

# Basin Technical Advisory Committee

Meeting No. 124

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, DECEMBER 11, 2023 – 1:30 P.M.**

### **PUBLIC PARTICIPATION**

Public participation is welcome and encouraged. You may participate in the December 11, 2023, 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](mailto: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 6:00 p.m. on Sunday, December 10, 2023. All public comments will be provided to the Chairman and may be read into the record or compiled as part of the record.

# Basin Technical Advisory Committee

Bear Valley Mutual  
Water Company

City of Redlands

San Bernardino Municipal  
Water Department

Western Municipal  
Water District

City of Colton

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San Bernardino Valley  
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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

**December 11, 2023, 1:30 PM**

- 1) Call to Order/Pledge of Allegiance/Introductions
- 2) Public Comment
- 3) Approval of Minutes
  - 3.a August 7, 2023 Regular Meeting  
[August 7, 2023 Regular Meeting](#)
- 4) Presentations and Discussion Items
  - 4.a Recognition of Tom Crowley for Years of BTAC Leadership (Michael Plinski)
  - 4.b Selection of BTAC Chair and Vice Chair, and Project Review Subcommittee Chair (Tom Crowley)
  - 4.c Proposed 2024 Meeting Schedule (Adekunle Ojo)  
[Memo - BTAC 2024 Meeting Schedule](#)
  - 4.d Consider the 2024 BTAC Regional Water Management Plan (Adekunle Ojo)  
[Memo - BTAC 2024 Regional Water Management Plan](#)  
[Summary of the Plan](#)
- 5) Quick Updates, Reminders, and Announcements
  - 5.a San Bernardino Valley Water Conservation District Activity Report (Betsy Miller)  
[Water Conservation District Update](#)

Tom Crowley, Chair

Vacant, Chair  
Project Review Subcommittee

Ryan Shaw, Chair  
Engineering Subcommittee

Janett Robledo, Chair  
Conservation Subcommittee

5.b Seven Oaks Dam Update (Michael Moore)

5.c Enhanced Recharge Phase 1B Construction Progress (Leo Ferrando)

5.d Regional Recycled Water Projects - Bunker Hill-B Coalition, Regional Pipeline, and Weaver Basins (Leo Ferrando and East Valley Water District)

5.e 2023 Imported Water Review and Preliminary Planning for 2024 (Michael Plinski)

Other Business and Future Agenda Items

6) Adjourn - Next Regular Meeting: February 5 @ 1:30pm

**MINUTES  
OF  
THE  
BASIN TECHNICAL ADVISORY COMMITTEE**

**MEETING NO. 123**

**August 7, 2023**

**Attendees:**

Thomas Crowley, City of Rialto

George Hanson, Bear Valley Mutual Water Company

Brian Dickinson, City of Colton

Mallory O'Connor, Western Municipal Water District

Ryan Shaw, Western Municipal Water District

Joshua Aguilar, Western Municipal Water District

Farid I. Boushaki, Riverside Public Utilities

John Harris, City of Redlands

Betsy Miller, San Bernardino Valley Water Conservation District

Melody McDonald, San Bernardino Valley Water Conservation District

Richard Corneille, San Bernardino Valley Water Conservation District

Robert Stewart, San Bernardino Valley Water Conservation District

Paul Kielhold, San Bernardino Valley Municipal Water District

June Hayes, San Bernardino Valley Municipal Water District

Gil Botello, San Bernardino Valley Municipal Water District

Wen Huang, San Bernardino Valley Municipal Water District

Jose Macedo, San Bernardino Valley Municipal Water District

Cindy Saks, San Bernardino Valley Municipal Water District

Adekunle Ojo, San Bernardino Valley Municipal Water District

Bob Tincher, San Bernardino Valley Municipal Water District

Melissa Zoba, San Bernardino Valley Municipal Water District

Shavonne Turner, San Bernardino Valley Municipal Water District

Leo Ferrando, San Bernardino Valley Municipal Water District

Michael Plinski, San Bernardino Valley Municipal Water District

Anel Perez, San Bernardino Valley Municipal Water District

Greg Woodside, San Bernardino Valley Municipal Water District  
Miguel Guerrero, San Bernardino Municipal Water Department  
Michael Moore, East Valley Water District  
Linda Jadeski, West Valley Water District  
John Thiel, West Valley Water District  
Nyles O’Harra, Yucaipa Valley Water District  
Cindy Li, Santa Ana Regional Water Quality Control Board  
Mark Eisen, STANTEC

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

The meeting of the Basin Technical Advisory Committee was called to order by Chair Thomas Crowley, at 1:30 p.m. via Zoom and SBVMWD Board Room.

