



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

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<ul style="list-style-type: none"> • Meeting ID: 870 5482 1793 	<ul style="list-style-type: none"> • Meeting ID: 870 5482 1793

This meeting will be conducted in person at the address listed above. As a convenience, members of the public may also participate virtually using one of the options set forth above. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link above. However, in the event there is a disruption of service which prevents the Authority from broadcasting the meeting to members of the public, the meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in-person.

REGULAR COMMISSION MEETING TUESDAY, NOVEMBER 19, 2024 – 9:30 A.M.

AGENDA

1. **CALL TO ORDER/PLEDGE OF ALLEGIANCE** (Bruce Whitaker, Chair)

2. **ROLL CALL**

3. **PUBLIC COMMENTS**

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

Members of the public may make comments in-person or electronically for the Commissions' consideration by sending them to publiccomment@sawpa.gov with the subject line "Public Comment". Submit your electronic comments by 5:00 p.m. on Monday, November 18, 2024. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record. Individuals have a limit of three (3) minutes to make comments and will have the opportunity when called upon by the Commission.

4. **ITEMS TO BE ADDED OR DELETED**

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the SAWPA Commission subsequent to the posting of the agenda.

5. **CONSENT CALENDAR**

All matters listed on the Consent Calendar are considered routine and non-controversial and will be acted upon by the Commission by one motion as listed below.

- A. **APPROVAL OF MEETING MINUTES: NOVEMBER 5, 2024**7
Recommendation: Approve as posted.

6. **NEW BUSINESS**

- A. **SANTA ANA RIVER REACH 3 TOTAL DISSOLVED SOLIDS SPECIAL STUDY REQUEST FOR PROPOSALS (CM#2024.63)**.....11
Presenter: Ian Achimore
Recommendation: To direct the General Manager to issue Requests for Proposals (RFPs) for a Monitoring Plan – Santa Ana River Reach 3 Total Dissolved Solids Special Study.

- B. **FISCAL YEAR 2025-2026 AND FISCAL YEAR 2026-2027 BUDGET SCHEDULE (CM#2024.64)**107
Presenter: Karen Williams
Recommendation: Receive and file.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

- A. **CASH TRANSACTIONS REPORT – SEPTEMBER 2024**111
Presenter: Karen Williams
- B. **INTER-FUND BORROWING – SEPTEMBER 2024 (CM#2024.65)**117
Presenter: Karen Williams
- C. **PERFORMANCE INDICATORS/FINANCIAL REPORTING – SEPTEMBER 2024 (CM#2024.66)**123
Presenter: Karen Williams
- D. **PROJECT AGREEMENT 25 – OWOW FUND – FINANCIAL REPORT, AUGUST 2024**.....145
Presenter: Karen Williams
- E. **PROJECT AGREEMENT 26 – ROUNDTABLE FUND – FINANCIAL REPORT, AUGUST 2024**149
Presenter: Karen Williams
- F. **STATE LEGISLATIVE REPORT**153
Presenter: Jeff Mosher
- G. **GENERAL MANAGER REPORT**
Presenter: Jeff Mosher
- H. **CHAIR’S COMMENTS/REPORT**
- I. **COMMISSIONERS’ COMMENTS**
- J. **COMMISSIONERS’ REQUEST FOR FUTURE AGENDA ITEMS**

8. CLOSED SESSION

- A. **PURSUANT TO GOVERNMENT CODE SECTION 54957 – PUBLIC EMPLOYEE ANNUAL PERFORMANCE EVALUATION**
Title: General Manager

9. CLOSED SESSION REPORT

10. ADJOURNMENT

PLEASE NOTE:

Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, call (951) 354-4220 or email svilla@sawpa.gov 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.gov, subject to staff's ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on November 14, 2024, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.gov and posted at SAWPA's office at 11615 Sterling Avenue, Riverside, California.

2024 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February	
1/2/24	Commission Workshop [cancelled]	2/6/24	Commission Workshop
1/16/24	Regular Commission Meeting	2/20/24	Regular Commission Meeting
March		April	
3/5/24	Commission Workshop [cancelled]	4/2/24	Commission Workshop
3/19/24	Regular Commission Meeting	4/16/24	Regular Commission Meeting [cancelled]
May		June	
5/7/24	Commission Workshop [cancelled]	6/4/24	Commission Workshop
5/21/24	Regular Commission Meeting	6/18/24	Regular Commission Meeting
5/7 – 5/9/24	ACWA Spring Conference, Sacramento, CA		
July		August	
7/2/24	Commission Workshop	8/6/24	Commission Workshop
7/16/24	Regular Commission Meeting	8/20/24	Regular Commission Meeting
September		October	
9/3/24	Commission Workshop	10/1/24	Commission Workshop
9/17/24	Regular Commission Meeting	10/15/24	Regular Commission Meeting
November		December	
11/5/24	Commission Workshop	12/3/24	Commission Workshop
11/19/24	Regular Commission Meeting	12/17/24	Regular Commission Meeting
		12/3 – 12/5/24	ACWA Fall Conference, Palm Springs, CA

2025 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January		February	
1/7/25	Commission Workshop	2/4/25	Commission Workshop
1/21/25	Regular Commission Meeting	2/18/25	Regular Commission Meeting
March		April	
3/4/25	Commission Workshop	4/1/25	Commission Workshop
3/18/25	Regular Commission Meeting	4/15/25	Regular Commission Meeting
May		June	
5/6/25	Commission Workshop	6/3/25	Commission Workshop
5/20/25	Regular Commission Meeting	6/17/25	Regular Commission Meeting
5/13 – 5/15/25	ACWA Spring Conference, Monterey, CA		
July		August	
7/1/25	Commission Workshop	8/5/25	Commission Workshop
7/15/25	Regular Commission Meeting	8/19/25	Regular Commission Meeting
September		October	
9/2/25	Commission Workshop	10/7/25	Commission Workshop
9/16/25	Regular Commission Meeting	10/21/25	Regular Commission Meeting
November		December	
11/4/25	Commission Workshop	12/2/25	Commission Workshop
11/18/25	Regular Commission Meeting	12/16/25	Regular Commission Meeting
		12/2 – 12/4/25	ACWA Fall Conference, San Diego, CA

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SAWPA COMPENSABLE MEETINGS

In addition to Commission meetings, Commissioners and Alternate Commissioners will receive compensation for attending the meetings listed below, pursuant to the Commission Compensation, Expense Reimbursement, and Ethics Training Policy.

