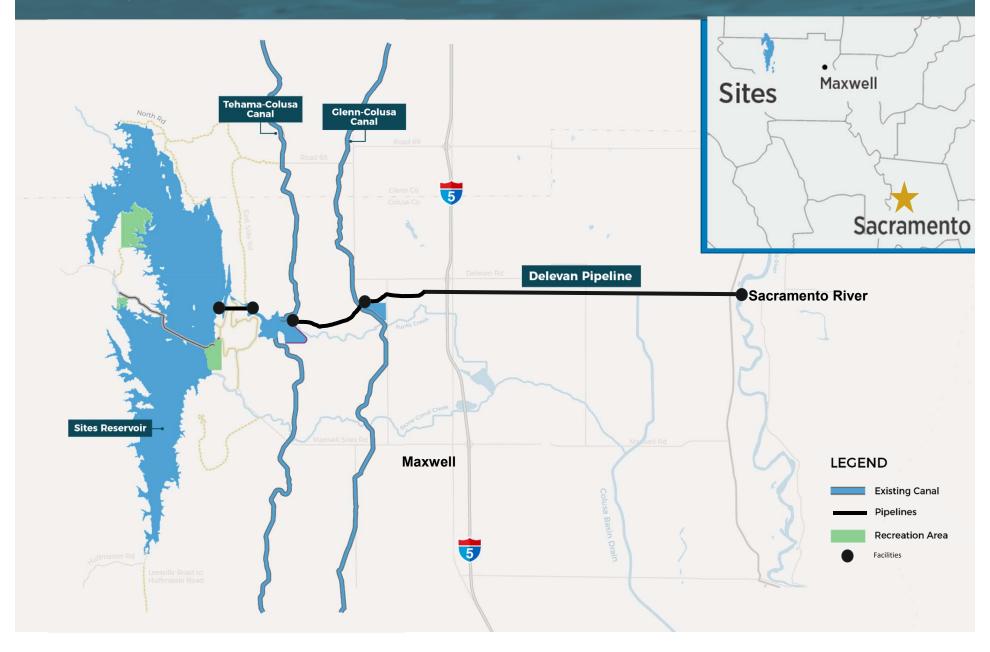
Ecosystem Improvements

Proposition	Annual Benefits (\$M)			
	Ecosystem Improvement	\$ 111		
	Water Quality	~		
	Recreation	\$7		
	Flood Damage Reduction	\$4		
	Emergency Response	~		
Proposition 1 Non-Eligible Benefits (in \$M)				
	Water Supply	\$175		
5	Hydropower	\$19		
Total Monetized Benefit Annually \$317				
PUBLIC BENEFIT RATIO: 2.1 to 4.5				