**Agenda Item 2. Public Comment.**

**Agenda Item 3. Approval of Minutes.**

- A. Approval of the Minutes of the April 6, 2023, meeting.**
- B. Approval of the Minutes of the June 14, 2023, Special meeting.**

Brian Dickinson made a motion to approve the minutes, the motion was seconded by Michael Plinski. The summary minutes were accepted with no comments.

**Agenda Item 4. Presentations and Discussion Items.**

**A. Newmark Groundwater Contamination Superfund Site Project Briefing**

Miguel Guerrero of San Bernardino Municipal Water Department commenced the update to the Newmark Groundwater Contamination Superfund Site by providing background information on the Superfund clean-up effort. The City of San Bernardino sued the Federal Government in 1996 and settled in 2005, which transferred the EPA remedial system (wells and treatment plants) to treat for TCE and PCE contamination to San Bernardino and a \$69 million cash settlement for operations and maintenance of the system. Since the settlement, San Bernardino manages and operates the clean-up efforts which includes 14 wells with a combined capacity of about 13,000 gallons per minute and multiple water treatment plants. Mr. Guerrero highlighted that more than half of the water San Bernardino produces comes from this system. To date, the clean-up effort has produced about 500,000 acre-ft and has removed more than 4,000 pounds of TCE and PCE contamination from the Bunker Hill Basin. The overall remedy is supposed to take fifty years to complete or until San Bernardino deems it to be completed. If completion occurs prior to the fifty years, the remaining portion of the cash settlement would be split between San Bernardino and the U.S. Government (the Army).

The first of three proposed water supply permit amendments is to remove EPA well 003 and 004 from GAC treatment because PCE and TCE concentrations at these wells have remained below the respective MCLs and at or near the permit limit of 0.5µg/L. With this proposed change, water extracted from EPA wells 003, 004, 005 would be blended and conveyed directly to San Bernardino's water system. Like EPA wells 003 and 004, EPA well 005 also has low concentrations of PCE and TCE. The second proposed water supply permit amendment is to change the blending requirements for EPA well 005 from being required to blend with EPA wells 002, 003, and 004 to only needing to blend with EPA wells 003 and 004. The last proposed water supply permit amendment is to remove the extremely impaired source (EIS) designation from EPA wells 003, 004, and 005, which shows progress on the clean-up effort. The proposed water supply permit amendments are currently with the EPA for review.

EPA is managing the northwest portion of the Source Operational Unit (SOU). The EPA is developing a proposed clean-up plan and Record of Decision (ROD). The EPA is preparing to open public comment for the SOU remedial action as detailed in a proposed plan fact sheet and supporting RI/FFS documents. Their recommended remedial action to address PCE/TCE within the northwest SOU area is monitored natural attenuation (MNA). Given the limited amount of PCE remaining in the northwest area and that a significant portion of remaining mass is apparently trapped in bedrock, San Bernardino concurs with this approach. The EPA public comment period is August 10 through September 9, 2023.

Mr. Guerrero introduced Mr. Mark Eisen of STANTEC, to address any questions or concerns. No questions were asked by the BTAC. Chair Crowley recommended further updates shared with the BTAC.

## **B. Regional Water Resources Update.**

Michael Plinski of San Bernardino Valley Municipal Water District provided updates on the ongoing activities related to surface water recharge, State Water Project deliveries, and regional agreements and studies in 2023. He addressed some of the challenges San Bernardino Valley faced this year with maximizing imported water recharge including but not limited to facility constraints, construction activities, and local surface water flows that continue in some cases through August.

