

Basin Technical Advisory Committee

Meeting No. 126

AGENDA

Bear Valley Mutual
Water Company

City of Colton

East Valley Water District

City of Loma Linda

City of Redlands

City of Rialto

City of Riverside

San Bernardino County
Flood Control District

San Bernardino Municipal
Water Department

San Bernardino Valley
Municipal Water District

San Bernardino Valley
Water Conservation District

West Valley Water District

Western Municipal
Water District

Yucaipa Valley Water District

REGULAR MEETING OF THE BASIN TECHNICAL ADVISORY COMMITTEE **MONDAY, JUNE 3, 2024 – 1:30 P.M.**

PUBLIC PARTICIPATION

Public participation is welcome and encouraged. You may participate in the June 3, 2024 meeting of the Basin Technical Advisory Committee **online** and by **telephone** as follows:

San Bernardino Valley Municipal Water District
380 E. Vanderbilt Way San Bernardino, CA 92408
In-Person: Board Room

Teleconference Information

Dial-in Info: 877 853 5247 US Toll-free
Meeting ID: 864 6271 4600

<https://sbvmwd.zoom.us/j/86462714600>

Passcode: 3802020

If you are unable to participate online or by telephone, you may also submit your comments and questions in writing for the Committee's consideration by sending them to comments@sbvmwd.com with the subject line "Public Comment Item #" (insert the agenda item number relevant to your comment) or "Public Comment Non-Agenda Item". Submit your written comments by 6:00pm on Sunday, June 2, 2024. All public comments will be provided to the Chairperson and may be read into the record or compiled as part of the record.

380 East Vanderbilt Way
San Bernardino, CA 92408
909.387.9200 ph
909.387.9247 fax
www.sbvmwd.com

Jennifer Ares, Chair
Linda Jadeski, Vice Chair

Cecilia Griego, Chair
Project Review Committee

Ryan Shaw, Chair
Engineering Subcommittee

Devin Arciniega, Chair
Conservation Subcommittee

Basin Technical Advisory Committee

Bear Valley Mutual
Water Company

City of Redlands

San Bernardino Municipal
Water Department

Western Municipal
Water District

City of Colton

City of Rialto

San Bernardino Valley
Municipal Water District

Yucaipa Valley
Water District

East Valley Water District

City of Riverside

San Bernardino Valley
Water Conservation District

City of Loma Linda

San Bernardino County
Flood Control District

West Valley Water District

AGENDA

June 3, 2024, 1:30 PM

- 1) Call to Order/Pledge of Allegiance/Introductions
- 2) Public Comment
- 3) Approval of Minutes - Page 3
 - 3.a February 5, 2024 Regular Meeting
[February 5, 2024 Regular Meeting](#)
- 4) Presentations and Reports
 - 4.a Engineering Subcommittee - R. Shaw (5 mins.) - Page 9
[Memo - Engineering Subcommittee Report](#)
 - 4.b Conservation Subcommittee - D. Arciniega (5 mins.)
 - 4.c SBVMWD Water Delivery Report: April 2024 - M. Plinski (10 mins.) - Page 11
[Water Delivery Report - April 2024](#)
- 5) New Business and Discussion Items
 - 5.a State Water Project Tour and Sites Reservoir Project Update - M. Plinski (15 mins) - Page 18
 - 5.b Consider Approach for 2025 Update to the Integrated Regional Urban Water Management Plan (IRUWMP) - A. Ojo (10 mins.)- Page 20
[Consider approach for 2025 Update to the IRUWMP](#)

- 6) Quick Updates, Reminders, and Announcements
 - 6.a Summary of Changes to the 2024 BTAC Regional Water Management Report - Page 25
[Summary to BTAC 2024 Annual RWMP](#)
 - 6.b Quarterly Groundwater Management Update - Page 26
[Memo - Groundwater Management Update](#)
- 7) Old Business, Other Business, and Future Agenda Items
- 8) Adjourn
Next Meeting is August 5, 2024

**MINUTES
OF
THE
BASIN TECHNICAL ADVISORY COMMITTEE**

MEETING NO. 125

February 5, 2024

Attendees:

Linda Jadeski, West Valley Water District

George Hanson, Bear Valley Mutual Water Company

Sam Fuller, Bear Valley Mutal Water Company

Michael Moore, East Valley Water District

Madeline Blue, Yucaipa Valley Water District

Gil Botello, San Bernardino Valley Municipal Water District

June Hayes, San Bernardino Valley Municipal Water District

T. Milford Harrison, San Bernardino Valley Municipal Water District

Susan Longville, San Bernardino Valley Municipal Water District

Wen Huang, San Bernardino Valley Municipal Water District

Leo Ferrando, San Bernardino Valley Municipal Water District

Michael Plinski, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Sayer Pinto, San Bernardino Valley Municipal Water District

Shavonne Turner, San Bernardino Valley Municipal Water District

Andreea Tanase, San Bernardino Valley Municipal Water District

Jose Macedo, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Melissa Zoba, San Bernardino Valley Municipal Water District

Greg Woodside, San Bernardino Valley Municipal Water District

Devin Arciniega, San Bernardino Municipal Water Department

Ryan Shaw, Western Municipal Water District

Joshua Aguilar, Western Municipal Water District

Mallory O'Connor (Gandara), Western Municipal Water District

Farid I. Boushaki, Riverside Public Utilities

Drew Faherty, Riverside Public Utilities
Betsy Miller, San Bernardino Valley Water Conservation District
John Lambie, San Bernardino Valley Water Conservation District
Katelyn Scholte, San Bernardino Valley Water Conservation District
Melody McDonald, San Bernardino Valley Water Conservation District
Miguel Guerrero, City of San Bernardino Municipal Water Department
Steve Miller, City of San Bernardino Municipal Water Department
Warren Huang, City of San Bernardino Municipal Water Department
Brian Dickinson, City of Colton
Cris Fealy, Fontana Water Company
Josh Swift, Fontana Water Company
Marty Zvirbulis, Fontana Water Company
Oscar Ramos, Fontana Water Company
Cindy Li, Santa Ana Water Board
Ian Achimore, Santa Ana Watershed Project Authority
Don Lee, Tetra Tech
Brooke Shorey, Western Heights Water Company
Robert Stewart, Bear Valley Mutual Water Company
Shane Sibbett, Elsinore Valley Municipal Water District

Agenda Item 1. Call to Order/Pledge of Allegiance/Introductions

The meeting of the Basin Technical Advisory Committee was called to order by acting chair Linda Jadeski, at 1:31 p.m. via Zoom and SBVMWD Board Room.

Agenda Item 2. Public Comment. There was no public comment.

Agenda Item 3. Approval of Minutes.

A. Approval of the December 11, 2023 Regular Meeting.

Michael Moore made a motion to approve the minutes, the motion was seconded by George Hanson. The minutes were approved.

Agenda Item 4. Presentations and Discussion Items

A. Discuss the Format and Content of Water Resources Monthly Reporting

Adekunle Ojo of San Bernardino Valley Municipal Water District (SB Valley) stated the purpose of this item is to facilitate discussion of what the needs are, the value of consistency, and the correct frequency of reporting regional data. Mr. Ojo provided a Needs Assessment of the type of reporting that happens and where the information is reported, and provided examples of each type of report. He explained that each month, SB Valley prepares a Water Delivery Report that is presented to the Board of Directors during the second regular Board meeting. The report focuses on imported water supplies and deliveries as well as groundwater and local surface water moved through regional conveyance facilities. Since mid-2023, SB Valley has also compiled a State Water Project Update that is sent to retail agencies each month. Until late 2022, SB Valley also prepared a BTAC Monthly Statement to track the recommendations in the Annual BTAC Regional Water Management Plan. Mr. Ojo explained the proposed format consolidates both local and imported water resources and would provide users with the data that is currently available in three (3) different reports, potentially minimizing the effort needed by retail agencies to provide water supply updates to their respective governing bodies and other audiences. With this proposed format, retail agencies can utilize the consolidated report or remove pages they consider irrelevant in their agenda packets or presentations, while the region benefits from consistent monthly reports being used by all agencies.

