



SANTA ANA WATERSHED  
PROJECT AUTHORITY

# Project Agreement 23 Committee Budget for Fiscal Year Ending 2026

Project Agreement 23 Committee

April 1, 2025

Karen Williams

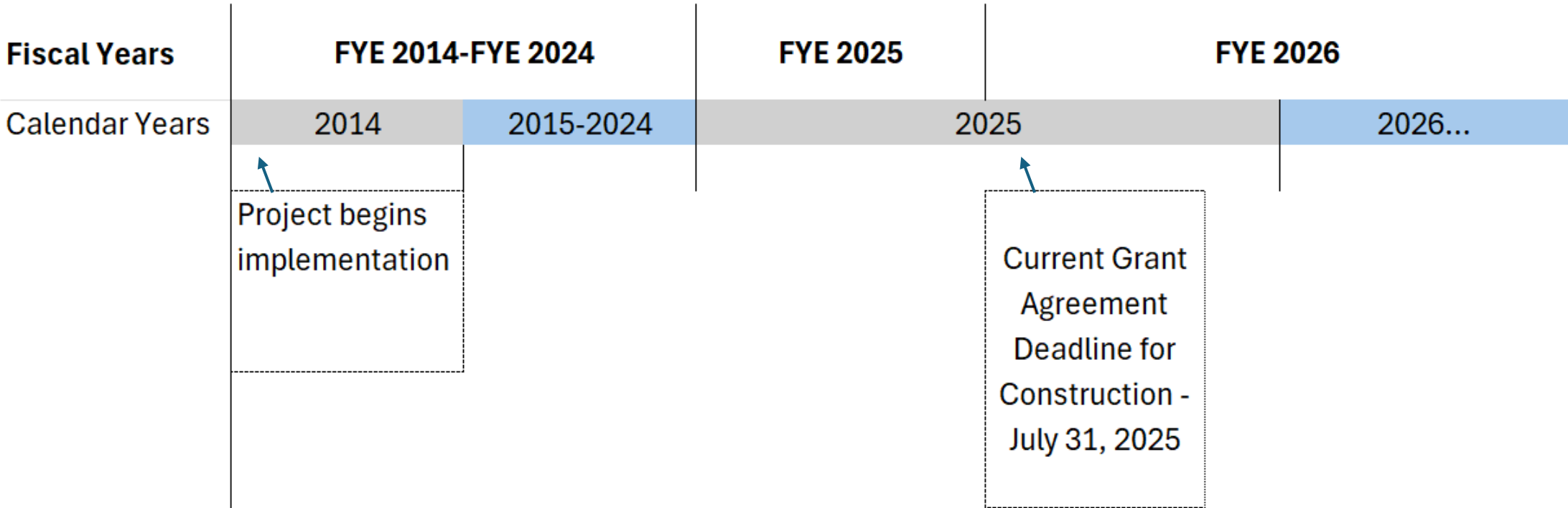
Deputy General Manager & Chief Financial Officer

# Overview of Presentation

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- Provide background on Project Agreement (PA) 23 Committee budget process and request adoption of Fiscal Year Ending (FYE) 2026 budget
- **Recommendation**
  - Adopt FYE 2026 PA 23 Committee Budget

# Schedule Reflecting Latest DWR Grant Agreement Amendment



PA 23 Committee Budget only includes FYE 2026 since that is reflective of the schedule in the latest approved grant agreement amendment. Grant agreement deadline for administration is November 30, 2025.

# PA 23 Budget Process

- A budget is required per Section 10 of Project Agreement
- PA 23 budget is also incorporated into SAWPA two-year budget
  - SAWPA two-year budget is planned for adoption in June 2025 Commission meeting.
- Historically the PA 23 Committee budget has included SAWPA member agency “participant fees”. The Fiscal Year Ending 2026 budget has no member agency participant fees.
  - Carryover participant fees will cover costs in this budget.



# Total Funding in Grant Agreement

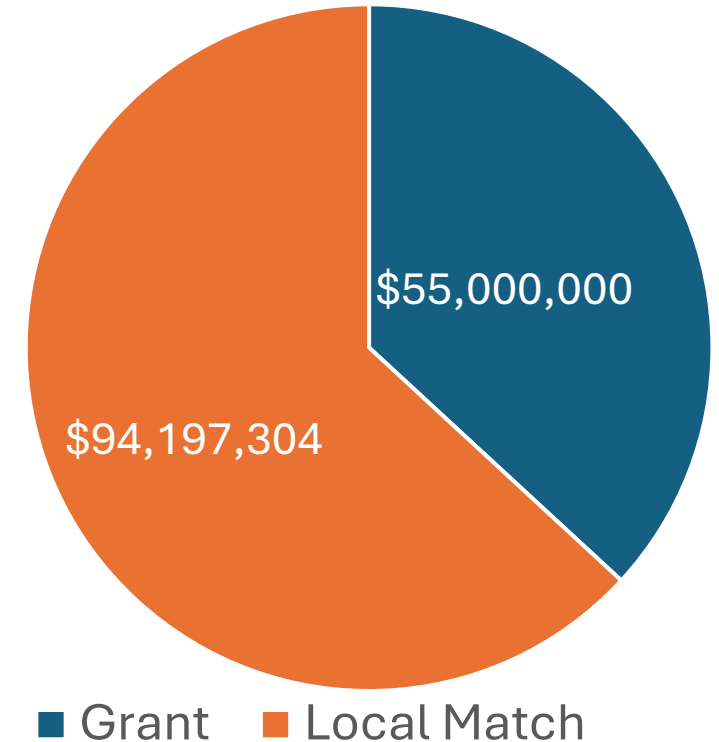


## Prop 84 Grant Agreement

Total Cost in Grant Agreement:  
**\$149,197,304**

### Components in Grant Agreement:

- Conjunctive Use
- Habitat
  - Arundo Donax
  - Santa Ana Sucker
- Project Management\*
- Water Use Efficiency\*

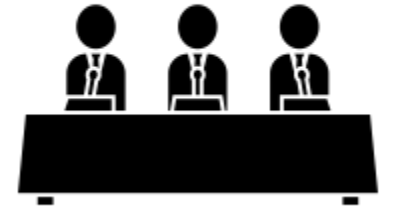


Total Cost in Grant Agreement:  
**\$149,197,304**

\*The two SAWPA-led items included in PA 23 budgets.

# SARCCUP Project Management

- SAWPA staff
  - Support PA 22 and PA 23 Committees
  - Prepared Committee agendas and materials
  - Coordinating items with SARCCUP project sponsors
- Woodard and Curran
  - Coordinates/reviews the invoicing of DWR
  - Facilitates bi-monthly SARCCUP planning managers meeting
  - Maintains schedule and deliverable tracking



# FYE 2026 Budget for Adoption


<b>Expenses</b>	Actual (Through				Proposed
	Actual	12/31/2024)	Projected		
Budget Line Item	FYE 2024	FYE 2025	FYE 2025		FYE 2026
SAWPA Labor <sup>o</sup>	\$36,224	\$2,535	\$5,069		\$50,073
W&C Project Mgmt Consultant*	\$90,945	\$45,110	\$90,221		\$100,000
Legal Fees <sup>o</sup>	\$333	\$0	\$400		\$400
NV5 Water Budget Consultant* <sup>o</sup>	\$623,998	\$0	\$0		\$0
<b>Total</b>	<b>\$751,500</b>	<b>\$47,645</b>	<b>\$95,690</b>		<b>\$150,473</b>

\* Funded by participant fees


<sup>o</sup> Funded by grant

Prop 84 Grant Funding will revert on July 30, 2026

# Budget With Detailed Funding Sources

Revenues 		Actual (Through 12/31/2024)		Projected	Proposed
Budget Line Item	FYE 2024	FYE 2025	FYE 2025	FYE 2025	FYE 2026
Prop 84 Grant	\$156,225	\$2,535	\$5,469		\$50,473
Participant Fees to Invoice	\$0	\$0	\$0		\$0
Participant Fees Used from Reserves	\$595,275	\$45,110	\$90,221		\$100,000
<b>Total</b>	<b>\$751,500</b>	<b>\$47,645</b>	<b>\$95,690</b>		<b>\$150,473</b>

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<sup>o</sup> Funded by grant



# Use of SARCCUP Participant Fees

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- **Status of unused participant fees**
  - Funding remains from Woodard & Curran PM tasks for SARCCUP Program
- **Previous discussion with Member Agencies (Fall 2024)**
  - SAWPA staff proposed repurposing those funds (~\$290K) to support development of the CARP
  - **Rationale:** The additional funding would help ensure the success of the CARP

# Update on Unused SARCCUP Participant Fees

- **Proposed Approach:**

- Use of the SARCCUP cost savings to advance CARP tasks
- Included the following Optional Tasks in the CARP RFP:
  1. Enhance the geospatial database
  2. Enhance the digital presence (online platform)
  3. Develop functionality for public agencies and stakeholders on the online platform
  4. Document watershed and regional-scale predictive climate factor trends for use by public agencies
  5. Enhance regional adaptation project concepts and roadmap
- Next Steps:
  - Finalize scope and budget with Woodard & Curran (CARP consultant) – March 2025
  - Present scope and budget to SAWPA General Managers – April 2025
  - General Managers approve use of funds for CARP – May 2025
  - Present optional tasks to Commission – May/June 2025

# Recommendation

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Adopt FYE 2026 PA 23 Committee Budget.