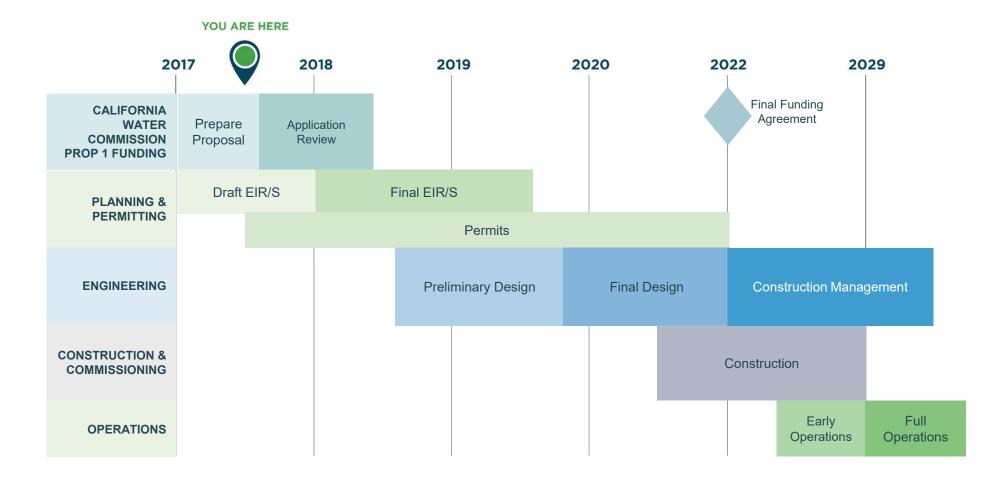
Project Operator & Partners



Project Location & Facilities



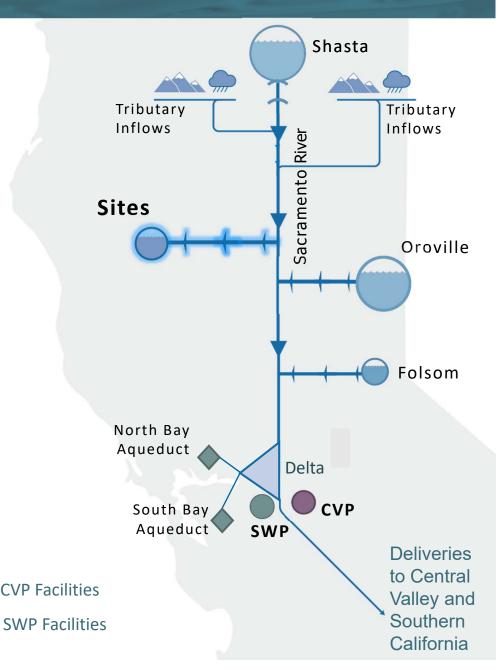
Schedule



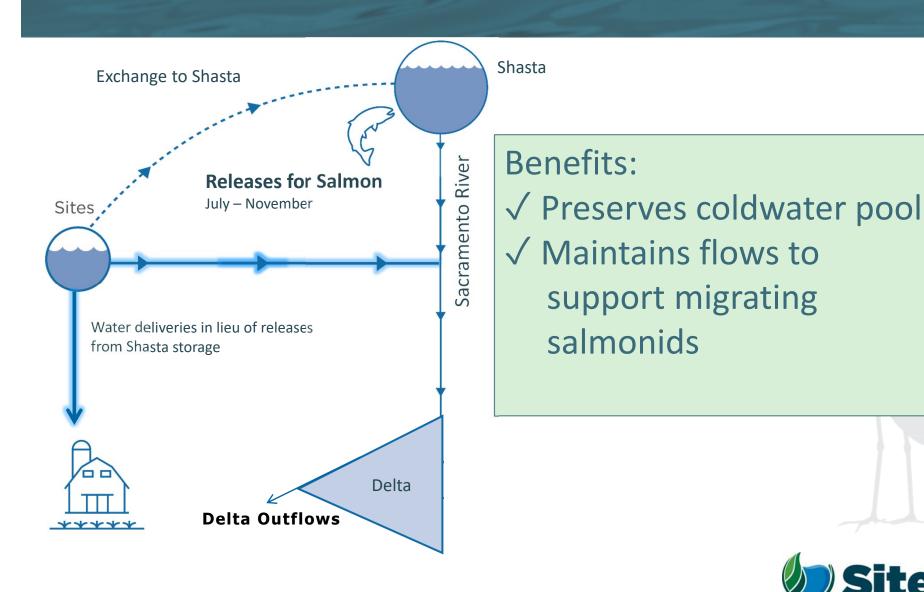


Added Flexibility to California's Water System

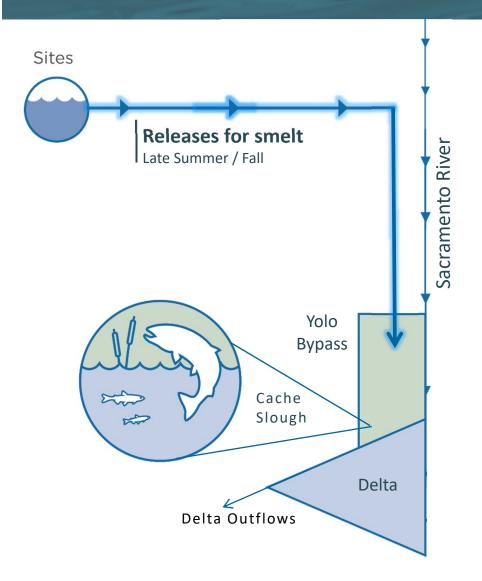
- ✓ Benefits the entire California water management system
- ✓ Diverts Sacramento River water high in the watershed, from tributaries below Shasta, by capturing flows from storm events
- ✓ Integration with water system increases operational flexibility and improves water deliveries to communities, farms and the environment especially in drier water years



