The meeting teleconference will begin shortly

Listen to the meeting by using your computer or tablet speakers or by calling (877) 853 5247 using meeting ID 979 215 700

View the live meeting presentation at https://sbvmwd.zoom.us/j/979215700
PASSCODE: 3802020

Public comments, suggestions or questions regarding technical issues may be emailed to comments@sbvmwd.com



Please use the chat feature in the Zoom toolbar to let the moderator know that you would like to make a comment during the meeting or use the digital "raise hand" b function in Zoom.



Please mute your microphone during the meeting to reduce background noise. Click on the microphone icon to unmute your microphone if needed.



Call to Order

Board of Directors Workshop - Resources Thursday, October 7, 2021

Chairperson – Director Hayes Vice-Chair – Director Harrison



Introductions

Following the introduction of Directors and District staff, participants may use this time to state their name and agency/affiliation in order to be included in the formal record of attendees.



Public Comment

Any person may address the Board on matters within its jurisdiction.

• Please use the chat feature on the Zoom toolbar or digitally raise your hand to let the moderator know you would like to make a comment.



Summary of Previous Meeting (Pg. 3)

Board of Directors Workshop – Resources – September 2, 2021



Discussion Item 4.1 (Pg. 9)

Bob Tincher, PE, MS – Chief Water Resources Officer/Deputy GM

Consider Agreement to Allow Inclusion of Sites Reservoir Costs on the State Water Project Statement of Charges

Staff Recommendation

Authorize staff to place this agreement on an upcoming Board of Directors agenda for consideration.

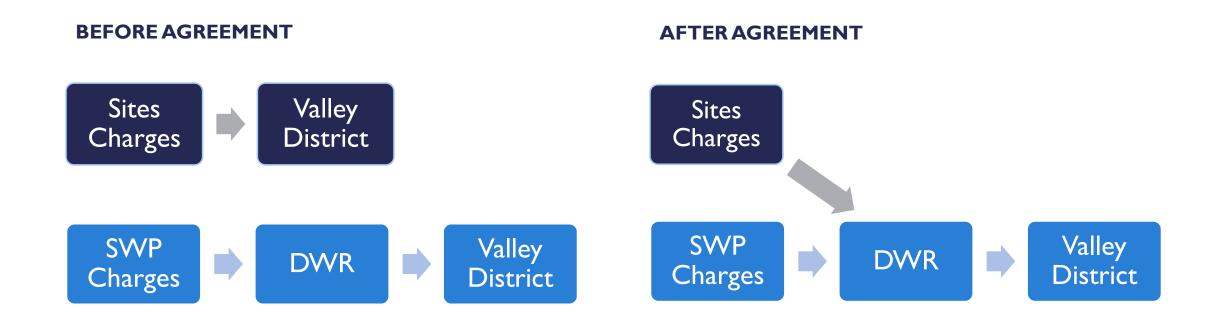
Sites Reservoir is an Extension/Enhancement of the State Water Project

Sites would not be feasible for Valley District without the existing SWP facilities to transport the water.





Proposed Agreement





Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



T. Milford Harrison Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Authorize staff to place this agreement on an upcoming Board of Directors agenda for consideration.



Discussion Item 4.2 (Pg. 25)

Bob Tincher, PE, MS - Chief Water Resources Officer/Deputy GM

Presentation of the Results from the Study to Determine Whether Spills from the Big Bear Valley Water Sustainability Project Can Be Captured by the Enhanced Recharge Project

Staff Recommendation

Receive and file



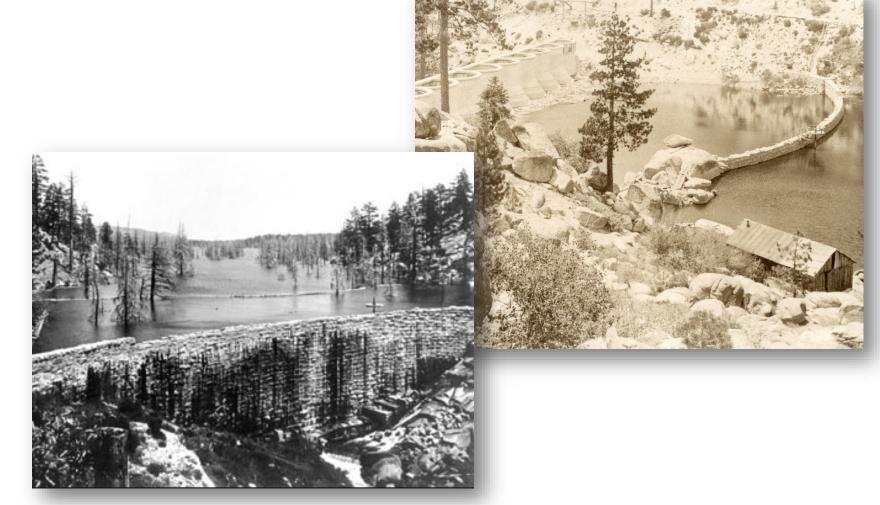
Evaluating Valley District Benefit from the Replenish Big Bear Project