# Thank You

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SANTA ANA WATERSHED  
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# **Adoption of Amendment No. 6 to SBVMWD SARCCUP Component**

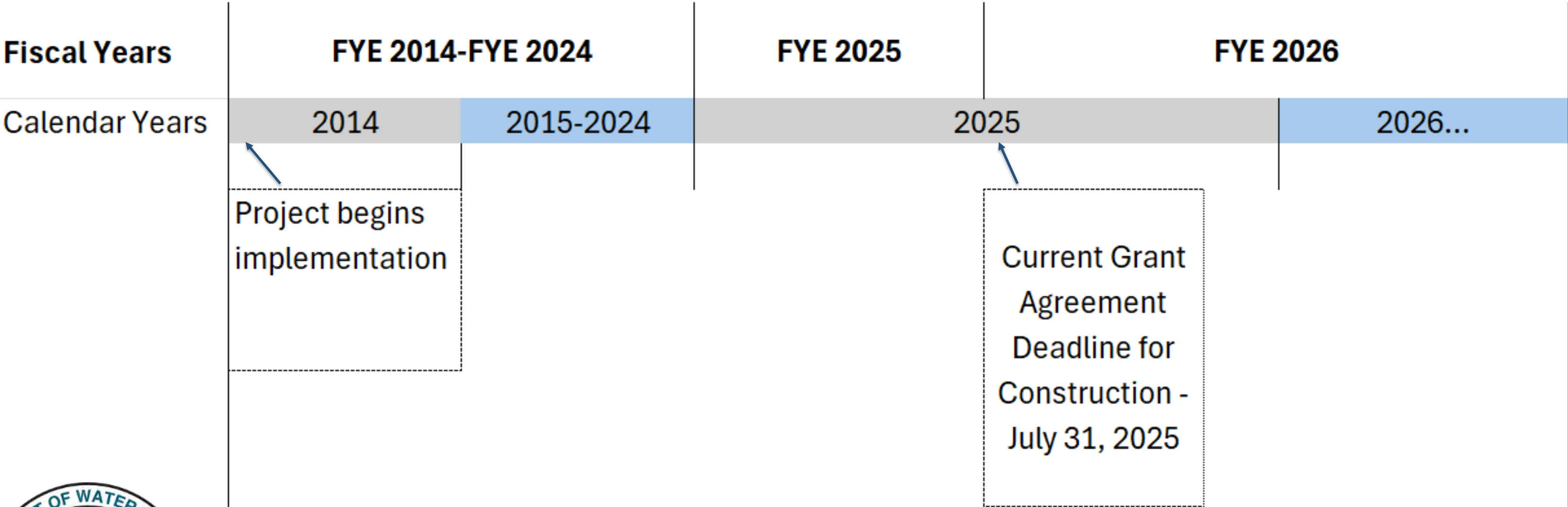
Project Agreement 23 Committee  
Item Number 6.B

Rachel Gray, SAWPA Water Resources & Planning Manager

Joanna Gibson, SBVMWD Executive Director Upper Santa Ana River Habitat Conservation Plan

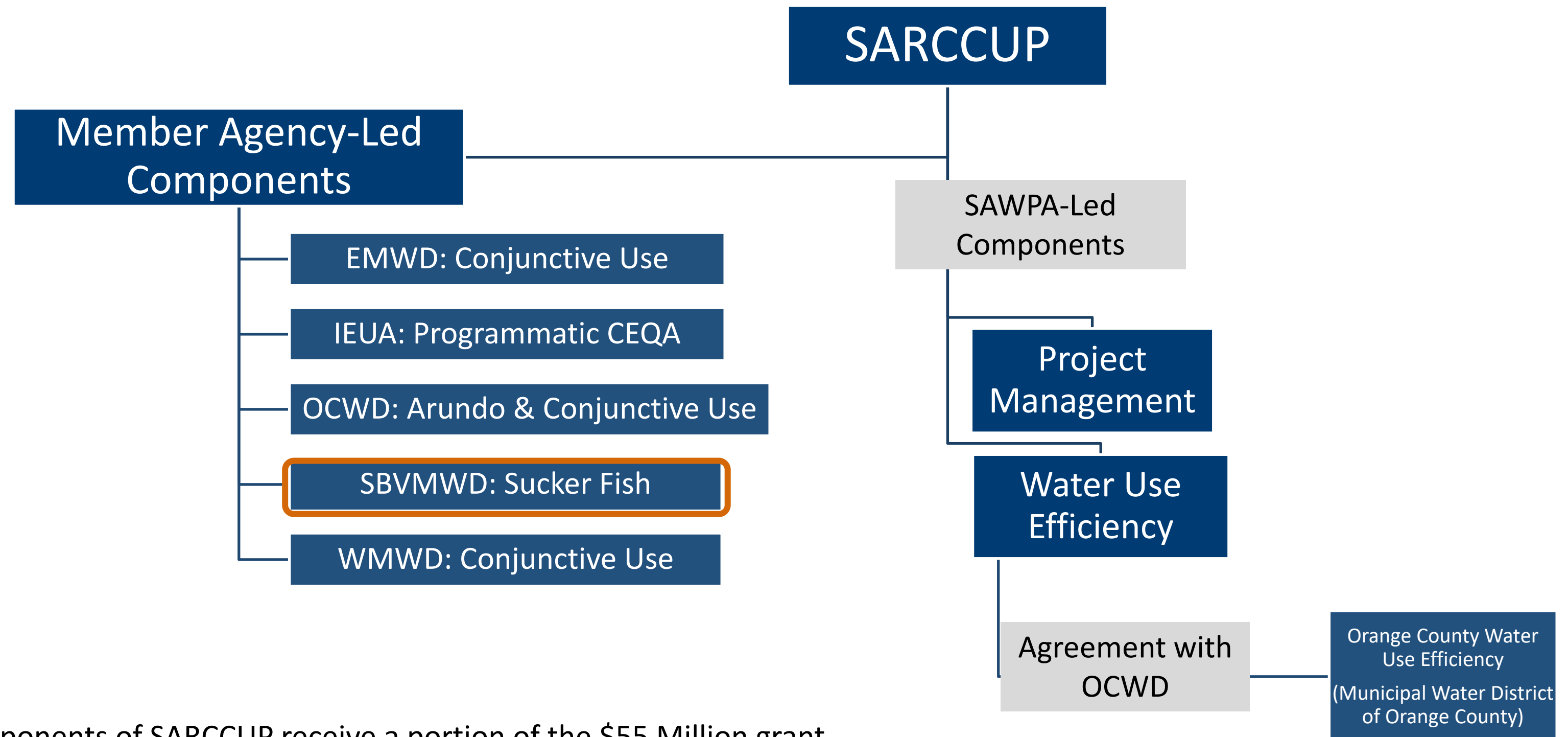
April 1, 2025

# SARCCUP Schedule (Current)



Note: Schedule end date is important as it is included in the Proposition 84 Department of Water Resources \$55 Million Grant Agreement.

# Grant Amendment



Note: All components of SARCCUP receive a portion of the \$55 Million grant.

# Recommendation



1. Time extension for construction (mid-January 2026)
2. Amend the Grant Agreement language for two of the SARCCUP Santa Ana Sucker Fish Streams (Hidden Valley and Anza Creek):
  - “Construction at the two creeks will be underway, with construction completed after the grant agreement schedule end date.”
  - Similar language was used for an Orange County well (described in Project Updates PowerPoint)
    - “One of the wells will just be drilled, and equipping will occur after the grant agreement’s construction end date, with well production thereafter.”
3. Add the **Santa Ana River Enhanced Recharge Phase 1B Project** to the Prop 84 SARCCUP Grant. This Project can be added in entirety, or only partially.

Note: SBVMWD requested this, SAWPA coordinated the request with DWR and the SAWPA Member agencies planning departments.



# Current Project: Santa Ana Sucker Streams



- Restore hydrology to maintain exposed gravel/cobble and flow conditions adverse to non-native fishes.
- Restore connection to Santa Ana River at the floodplain for access to tributary habitat.
- Assist with implementation of the Upper Santa Ana River Habitat Conservation Plan (regulatory document associated with Endangered Species Act).





# Current Project: Santa Ana Sucker Streams

## Total Benefits (Four Streams):

- 2.8 miles of stream habitat (lines in blue and red)
- 60 acres riparian habitat surrounding the streams (green)





# Current Project:

## Santa Ana Sucker Streams



- Advertised for bids for construction of Anza and Hidden Valley Creeks: May 28, 2024
- Bid opening: July 16, 2024.
- All bids rejected August 20, 2024
- Moved forward with SBVMWD staff:
  - Clear and grub & 50% rough grading complete at Hidden Valley Creek
  - Clear and grub, rough grading underway at Anza Creek
  - Work ongoing at Lower Hole Creek and Old Ranch Creek





# Project Constraints and Outcome

## Constraints:

- Nesting bird season (a lot of least Bell's vireo)
- Working in an active flood plain
- Two storm drain outlets requiring demobilization

## Outcome:

- Construction completion delay (est. July 1, 2026)





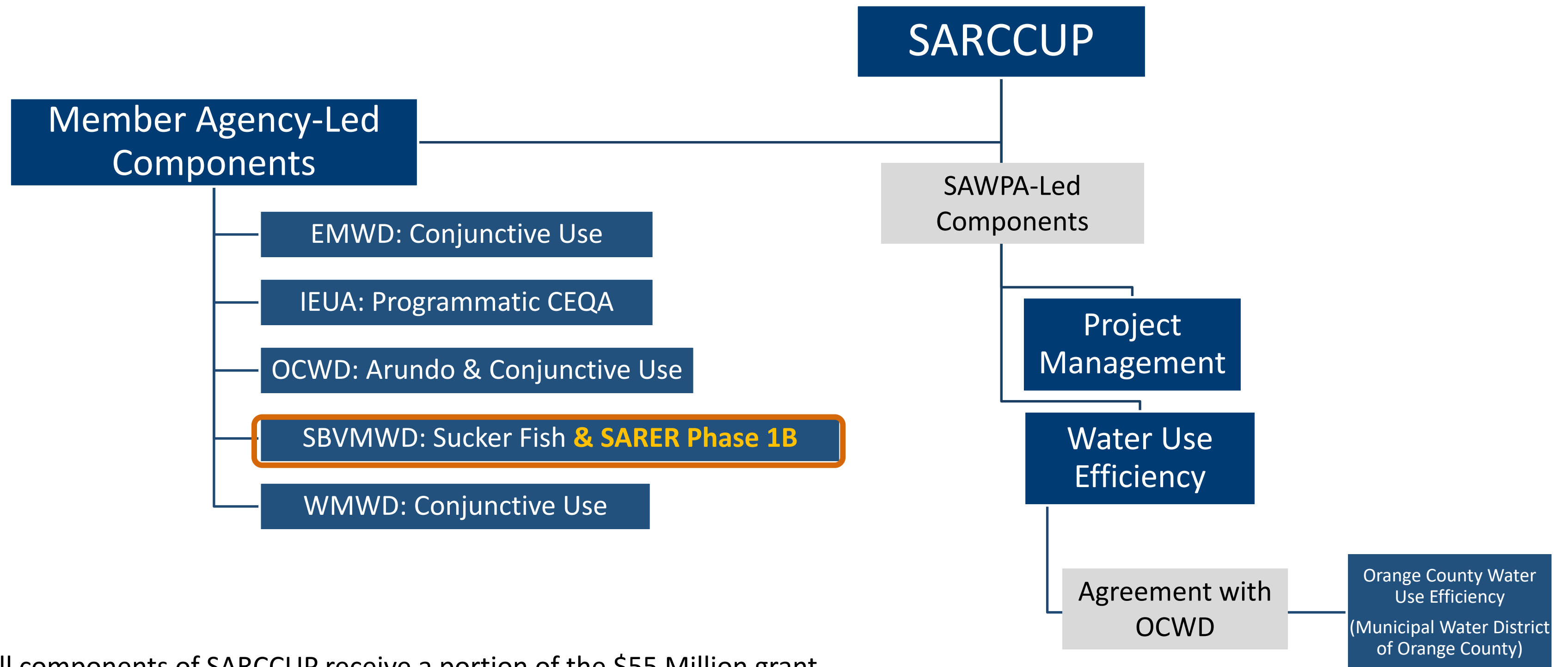
# Proposed Project Addition: Santa Ana River Enhanced Recharge Phase 1B