IMPORTANT NOTE: These meetings are subject to change. Prior to attending any meetings listed below, please confirm meeting details by viewing the website calendar using the following link:

<https://sawpa.gov/sawpa-calendar/>

MONTH OF: NOVEMBER 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
11/5/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
11/5/24	2:00 PM	Emerging Constituents Program Task Force	CANCELLED
11/12/24	9:30 AM	Lake Elsinore/Canyon Lake TMDL Task Force Mtg	Virtual/Teleconference
11/18/24	9:00 AM	Santa Ana Sucker Conservation Team	Virtual/Teleconference
11/21/24	11:00 AM	OWOW Steering Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)

MONTH OF: DECEMBER 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
12/3/24	8:30 AM	PA 23 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
12/3/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
12/10/24	8:30 AM	PA 22 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
12/19/24	4:00 PM	LESJWA Board of Directors Mtg	Hybrid (Elsinore Valley MWD, 31315 Chaney Street, Lake Elsinore, CA 92530 & Virtual/Teleconference)

Please Note : We strive to ensure the list of Compensable Meetings set forth above is accurate and up-to-date; the list is compiled based on input from SAWPA staff and Department Managers regarding meeting purpose and content.

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**SAWPA COMMISSION
REGULAR MEETING MINUTES
NOVEMBER 5, 2024**

COMMISSIONERS PRESENT

Bruce Whitaker, Chair, Orange County Water District
Mike Gardner, Vice Chair, Western Municipal Water District
T. Milford Harrison, Secretary-Treasurer, San Bernardino Valley
Municipal Water District
David J. Slawson, Eastern Municipal Water District
Jasmin A. Hall, Inland Empire Utilities Agency

COMMISSIONERS ABSENT

None

**COMMISSIONERS PRESENT;
NON-VOTING**

Gil Botello, Alternate, San Bernardino Valley Municipal Water District

STAFF PRESENT

Jeff Mosher, Karen Williams, Shavonne Turner, Rachel Gray, Marie
Jauregui, Dean Unger, John Leete, Sara Villa

OTHERS PRESENT

Andrew D. Turner, Lagerlof, LLP; Mallory O'Connor, Western
Municipal Water District; Joshua Aguilar, Western Municipal Water
District; Derek Kawaii, Western Municipal Water District; Sheryl
Parsons, Orange County Water District; John Kennedy, Orange
County Water District; Robert Ennis, Riverside Public Utilities; Gene
Hernandez, Yorba Linda Water District; Richard Meyerhoff, GEI
Consultants; Aaron Echols, Inland Empire Resource Conservation
District

The Regular Meeting of the Santa Ana Watershed Project Authority Commission was called to order at 9:30 a.m. by Chair Bruce Whitaker on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California.

1. CALL TO ORDER

2. ROLL CALL

An oral roll call was duly noted and recorded by the Clerk of the Board.

3. PUBLIC COMMENTS

There were no public comments; there were no public comments received via email.

4. ITEMS TO BE ADDED OR DELETED

There were no items to be added or deleted.

5. CONSENT CALENDAR

A. APPROVAL OF MEETING MINUTES: OCTOBER 15, 2024

Recommendation: Approve as posted.

MOVED, to approve the Consent Calendar as posted.

Result:	Adopted by Roll Call Vote
Motion/Second:	Hall/Gardner
Ayes:	Gardner, Hall, Harrison, Slawson, Whitaker
Nays:	None
Abstentions:	None
Absent:	None

6. NEW BUSINESS

A. MIDDLE SANTA ANA RIVER TMDL TASK FORCE CONSULTANT SUPPORT (CM#2024.61)

Rachel Gray provided a presentation on the Middle Santa Ana River (MSAR) Total Maximum Daily Load (TMDL) Task Force Consultant Support, contained in the agenda packet on pages 21-34. Ms. Gray discussed the creation of the MSAR TMDL Task Force and its role in meeting the regulatory requirements for the MSAR Watershed's bacterial indicator TMDLs. Key goals include exploring long-term TMDL implementation strategies, developing a cost-sharing framework, and identifying funding sources. Additionally, the Task Force is tasked with implementing, reporting, and updating a watershed-wide bacterial indicator water quality monitoring program, as well as conducting urban source evaluation activities related to bacterial indicators. The benefits of these efforts include continued collaboration with the Santa Ana Regional Water Quality Control Board, providing regional facilitation and support services, and assisting with future triennial reviews and updates to the Basin Plan.

Ms. Gray noted that a change order is needed with GEI Consultants to provide further support to the MSAR TMDL Task Force. GEI Consultants scope of work includes preparing the final revised technical report, support substitute environmental document, and support the Regional Board staff with the Basin Plan Amendment process and participate in the MSAR TMDL Task Force meetings. Richard Meyerhoff of GEI Consultants emphasized that the limited revisions to the Basin Plan is to change the compliance date for the wet season condition and extend it to 20 years. To set the task schedule and milestones to achieve to make sure we are in compliance for the next 20 years.

Chair Whitaker highlighted the importance that our member agencies with different situations are very much on the same page to improve the quality of the flows in the river, and tributaries as well, it is for everyone's benefit individually and collectively as well.

MOVED, to authorize the approval of Change Order 3 to Task Order GEI384-02 in the amount not-to-exceed \$86,530 with GEI Consultants, Inc. to support the MSAR TMDL Task Force in the preparation of a Basin Plan Amendment (BPA) to complete limited revisions to the MSAR Bacterial Indicator TMDLs.