Michael Plinski of SB Valley added the goal is to provide information that is helpful to each agency, and asked the group if there were any additional information they would like to include or remove from the monthly reporting. Michael Moore, General Manager of East Valley Water District asked if the plan is to have the same report presented at the BTAC meetings as well as the State Water Project update meetings. Mr. Plinski replied yes, but there would be additional elements added as well. Mr. Moore suggested the report begin with a higher-level overview which includes information on the storage accounts as well as how much water is being brought in versus the projected goals.

Mr. Plinski asked if the group would like conservation information included in the report as well. Mr. Moore replied East Valley Water District looks at overall recharge data. Drew Faherty from Riverside Public Utilities asked if there is a breakdown of where the water is being recharged. Mr. Plinski said that it does not show the exact recharge point within the basin, but more specific information could be added. Mr. Ojo said it was possible to add consolidated data on both local and imported water recharge.

B. 2024 Regional Water Management Priorities

Mr. Ojo presented a list of projects and programs that will be prioritized and worked on with regional partner agencies. He asked the group to reach out if any adjustments needed to be made. Mr. Plinski emphasized these are key priorities and that agencies can let them know if any other projects should be added.

Mr. Moore asked which priorities will be potentially funded next fiscal year, specifically item number ten (10), SARCCUP, from the memo. Wen Huang of SB Valley stated that SARCCUP is covered under the Conjunctive Use Projects in the Core Priorities list presented. Mr. Plinski stated that updates on these projects will be given throughout the

year. Mr. Moore asked if the Cactus Basin Recharge project would be funded for next year. Mr. Plinski said it would depend on coordination progress with the County and then identifying the additional infrastructure needed. Mr. Plinski provided brief updates on each of the priorities listed.

John Lambie of San Bernardino Valley Water Conservation District stated that he hopes to collaborate on the Program for Enhanced Recharge Capability (PERC) project, and Mr. Plinski confirmed they will work closely together to be able to provide project updates to the BTAC agencies. Mr. Lambie asked Mr. Plinski if there was anything to share regarding the framework around Integrated Model Updates. Mr. Plinski said that once the updates are determined, they will be shared. He also said that SB Valley would like to participate in San Bernardino Valley Water Conservation District meetings regarding the Integrated Model Updates and be able to provide a regional perspective.

Agenda Item 5. Quick Updates, Reminders, and Announcements

A. Santa Ana River (SAR) Water Rights Permits and SAR Diversions

Mr. Ojo stated that SB Valley and Western secured water rights permits in 2010. He explained the process started over 30 years ago to appropriate Santa Ana River water, based on the construction of the Seven Oaks Dam. The investment in the water rights process was about \$16.1 million, with an additional \$5.023 million spent on making Seven Oaks Dam feasible for future water conservation. Mr. Moore asked what the money was spent on. Mr. Ojo explained that it was spent on feasibility studies, consultant hours, cost-share for infrastructure, engineering, design, planning, environmental, and legal fees. Mr. Plinski also added that one physical aspect that was built was the blanket drain. Sam Fuller of Bear Valley Mutual Water Company added that there are two large gates and a smaller one that can allow the release of water at low flow rates. He explained that there was also a low-flow pipeline built around the plunge pool. He also added details regarding the history of the water rights application and where some of the costs came from. Mr. Moore asked about the conservation efforts. Mr. Huang said this is part of the current FIRO process. Director T. Milford Harrison of SB Valley stated the effort is taking place now with the help of Scripps Institute and the Army Corps of Engineers to turn it into a conservation dam as well as a flood-control dam.

Mr. Ojo continued that the end goal for this process is to receive the license in 2059 by demonstrating that up to 200,000 af of water can be recharged from the diversions, as currently there are only permits. Mr. Plinski added there will need to be additional investments into stormwater capture infrastructure. Mr. Moore added that it would be beneficial to prioritize projects that have dual purpose, similar to the Enhanced Recharge Project. Mr. Ojo continued with an explanation of annual diversion trends since 2010. Mr. Plinski also added that the historical water rights are netted out, and the chart presented shows only what is diverted under SB Valley water rights. Mr. Fuller provided more historical context regarding how the 200,000 af goal was established. Mr. Huang also added that the study referenced was part of the water costs that were mentioned earlier. Mr. Plinski added that SAR stormwater capture is a relatively cheap

water supply in the portfolio, as well as high-quality. Mr. Moore asked if future projects will be joint projects that Western and SB Valley will fund. Mr. Huang stated that Enhanced Recharge Phase 1 was the first joint effort and that there will be more in the future. Mr. Plinski stated that the funding will be an ongoing discussion, although it is agreed that there will be a 72% / 28% split between the non-plaintiff party (San Bernardino County Entities) and the plaintiff party (Riverside County Entities). Farid I. Boushaki of Riverside Public Utilities asked about the \$150 per af price for the SAR Stormwater. Mr. Ojo stated the listed price is not adjusted for inflation at this time, but it is still a cheaper source than other sources such as recycled water and desalination. Miguel Guerrero of the City of San Bernardino Municipal Water Department asked if the price of \$150 per af considers how efficient the recharge and diversion operations would be, taking into account natural recharge. Mr. Plinski replied that projects are modeled through the Groundwater Flow Model to determine the benefit. This accounts for natural recharge and then evaluates what the additional basins will do to increase overall recharge.

B. Groundwater Management Update

Mr. Ojo stated that regarding the San Bernardino Basin, SB Valley is recharging water for the San Bernardino Basin Groundwater Council, which is 90% of the 33,000 acre-feet of imported water recharge deliveries planned for the year.

Mr. Ojo continued by stating that Yucaipa Basin conditions as well as the management actions and goals are tracking well. He recognized the accomplishment of The Yucaipa Basin Groundwater Sustainability Plan (GSP) being approved by the California Department of Water Resources earlier this year. He complimented all the stakeholders in the Yucaipa Basin for all the good work they continue to do. Mr. Plinski added that the Yucaipa SMGA group is doing an excellent job with the proactive management of the basin.

Mr. Plinski continued with updates, stating that the Colton and Riverside Basin areas are being managed per the judgment, but SB Valley has begun preliminary discussions with Western regarding the potential for additional basin management. The Rialto Basin/Rialto Basin Groundwater Council is an ongoing effort, and a consultant has been retained to develop a basin management plan. Cris Fealy of the Fontana Water Company stated it is indeed in progress and the goal is to finish the plan by the end of the year.

C. San Bernardino Basin Groundwater Recharge Update (Water Conservation District)

Betsy Miller, General Manager of the San Bernardino Valley Water Conservation District provided an update on conservation efforts. She stated that regarding diversion, last year was a record calendar year as well as a record water year. The Mill Creek Diversion Replacement project of refurbishing the intake on Mill Creek was completed on time and under budget on December 14, 2023, and it began taking water on December 18, 2023. It is helping with an aggressive approach to recharge, as well as allowing for the distribution of sediment back into the river.

Ms. Miller stated that in 2023, 87,914 af of water was recharged, more than any other year on record. Of this amount, annual imported recharge from SWP accounted for 15,513 af.

Ms. Miller provided an update on the Plunge Creek Conservation Project. A section was rebraided due to an incised channel. Splitter mounds were installed to divert water into the pilot channel. It is estimated that this project has recharged 3,700 af of water over the last few years. It also has the benefit of restoring the habitat for native species, as well as creating about 13 acres of new wetlands.

Ms. Miller provided an update on the Enhanced Recharge Basins, with the first set of completed basins being operational as of January 7, 2024.

Mr. Moore asked if there was any more work on the Plunge Creek Project. Ms. Miller responded that the official work is done, but the permits allow for adaptive management, such as expanding the wetted areas.

D. Water Conservation Subcommittee Report

Devin Arciniega of the San Bernardino Municipal Water Department reported on the first conservation subcommittee meeting of the year. She stated the subcommittee discussed the recent report released by the Legislative Analyst Office which outlines challenges for retailers to comply with conservation legislation including economic and operational impacts which are expected to outweigh the potential benefits and water savings.