- Provides the region with additional local water supply that will help diversify the regional water supply portfolio and enhance conjunctive use opportunities.
  - In addition to recharge of local water, Phase 1B can accept and recharge State Water Project (imported) water
  - 15,412 AFY and up to 80,000 AF in a single wet year



# Amendment



Note: All components of SARCCUP receive a portion of the \$55 Million grant.

# Recommendation



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Note: SBVMWD requested this, SAWPA coordinated the request with DWR and the SAWPA Member agencies planning departments.

# Thank You

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# Santa Ana River Conservation and Conjunctive Use Program Update

Project Agreement 23 Committee  
Item Number 6.C

Rachel Gray Water Resources & Planning Manager  
And  
Member Agency Staff

April 1, 2025

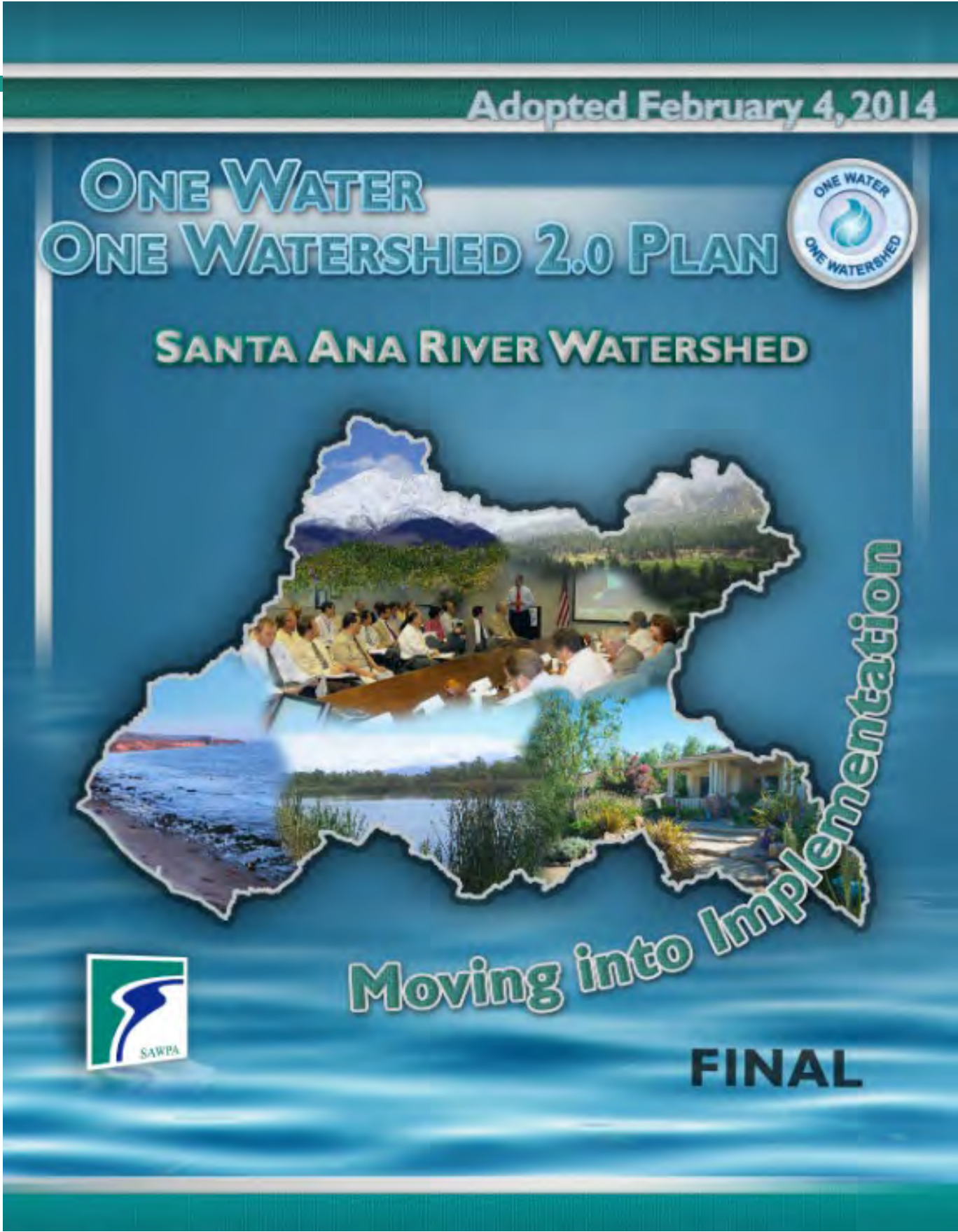
# SARCCUP and OWOW Plan Goals

SARCCUP achieves several goals:

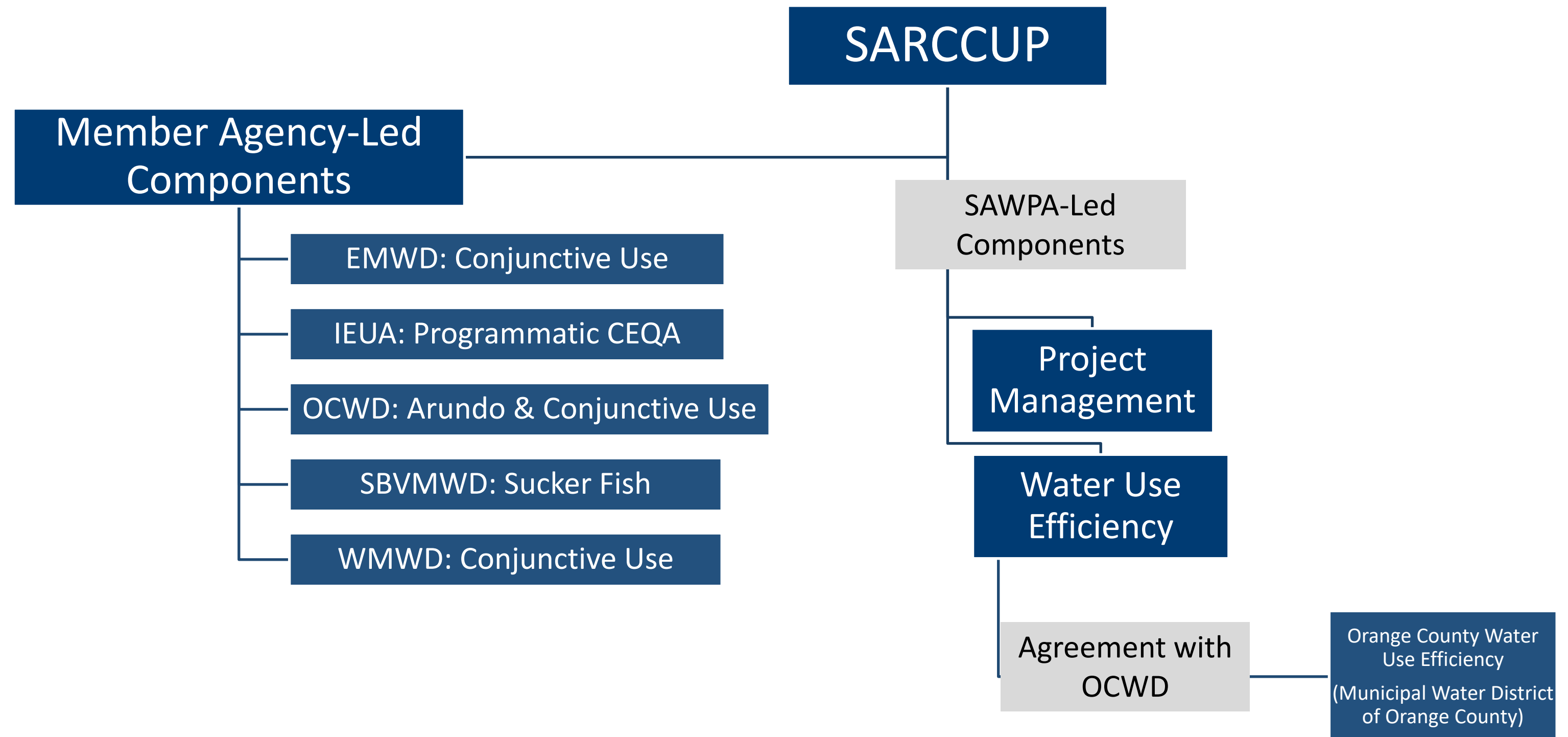
- 1) Multi-Agency Collaboration
- 2) Watershed-wide Program
- 3) Develop dry-year supply by banking wet-year water
- 4) Implement:
  - a) Water conservation measures and
  - b) Habitat restoration efforts.