Big Bear Lake

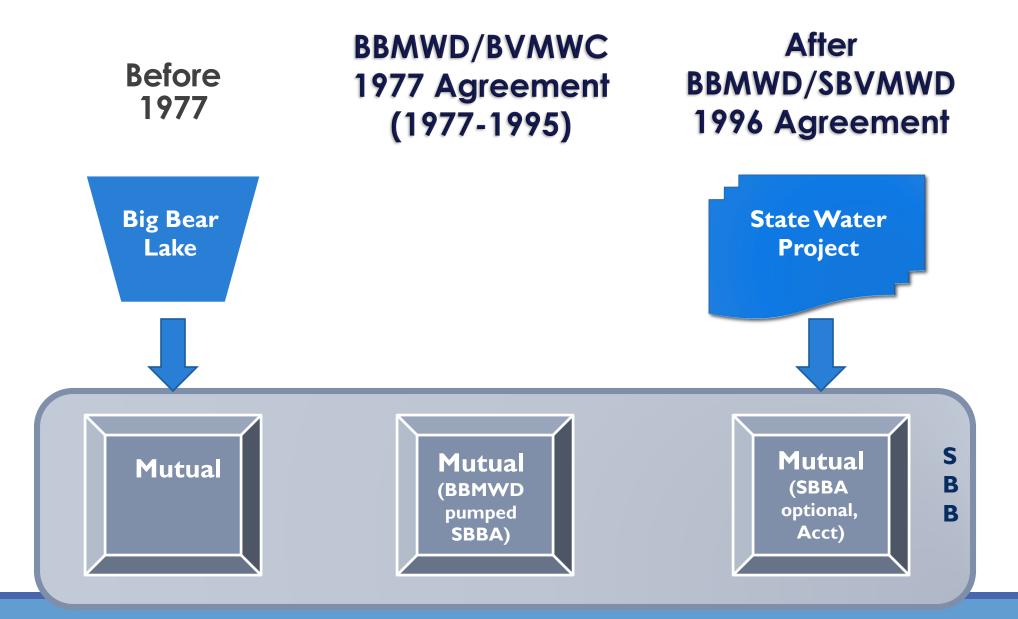
Dam constructed by Bear Valley Mutual Water Company (Mutual) in 1885.

Big Bear MWD purchased Bear Valley Dam and the right to deliver Mutual another source of water instead of, or "in-lieu" of, lake releases (1977).

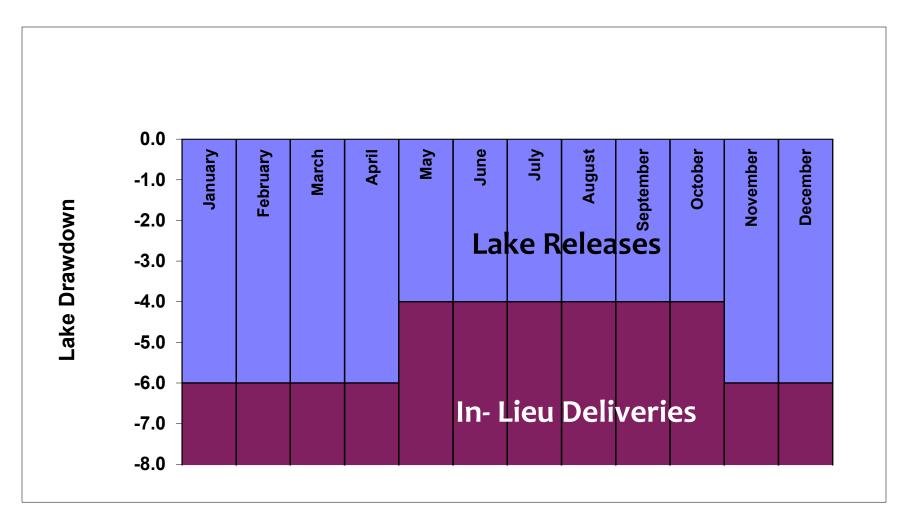
Big Bear MWD agrees to purchase SWP water from Valley District to deliver to Mutual (1996)