The subcommittee also discussed reporting and strategies to implement SB 606 and AB 1668 including collaboration/planning in San Bernardino Valley and local retailer “Water Wednesday” workgroup meetings. San Bernardino Valley will host meetings every second Wednesday of the month at their headquarters as an opportunity to discuss specific working topics and benefit from each retailer’s program experience. The subcommittee discussed a potential opportunity to support compliance with Commercial, Industrial and Institutional performance measures by collaborating on a regional Qualified Water Efficient Landscaper training program via the San Bernardino Valley Water Conservation District.

Additionally, a discussion on San Bernardino Valley’s Urban Community Drought Relief Grant was held to advise retailers on the proposed structure and allocations for direct install opportunities. The program will have separate indoor and outdoor components for participating retailers and San Bernardino Valley is currently drafting a program outline. Retailers will apply for proposed projects and San Bernardino Valley intends to work with retailers to process Demand Management Incentive program participation which can help cover retailer cost-share for the grant.

Ms. Madeline Blua of Yucaipa Valley Water District added a comment stating that the new demand management regulations are stringent and that conserving an acre foot of

water in a conservation program would cost hundreds of thousands of dollars, compared to the \$150 SAR Stormwater project cost per acre foot mentioned earlier.

Agenda Item 6. Other Business and Future Agenda Items.

- A. Shavonne Turner of SB Valley reminded agencies they should have received an email from RAND regarding the Ultimate Demand Study, and they should respond no later than February 9, 2024. There is also an opportunity for one-on-one discussions.
- B. Mr. Ojo stated there are three agenda items for the next meeting; revision to the regional management plan, reviewing a draft of the conjunctive use principles, as well as a summary of the Basin Optimization phase 1. Mr. Moore asked if the framework for the conjunctive use principles could be discussed ahead of this meeting. Mr. Ojo assured him that this would be discussed in the engineering subcommittee meetings ahead of the June 3, 2024 BTAC Meeting. Mr. Plinski added that it will not be a final draft that will be presented during that meeting.
- C. Mr. Harrison recommended the Sites Reservoir video should be added to the following BTAC meeting. Mr. Plinski confirmed that it would be added.
- D. Mr. Plinski added future agenda items included an Enhanced Recharge update and a FIRO update.
- E. Ms. Miller stated that Geoscience may reach out to BTAC members regarding data related to the Integrated SAR Model Updates discussed earlier.
- F. Director June Hayes stated that Stephen Dopudja, who is the consultant hired by the City of Rialto to cover the vacant Utilities Manager position while it is being filled, did not get an invite to the BTAC meeting series. Andreea Tanase stated she would add him to the invites.

Agenda Item 7. Adjourn – The Next Regular Meeting will take place June 3, 2024 @ 1:30 p.m.

Acting chair Linda Jadeski adjourned the meeting at 2:53 P.M.

<p>APPROVAL CERTIFICATION I hereby certify to approval of the foregoing Minutes of the Groundwater Council.</p> <p>Secretary Date _____</p>
--

Respectfully submitted,

Andreea Tanase
SBVMWD Administrative
Analyst I

Basin Technical Advisory Committee

Bear Valley Mutual
Water Company

City of Colton

East Valley Water District

City of Loma Linda

City of Redlands

City of Rialto

City of Riverside

San Bernardino County
Flood Control District

San Bernardino Municipal
Water Department

San Bernardino Valley
Municipal Water District

San Bernardino Valley
Water Conservation District

West Valley Water District

Western Municipal
Water District

Yucaipa Valley Water District

DATE: June 3, 2024
TO: Basin Technical Advisory Committee (BTAC)
FROM: Ryan Shaw, Chair, Engineering Subcommittee
SUBJECT: Engineering Subcommittee Report

Recommendation

Information Item; Receive & File

Summary

The Engineering Committee met on May 1, 2024 and the main topic of discussion was water quality. The Committee also received updates on State Water Project supplies and deliveries, the 2024 BTAC Regional Water Management Plan, the San Bernardino Basin Optimization and Stewardship Program, and construction and recharge at Weaver Basins and at Santa Ana River Spreading Grounds (Enhanced Recharge Phase IB).

The highlight of the water quality discussion was a presentation by staff from the California Department of Water Resources (DWR) on State Water Project (SWP) PFAS monitoring, which started in 2020. Sampling is done at three (3) upstream locations near the Delta and one (1) location downstream of nearly all the turn-ins in the Central Valley. Sampling results show concentrations that are significantly lower than regulatory thresholds. Sampling at the Devil Canyon 2nd Afterbay, where SWP water enters the San Bernardino Valley, was added in March 2024 and the next sampling is in December; there are no results yet. In addition, San Bernardino Valley facilitated discussion on PFAS and water quality concerns within the Watershed; while PFAS is not widespread within the Basin, there are a few hot spots. There will be further discussions when the SAWPA Regional PFAS Study is no longer privileged and confidential as well as discussion on next steps for joint efforts on compliance.

The group also discussed the upcoming update to the Integrated Regional Urban Water Management Plan (IRUWMP). Agencies that are interested in participating in the cost-effective regional plan should contact San Bernardino Valley staff; updates will come back to BTAC in August on the next steps.

Michael Plinski - Chief of Water Resources

Water Delivery Report through April 2024



Water Delivery Report

The following amounts of water were delivered by San Bernardino Valley Municipal Water District:
(in acre-ft)

	April	Year to Date
State Water Project	1,556	10,853
Groundwater		
Baseline Feeder Wells	318	1,305
San Bernardino Avenue Well	0	0
Santa Ana River Diversions	5,088	5,531



2024 Imported Water Orders

Direct Deliveries	Orders (Received Dec 2023)
Big Bear Agreement (In-Lieu SWP Water)	4,700
BVMWC	2,000
City of Redlands	0
CLAWA Sale (07-025)	200
EVWD	2,000
Fontana (incl. Cemex)	3,650
Greenspot Mutual	175
Marygold Mutual	320
SB County (Glen Helen)	375
SBV (Enhanced Recharge Project - Construction)	230
WVWD	4,300
Yucaipa Regional Park	200
YVWD/WHWC	8,350
Direct Deliveries Sub-Total (AF)	26,500
Recharge	
Baseline Feeder Obligation	1,034
City of Redlands	2,000
City of San Bernardino	5,000
SNRC Settlement Agreement (for SBMWD)	3,000
Groundwater Council - San Bernardino Basin	28,560
YVWD (Wilson and Oak Glen Basins)	5,000
Recharge Sub-Total (AF)	44,594
Estimated Total Deliveries (AF)	71,094

2024 Imported Water Delivery Plan

<u>Supply</u>	2024 Estimate		
	January	Revised - April	Final
Carry Over from 2023	51,300	51,300	
CLAWA Exchange (SWPAO #TBD)	0	0	
Kern-Delta Groundwater Bank (by agreement with MWD)	2,907	2,907	
SWP - Article 14 (from 2023)	0	0	
SWP - Article 21	0	0	
Table A (Dec 2023, estimated Final Allocation of 10%, 15%, 30%, 40%, ____)	10,260	41,040	
Estimated Total Available Imported Water Supply (AF)	64,467	95,247	0
Demand			
Direct Delivery (Orders)	26,500	26,500	
Recharge (Target)	27,967	44,594	
Estimated Total Deliveries (AF)	54,467	71,094	0
Stored Water - Potentially Available in 2025			
Kern-Delta Groundwater Bank (banked water available until called upon)	2,907	2,907	
Planned Carryover for 2025 (stored in DWR's San Luis Reservoir, has the potential to spill depending on hydrology)	7,093	21,246	
Estimated Total Stored Water Potentially Available in 2025 (AF)	10,000	24,153	0
Estimated Volume of Water Greater than 2024 Orders and Planned Carry Over (AF)	0	0	0