Result:	Adopted by Roll Call Vote
Motion/Second:	Gardner/Hall
Ayes:	Gardner, Hall, Harrison, Slawson, Whitaker
Nays:	None
Abstentions:	None
Absent:	None

B. ARUNDO DONAX REMOVAL IN THE SANTA ANA RIVER BASIN HEADWATERS PROJECT UPDATE (CM#2024.62)

Ian Achimore provided a presentation on the Arundo Donax Removal in the Santa Ana River Basin Headwaters Project Update, contained in the agenda packet on pages 39-62.

The project focuses on the removal of Arundo donax (Giant Reed), an invasive species in the Inland Empire upper watershed. Arundo grows rapidly, is highly flammable, alters water flow, and consumes significant amounts of water, impacting the Santa Ana River watershed. The project was approved by the Commission two years ago and is halfway through its five-and-a-half-year timeline. Mr. Achimore introduced Aaron Echols, of Inland Empire Resource Conservation District (IERCD), which is responsible for fieldwork, including species removal and follow-up monitoring.

Arundo donax spreads primarily through rhizomes (underground stems) along waterways, making it difficult to control, especially in regions where management efforts are fragmented due to varying jurisdictional areas. The IERCD is working with property owners to gain access for removal on both public and private lands. Techniques include cutting the plants and applying herbicide to prevent regrowth. The project uses 2021 high resolution imagery and ESRI deep learning imagery analysis software to map and monitor Arundo presence across the watershed, with initial findings showing significant infestations.

The project's funded using the Arundo Management & Habitat Restoration Project. The fund balance as of July 31, 2024, is \$754,835. Fund gains revenue from credit sales from Santa Ana River Mitigation Bank. The project budget is \$147,777, with approximately 36% of the project implemented so far.

Mr. Echols noted that IERCD staff are all certified by the Department of Pesticide Regulation for herbicide application and provided an overview of the foliar treatment, where herbicide is sprayed on the plant's green leaves without cutting it, which is faster but less effective in larger stands. For more substantial patches, crews use chainsaws or heavy equipment to manually cut down the plants. The biomass is often hauled away, especially when working on private property, to avoid leaving it in the waterway. In more challenging areas with steep terrain, removal is done manually, with herbicide applied directly to the cut stems using a hand sprayer. Herbicide is concentrated, ensuring that it absorbs into the plant and prevents regrowth. Despite intensive efforts, Arundo is resilient, and retreatments are necessary over several years to fully control its spread.

The IERCD is actively working across the entire upper watershed, from Big Bear to Chino Hills, with efforts extending to smaller tributaries and washes. They have already removed stands from multiple areas but monitoring and follow-up treatments will continue for years to come. The lessons learned to date include the success of foliar herbicide application for efficient removal and the refinement of Right of Entry requests to encourage greater participation from landowners. Additionally, the scope of the Arundo problem in the watershed's tributaries is larger than initially anticipated when the project began in 2022.

The next steps include completing as many treatment sites as possible before wet weather sets in, reassessing the project budget after this season to determine how many additional sites can be treated within the 5.5-year task order timeframe, and continuing to secure access agreements with landowners to enable ongoing Arundo removal efforts across the region.

This item is to receive and file; no action was taken on agenda item no. 6.B.

7. INFORMATIONAL REPORTS

Recommendation: Receive for Information.

A. GENERAL MANAGER REPORT

There was no report received from the General Manager.

B. CHAIR'S COMMENTS/REPORT

Chair Whitaker acknowledged the passing of previous Alternate Commissioner, June Hayes, and noted that the meeting would be adjourned in her honor.

C. COMMISSIONERS' COMMENTS

Commissioner Harrison expressed his condolences for the loss of Director June Hayes and the significant loss in their organization. Director Hayes did an excellent job representing the Rialto community and extended the invitation to a memorial service in her honor at SVMWD on Friday, November 8th.

D. COMMISSIONERS' REQUEST FOR FUTURE AGENDA ITEMS

There were no requests for future agenda items from the Commission. Legal Counsel, Andy Turner requested a future closed session agenda item to discuss the general manager's performance review.

8. CLOSED SESSION

There was no Closed Session.

9. ADJOURNMENT

There being no further business for review, the meeting was adjourned at 10:31 a.m. in memory of previous Alternate Commissioner, June Hayes. A moment of silence was observed in her honor.

Approved at a Regular Meeting of the Santa Ana Watershed Project Authority Commission on Tuesday, November 19, 2024.

Bruce Whitaker, Chair

Attest:

Sara Villa, Clerk of the Board

COMMISSION MEMORANDUM NO. 2024.63

DATE: November 19, 2024

TO: SAWPA Commission

SUBJECT: Santa Ana River Reach 3 Total Dissolved Solids Special Study Request for Proposals

PREPARED BY: Ian Achimore, Senior Watershed Manager

RECOMMENDATION

To direct the General Manager to issue Requests for Proposals (RFPs) for a Monitoring Plan – Santa Ana River Reach 3 Total Dissolved Solids Special Study.

DISCUSSION

SAWPA has served as the Basin Monitoring Program Task Force (Task Force) administrator since the Commission's approval of the August 2004 Task Force agreement. The Task Force members will often request that SAWPA issue RFPs and serve as the project manager of consultants on behalf of the Task Force. The Task Force includes 20 water agency members as well as the non-funding partner the Santa Ana Regional Water Board (Regional Board).

The Water Quality Control Plan for the Santa Ana Basin (Basin Plan) contains the Regional Board's policies for managing the Santa Ana River Basin's water quality. The Basin Plan includes the water quality standards (antidegradation objectives, beneficial uses, and anti-degradation policy), regionally important water quality management and improvement initiatives, policies and practices for implementing water quality standards, and implementation plans. The Santa Ana River Reach 3 Total Dissolved Solids (TDS) surface antidegradation objective is 700 mg/L as defined in the Basin Plan. The metric for this compliance, is "annual average of all grab samples collected during base flow conditions" at the downstream end of the reach. Santa Ana River Reach 3 is described in the Basin Plan as Mission Boulevard in the City of Riverside area to Prado Dam.