OWOW 2.0 water supply-related goal:

OWOW 2.0 Goal	OWOW Performance Targets for 2035
Maintain reliable and resilient water supplies and reduce dependency on imported water.	Create <b>58,000 AFY</b> using a combination of additional wells, treatment, conjunctive use storage, and desalination of brackish groundwater.



# SARCCUP Components





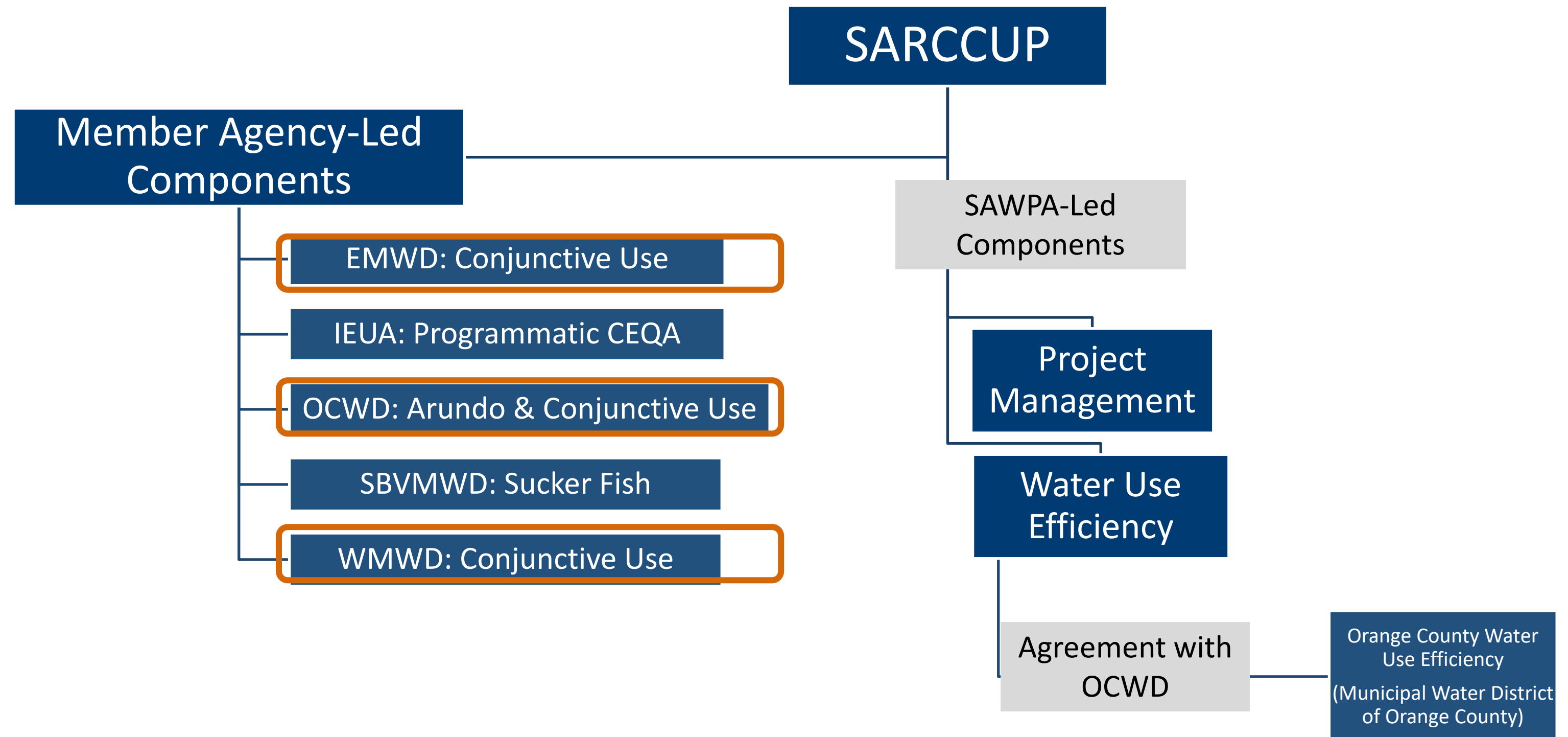
# SARCCUP Schedule

Fiscal Years	FYE 2014-FYE 2024		FYE 2025	FYE 2026
Calendar Years	2014	2015-2024	2025	2026...
	Project begins implementation		Current Grant Agreement Deadline for Construction - July 31, 2025	



Note: Schedule end date is important as it is included in the Proposition 84 Department of Water Resources \$55 Million Grant Agreement.

# Conjunctive Use Updates



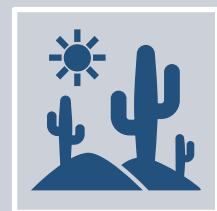
# Purpose of SARCCUP Conjunctive Use Water Bank



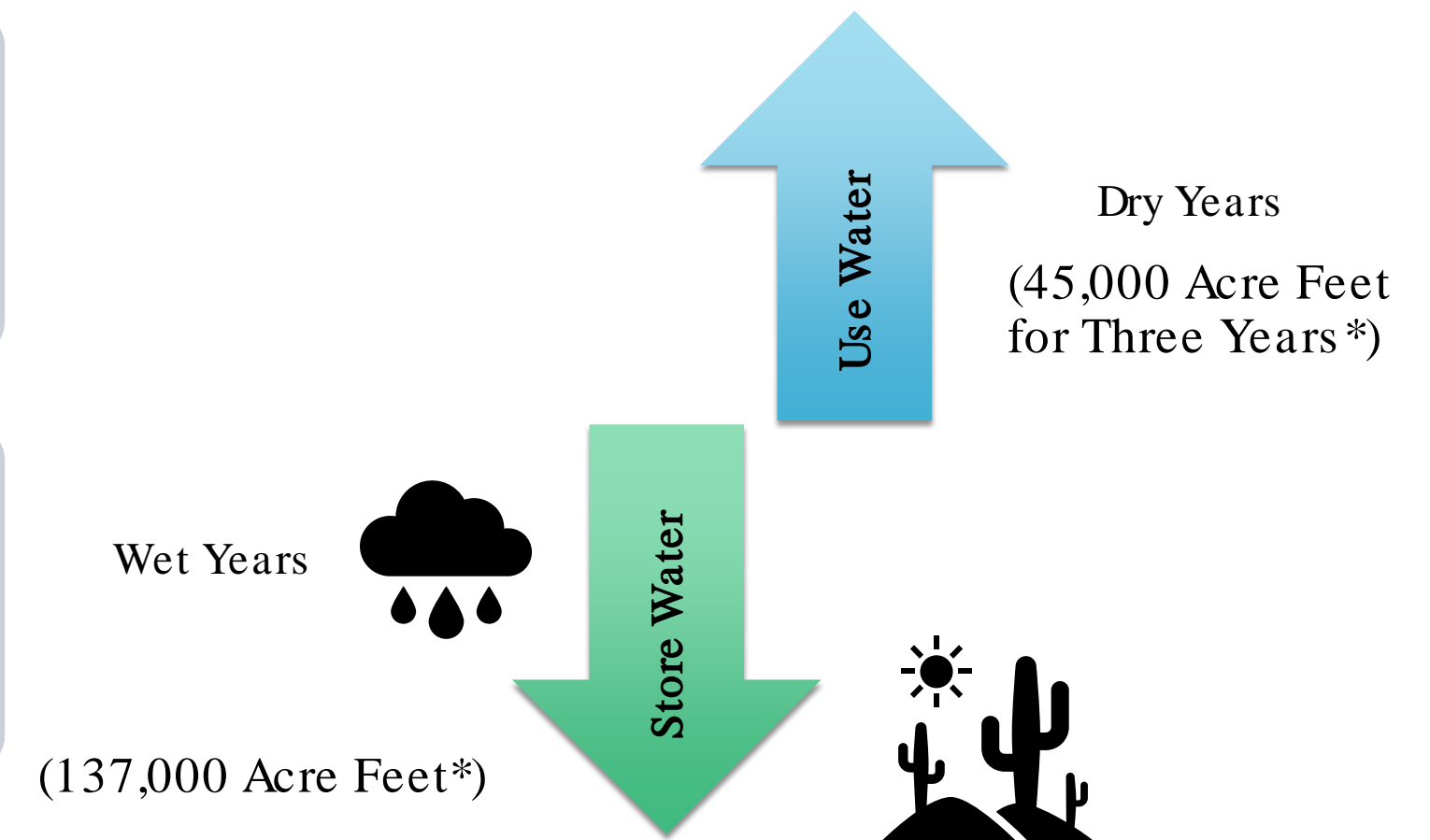
The primary goal is to maximize the storage of wet year imported water supplies that can later be used during droughts.



SARCCUP able to store approximately 137,000 acre-foot (AF) with the capacity to recharge and store up to 60,000 AF per year (AFY) during wet years.



Dry year supply approximately 45,000 AFY for 3 years.\*



The target amounts for storage and use are dependent upon actual hydrology.

\*To reduce costs, in lieu exchanges will be used in place of direct deliveries as much as possible.