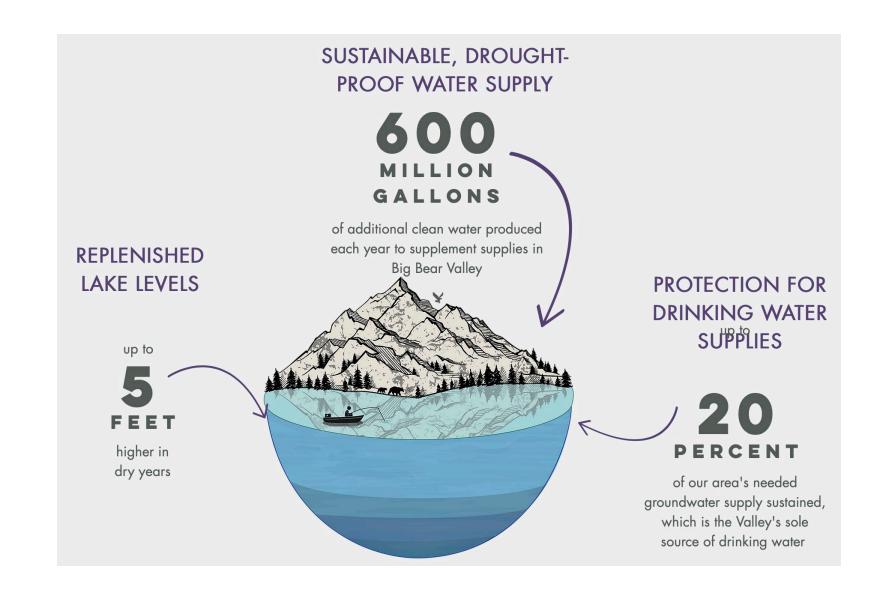
BBMWD Goal: Reduce releases from Big Bear Lake

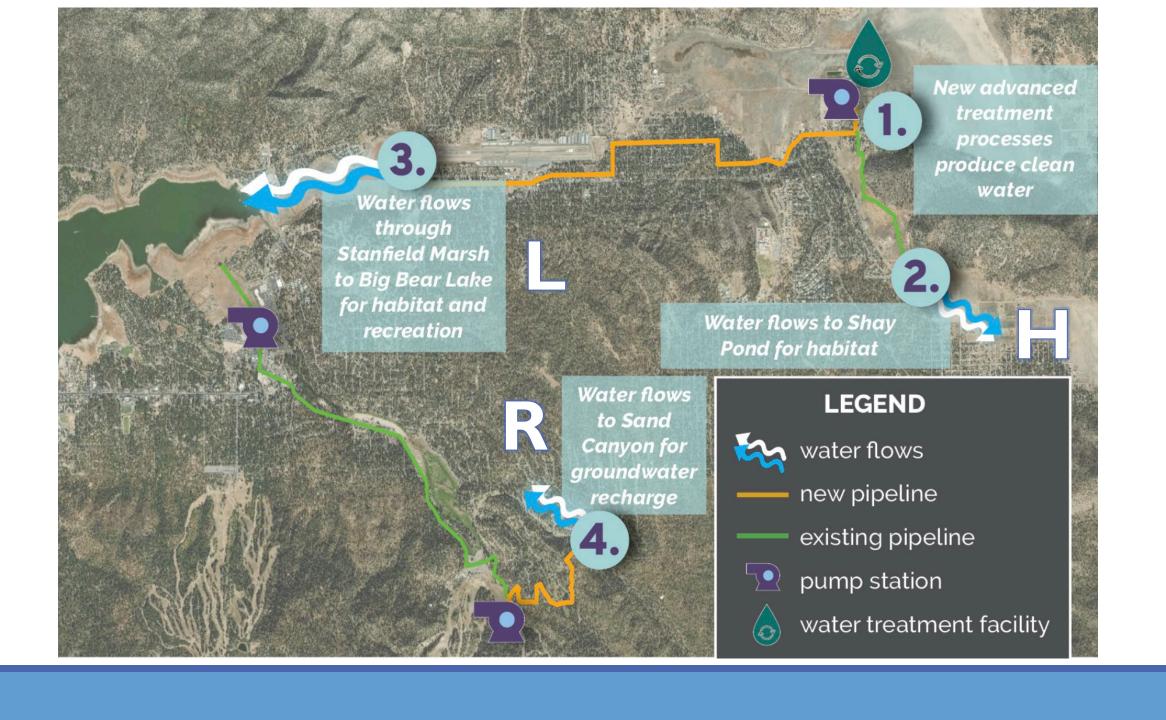


Lake Release Policy



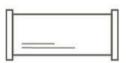
Replenish Big Bear





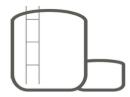
Proposed infrastructure upgrades

Federal and state funding is being pursued to make the necessary improvements to provide Big Bear Valley with a reliable, high quality water source. Proposed infrastructure improvements include:



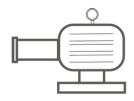
NEW & EXTENDED PIPELINES

New pipeline and extensions to existing pipeline will be constructed to deliver water to Shay Pond, Stanfield Marsh, and Sand Canyon.