Mr. Plinski complimented the Conservation District for doing an excellent job in maximizing recharge and shared several pictures of the native water recharge activities. He also provided an update on the Enhanced Recharge Phase 1B and shared how retail agencies can help maximize imported water deliveries by taking delivery of water they ordered and the need for continued support for the San Bernardino Basin Groundwater Council. Furthermore, he addressed the Master Recharge Agreement with the Flood Control District (which excluded Cactus Basin), and the cooperative study agreements with the U.S. Geological Survey. He also highlighted the San Bernardino Basin Optimization Study, Salt and Nutrient Management Plan, Forecast Informed Reservoir Operations, and other initiatives to adaptively manage the water resources of the region.

### **C. Update on Western-San Bernardino Watermaster Activities.**

Adekunle Ojo of San Bernardino Valley Municipal Water District and Mallory O'Connor of Western Municipal Water District provided a summary of the Western-San Bernardino Watermaster for the current year. The Western-San Bernardino Watermaster prepared and submitted the Annual Report to the Superior Court of Riverside County by the August 1 deadline. They provided background information on the process including the recordation program, reconciliation, verification, and preparation of the annual report and supplemental volumes. The key findings of the 2023 Report are that all the requirements of the 1969 Western Judgment are in compliance in the San Bernardino Basin Area. They did note that the static water level for the three (3) index wells in Colton and Riverside Basin Areas were below the Judgment thresholds, which may require replenishment by San Bernardino Valley or other management actions. Miguel Guerrero clarified that the overextraction at RIX has reduced not only because their discharge amounts are less but they have also made some operational changes.

### **D. Forecast Informed Reservoir Operations (FIRO) Study for Seven Oaks Dam.**

Greg Woodside of San Bernardino Valley Municipal Water District provided an update on the FIRO Study that is being undertaken by San Bernardino Valley and Western Water at Seven Oaks Dam; other stakeholders contributing to the Study include the University of California at San Diego and the U.S. Army Corps of Engineers. The presentation clarified that the goal is to optimize water supply and environmental resources in addition to the Dam's primary goal of flood risk management. This is a multiyear effort and it has a potential to increase the amount of recharge that can be accomplished downstream of the Dam, thereby allowing the Region to maximize the water supply benefits.

### **Agenda Item 5. Quick Updates, Reminders, and Announcements.**

- A. Basin Optimization (SBV/Western): Adekunle Ojo reminded everyone on the next steps, indicating that WSC will be scheduling the stakeholder listening sessions and that the next workshop is on August 29.
- B. Salt and Nutrient Management Plan Project Update (SBV): Greg Woodside provided an update on the SNMP, sharing that staff is reviewing the work done to date and working with WSC on scheduling the next workshop. He also mentioned consideration of additional modeling.

### **Agenda Item 6. Other Business and Future Agenda Items.**

None

### **Agenda Item 7. Adjourn - December 11 @ 1:30 p.m.**

There being no further business, Chair Crowley, adjourned the meeting at 2:52 PM.

<p><b>APPROVAL CERTIFICATION</b> I hereby certify to approval of the foregoing Minutes of the Basin Technical Advisory Committee.</p> <p><b>Secretary</b> Date _____</p>
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Respectfully submitted,

Jose Macedo  
SBVMWD Chief of Staff/  
Clerk of the Board





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**DATE:** December 11, 2023  
**TO:** Basin Technical Advisory Committee (BTAC)  
**FROM:** Water Resources Staff  
**SUBJECT:** Proposed 2024 Meeting Schedule

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### **Recommendation**

Staff is recommending that the Basin Technical Advisory Committee (BTAC) hold its regular meetings in 2024 on the following dates @ 1:30 PM:

- **1<sup>st</sup> Quarter:** February 5
- **2<sup>nd</sup> Quarter:** June 3
- **3<sup>rd</sup> Quarter:** August 5
- **4<sup>th</sup> Quarter:** December 9

With the ongoing San Bernardino Basin Optimization process and periodic updates on State Water Project, Staff is confident that fewer BTAC meetings are appropriate since there are now several opportunities to engage and discuss basin management activities year-round. Subcommittees will continue to meet on a necessary basis to address relevant issues, and special BTAC meetings can be called if necessary.

### **Background**

BTAC has historically held bimonthly regular meetings on the first Monday of even-numbered months at 1:30 PM. In 2023, the meeting schedule was modified – the December 2022 meeting was held in January 2023 and the rest of the year’s schedule was quarterly: 2nd Quarter (April 3), 3rd Quarter (August 7), and 4th Quarter (December 11; rescheduled from Dec. 4 due to ACWA Fall Conference).