The impetus for this Project, the Monitoring Plan - Santa Ana River Reach 3 Total Dissolved Solids Special Study, is the first recent Santa Ana River Reach 3 excursion of TDS over 700 mg/L that occurred in 2013. This excursion was reported in the 2013 Annual Report of Santa Ana River Water Quality.¹ There have been several excursions over 700 mg/L since 2013, as reported in the Annual Reports. Sound science is needed to understand the fluctuating TDS levels at the downstream end of Reach 3 (i.e. below Prado Dam). The Integrated Report, which is required by the federal Clean Water Act, is released periodically and includes an impaired water bodies list (also known as the 303(d) list). Placing a waterbody on the Integrated Report's 303(d) list initiates the

¹A non-recent excursion of TDS over 700 mg/L at the downstream end of Reach 3 (below Prado Dam) was reported first in 1983 through a past Annual Report.

prioritization of Total Maximum Daily Load development, or another alternative restoration project, to restore and maintain water quality standards. The State Water Board leads the Integrated Report data collection effort, which occur next for the Santa Ana Basin in the middle of October 2026.

The objectives and deliverables for this Project include the following:

- Develop a **monitoring plan** to help guide the Task Force on what to monitor to answer the question –
Why are there fluctuating TDS concentrations during baseflow conditions at the downstream terminus of the Santa Ana River Reach 3?
- The monitoring plan will include **what** items should be monitored, and what their **costs** are.

BACKGROUND

Per the Basin Plan (specifically its 2004 Plan Amendment), the Task Force has several major deliverables to the Regional Board listed in the table below. The Basin Plan is the key regulatory document for groundwater and surface water quality in the Santa Ana River Watershed. There are twenty Task Force members to the August 2004 Task Force Agreement who pool funding and staff resources. These parties work as a collective to streamline their compliance with water quality regulations so their individual water resource projects can be implemented (e.g. projects like publicly owned treatment works that recycle the treated discharge water for use by water agency customers).

Table 1: Major Task Force Deliverables to the Regional Water Board

Formal Deliverable Name	Description/Purpose	Timeline for Completion
Ambient Water Quality Update	Analysis of TDS and nutrients* in Santa Ana River Watershed's 35 groundwater management zones (over 4,000 wells).	Every three years (going forward it will be done every five years).
Annual Report of Santa Ana River Water Quality	Preparation of Santa Ana River surface water quality report.	Developed annually and submitted by August 1.
Wasteload Allocation Model	Development of a surface discharge allocation to confirm compliance of surface water discharges with ground water quality regulatory requirements.	Performed every ten years.

*Nutrients are regulated as Total Inorganic Nitrogen (TIN).

CRITICAL SUCCESS FACTORS

- Goals, scope, costs, resources, timelines, and the contract term are approved by the Commission before executing an agreement to participate in a roundtable group.
- Report and use results of roundtable’s work, leverage information and involvement for the benefit of SAWPA, its members, and other stakeholders.

RESOURCE IMPACTS

Funding for development of the RFP, SAWPA’s project management, and a consultant contract are funded by the Task Force annual dues from the twenty water agency Task Force members.

Attachments:

1. PowerPoint Presentation
2. Request for Proposals

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SANTA ANA WATERSHED
PROJECT AUTHORITY

Santa Ana River Reach 3 Total Dissolved Solids Special Study Request for Proposals