WASTEWATER TREATMENT FACILITY UPGRADES

Upgraded advanced water treatment technology will purify water to exceed the highest water quality standards.



NEW PUMP STATION

Two new pump stations will direct purified water to Shay Pond and Stanfield Marsh.

Schedule

FINAL DESIGN COMPLETE

Complete final design details to start construction.



2024

CONSTRUCTION & STARTUP

Upgrades to the treatment plant and supporting infrastructure will be constructed and tested during a start up period.

CONSTRUCTIO N COMPLETE

Start discharging high-quality water to Big Bear Lake and Shay Pond! 2025



Will the project benefit the Valley District service area?

Valley District Funded a Study to Evaluate the Possible Benefits

The Board authorized this study in February 2019

Evaluate Spills from Big Bear Lake

Summary Report

Prepared for:

San Bernardino Valley Municipal Water District

June 30, 2021



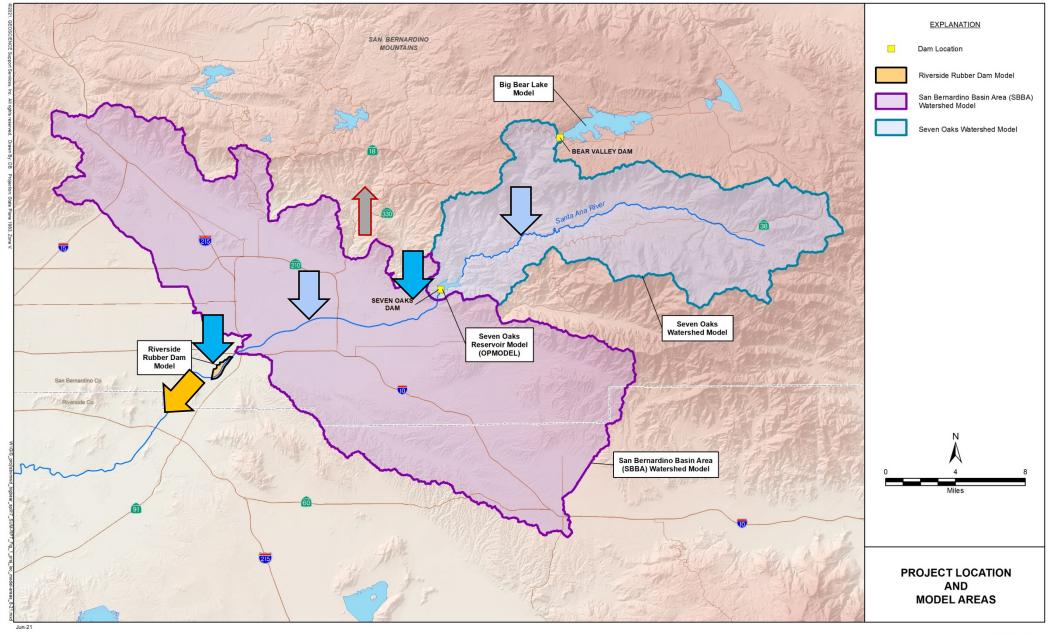
GEOSCIENCE Support Services, Inc. | P (909) 451-6650 | F (909) 451-6638 620 Arrow Highway, Suite 2000, La Verne, CA 91750 | Mailing: P.O. Box 220, Claremont, CA 91711

www.gssiwater.com



Scope of Work

- Task I Develop Model
- Task 2 Estimate lake release and benefits without Project
- Task 3 Can the proposed Valley District stormwater capture program (Enhanced Recharge and Rubber Dam) capture the additional release amounts with the Project?
- Task 4 If all spills are not captured, explore Lake Release Schedules that would enable Valley District to capture as much of the spills as possible
- Task 5 Prepare Final Report
- Task 6 Project Management and Meetings





Lake Operating Rules

Description	Water Supply (BVMWC)	Environment (Fish)	Public Safety (Flood Control)	Releases in Dry Years to Maximize Recharge
Current (in use today)	X	X	X	
Option - Revised	Same	Same	Eliminate drawdown requirements in dry years	
Option - Optimized	Builds on Current or Revised, see Alternatives			X