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**DATE:** December 11, 2023

**TO:** Basin Technical Advisory Committee (BTAC)

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

**SUBJECT:** Consider the 2024 BTAC Regional Water Management Plan

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### **Recommendation**

Provide input and approve the submission of the 2024 BTAC Regional Water Management Plan (Plan) to the Boards of Directors that are responsible for the overall management of the San Bernardino Basin Area – San Bernardino Valley Municipal Water District (San Bernardino Valley) and the Western Municipal Water District (Western Water).

### **Summary**

The attached Draft Plan summarizes the stewardship of water resources within the San Bernardino Valley in compliance with relevant judgments and agreements:

- **San Bernardino Basin:** The Plan meets the requirements of key legal documents including but not limited to the Seven Oaks Accord of 2004 and the Settlement Agreement of 2005, which set some conditions and threshold for groundwater recharge. With about 1 million acre-feet of empty storage space to reach full usable storage of 5,690,000 acre-feet while still maintaining water levels around 50 feet below ground surface, there is sufficient space to accommodate a record wet year locally while maintaining an artificial recharge program of almost 200,000 acre-feet without causing high groundwater or impacting contamination plumes. The primary recommendation is to maximize imported water use and recharge all Santa Ana River water diverted under the two water right permits held by San Bernardino Valley and Western Water.
- **Colton and Riverside Basin:** Appendix G shows compliance with water level requirements for the three (3) index wells in the 1969 Western Judgment while Appendix C tracks the replenishment obligation in the Riverside North Basin related to the Riverside Agreement.
- **Rialto-Colton Basin:** The larger Rialto-Colton Basin is in dire need of artificial recharge, which cannot be accomplished until the San Bernardino County Flood Control District allows

recharge at the Cactus Basin and the San Bernardino Valley completes necessary improvements.

- **Yucaipa Basin:** The Basin is in stable condition and is being managed by the Yucaipa Sustainable Groundwater Management Agency. The recommendation is to continue to utilize available State Water Project water to recharge the Basin and meet direct delivery needs.
- **State Water Project:** The recommendation is to prioritize direct deliveries to drinking water treatment facilities (in-lieu recharge), maximize recharge in San Bernardino and Yucaipa Basins, and carryover an amount sufficient to meet essential direct delivery needs in 2025. The 2024 Table A final allocation will be reflected in the May 2024 update of this Plan.

### **Background**

Within San Bernardino Valley service area, over 60% of the water demand is met by groundwater and of that groundwater, over 70% comes from the San Bernardino Basin Area (SBBA). Given the importance of the SBBA, there are many judgments and agreements that guides the management of the Basin including but not limited to the 1969 Western Judgment, the 2004 Seven Oaks Accord, and the 2005 Settlement Agreement between the Water Conservation District, San Bernardino Valley, and Western Water just to mention a few. Furthermore, the 2007 *Upper Santa Ana Watershed Integrated Regional Water Management Plan* created the BTAC and the annual BTAC Regional Water Management Plan (“Plan”) to track compliance with all the requirements of the various judgments, agreements, and MOUs developed over the years.

In addition to serving as a compliance document for SBBA judgment and agreements, the Plan evolved to become a comprehensive document covering the other groundwater basins within San Bernardino Valley (Riverside North, Rialto-Colton, and Yucaipa) as well as the imported water resources available in the San Bernardino Valley for deliveries to drinking water treatment plants and artificial recharge of the groundwater basins. Typically, the Plan for the following year is prepared in November. However, since most water resources information will not be available until the following year, BTAC decided to do an update of the Plan the following May when key information such as the final State Water Project allocation and local precipitation index are available. The full Plan can be found at: <https://www.sbvmd.com/about-us/local-water-conditions>