# Conjunctive Use Water Bank Storage Locations

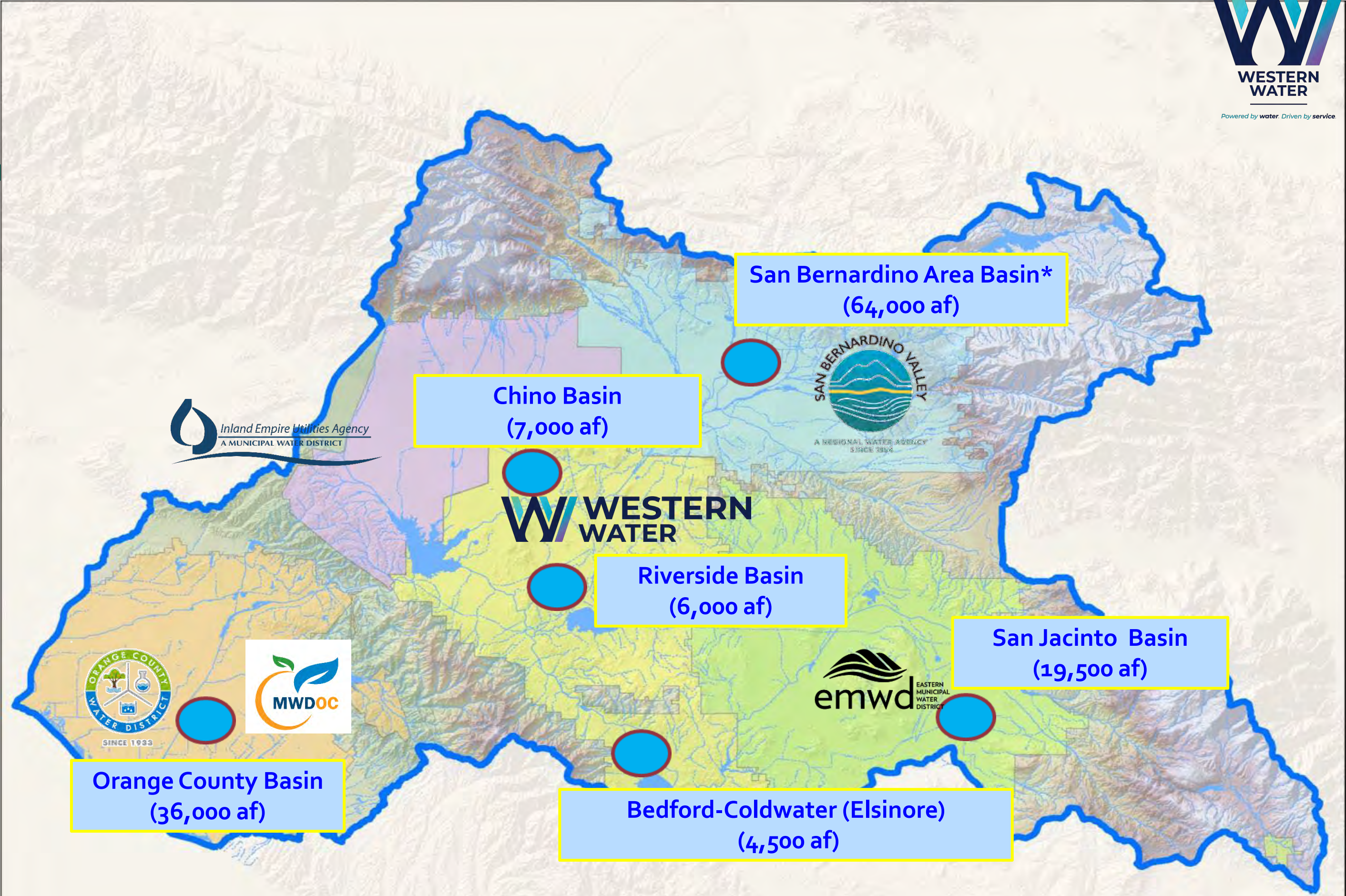
Basin	Storage (Acre Feet) Approximate Amount*
Chino	7,000
Elsinore	4,500
Orange County	36,000
Riverside-Arlington	6,000
San Bernardino	64,000
San Jacinto	19,500
<b>Total</b>	<b>137,000</b>

\*The target amounts for wet year storage and dry year supply are dependent upon actual hydrology.



# SARCCUP Storage

Interconnections  
and project  
conveyance  
components allow  
direct deliveries  
amongst basins



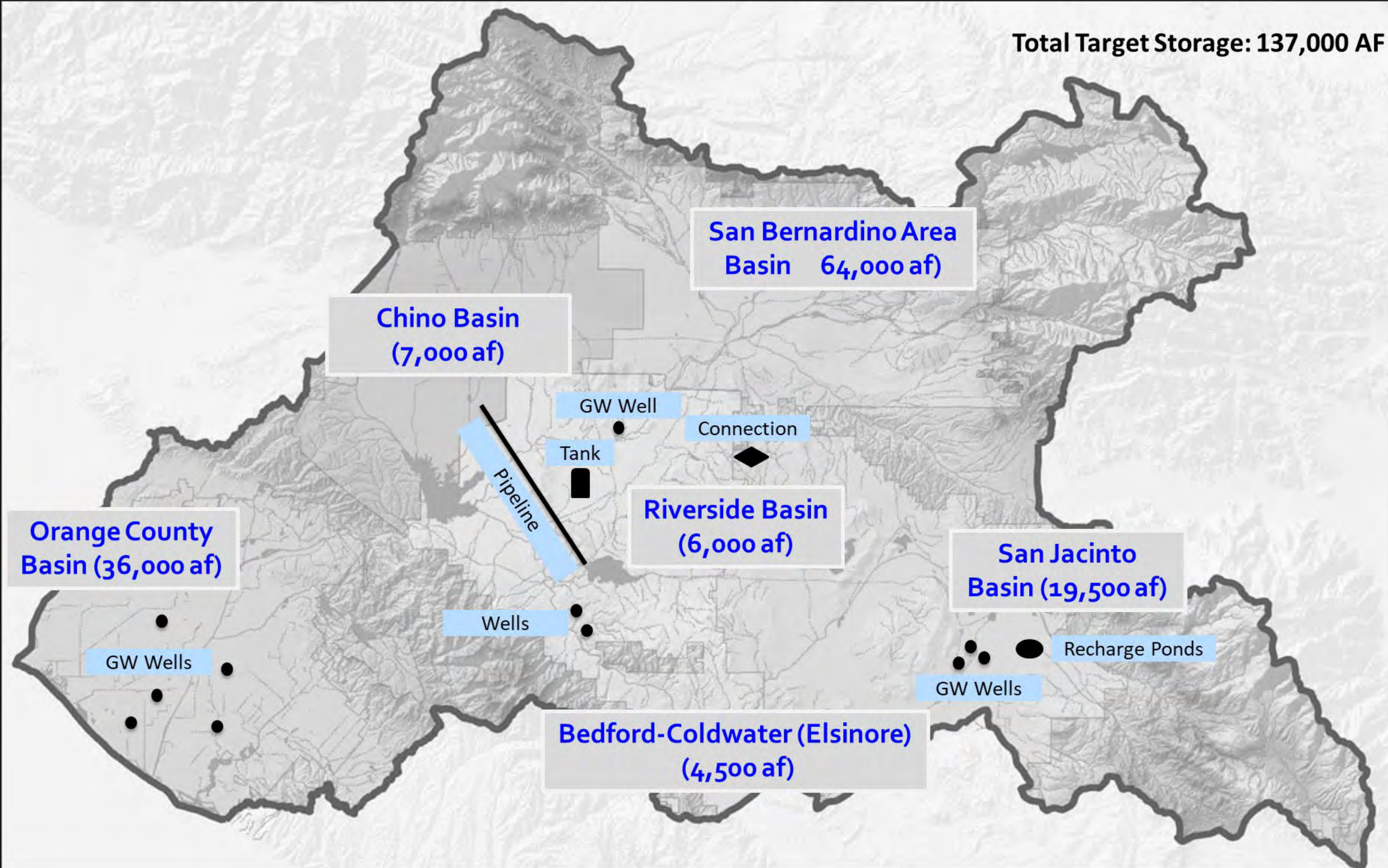
\* Not a Metropolitan Member Agency; SBVMWD is a State Water Project Contractor



# New SARCCUP Facilities

New SARCCUP  
Facilities (Black)

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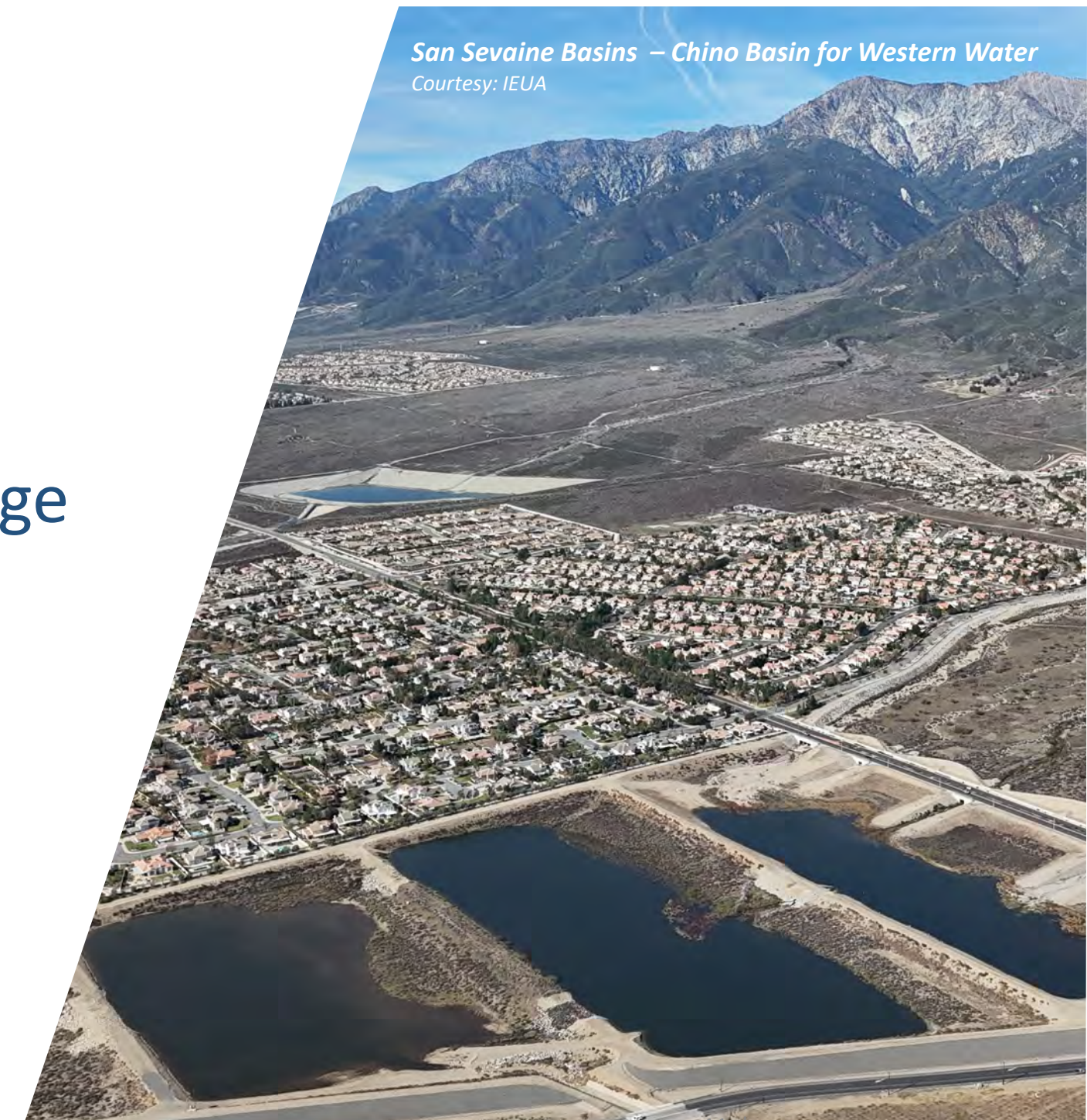
# SARCCUP Operations Committee