Alternatives

Operational Alternatives	Lake Operating Rules	Project Alternative Assumption	
P1 - Project Alternative 1	Current	• 2,000 acre-ft per year of reclaimed water into the Lake (Stanfield Marsh)	
P2 - Project Alternative 2	Current	 2,000 acre-ft per year of reclaimed water into the Lake (Stanfield Marsh) 120 acre-ft per year of lake withdrawals for golf course irrigation as indirect recharge 	
P3 - Project Alternative 3B	Current	 80 acre-ft per year of reclaimed water to the Stickleback Pond 1,920 acre-ft per year of reclaimed water into the Lake (Stanfield Marsh) 120 acre-ft per year of lake withdrawals for golf course irrigation as indirect recharge 	
P4 - Project Alternative 4	Revised	 80 acre-ft per year of reclaimed water to the Stickleback Pond 1,920 acre-ft per year of reclaimed water into the Lake (Stanfield Marsh) 120 acre-ft per year of lake withdrawals for golf course irrigation as indirect recharg 	

Current Facilities, No Enhanced Recharge or Riverside North Aquifer Storage and Recovery Project

Diversion rate: 200 cfs

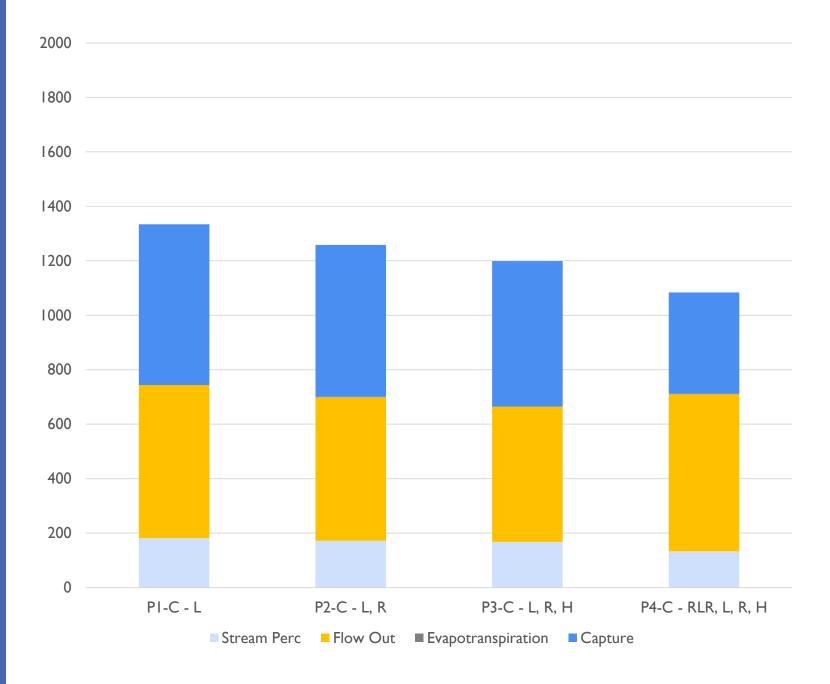
H = Habitat

L = Flow to the Lake

R = Recharge in Big Bear area

RLR = Revised lake operating rules





New Facilities Enhanced Recharge or Riverside North Aquifer Storage and Recovery Project