### **Attachment**

Summary of the Plan

# Executive Summary

In December 2007, fourteen agencies adopted the Upper Santa Ana Watershed Integrated Regional Water Management Plan (Integrated Plan). This comprehensive water resources plan identifies various management strategies that will help ensure a reliable water supply for the San Bernardino, Yucaipa, Big Bear Valleys, and San Gorgonio Pass area. The Plan covers all, or portions of the cities and communities of San Bernardino, Riverside, Fontana, Rialto, Colton, Grand Terrace, Loma Linda, Highland, Redlands, Mentone, Yucaipa, Big Bear Lake, the San Timoteo Watershed, Beaumont, Banning, Cherry Valley and a large portion of the San Bernardino National Forest. Most of the planning area is within the boundaries of the San Bernardino Valley Municipal Water District (Valley District). The Integrated Plan was updated in 2020 as the Upper Santa Ana Watershed Integrated Regional Urban Water Management Plan (IRUWMP).

The Basin Technical Advisory Committee (BTAC), made up of water agency staff and other stakeholders, was formed to implement the Integrated Plan. Each year, the BTAC prepares its Regional Water Management Plan (RWMP) for consideration by the two Boards that make up the Western-San Bernardino Watermaster: Western Municipal Water District and Valley District. The goal of the RWMP is to evaluate the three, general water management goals based on the Integrated Plan and the underlying agreements and judgments.

<u>Goal</u>	<u>Description</u>	<u>Management Action(s)</u>	<u>Status</u>
	<b>Manage Water Levels.</b> Water levels that are too high can cause liquefaction in an earthquake.	Recharge thresholds are set to maximize recharge while avoiding high groundwater	
	<b>Manage Santa Ana River Diversions.</b> Mitigate for Valley District and Western Municipal Water District diversions that would have recharged the SBB and the Riverside North Basin.	A minimum of 17% of diversions shall be recharged in the SBB.  Recharge in Riverside North tracked by Watermaster Table 17-C.	  
	<b>Manage Contaminant Plumes.</b> We do not want management actions to cause additional spread of the existing contaminant plumes.	Recharge thresholds are set to reduce, or eliminate, any impacts to contaminant plumes.	

# 2024 Regional Water Management Plan

## WATER RESOURCES AND FORECAST:

	Dec. 2023	May 2024
<b>State Water Project (SWP) Allocation</b>	<b>Initial; 10%</b>	
<b>SBVMWD/WMWD Santa Ana River Diversions for WY2023-24 (acre-feet)</b>	<b>Low</b>	
<b>San Bernardino Basin Conditions:</b>		
Liquefaction Potential:	<b>Low</b>	
Leakage across the San Jacinto Fault:	<b>Low</b>	
Total Storage, 2022 (acre-feet)	<b>4,658,475</b>	
Estimated Storage Space Available, Fall 2022 (acre-feet)	<b>(1,031,525)</b>	
Artificial recharge threshold in SBBA (no high groundwater or plume movement) (acre-feet)	<b>625,000</b>	
Total Change in Storage Trend	<b>Down/Stable</b>	
Subsidence Risk?	<b>Appendix H</b>	
<b>Riverside North Basin Condition</b>	<b>Appendix C</b>	
<b>Water Levels</b>	<b>Appendix D</b>	
<b>Precipitation Trend</b>	<b>Down; Appendix E</b>	
<b>Rialto-Colton Basin Condition</b>	<b>Appendix G</b>	
<b>Yucaipa Basin Condition</b>	<b>Appendix J</b>	

## BTAC RECOMMENDATIONS:

	Dec. 2023	May 2024
<b>SBVMWD/WMWD Santa Ana River Diversions:</b>		
Direct delivery	None	
Artificial Recharge (17% required by Riverside Agreement unless credits)	All	
Exchange (long-term storage/banking, 40 cfs max)	None	
<b>Additional San Bernardino Basin pumping to lower water levels:</b>	No	
<b>State Water Project Water:</b>		
<b>Available (estimate as of Dec. 1, 2023):</b>		
Carryover (acre-feet) from 2023	49,500	
Kern-Delta Water Bank (5,000 af/yr maximum)	2,907	
Big Bear Lake (Table A <= 40%)	-	
Entitlement (acre-feet) - 10% Initial Table A allocation	10,260	
Yuba Accord (acre-feet)		
<b>TOTAL STATE WATER PROJECT SUPPLIES</b>	<b>62,667</b>	<b>-</b>
<b>Demands:</b>		
Estimated Direct Deliveries	21,725	
CLAWA Sale (acre-feet)	200	
<b>Recommended uses for available State Water Project Water:</b>		
Short-term (carryover) storage into 2025 for direct deliveries (acre-feet)	11,132	
SBB Groundwater Council (acre-feet) and other recharge	29,610	
Long-term storage/banking (acre-feet)	TBD	
Sale	TBD	
<b>TOTAL USE</b>	<b>62,667</b>	