Benefits of Cooperative Operations to Salmon



Benefits of Cooperative Operations to Delta Smelt



Benefits: Provides flows to Yolo Bypass/Cache Slough to support Delta smelt



State Investment in Public Benefits

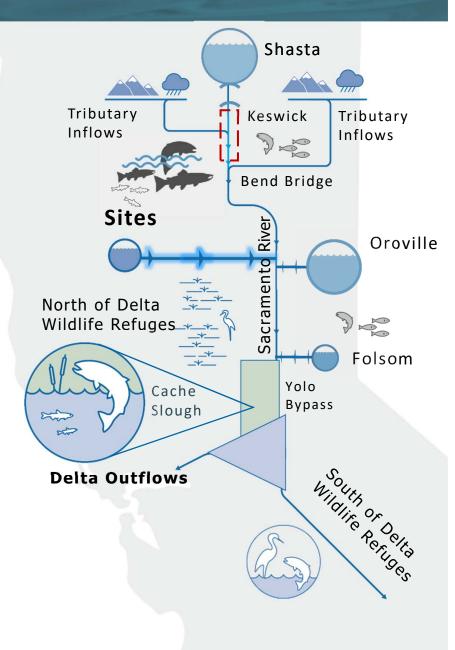
Winter-run chinook: increases cold water pool (especially in drier years) in Shasta and decreases summer/fall water temperature in the Sacramento River

Spring-run chinook: decreases summer/fall water temperature in the Sacramento and Feather rivers

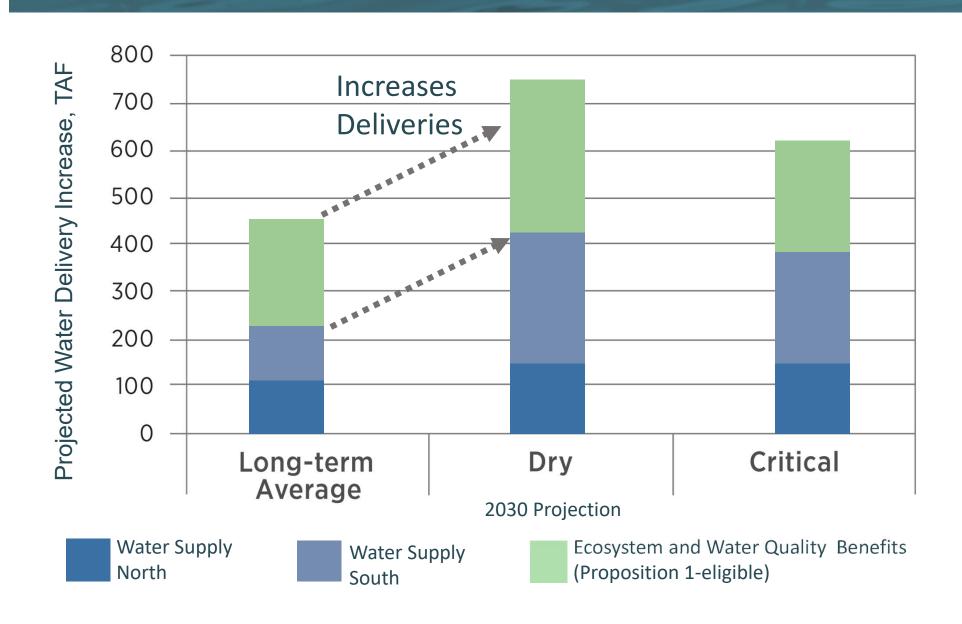
Fall-run and Late Fall-run chinook: improves fall flow stability in Sacramento, Feather and American rivers