- Purpose:
  - Formed via a March 2023 agreement between EMWD, OCWD, SBVMWD and WMWD, it analyzes transactions for water purchases, storage and delivery
  - Supports operating decisions for movement of SARCCUP water
  - Oversees financial transactions and streamline reporting
- Other highlights:
  - Key agencies (i.e., Metropolitan Water District) participate as non-voting parties or observers
  - Details procedures for water purchases, storage, points of delivery, scheduling transactions, etc.
- Committee meets as needed



# Current SARCCUP Storage

- **Orange County Basin** - OCWD has deposited 2,000 AF in their portion of the SARCCUP bank
- **Chino Basin** – Western Water has deposited 2,084 AF in their portion of the SARCCUP storage
- No water extracted from the Storage Program at this stage



*San Sevaine Basins – Chino Basin for Western Water*  
Courtesy: IEUA

# EMWD Updates



San Jacinto Groundwater Basin Facilities  
(Mountain Avenue West Groundwater Replenishment and Extraction Wells)



# Wells 201, 202, 203





# EMWD Updates

- ▶ Mountain Ave West Groundwater Replenishment Facility: facility utilized on a temporary basis while the recharge ponds were undergoing repair (April-June 2024)
- ▶ Wells 201-203: Equipping completed in early 2024
- ▶ San Jacinto Valley Groundwater Treatment Facility:
  - Not included in SARCCUP grant funding but pertinent to the project
  - Groundbreaking ceremony held July 2024
  - Construction completion in summer 2026





# Multi-Benefits of New SARCCUP Infrastructure

- Mountain Avenue West Replenishment Facility
  - 40-acre recharge facility, including 22-acres of active recharge basins as part of the San Jacinto Valley Enhanced Regional Recharge Program (SJVERRP)
  - Three separate basin facilities – one for de-silting and flow distribution and two for recharge operations
  - Capable of recharging up to 30,000 acre-feet per year (19,500 AF for SARCCUP Storage)
  - 11 monitoring well sites surround facility
- Three potable wells: Wells 201, 202, and 203 (plus Well 205 but not grant-funded)
  - Conveyance Pipelines
  - Hewitt and Evans Groundwater Treatment Facility (not grant-funded)
  - Each Well Capacity: 1,500 gpm
  - Total Water Supply: 6,500 AFY



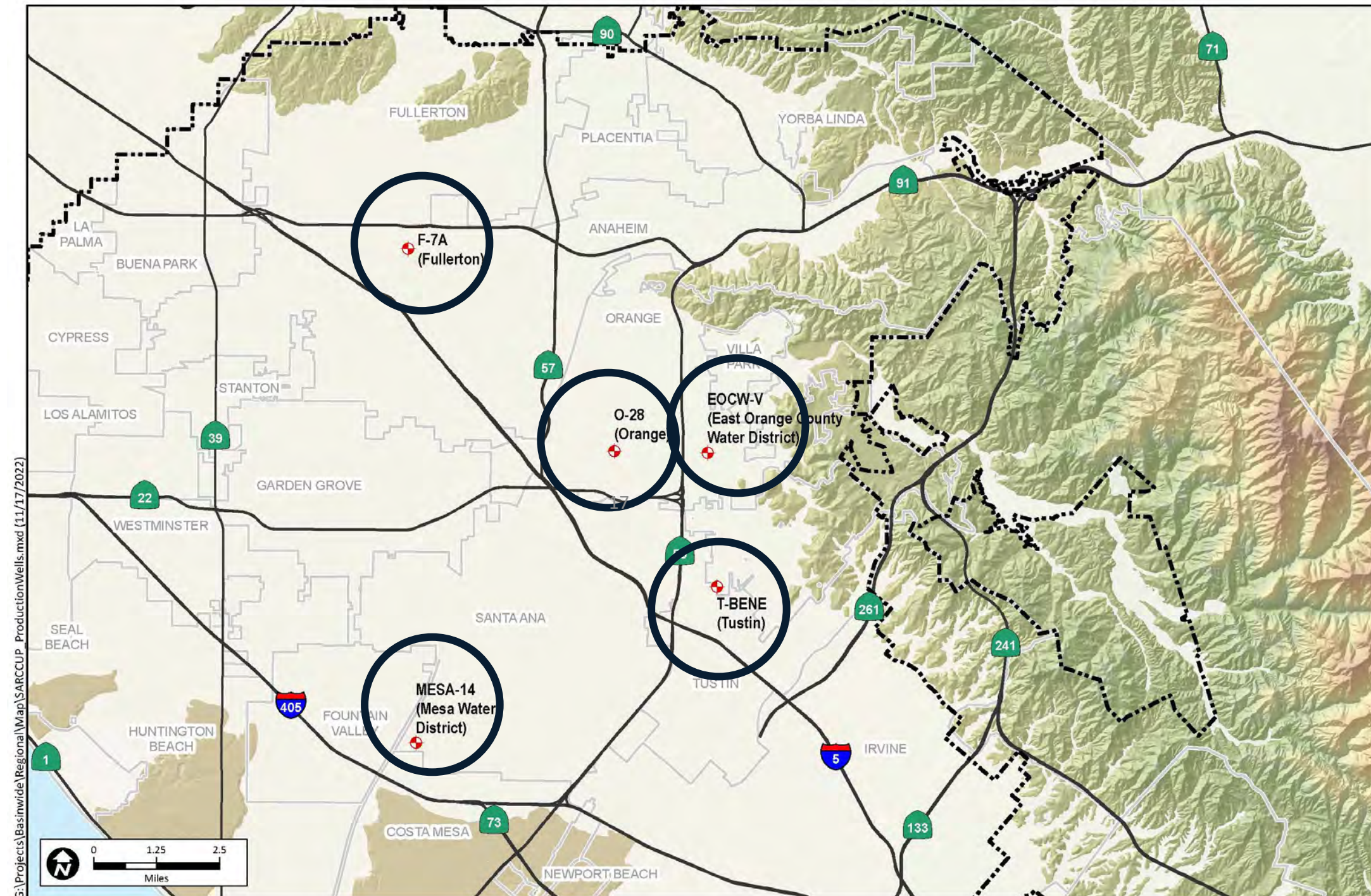
# OCWD UPDATES

Orange County Groundwater Wells





# Five SARCCUP Orange County Production Wells







# Status of Well Completion/Equipping

Agency	Well Name	Date Well Completed	Projected Equipping Complete
City of Fullerton	Well 7A	February 2021	January 2026*
City of Orange	Well 28	March 2022	July 2025
City of Tustin	Beneta Well (R)	September 2022	March 2024
East Orange County Water District	Vanderwerff Well	December 2021	September 2023
Mesa Water District	Well 14	March 2021	March 2023

\*Date is after the July 31 2025 Department of Water Resources (DWR) Grant Agreement deadline, but OCWD, SAWPA and DWR have developed a path forward (and have verbal agreement) that keeps the project in compliance with the grant agreement.

# Multi-Benefits of New SARCCUP Infrastructure

- Provides each participating retailer additional pumping capacity to withdraw banked SARCCUP water when needed.
- The new wells are more efficient and will require less energy to withdraw water compared to older wells (reduce carbon footprint).
- With the new construction, OCWD took advantage of the opportunity to install wellhead treatment systems at wells that needed treatment for PFAS (4 of the 5). These systems will ensure that the quality of the produced water meets regulatory requirements.