# 2024 Regional Water Management Plan (continued)

## BTAC RECOMMENDATIONS (Continued):

### Artificial Recharge Targets (Local and Imported Water)

	Recommended Maximum (AF)	Estimated Recharge Capacity (AFY)*
<b>San Bernardino Basin</b> <sup>1,2</sup>		
1. Waterman Basins & 9. East Twin Creek Spreading Basin	54,625	29,160
2. Santa Ana Basins	71,250	81,000
3. Mill Creek Basins	42,750	54,000
4. City of Redlands Spreading Basins	-	
5. Bear Valley Spreading Basin	-	
6. Santa Ana River Bottom	-	Variable
7. Patton Basin	-	
8. EVWD Turnout	-	
10. Badger Basins	8,313	2,025
11. Wiggins Basin	-	
12. Devil Canyon & Sweetwater Basins	13,063	12,150
13. Gravel Pits	-	
14. Others, including City Creek and streambeds	-	Variable
<b>Sub-total SBBA</b>	<b>190,000</b>	<b>178,335</b>

<sup>1</sup> Suggested maximum recharge values. See Appendix F.

<sup>2</sup> Due to shallow groundwater levels in this area, exceeding this value may result in rejected recharge at this location.

\*Assumes 75% firm capacity based on percolation rate and monthly capacity; equivalent to nine (9) months of continuous recharge

	Recommended Maximum (AF)	Estimated Recharge Capacity (AFY)
<b>Rialto-Colton Basin</b>	7,000	-
<b>Yucaipa Basin</b>	5,000	8,000
<b>Riverside North Basin</b>		
SBVMWD Recharge in Riverside North (Watermaster Table No. 17C)	7,543	-
Other	-	-

## Other Requirements

<b>Water Level Requirements of Agreements met?</b>	Yes	
<b>Triennial water quality report provided to RWQCB?</b>	Submitted to RWQCB in December 2021	



# Partnering with Nature to Store Our Water



**San Bernardino Valley  
Water Conservation District**





# Mission

As one of California's first sustainable groundwater replenishment agencies, the District proactively recharges and improves groundwater for the benefit of water users, local businesses, and native flora and fauna in a financially responsible way.

The District leverages our unparalleled expertise as stewards of the water and land, responsibly innovating in water and habitat conservation, harmonizing and enhancing working landscapes, and enriching open space as a community asset.