Diversion rate: 500 cfs

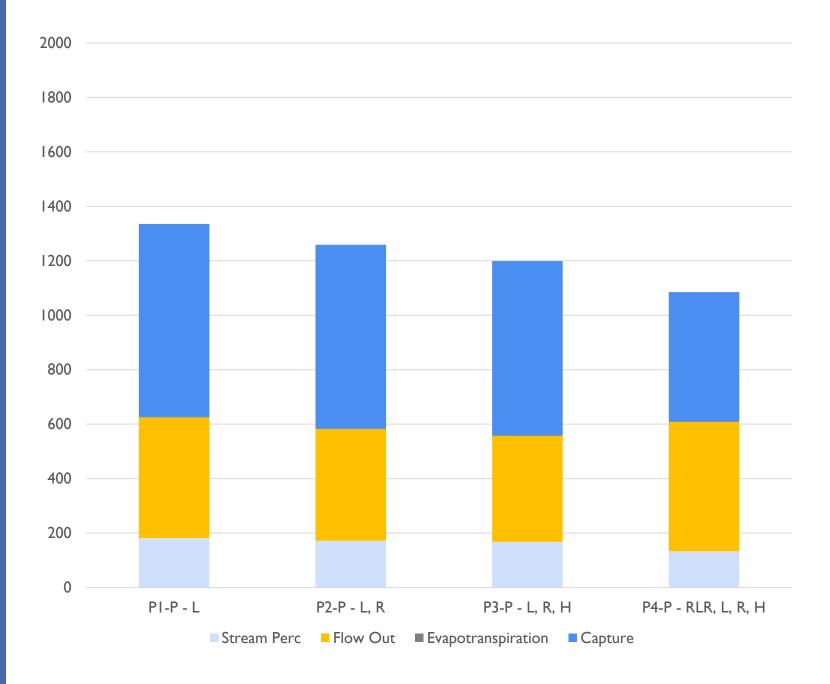
H = Habitat

L = Flow to the Lake

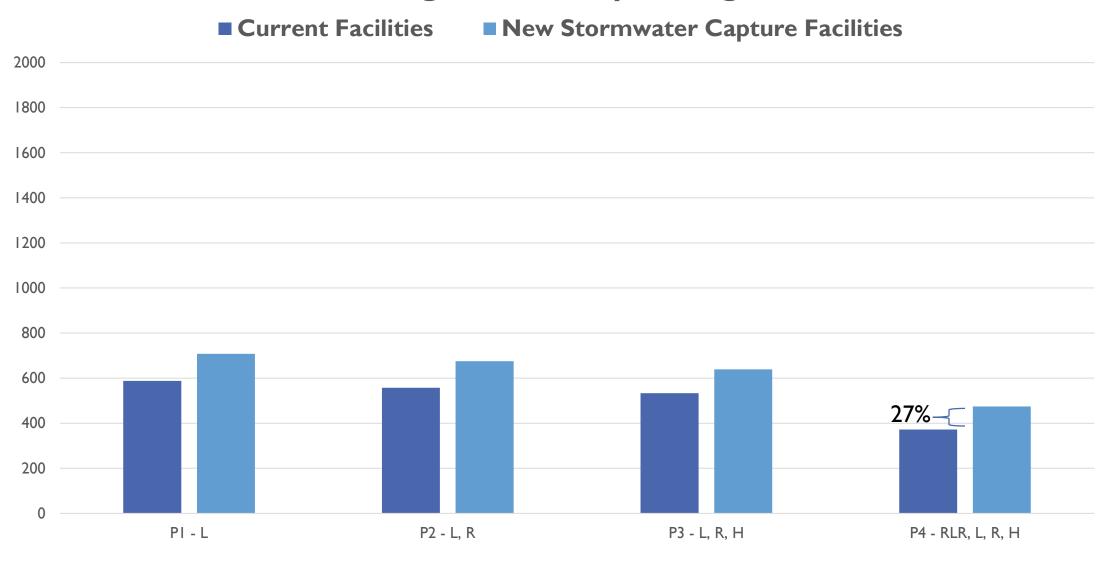
R = Recharge in Big Bear area

RLR = Revised lake operating rules





No Change to Lake Operating Rules



Optimization Runs – Maximize Capture

EXPLORE DIFFERENT LAKE OPERATING RULES TO MAXIMIZE CAPTURE

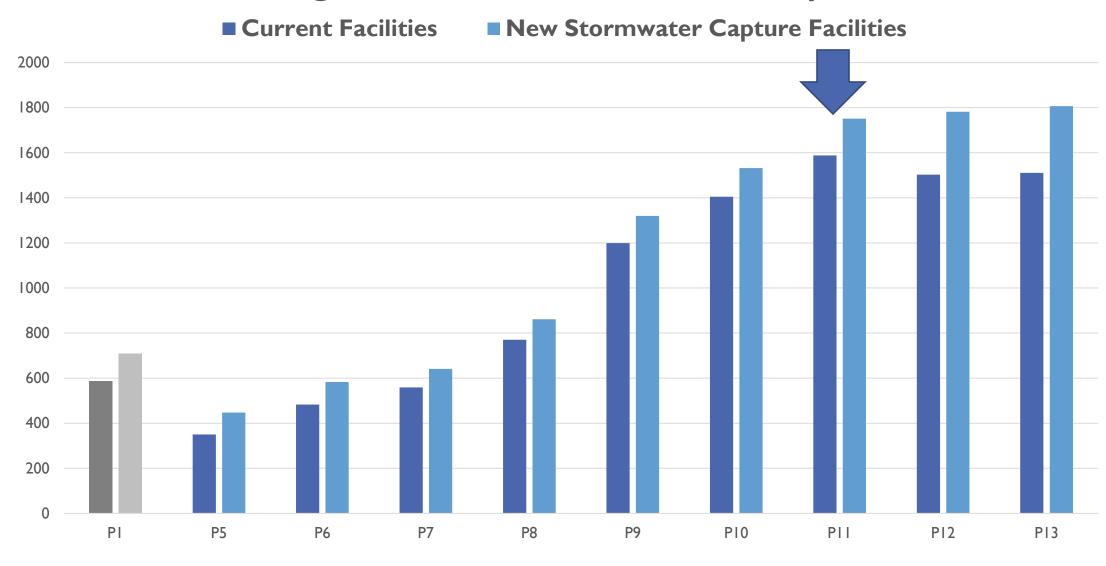
Big Bear Lake Releases Assumptions

Alternative	Replenish Big Bear Project	Dry Year Realease
		•Reduce early season FC Releases in wet years and allocate the flow into dry
	Project Alternative 1	years beforehand.
	•Current Lake Operating Rules	•A minimum of 2,000 acre-ft combined FC Releases and Dry Year Releases
	•2,000 AFY reclaimed water into the Lake	should be satisfied for each year.
	*	•Dry Year Releases on Apr 1st at 1,008 cfs if available.
		•Reduce early season FC Releases in wet years and allocate the flow into dry
		years beforehand.
Alternative 12 S	Same as Alternative 1	•A minimum of 2,000 acre-ft combined FC Releases and Dry Year Releases
		should be satisfied for each year.
		•Dry Year Releases distributed (at 500 cfs if available) in April.
Alternative 11 Sa		•Reduce early season FC Releases in wet years and allocate the flow into dry
		years beforehand.
	Same as Alternative 1	•A minimum of 2,000 acre-ft combined FC Releases and Dry Year Releases