Direct Deliveries through April

<u>Direct Deliveries</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Orders	Remaining	% Remaining
Big Bear Agreement (In-Lieu)	0	0	0	0									0	4,700	4,700	100%
BVMWC	139	34	0	85									258	2,000	1,742	87%
City of Redlands	0	0	0	0									0	0	0	-
CLAWA Sale (07-025)	0	0	0	0									0	200	200	100%
EVWD	120	174	240	197									732	2,000	1,268	63%
Fontana (incl. Cemex)	47	26	92	136									300	3,650	3,350	92%
Greenspot Mutual	0	0	0	0									0	175	175	100%
Marygold Mutual	0	0	0	43									43	320	277	86%
SB County - Glen Helen	0	0	0	0									0	375	375	100%
SBV - Enhanced Recharge Construction	0	0	0	0									0	230	230	100%
WVWD	46	76	23	(43)									102	4,300	4,198	98%
Yucaipa Regional Park	9	0	0	1									10	200	190	95%
YVWD/WHWC	340	339	365	364									1,408	8,350	6,942	83%
Total Direct Deliveries (AF)	700	650	720	784	0	0	0	0	0	0	0	0	2,853	26,500	23,647	89%



Recharge Deliveries through April

	Turn-Out Capacity (cfs)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Target	Remaining	% Remaining
SBBA Recharge																	
Badger Basins	5													0	1,000	1,000	100%
City Creek	3													0	0	0	-
Mill Creek Spreading	15	1,522	958	349	419									3,248	9,000	5,752	64%
Patton Basins	5													0	0	0	-
Plunge Creek Spreading	3													0	0	0	-
Santa Ana Low & SARC	95	2,429	605											3,034	14,594	11,560	79%
Sweetwater	8	245		233	353									831	3,000	2,169	72%
Waterman / East Twin Creek Basins	40	670			0									670	12,000	11,330	94%
SBBA Recharge Sub-Total (AF)	174	4,866	1,563	582	772	0	0	0	0	0	0	0	0	7,782	39,594	31,812	80%
Yucaipa Recharge																	
Oak Glen Basins	3													0	1,000	1,000	100%
Wilson Creek Basins	15	99	58	61										218	4,000	3,782	95%
Yucaipa Recharge Sub-Total (AF)	18	99	58	61	0	0	0	0	0	0	0	0	0	218	5,000	4,782	96%
Total Recharge Deliveries (AF)	192	4,965	1,621	642	772	0	0	0	0	0	0	0	0	8,000	44,594	36,594	82%



Water Delivery Report

Monthly updates on the SWP are continuing to be provided to the Retail Water Agencies within our service area

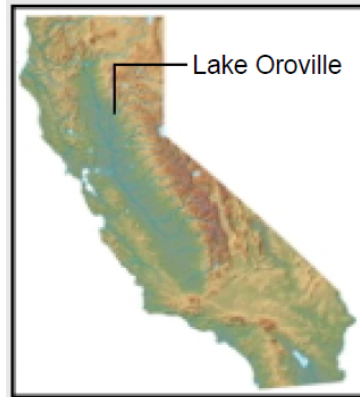
DWR increased the SWP Allocation from 15% to 30% in late March. And, again in late April from 30% to 40%. This is likely the final allocation for 2024

San Bernardino Valley Operation's staff continues to try and maximize SWP deliveries with the support of the local Retail Water Agencies, Water Conservation District, and San Bernardino County Flood Control

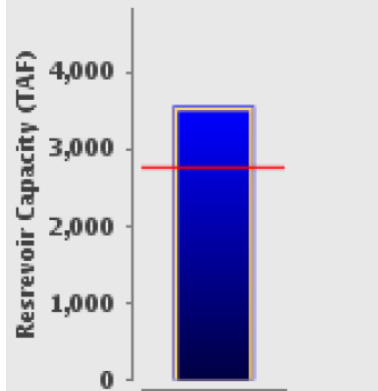
Recharge of SWP water has been limited by above average hydrology and recharge of local surface water, construction related to Enhanced Recharge 1B, and reduced infiltration rates



Lake Oroville Conditions



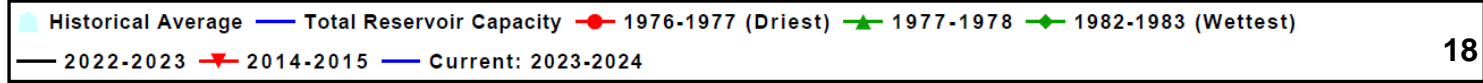
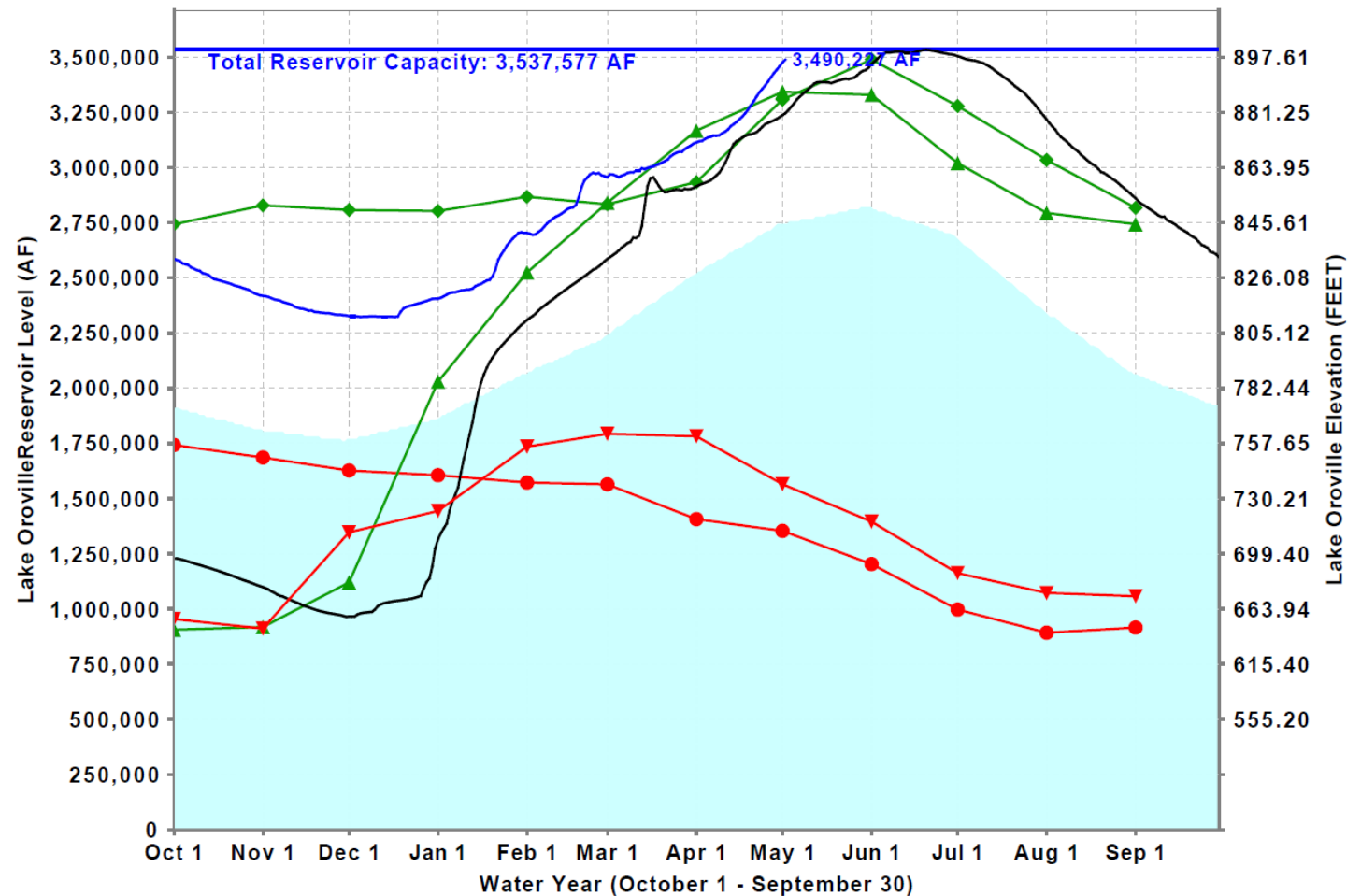
Lake Oroville Conditions (as of Midnight - May 2, 2024)



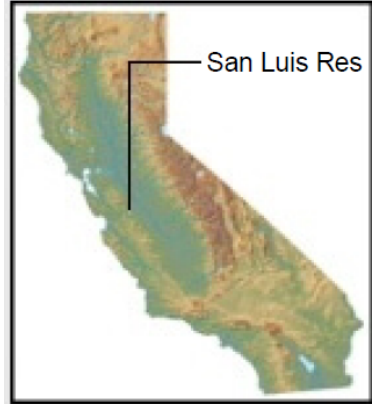
Current Level: 3,490,227 AF

99% (Total Capacity) | 127% (Historical Avg.)