Commission Meeting
Item No. 6.A

Ian Achimore, Senior Watershed Manager
Santa Ana Watershed Project Authority

November 19, 2024

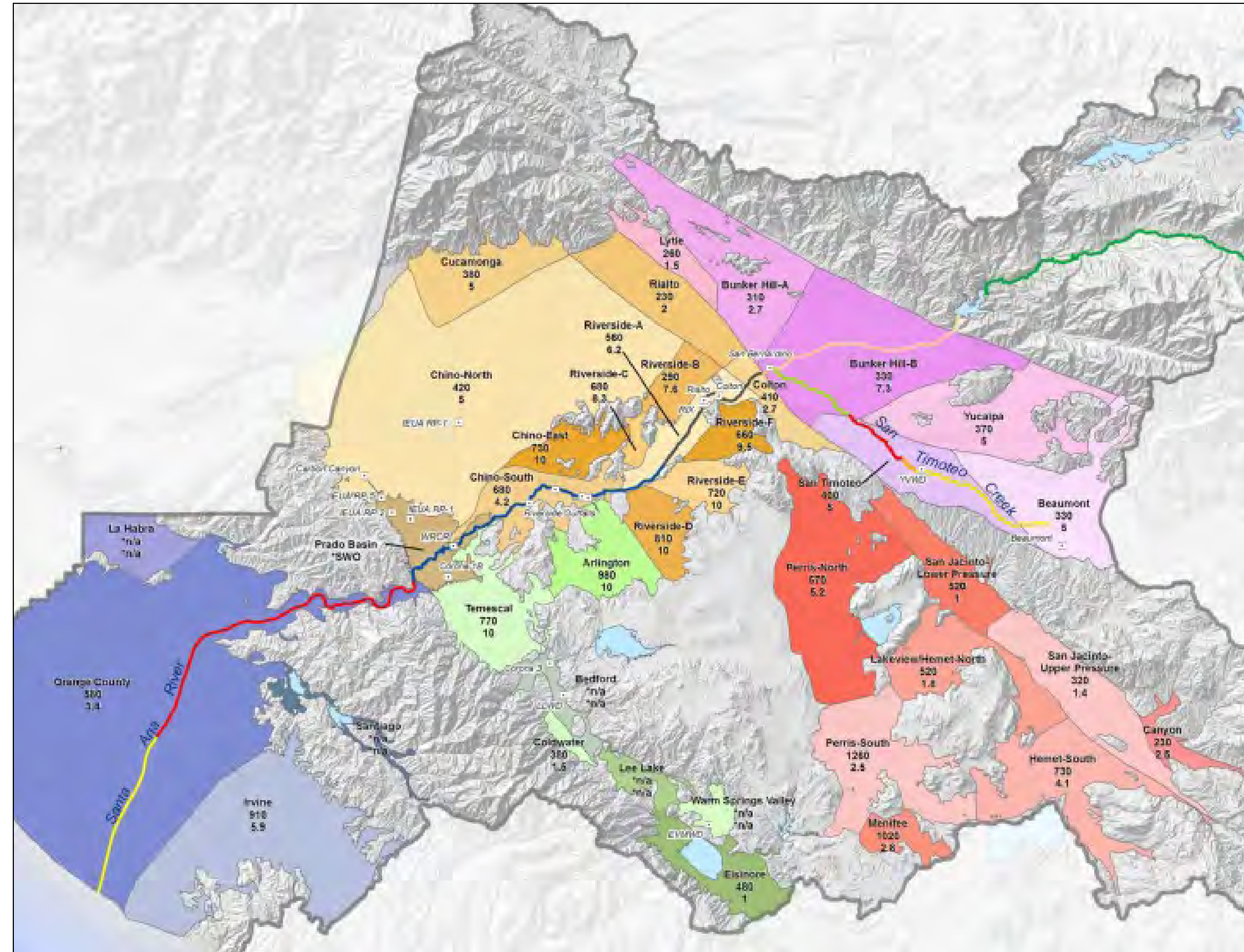
Recommendation

To direct the General Manager to issue Request for Proposals for a Monitoring Plan - Santa Ana River Reach 3 Total Dissolved Solids (TDS) Special Study.

SAWPA Basin Monitoring Program Task Force Formed to Implement TDS/N Management Plan

Roles & Activities

- Conducts analysis of TDS and nitrate in watershed groundwater every three (now five) years to identify trends
- Prepares Annual Santa Ana River surface water quality report
- Creates and updates Santa Ana River Wasteload Allocation model to confirm compliance of river discharges with ground water quality objectives
- Conducts salt and nitrogen investigations as necessary



RFP Prepared for Basin Monitoring Program Task Force

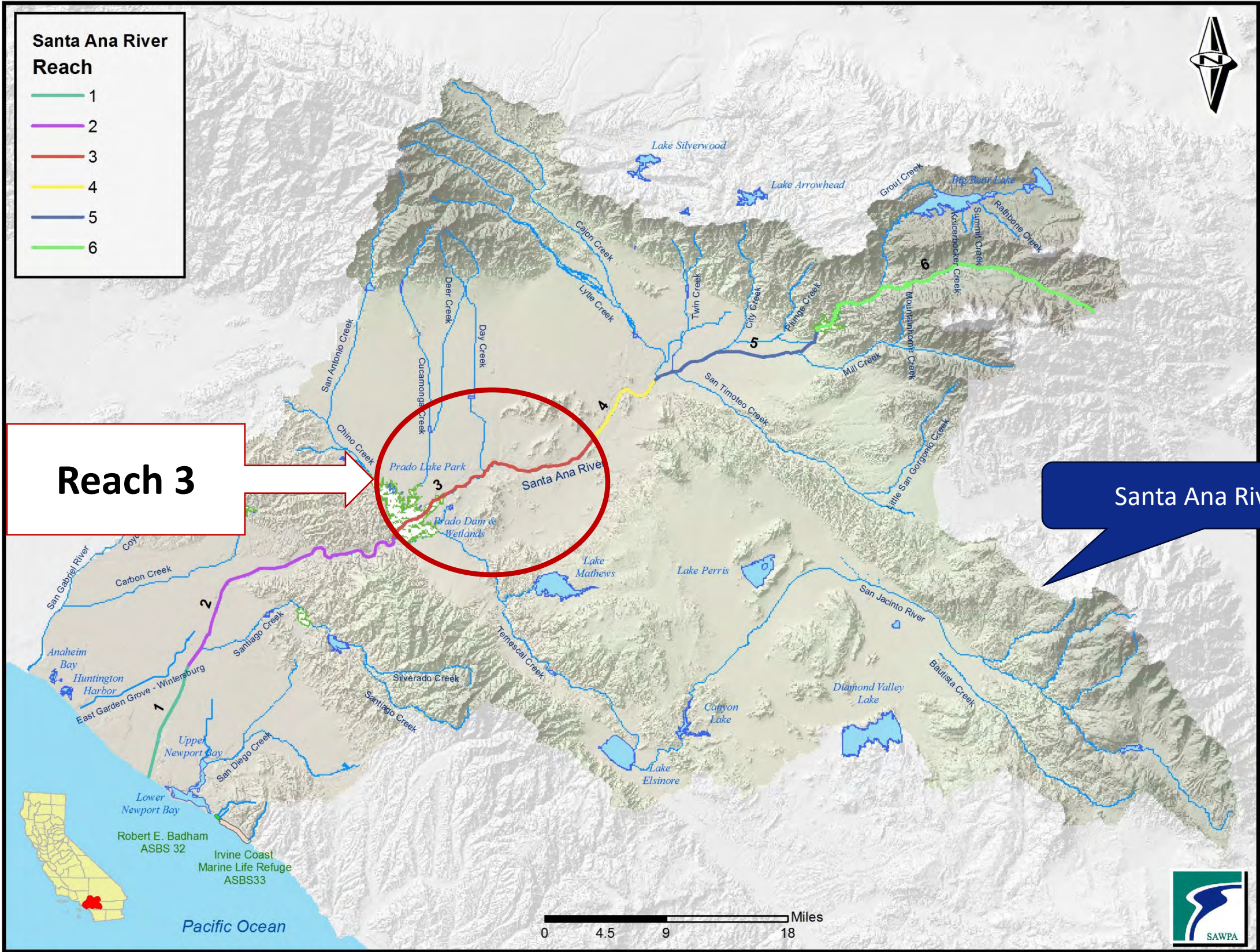
Task Force Members

Beaumont Cherry Valley Water District	Elsinore Valley Municipal Water District
Chino Basin Watermaster	Inland Empire Utilities Agency
City of Banning	Irvine Ranch Water District
City of Beaumont	Jurupa Community Services District
City of Corona	Orange County Water District
City of Redlands	San Bernardino Valley Municipal Water District
City of Rialto	San Geronio Pass Water Agency
City of Riverside	Temescal Valley Water District
Colton/San Bernardino Regional Tertiary Treatment and Wastewater Reclamation	Western Riverside Co Regional Wastewater Authority/Western Municipal Water District
Eastern Municipal Water District	Yucaipa Valley Water District