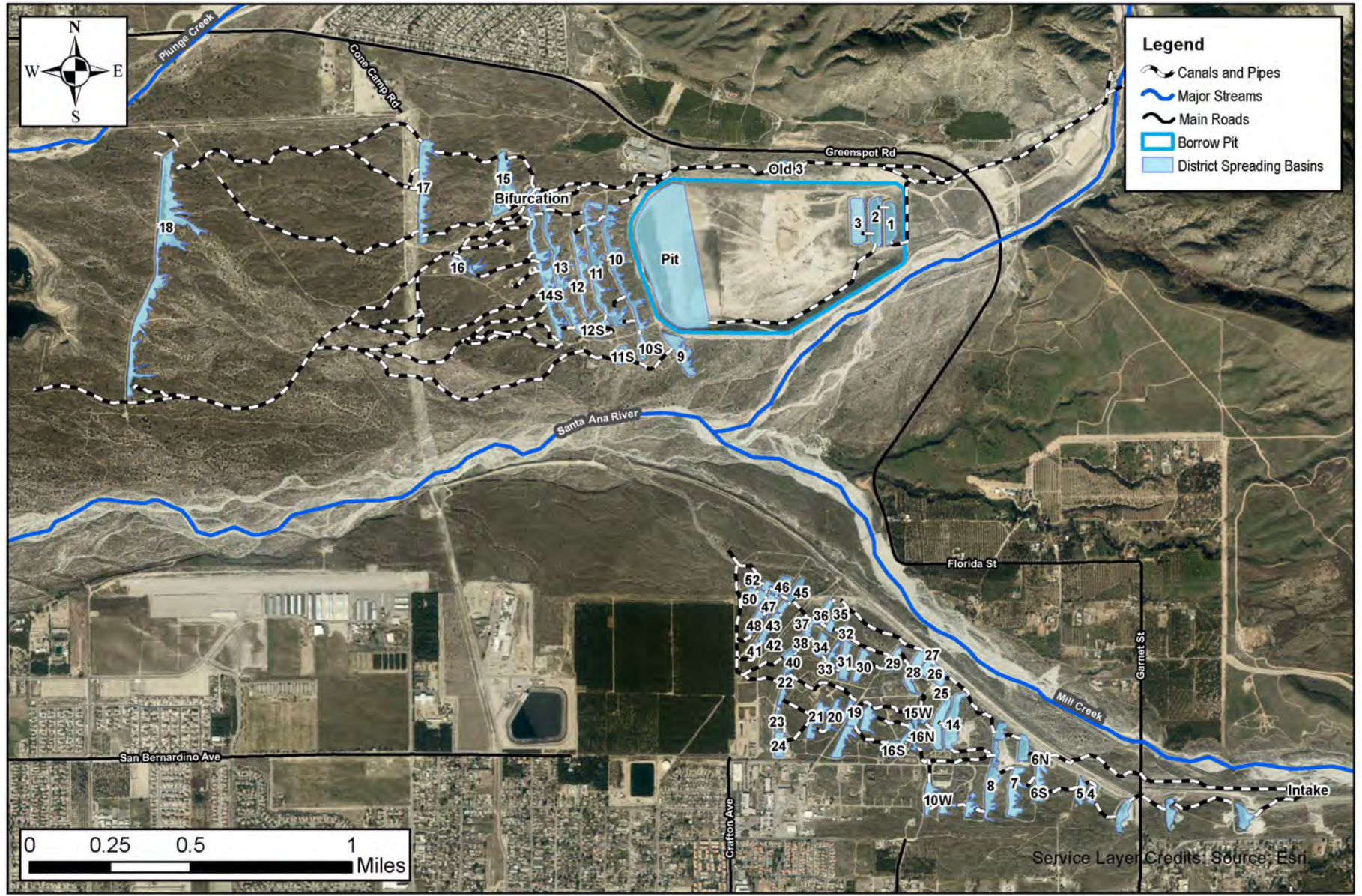


# 2023 Recharge Update



# San Bernardino Valley Water Conservation District - Spreading Facilities

Coordinate System:  
 NAD 1983 StatePlane California V FIPS 0405 Feet  
 Projection: Lambert Conformal Conic  
 Datum: North American 1983  
 Source: SBVWCD, CASIL, SBVMWD  
 GIS Contact: K. Scholte  
 September 12, 2022











# SBVWCD 2023 Recharge

- 2023 Water Year
  - 5,236 AF SWP recharge
  - 11,573 AF in-stream recharge
  - 68,493 AF local stormflow recharge
  - **85,302 AF total WY recharge**
- 2023 Calendar Year
  - 12,982 AF SWP recharge
  - 72,384 AF local stormflow recharge
  - **85,366 AF total CY recharge**
- 1912 - November 30, 2023
  - 1,262,353 AF local stormflow recharge
  - 139,233 AF SWP recharge
  - **1,401,585 AF total recharge**