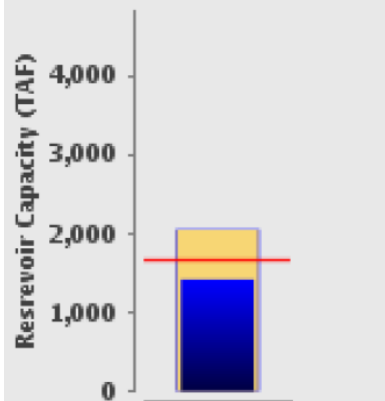
Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 2, 2024



San Luis Reservoir Conditions



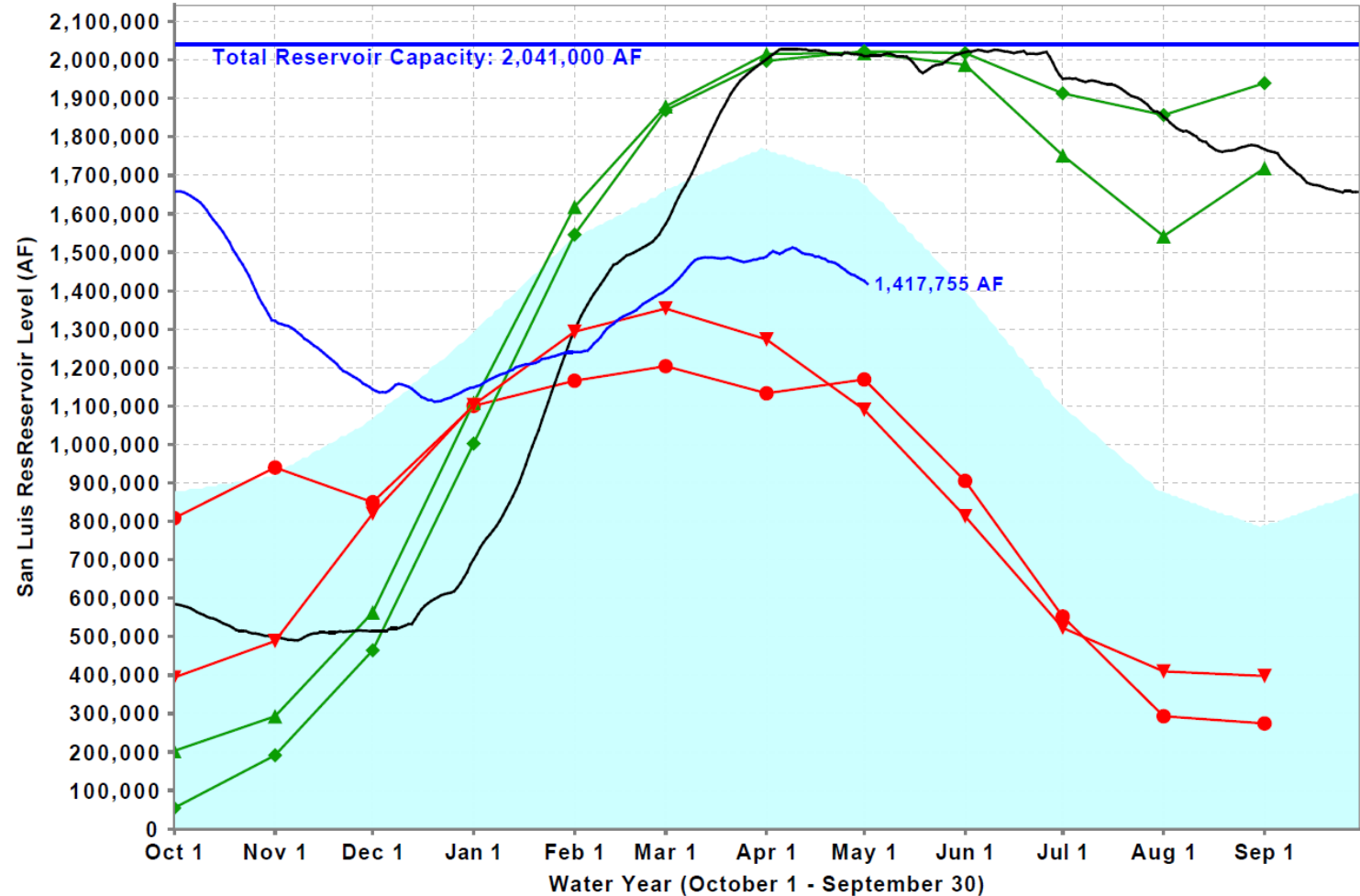
San Luis Reservoir Conditions (as of Midnight - May 2, 2024)



Current Level: 1,417,755 AF

69% (Total Capacity) | 85% (Historical Avg.)

San Luis Res Levels: Various Past Water Years and Current Water Year, Ending At Midnight May 2, 2024