Delta smelt: provides summer-fall pulse flow to Cache Slough for phytoplankton-zooplankton food

Waterfowl: augments incremental Level 4 water supply



Reliability: Greater Deliveries in Dry Years



SITES WORKS

- ✓ State management and control of **public benefit water**
- ✓ Up to 40% of usable storage capacity **dedicated to public benefits**
- ✓ Public benefits **increase in drier years**
- ✓ Provides management tool to flexibly adapt to uncertain future
- ✓ Delivers water for the **environment when it's needed most**



WATER FOR THE ENVIRONMENT, FAMILIES, FARMS AND BUSINESSES

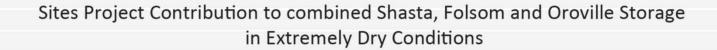


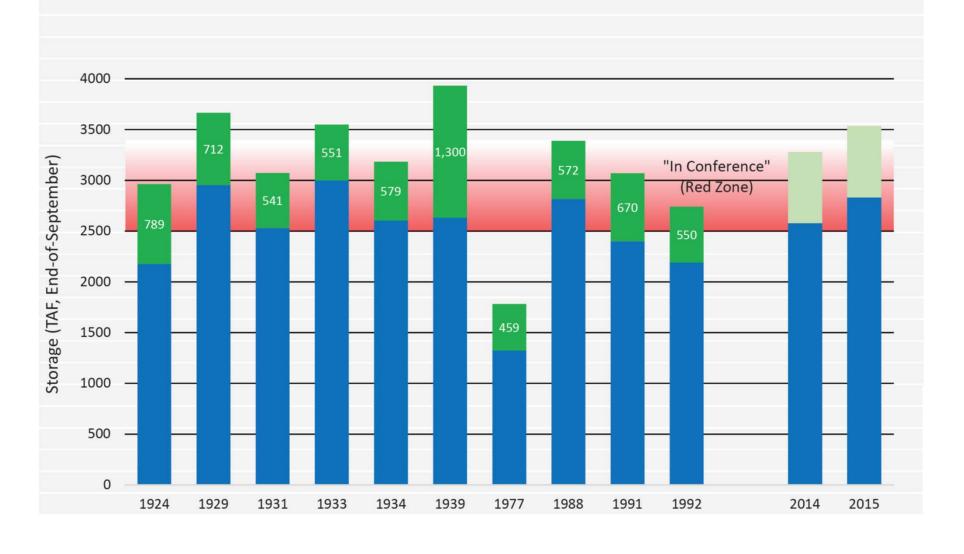
References

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15 - 17			Uncertainty Analysis & Hydrology