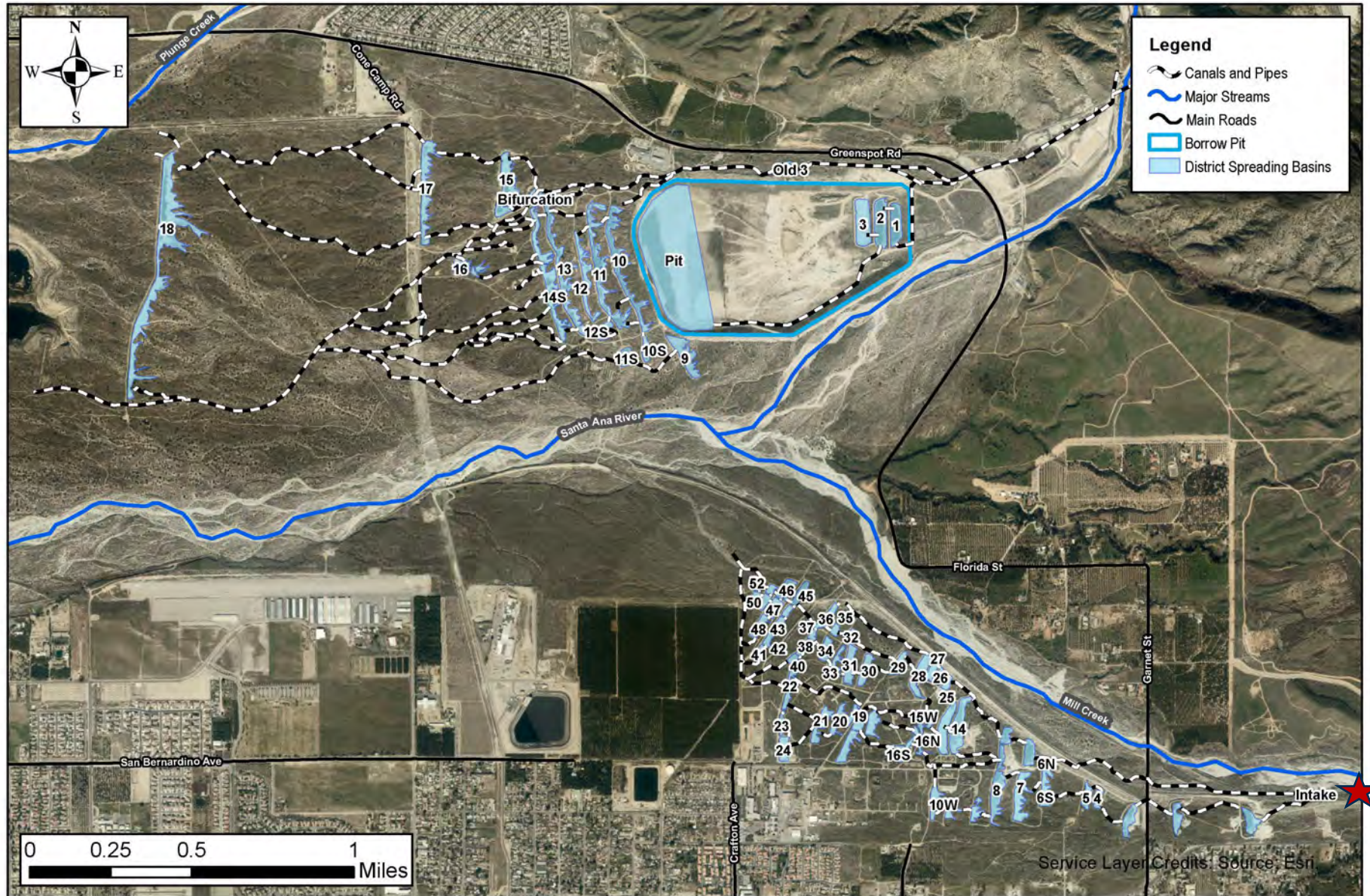


# Mill Creek Diversion Replacement Update



# San Bernardino Valley Water Conservation District - Spreading Facilities

Coordinate System:  
 NAD 1983 StatePlane California V FIPS 0405 Feet  
 Projection: Lambert Conformal Conic  
 Datum: North American 1983  
 Source: SBVWCD, CASIL, SBVMWD  
 GIS Contact: K. Scholte  
 September 12, 2022



































# Mill Creek Diversion Replacement

- Goals
  - Maintain water diversion during high flow events
  - Limit impacts to diversion from debris
  - Decrease maintenance costs due to sediment accumulation
- Permits
  - U.S. Army Corps of Engineers 404 permit
  - U.S. Army Corps of Engineers 408 permit
  - Regional Water Quality Control Board 401/WDR permit
  - California Department of Fish and Wildlife 1600/Lake and Streambed Alteration Agreement
  - San Bernardino County Flood Control encroachment permit
- Schedule
  - August 14, 2023 – December 15, 2023
- Budget
  - \$2,204,795