- Santa Ana Regional Board also a non-funding task force agency

Santa Ana River Reaches



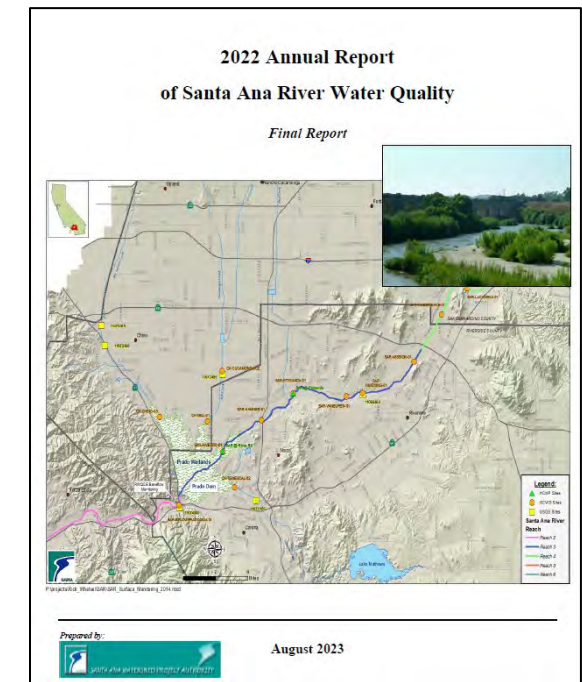
Key Definitions Related to RFP

- Total Dissolved Solids (TDS) – Measured on a sample of water that has passed through a very fine filter to remove suspended solids.
 - The water passing through the filter is evaporated and the residue represents the dissolved solids.
- Basin Plan – The regulatory document that has water body descriptions and antidegradation objectives for water bodies.
 - Santa Ana River Reach 3 antidegradation objective for TDS is 700 mg/L.



Key Definitions (Continued)

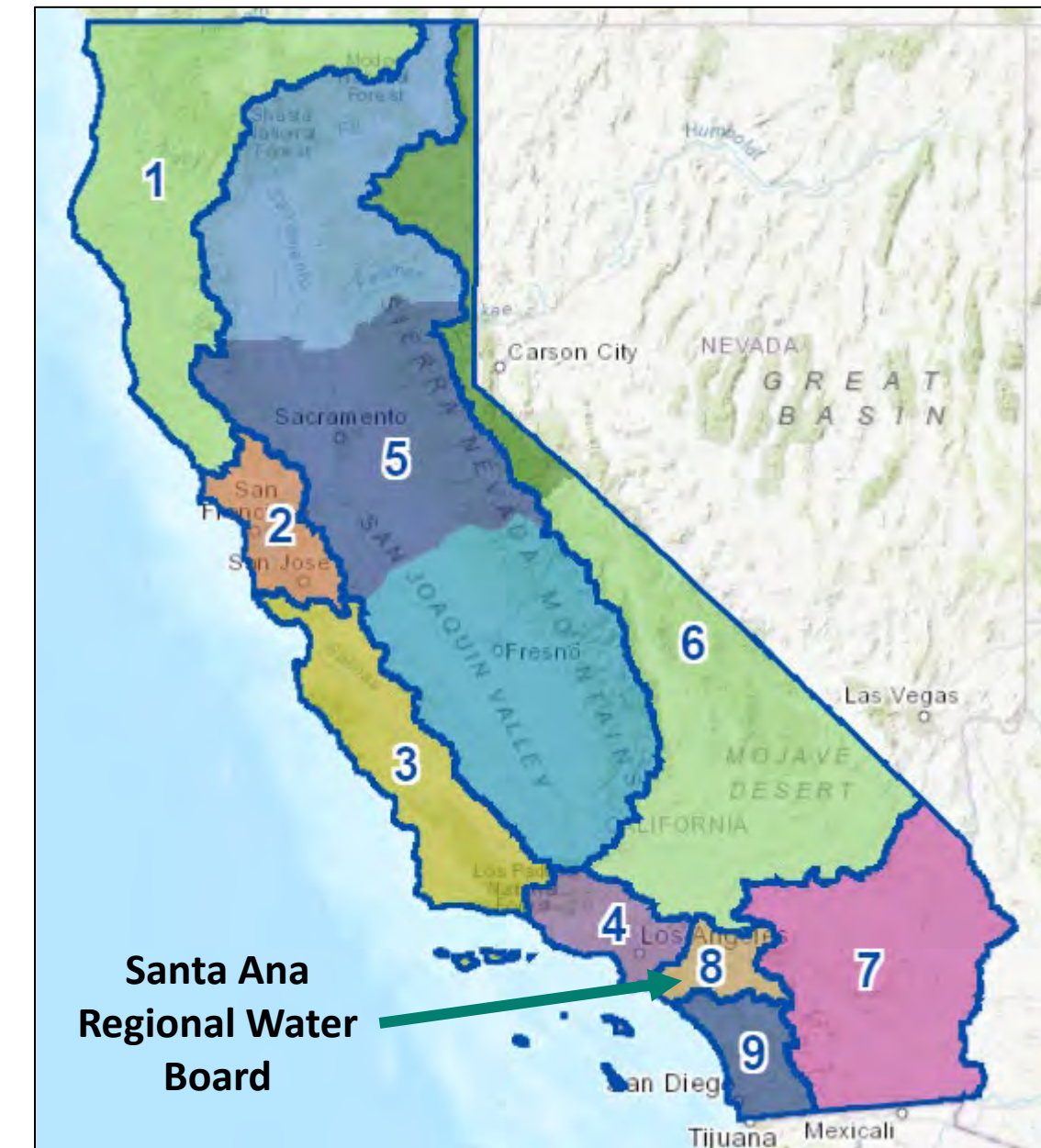
- Annual Report of Santa Ana River Water Quality – Annual Task Force document that reports water quality data related to antidegradation objectives such as Santa Ana River Reach 3.
- “Base flow” – Surface water flows that don’t occur during or soon after precipitation events.
 - The current definition for Reach 3 baseflow is when the following occur – 1) it is August and September of each year and, 2) there are no precipitation events in the last four days.
 - A proposed definition was recently developed by the Task Force and includes several conditions such as the surface water elevation of the Prado Dam conservation pool, as well as a longer time period (April through October).