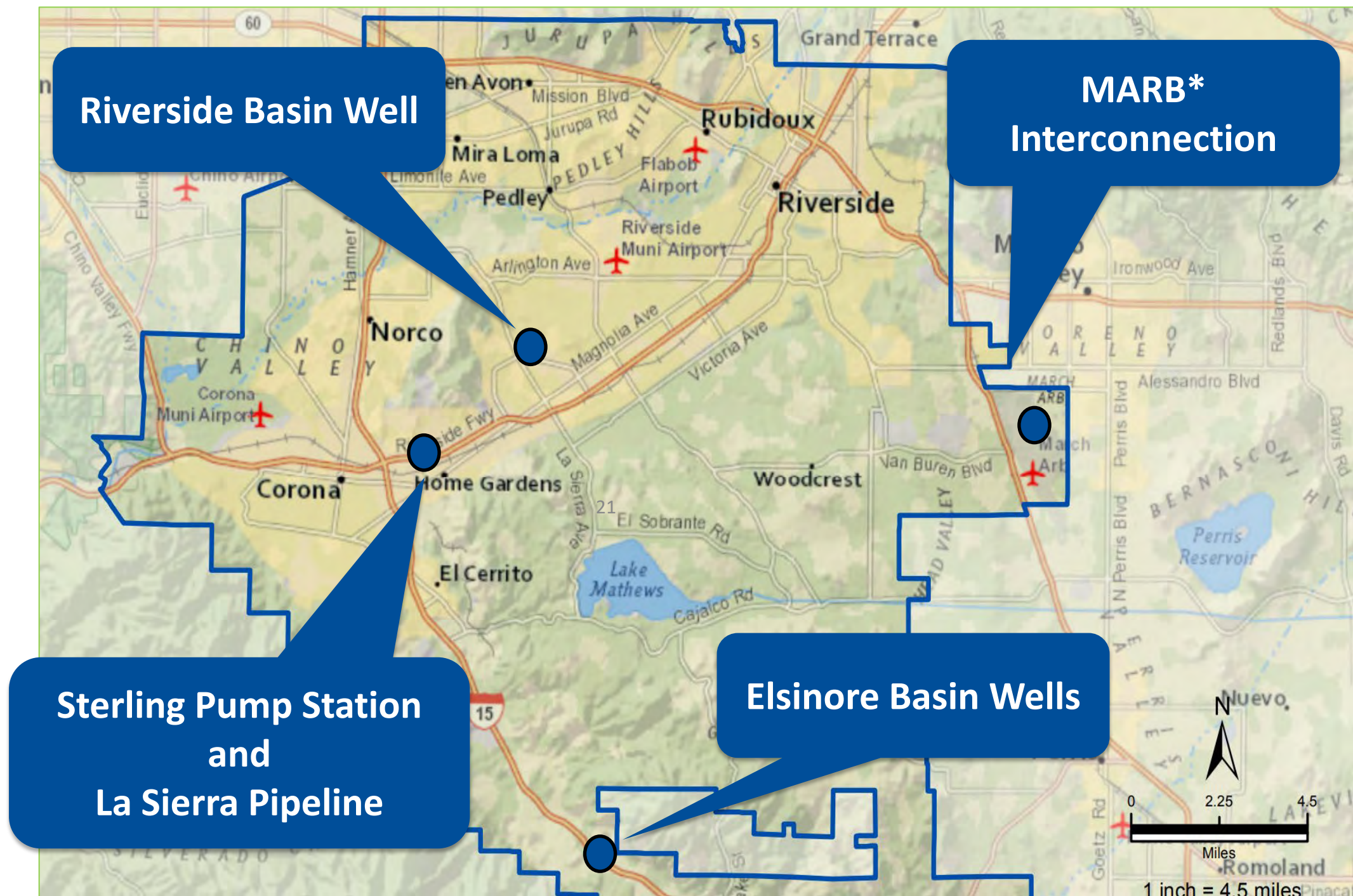
# WMWD Updates



Sterling Pump Station, Riverside-Arlington Basin Facilities,  
Elsinore Basin Wells, and Interconnections



# SARCCUP WMWD Facilities



\*MARB = March Air Reserve Base



# Sterling Pump Station and La Sierra Pipeline

- Sterling Pump Station & Reservoir, and La Sierra Pipeline (~\$40 million) were completed in late 2022
- Connection between Chino Desalter II to Arlington Desalter System to Mills Gravity Line
- Allows movement of extracted SARCCUP supplies to move to Jurupa Community Services District (JCSD), Norco, Corona, Western retail, Temescal Valley, and Elsinore Valley





## Interconnections

- Magnolia Intertie construction underway (~95% complete)
- March Air Reserve Basin (MARB) Interconnection complete
- Allows movement of extracted SARCCUP supplies from various groundwater basins

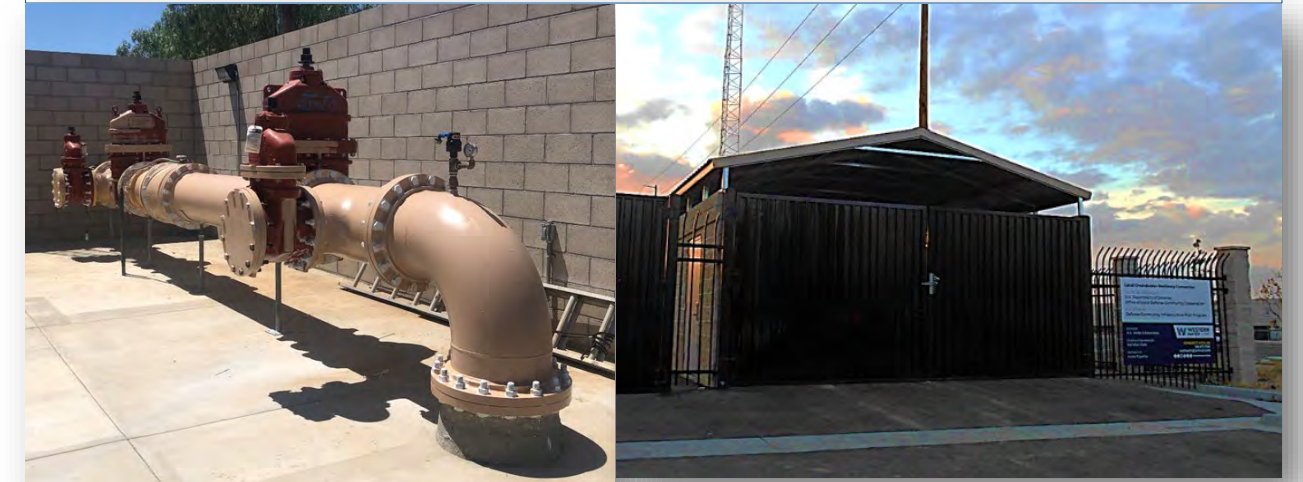
## Riverside Basin Well

- Well drilling and casing installation complete
- Pumping development, testing and sampling complete
- Design/Construction contracts have been awarded
- Allows movement of extracted SARCCUP supplies from San Bernardino Basin Area, Riverside, and Riverside-Arlington groundwater basins

## Elsinore Basin Wells

- New extraction wells with PFAS treatment
- Projects under construction (~85% complete)
- Allows movement of extracted SARCCUP supplies from Elsinore groundwater basins

**MARB Interconnection Facility**



**Riverside Basin Well Casing Install**



**Elsinore Basin Wells**

**GAC Backwash Foundation**

**Well 2 Drilling**

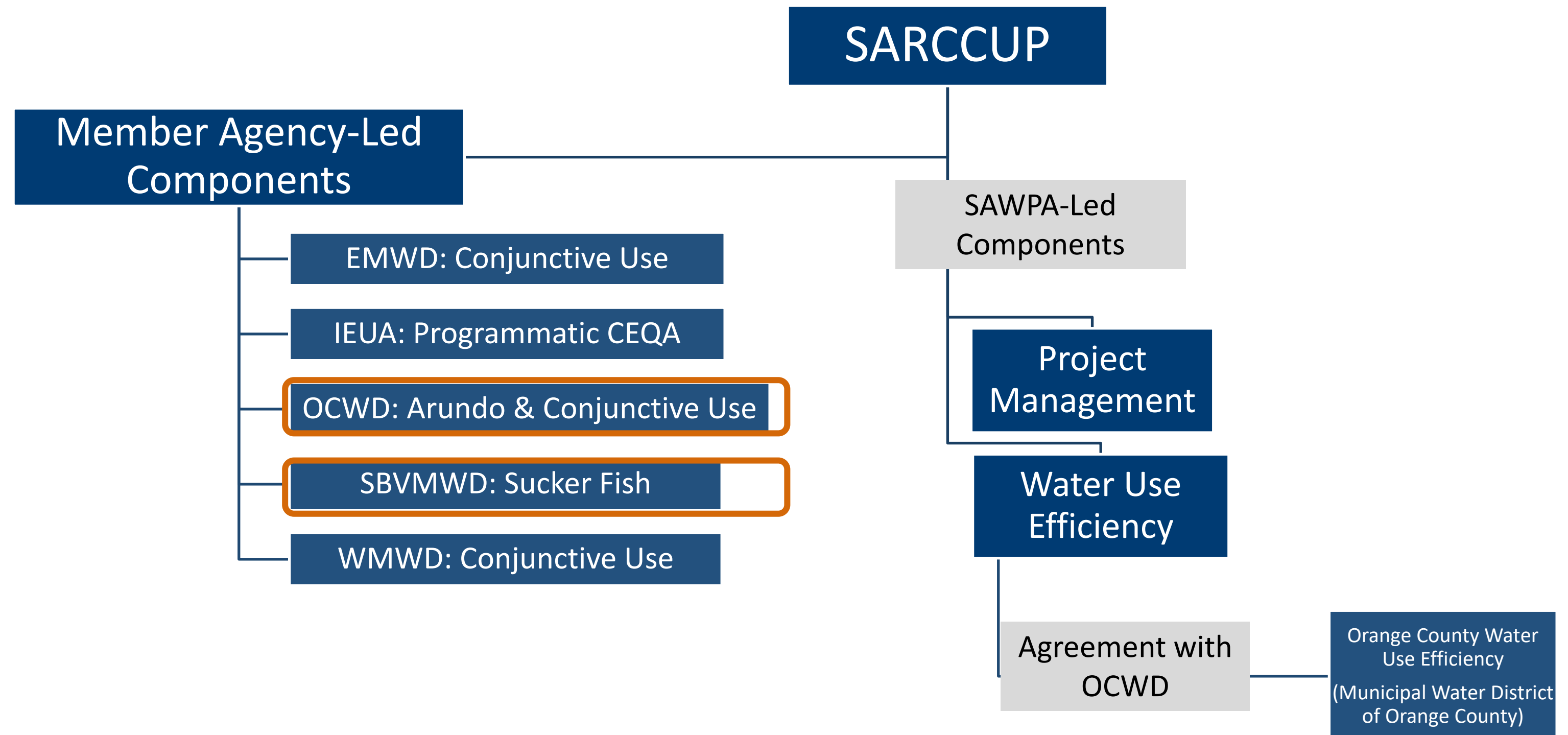


# Multi-Benefits of New SARCCUP Infrastructure

- Provides additional pumping capacity to withdraw banked SARCCUP water
- Newer energy efficient equipment (wells, pump station, etc.)
- Interconnections for movement of SARCCUP supplies from various groundwater basins
- Western's sub-agency took the opportunity to install treatment for PFAS
- New conveyance systems allows movement of extracted SARCCUP supplies to move to JCSD, Norco, Corona, Western retail, Temescal Valley, and Elsinore Valley
- Overarching:
  - Collaborating with neighboring agencies to optimize regional resources
  - Created a water storage initiative for the watershed to utilize surplus supplies
- Program underway with over 4,000 AF banked



# Habitat Updates (Arundo & Sucker Fish)



# Purpose of Santa Ana Sucker Habitat

- Restore hydrology to maintain exposed gravel/cobble and flow conditions adverse to non-native fishes.
- Restore connection to Santa Ana River at the floodplain for access to tributary habitat.
- Assist with implementation of the Upper Santa Ana River Habitat Conservation Plan (regulatory document associated with Endangered Species Act).