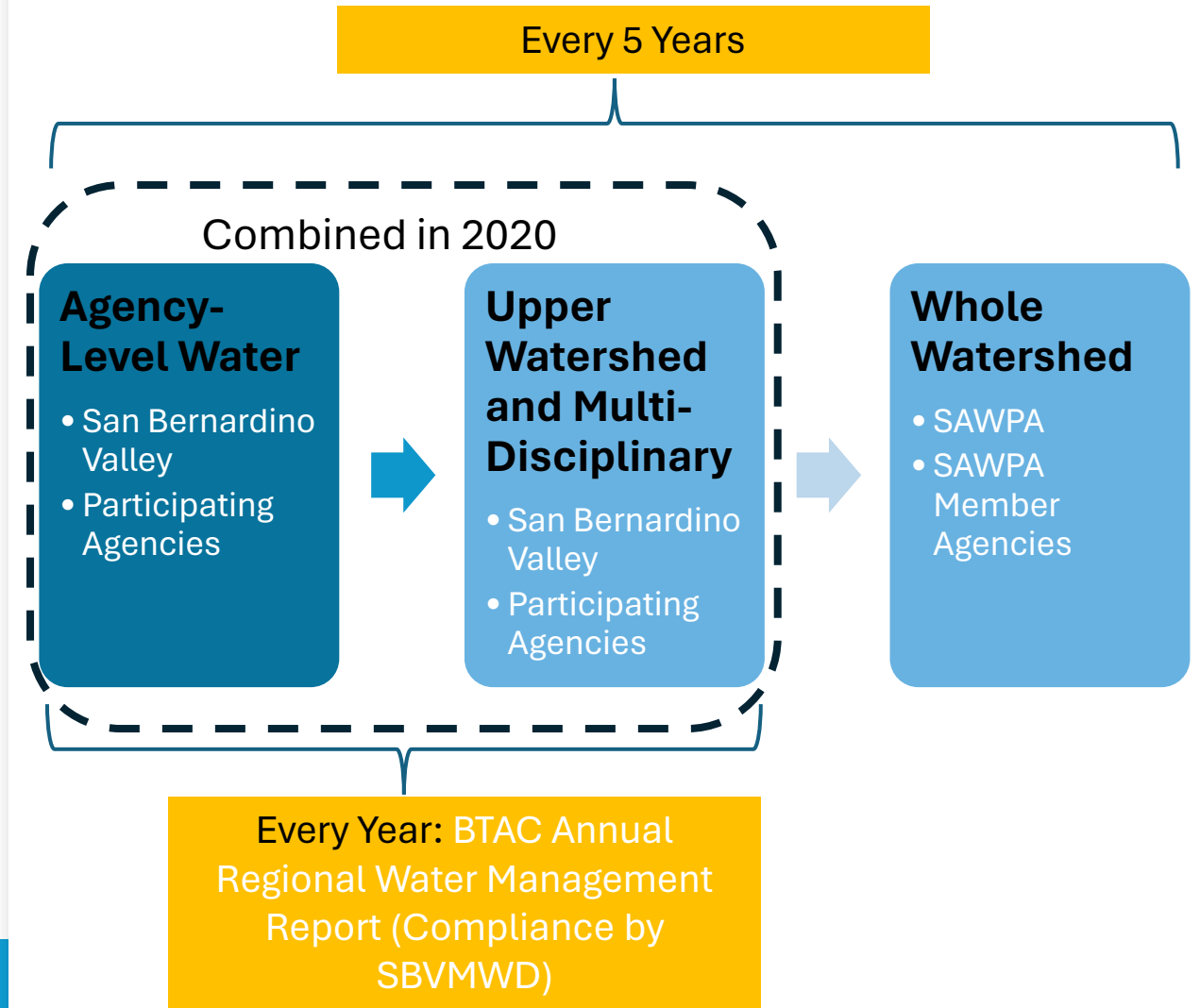


■ Historical Average
 — Total Reservoir Capacity
 ● 1976-1977
 ▲ 1977-1978
 ◆ 1982-1983 (Wettest)
 — 2022-2023
 ▼ 2014-2015 (Driest)
 — Current: 2023-2024

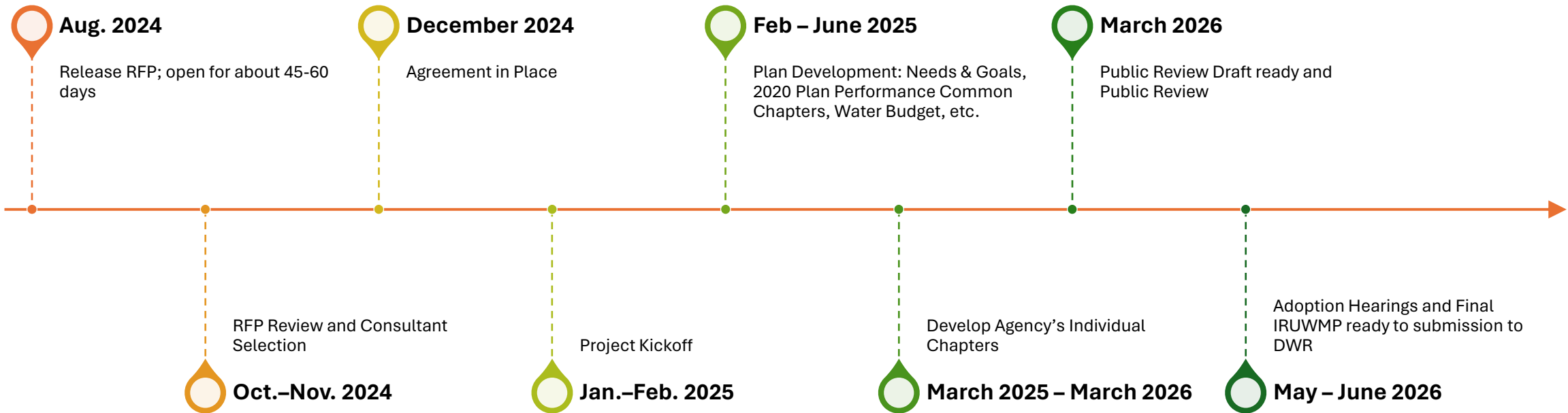
2025 Update to the Integrated Regional Urban Water Management Plan (IRUWMP)

IRUWMP

- State law require urban water agencies that meets certain criteria to prepare an Urban Water Management Plan (UWMP) every five (5) years; planning horizon is the analysis of demand and supplies for the next 25 years
- For the 2020 UWMP planning cycle, the update of the 2015 IRWMP and 2015 RUWMP was combined into the 2020 IRUWMP; this is the first time it was done in California
- The next five-year update will be due to DWR by July 1, 2026; DWR's Guidebook pending

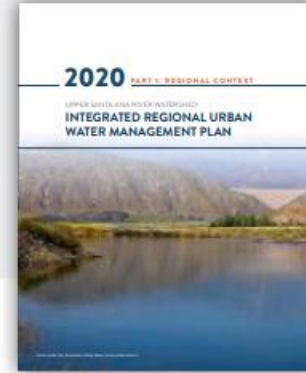


Tentative Project Timeline



PARTICIPATING AGENCY	PREVIOUS REGIONAL PLANS				2020 IRUWMP	
	2007 IRWM PLAN	2015 IRWM PLAN	2010 REGIONAL UWMP	2015 REGIONAL UWMP	PLAN PARTICIPANT	SERVES AS 2020 UWMP
Big Bear City Community Services District		✓			✓	No
City of Big Bear Lake Department of Water		✓			✓	No
City of Colton	✓		✓	✓	✓	Yes
City of Loma Linda	✓	✓	✓	✓	✓	Yes
City of Redlands	✓	✓	✓	✓	✓	Yes
City of Rialto	✓	✓		✓	✓	Yes
City of Yucaipa		✓				
City of San Bernardino Municipal Water Department	✓	✓	✓	✓	✓	Yes
East Valley Water District	✓	✓	✓	✓	✓	Yes
Elsinore Valley Municipal Water District					✓	No
Fontana Water Company	✓	✓			✓	No
Riverside Highland Water Company				✓	✓	Yes
City of Riverside Public Utilities Department	✓	✓			✓	No
San Bernardino County Flood Control District	✓	✓			✓	N/A
San Bernardino Valley Municipal Water District	✓	✓	✓	✓	✓	Yes
San Bernardino Valley Water Conservation District	✓	✓			✓	N/A
San Geronio Pass Water Agency	✓	✓			✓	No
South Mesa Water Company ¹					✓	Yes
West Valley Water District	✓	✓	✓	✓	✓	Yes
Western Municipal Water District					✓	No
Yucaipa Valley Water District	✓	✓	✓	✓	✓	Yes

1. South Mesa Water Company was below the urban water supplier threshold as of 2020 but has elected to prepare a 2020 UWMP.

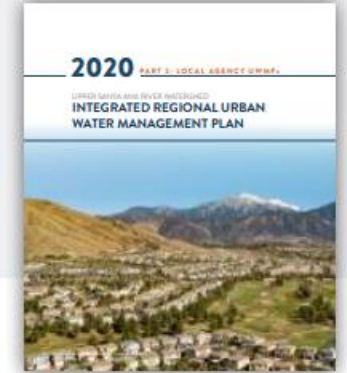


Regional Context

Part 1 contains the information needed to meet the requirements of the IRWM Planning Act for the Region and a portion of the UWMP Act requirements for the local agencies who are using this Plan to meet their 2020 UWMP Requirements

CONTENTS

1. Introduction
2. Region Description
3. Regional Water Sources and Management
4. Regional Water Use
5. Comparison of Regional Supplies and Demands
6. Water Management Goals, Objectives, and Strategies
7. Projects
8. Implementation, Performance and Adaptive Management



Local Agency UWMPs

Part 2 provides supplemental information for the eleven local agencies who are using this Plan to meet their 2020 UWMP requirements.