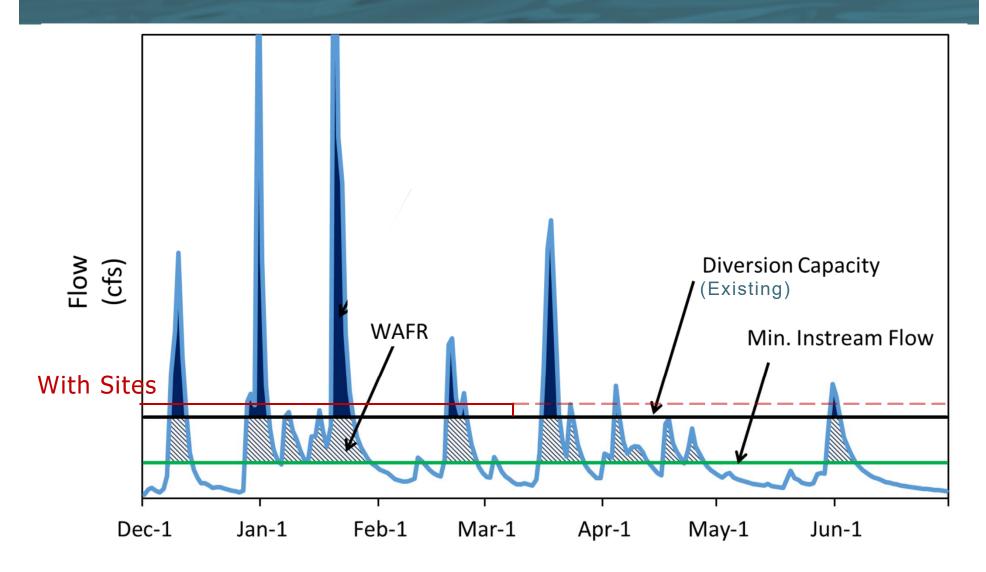


Drought Resiliency





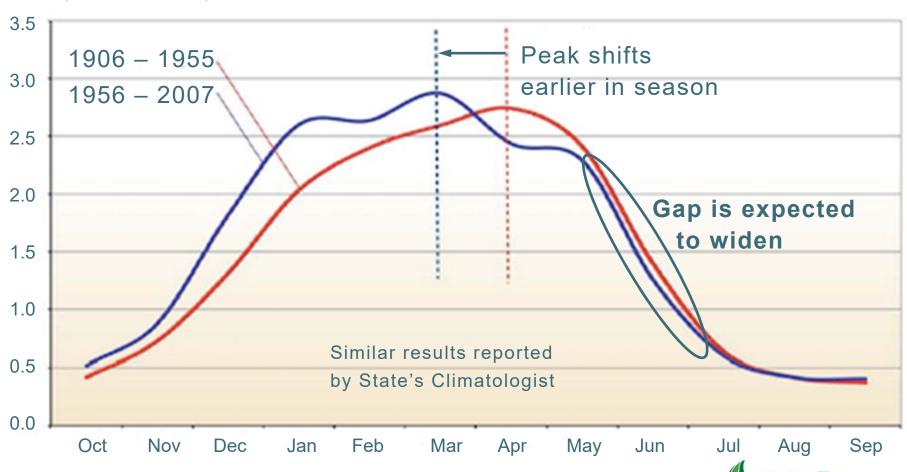
Diversions into Storage



Source: Adapted from DWR System Reoperation presentation to Water Commission (2017 Sept 20)

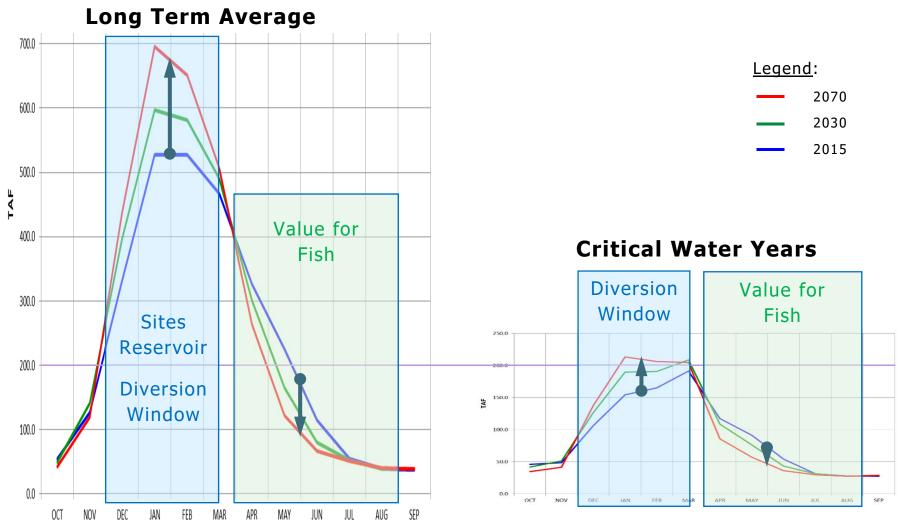
Effects of Changing Climate to Sacramento River

Runoff (million acre-feet)



Source: California Landscape Conservation Cooperative Climate Commons

Comparative Climate-Forecast Hydrology



Water Year Classification: SAC 40-30-30

Source: CA Water Commission's Water Storage Investment Program's CalSim model with proposed Sites Reservoir