		should be satisfied for each year.
		•Dry Year Releases distributed (at 256 cfs if available) in April.
Alternative 10 Sa		•Reduce early season FC Releases in wet years and allocate the flow into dry
		years beforehand.
	Same as Alternative 1	•A minimum of 2,000 acre-ft combined FC Releases and Dry Year Releases
		should be satisfied for each year.
		•Dry Year Releases distributed (at 68 cfs if available) in April.
Alternative 9 Sam		•Reduce early season FC Releases in wet years and allocate the flow into dry
		years beforehand.
	Same as Alternative 1	•A 2,000 acre-ft combined FC Releases and Dry Year Releases should be
		satisfied when there is enough flow to be allocated.
		•Dry Year Releases distributed (at 68 cfs if available) in April.
Alternative 8		•Reduce early season FC Releases in wet years and allocate the flow into dry
		years beforehand.
	Same as Alternative 1	•A 700 acre-ft combined FC Releases and Dry Year Releases should be
		satisfied when there's enough flow to be allocated.
		•Dry Year Releases distributed (at 68 cfs if available) in April.





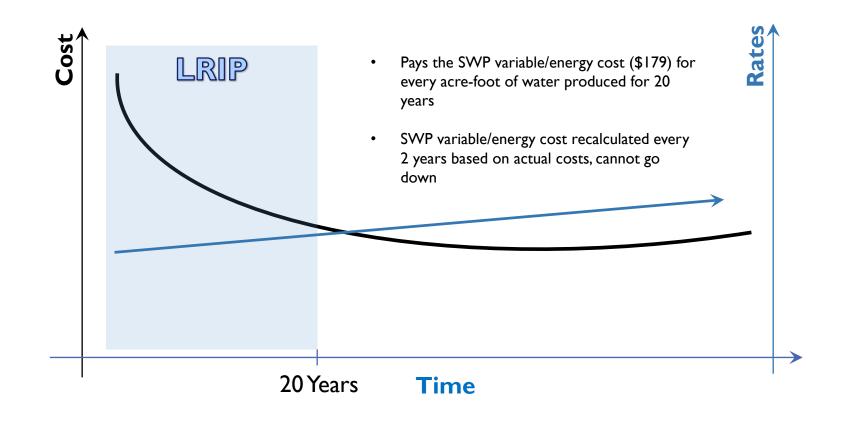
Change Lake Releases to Maximize Capture



Possible Participation by Valley District through LRIP

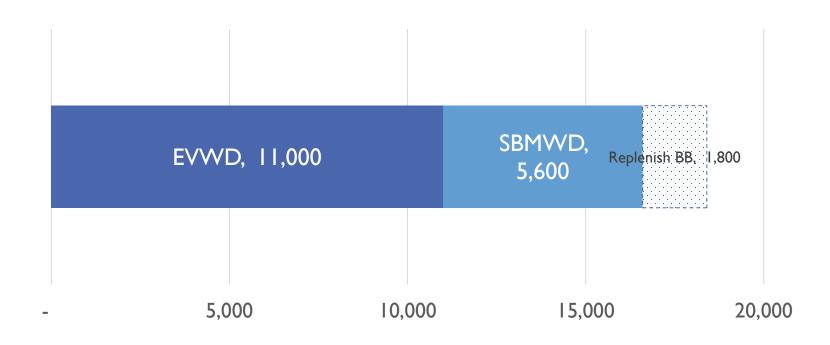


LRIP Local Resources Investment Program (LRIP)