# Santa Ana Sucker Habitat Location

## Total Benefits (Four Streams):

- 2.8 miles of stream habitat (lines in blue and red)
- 60 acres riparian habitat surrounding the streams (green)





# Santa Ana Sucker Status Update

- All tributaries cleared of encampments
- All tributaries have ongoing nonnative plant treatment
  - Over 2,000 palm trees have been treated across all sites
- Advertised for bids: May 28, 2024; bid opening: July 16, 2024.
  - All bids rejected August 20, 2024
- Moved forward using self-performance
- Clear and grub & 50% rough grading complete at Hidden Valley Creek
- Clear and grub, rough grading underway at Anza Creek
- Work ongoing at Lower Hole Creek and Old Ranch Creek





# Purpose of Arundo Donax Removal

Removing it prevents:

Hazardous ignition  
source

“Crowding out” of  
important native  
plants

Altering flow regimes  
in surface waters  
(Santa Ana River)

Consumption of large  
volumes of water from  
Santa Ana River  
Watershed that could  
be used downstream\*





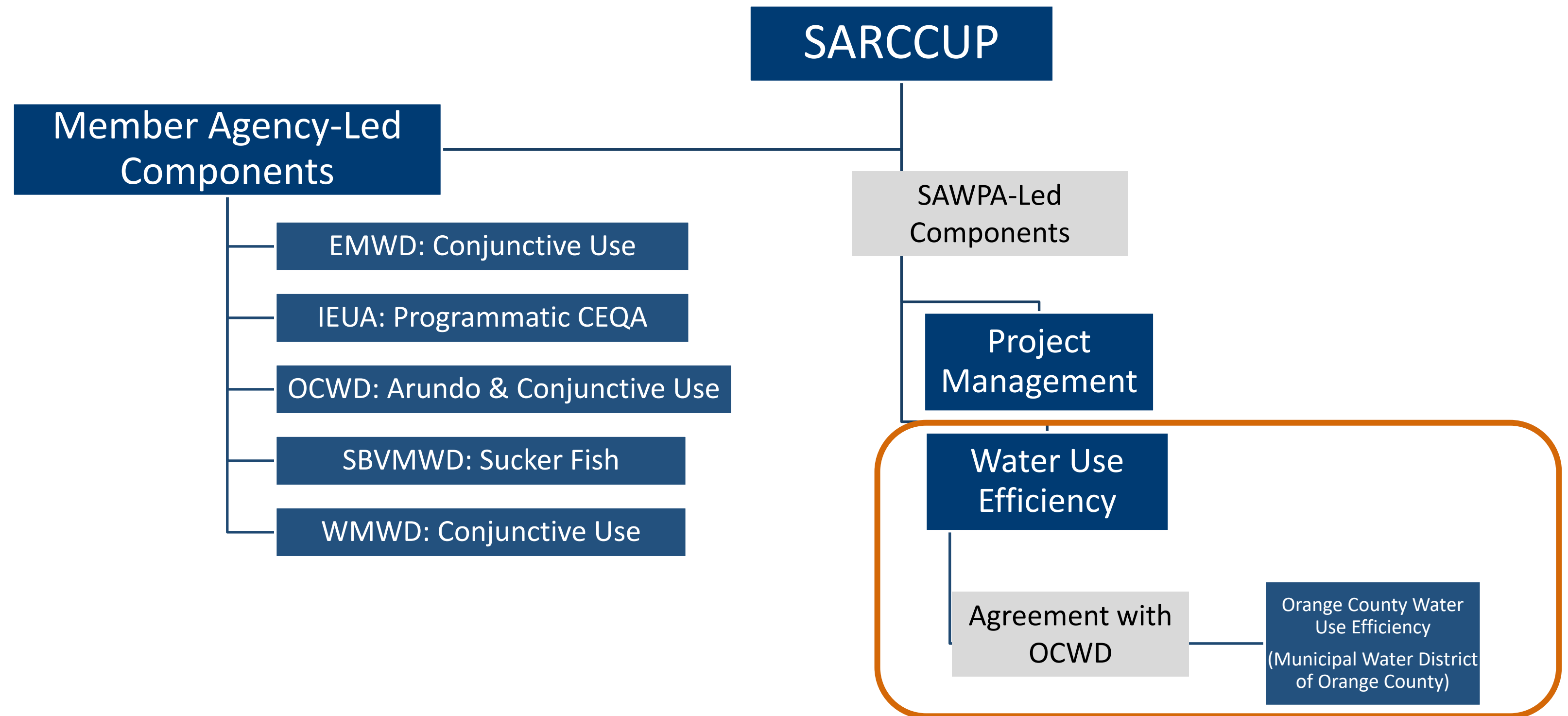


# Arundo Donax Status Update

Area	Arundo Removed (acres)
Prado Burn Fire	400
Army Corps of Engineers Former Areas	6
Mill Creek Prado	1
Santa Ana River (SAR) - Upstream River Road	78
SAR - Downstream River Road	137
Prado Airport Fire	2
SAR - Downtown Riverside	18
SAR - Dump to Van Buren	11
Mann Fire	32
<b>Total</b>	<b>685</b>
Grant Requirement	640
Additional Removal	+45



# Water Use Efficiency Updates



# Purpose of Water Use Efficiency Implementation

- Work with retail water agencies in the watershed to create efficiency-based water budgets.
- Efficiency based budget deliverables provided to partners include landscape feature (trees, shrubs, etc.) measurement data and weather (evapotranspiration rate) information.
- Efficiency budgets provided over **1,200 acre-feet** over a three-year period (i.e. 400 AFY).

## How the work was implemented:

- For the Upper Santa Ana River Watershed (Riverside and San Bernardino counties) SAWPA and consultant, NV5, partnered with eight retail water agencies.
- For Orange County, SAWPA has an agreement with OCWD who in turn has agreement with the Municipal Water District of Orange County (MWDOC).

### Dedicated Landscape Meter Customer Example



# Water Use Efficiency Implementation Status Update (Upper Watershed)

Retail Partner*	Efficiency Budgets Created	Official Start of Partnership	Deliverables Submitted to Partner
Chino Hills City	135	November 2021	August 2024
Hemet City	140	August 2021	November 2023
Jurupa Community Services District	408	May 2022	November 2023
Loma Linda City	107	March 2022	November 2023
Monte Vista Water District	168	June 2021	November 2023
Perris City	11	August 2021	April 2024
Riverside City	490	June 2021	November 2023
San Bernardino City	190	November 2021	January 2024
<b>Total Dedicated Irrigation Meters Budgets Created</b>	<b>1,649</b>		

\*Per direction from SAWPA member agencies, two retailers per SAWPA member agency were to partner on this effort. With four member agencies in the Upper Watershed that led to 8 total partners.



# Water Use Efficiency Implementation Status Update (Upper Watershed)

- Total efficiency budgets created was for 1,649 dedicated irrigation meter customers.
- Amounts different for retail partner due to the amount of usable customer data (i.e. with items like meter location and meter type) they were able to share with SAWPA consultant NV5.
- All retailers initially offered 190 customers.
- Some retailers able to do more, which SAWPA approved in certain circumstances when other retailers were determined to not have enough usable customer data.

## Dedicated Landscape Meter Customer Example



# Next Steps for Upper Watershed Partners

- Each retail partner\* has access to WaterView Portal for the customers included in this project.
- This tool is custom designed to help water professionals meet the efficiency requirements established under the new long term California water conservation legislation, SB606 & AB1686.
- Eagle Aerial Solutions (a sub-contractor to NV5) is the portal developer.



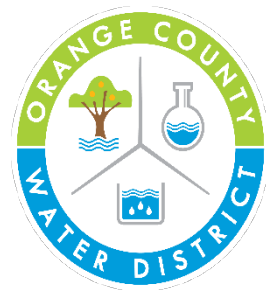
Images: Eagle Aerial Solutions

\*\*Except Perris as they had 11 customers with usable customer data and the cost to utilize WaterView CII per retailer was \$10,000.



# Water Use Efficiency Implementation Status Update (Orange County)

- Utilized 2020, 3", 4-band aerial imagery through the Orange County Data Acquisition Partnership (OCDAP) to classify and measure dedicated irrigation meter (DIM) landscapes
  - Cost-share model with OC retailers, Metropolitan, and SAWPA/OCWD
- 
- Measured all landscapes associated with dedicated irrigation meters for participating retailers
    - Landscapes associated with nearly 6,000 meters across 12 water suppliers



# Water Use Efficiency Implementation Status Update (Orange County)

- 💧 In addition to water budgets, data will assist water suppliers with the Making Conservation a CA Way of Life Framework
  - 💧 Calculation of Urban Water Use Objective
  - 💧 DIM Measurements required by July 2028
- 💧 Next Steps:
  - 💧 Use DIM and DWR-provided data to identify mixed-use meters > ½ acre, per regulation
  - 💧 Reconcile multi-family DWR-provided Residential LAM data





# SARCCUP Next Steps

- For Project Management related-work, SAWPA is working with long-term SARCCUP consultant Woodard & Curran and the SAWPA member agency planning managers on a task order (contract) for the next fiscal year.
  - PA 23 approval of FYE 2026 budget
- SAWPA is working with the member agencies to complete the various grant-required reporting.
- WMWD is completing the groundwater well in Riverside-Arlington Basin.
- OCWD is working with Fullerton and Orange cities to complete their two SARCCUP wells.
- SBVMWD is working on their Sucker fish stream/tributaries (including Hidden Valley and Anza).
  - Recommendation for changes due to scheduling issues is covered in Amendment No. 6 PA 23 Committee Presentation.

# Thank You

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