Key Definitions (Continued)

- Integrated Report – The federal Clean Water Act requires that California report on the quality of its surface waterbodies every two years.
 - The State Water Board leads this effort through its release of the Integrated Report and coordinates its work with the individual Regional Water Boards.
- Impaired Water List – A component of the Integrated Report.
 - Placing a waterbody on the Report’s 303(d) impaired list initiates the prioritization of Total Maximum Daily Load (“TMDL”) development, or another alternative restoration project, to restore and maintain water quality standards.

Regional Water Boards

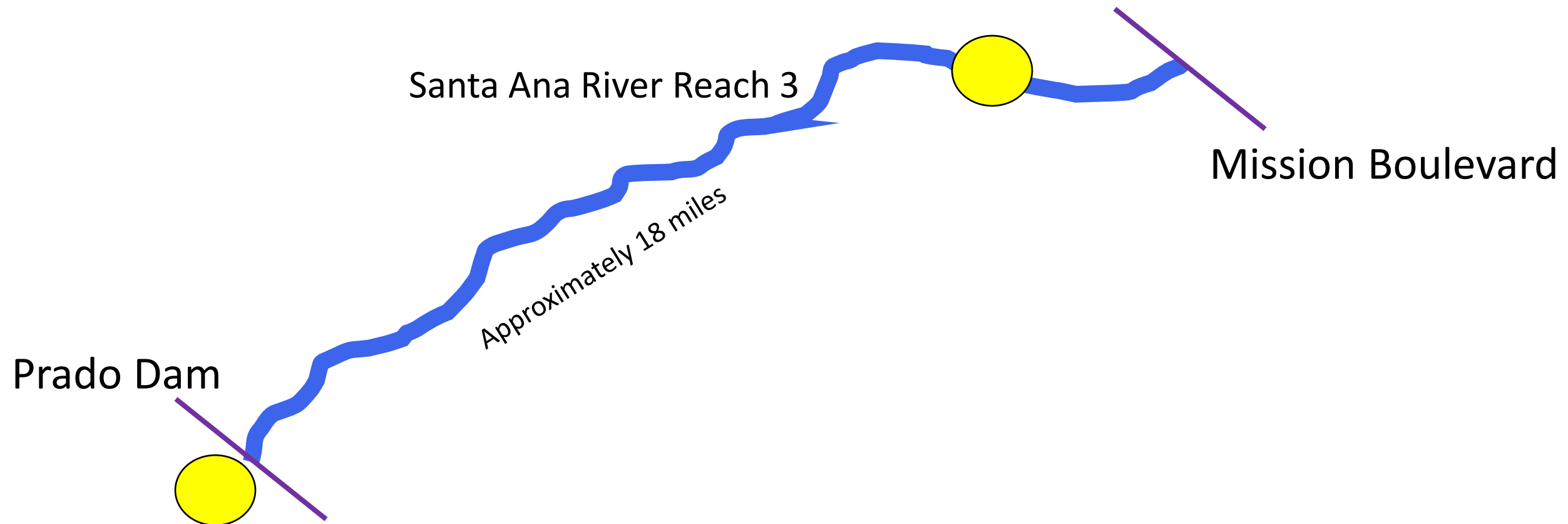


Impetus for Project

- The first recent* excursion of TDS over 700 mg/L occurred in 2013 and was reported in the 2013 Annual Report.
 - There has been several excursions over 700 mg/L since 2013 as reported in the Annual Report.
- Sound science is needed to understand fluctuating TDS level on downstream end of Reach 3 (below Prado Dam).
- The next Integrated Report data collection effort will occur in approximately the middle of 2026.

*A non-recent excursion of TDS over 700 mg/L at the downstream end of Reach 3 (below Prado Dam) was reported first in 1983 through a past Annual Report.