CONTENTS

1. San Bernardino Valley Municipal Water District
2. City of Colton
3. City of Loma Linda
4. City of Redlands
5. City of Rialto
6. East Valley Water District
7. Riverside Highland Water Company
8. San Bernardino Municipal Water Department
9. South Mesa Water Company
10. West Valley Water District
11. Yucaipa Valley Water District

Cost Sharing and Recommendation

- Item was discussed at the May 1 BTAC Engineering Subcommittee meeting and there is interest in taking the 2020 regional approach
- In 2020, San Bernardino Valley Board of Directors approved paying 50% of the Regional Section; balanced was divided equally between participants and each agency paid for its UWMP Chapters
- Cost-effective approach; consistency in data and approach; collaboration
- Next step would be to collaborate on the RFP, especially the Scope of Work

Total Proposal Cost - WSC				\$393,100.00	
Total Agency Chapters (3)				\$194,580.00	
Total Regional Sections/Tasks (0, 1, 2, 4)				\$198,520.00	
San Bernardino Valley Municipal Water District				\$99,260.00	50% of Regional Section
Balance Regional Sections				\$99,260.00	
COST SHARING BY AGENCY					
Agency	Regional Sections	Agency Urban Chapter	TOTAL PROPOSAL	Total (%)	
1 Big Bear Lake Department of Water and Power	\$ 5,838.82		\$ 5,838.82	1%	
2 Big Bear City Community Services District	\$ 5,838.82		\$ 5,838.82	1%	
3 City of Colton	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
4 City of Loma Linda	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
5 City of Redlands	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
6 City of Rialto	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
7 City of Riverside Public Utilities Department	\$ 5,838.82		\$ 5,838.82	1%	
8 East Valley Water District	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
9 Fontana Union Water Company	\$ 5,838.82		\$ 5,838.82	1%	
10 Riverside-Highland Water Company	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
11 San Bernardino County Flood Control District	\$ 5,838.82		\$ 5,838.82	1%	
12 San Bernardino Municipal Water Department	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
13 San Bernardino Valley Municipal Water District	\$ 99,260.00	\$ 21,200.00	\$ 120,460.00	31%	
14 San Bernardino Valley Water Conservation District	\$ 5,838.82		\$ 5,838.82	1%	
15 San Geronio Pass Water Agency	\$ 5,838.82		\$ 5,838.82	1%	
16 West Valley Water District	\$ 5,838.82	\$ 21,200.00	\$ 27,038.82	7%	
17 Yucaipa Valley Water District	\$ 5,838.82	\$ 3,780.00	\$ 9,618.82	2%	
18 South Mesa Water Company	\$ 5,838.82		\$ 5,838.82	1%	
TOTAL	\$ 198,520.00	\$ 194,580.00	\$ 393,100.00	100%	

Summary of Changes to the 2024 BTAC Regional Water Management Report

Information Only; No
Action Needed

Water Resources	Dec. 2023 Actual or Estimate	May 2024 Actual	Change
1. State Water Project (SWP) Allocation	Initial; 10%	Current; 40%	30%
2. Total Use of SWP Water (AF)	51,535	71,094	19,559
3. SWP carryover storage into 2025	11,132	24,153	13,021
4. SBVMWD/Western SAR Diversions	Low	Medium	n/a
5. SBB Total Storage (AF)	4,658,475	4,881,235	222,760
6. SBB Estimated Storage Available (AF)	(1,031,525)	(808,765)	222,760
7. SBB Artificial Recharge Threshold	625,000	402,000	(223,000)



DATE: June 3, 2024

TO: Basin Technical Advisory Committee (BTAC)

FROM: Adekunle Ojo, Manager of Water Resources
Michael Plinski, Chief of Water Resources

SUBJECT: Groundwater Management Update

Recommendation

Informational Item; Receive and File.

Summary

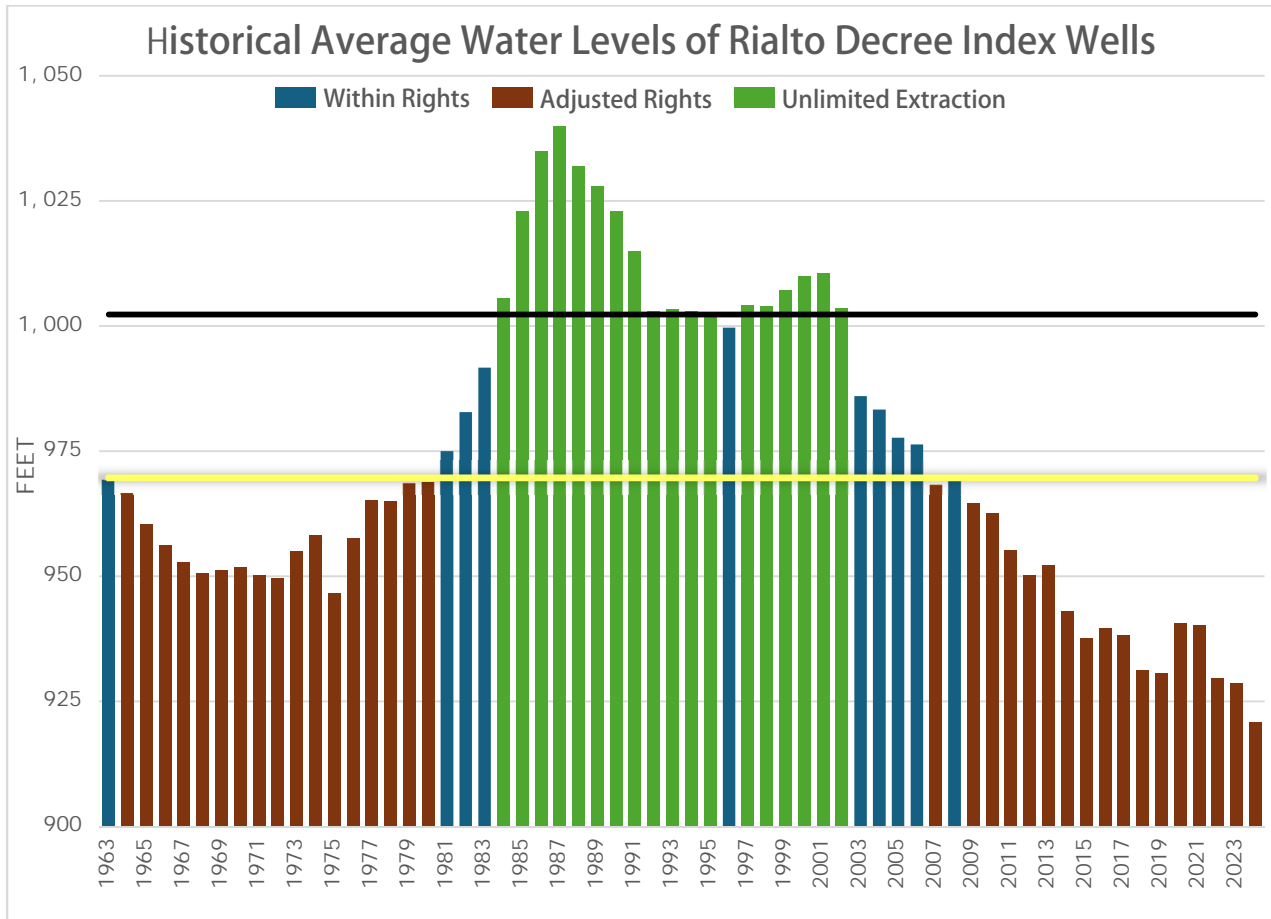
This report summarizes the conditions of groundwater basins in the San Bernardino Valley service area and the activities of their basin management bodies since the last update to BTAC on February 5, 2024.

Rialto-Colton Basin

The Rialto-Colton Basin is on the west side of the San Bernardino Valley service area, with the upper portion known as the Rialto Basin and the lower portion known as the Colton Basin. The principal natural recharge areas are Lytle Creek adjacent to the northwestern part of the Rialto Basin, and Reche Canyon and Santa Ana River in the southeastern and southcentral parts of the Colton Basin respectively. Lesser amounts of recharge are provided by percolation of precipitation to the valley floor, underflow from neighboring basins, and to a small extent irrigation and septic returns.