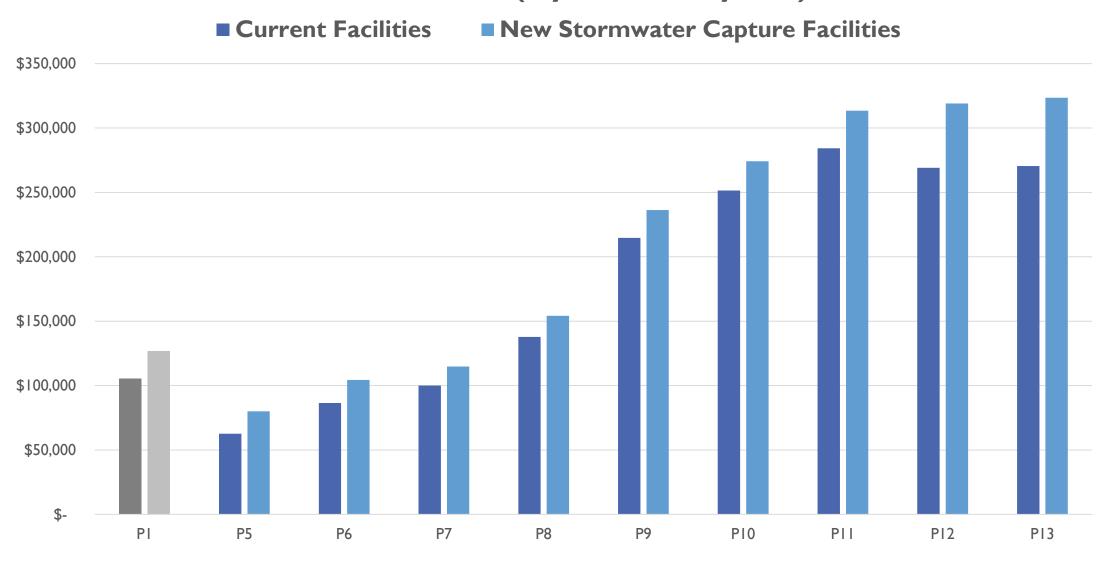




Valley District LRIP Program



LRIP Amount (\$/year for 20 years)





Next Steps Should Big Bear Sustainability Project Choose to Move Forward

- ➤ Big Bear Sustainability Project would complete an LRIP application
 - >Would include method used to determine the amount of water captured by Valley District
- ➤ Board considers LRIP application
- ➤ If approved by the Board:
 - ➤ LRIP agreement is prepared
 - ➤ Valley District does not pay until water is produced



Director Comments and Discussion



Paul Kielhold
President



June Hayes
Vice President



T. Milford Harrison Treasurer



Gil J. Botello
Director



Susan Longville
Director

Staff Recommendation

Receive and file



Discussion Item 4.3 (Pg. 39)

Kristeen Farlow, MPA – Strategic Communications Manager

Discuss CSDA Committee Participation

Staff Recommendation

Discuss the CSDA Committees and Expert Feedback Teams and consider which Committee(s), if any, the Directors are interested in serving on for the upcoming term. Direct Staff to submit the Committee Interest Form on behalf of the District as directed by the deadline.



California Special Districts Association

- CSDA was formed to promote good governance and improved core local services
- Offer professional development, advocacy, education and training, insurance programs, legal advice, public relations support, and legislative advocacy
- Get more out of our membership and support and strengthen the effectiveness of CSDA

- Seeking volunteers for Committees and Expert Feedback Teams
- •Time commitments vary; travel may be involved
- Committees: need dedicated participants who spend time providing their expertise in directing activities and policies of CSDA
- Expert Feedback Teams: provide input to CSDA advocacy staff on areas of public policy facing special districts



Committees and Expert Feedback Teams

COMMITTEES

- Audit
- Elections & Bylaws
- Fiscal
- Legislative
- Members Services
- Professional Development

EXPERT FEEDBACK TEAMS

- Environment
- Governance
- Legal Revenue
- Formation & Reorganization
- Human Resources & Personnel
- Public Works & Facilities



Director Comments and Discussion



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Future Business



Adjournment