Since 2009, the average spring high water levels in the Rialto Basin have been consistently below the threshold set in the 1961 Rialto Decree. When this occurs, groundwater production is reduced by one percent (1%) for each one (1) foot that the said average is below 969.7 feet above mean sea level for the subsequent water year; the maximum reduction is capped at 50%. Despite reduced groundwater production since 2009 starting at 5% and reaching 41% reduction in 2023, the average spring high water levels has not rebounded which is an indication of the long-term drought (decline in natural recharge) as shown in the figure below and an acute need for artificial recharge. A team from San Bernardino Valley met with County of San Bernardino leaders and Basin producers on

April 24, 2024 regarding the recharge of imported water at Cactus Basins. The engagement with San Bernardino County will continue on a Memorandum of Understanding to facilitate collaboration on this effort and initiating the Technical Advisory Group that would be formed for the retail water agencies, regulatory agencies, and other entities to guide the development of an Adaptive Management Plan.



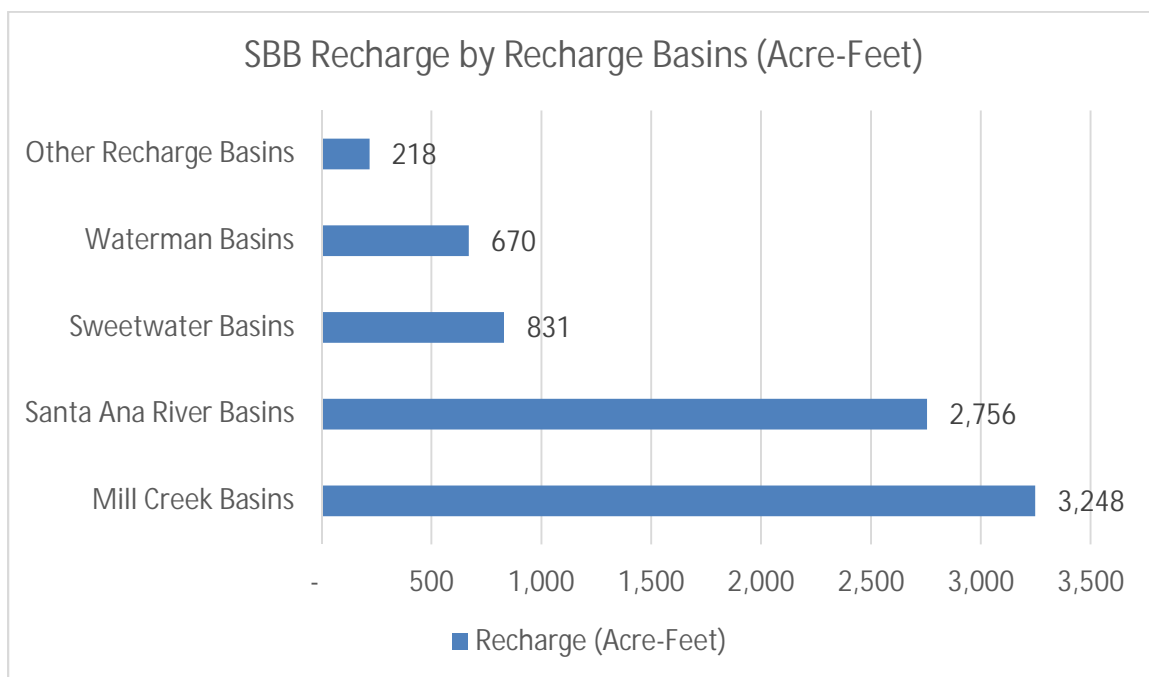
San Bernardino Basin

The San Bernardino Basin is the largest groundwater basin within the San Bernardino Valley service area. Natural recharge to the Basin comes largely from infiltration of runoff from the San Gabriel and San Bernardino Mountains; according to the U.S. Geological Survey, the Santa Ana River, Mill Creek, and Lytle Creek contribute more than 60% of the total recharge to the groundwater system. Lesser contributors include Cajon Creek, Plunge Creek, and most of the creeks flowing southward out of the San Bernardino Mountains. In addition to natural replenishment by deep percolation of water from precipitation and resulting runoff, the Basin is also recharged artificially in streambeds and spreading grounds using local stormwater capture, imported water (State Water Project), and recycled water. Some of the recent developments include:

- **Weaver Basins:** The Sterling Natural Resource Center started operation in January 2024, and it can produce up to 8 million gallons of indirect potable reuse water every day.

Currently, the water recycling plant is producing and delivering about 6 to 6.5 million gallons of recycled water per day, which is conveyed through a regional recycled water pipeline and delivered to the Weaver Basins for recharge. In the future, the San Bernardino Municipal Water Department will connect to the regional recycled water pipeline and deliver its recycled water for recharge. This drought-proof recharge of recycled water, coupled with stormwater and imported water recharge upstream of this location, is expected to contribute to the long-term resilience of the Basin.

- **Santa Ana River Spreading Grounds (Enhanced Recharge Project Phase 1B):** This project is crucial for large-scale stormwater capture on the Santa Ana River and some of the habitat conservation required for water supply projects. Work on the main channel within the “B” Basins are completed and all 11 basins within this sector are online and operational. Construction is ongoing on the channel and basins in the “A” Basins; overall, the project continues to be ahead of schedule and within budget. The construction of these facilities is necessary to utilize the water rights secured by San Bernardino Valley and Western Water that allows for the diversion of up to 200,000 acre-feet of water of Santa Ana River flow made possible by the construction of the Seven Oaks Dam. Depending on local hydrology and recharge conditions, imported water can also be recharged at these basins.
- **Santa Ana River Diversions:** 5,531 acre-feet have been diverted and recharged through the end of April after the Water Conservation District reached its 8,300 acre-feet diversion limit. The permits jointly held by San Bernardino Valley and Western Water provides access to water in excess of licenses held by the San Bernardino Valley Water Conservation District totaling 10,400 acre-feet (first 8,300 acre-feet from January to May and first 2,100 acre-feet from October to December; San Bernardino Valley and Western Water have permits to divert any excess in excess of these licenses and all available water, subject to permit conditions, between June and September).
- **Imported Water Recharge:** The Seven Oaks Accord requires the spreading of native water before imported water. Recharge of imported water has been constrained by the recharge of local surface water, construction related to Enhanced Recharge Phase 1B, and reduced infiltration rates due to mounding. Nonetheless, 7,782 acre-feet of imported water was recharged through the end of April, which represents approximately 20% of the Basin’s recharge orders; the total planned SWP recharge for 2024 is 39,594 acre-feet. 28,560 acre-feet of the recharge orders and deliveries are for the San Bernardino Basin Groundwater Council (GC) and represents the remaining deliveries under the framework agreement that established the GC. With additional recharge basins coming online as the Enhanced Recharge Phase 1B is being completed and local surface water dwindling during the summer months, the capacity to recharge imported is expected to increase for the next couple of months.



Yucaipa Basin

The Yucaipa Basin occupies the eastern part of the San Bernardino Valley service area and a portion of it extends into Riverside County, an area within the San Gorgonio Pass Water Agency service area; therefore, both State Water Contractors and local cities and water agencies established the Yucaipa Sustainable Groundwater Management Agency (Yucaipa SGMA) to manage the Basin. At its April 24 meeting, the Yucaipa SGMA Board received updates on the Water Year 2024 conditions in addition to other updates and discussions. For the first six (6) months of the water year, total precipitation has exceeded the mean annual rainfall. Groundwater levels are stable or increasing across the four management areas from a combination of abundant rainfall and reduced pumping.

One major development within the Basin is the County Line Recharge Project, which will recharge the Calimesa Management Area. San Bernardino Valley (State Water Contractor on the San Bernardino County side of the Basin), San Gorgonio Pass Water Agency (State Water Contractor on the Riverside County side of the Basin), and the South Mesa Company are collaborating on the project. The Calimesa Management Area has limited natural recharge and currently has no access to artificial replenishment from an outside source of water. The project will be done in two phases comprising of a pipeline and basin in the fall of 2024 and a second phase consisting of construction of State Water Project turnout and related facilities in 2025. The Riverside County Board of Supervisors recently authorized \$3.1 million of its American Rescue Plan Act (ARPA) funding for the project thanks to support by Supervisor Gutierrez and the San Gorgonio Pass Water Agency Board.