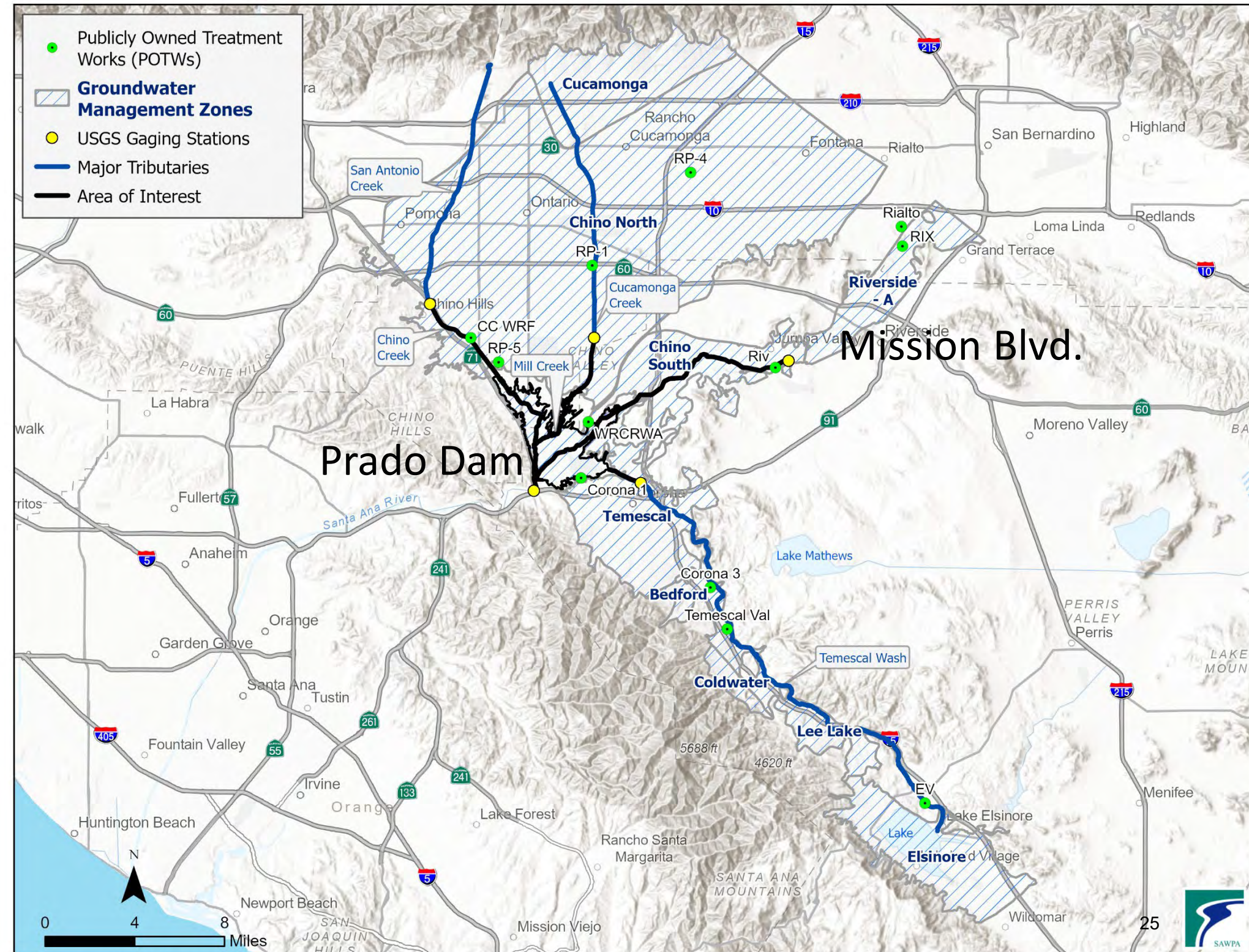
Reach 3 (Basin Plan Definition)



- Santa Ana River Reach 3 is described in the Basin Plan as “Prado Dam to Mission Boulevard in [the City of] Riverside.”
- There are several stream gaging stations (shown as ●) in this area along the Santa Ana River.
- There are several tributaries that connect to Reach 3 (Temescal Wash, Chino Creek, and Cucamonga/Mill Creek).

Area of Interest for Project (Black Lines)

- Area of interest is bounded by areas with regularly collected streamflow data, making it easier to quantify TDS fluctuations.
- Area includes tributaries to Reach 3 (to their upstream extent with stream stations).
- The nearby and underlying groundwater management zones highlighted in RFP for consultants. They may factor them in for their proposed scope of work.



2015 BMP Task Force Analysis Related Reach 3

- Analysis titled “Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River” (Wildermuth, February 2015)
 - The results of the investigation indicated that average TDS concentrations in August and September were fluctuating near 700 mg/L because the lower-TDS discharges from the Publicly Owned Treatment Works (POTWs) in the Santa Ana River were decreasing in volume.

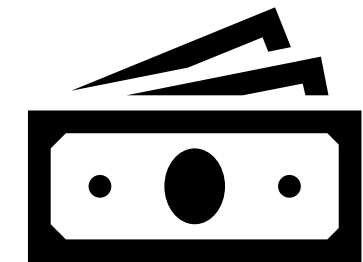
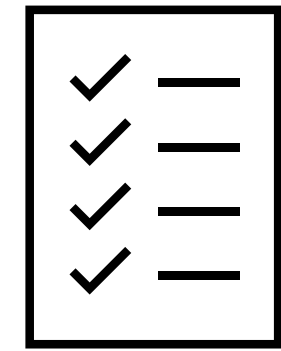


Waste Load Allocation Model and Reach 3

- The Waste Load Allocation Model (WLAM) is a tool the BMP Task Force currently has to represent and evaluate the causes of TDS in this area of the River.
- It is a comprehensive model that simulates water quantity (ground water and surface water) and quality (TDS and Nitrate) through a complex mass balance method for the Santa Ana River Watershed, including Reach 3.
- The 2020 WLAM Summary Report identifies three areas of rising groundwater. There are data gaps in these areas related to surface and groundwater interaction.

Deliverable/Objective of Project

- Develop a **monitoring plan** to help guide the Task Force on what to monitor to answer the question –
 - “Why are there fluctuating TDS concentrations during baseflow conditions at the downstream terminus of the Santa Ana River Reach 3?”
 - Note: Both the current and proposed “baseflow condition” are used in the Project.
- Monitoring plan will include **what** items should be monitored, and what their **costs are**.
 - Such as evapotranspiration rates for vegetation along Reach 3.



Funding Source for Project

- Funding is provided by annual dues of the Task Force members.

Schedule for Work

Calendar Year	2024				2025				2026				2027				2028			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
This Project																				
Phase 2 - Monitoring [Phase 2 as part of separate scope]									First Year of Monitoring				Second Year of Monitoring				Third Year of Monitoring			

- It is expected that the monitoring, as prescribed through the final monitoring plan, will take place over at least three years.
- A new contract will be procured by the Task Force to implement the monitoring that is agreed upon by the Task Force through the finalization of the monitoring plan.

RFP Schedule

Milestone	Date
Commission Considers RFP; Release RFP if Approved	November 19, 2024
Question Deadline	January 13, 2025
SAWPA Responds to Final Question(s)	January 16, 2025
RFP Responses Due	January 23, 2025
Possible Interviews	January 27 Week, 2025
Commission Approval of Contract with Successful Consultant	February 18, 2025
Kick-Off Meeting with Consultant	February 19 Week, 2025

Recommendation

To direct the General Manager to issue Request for Proposals for a Monitoring Plan - Santa Ana River Reach 3 Total Dissolved Solids (TDS) Special Study.

Thank You

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Basin Monitoring Program Task Force

Request for Proposals For Consulting Services

For

Monitoring Plan - Special Study of Total Dissolved Solids for Santa Ana River Reach 3

SANTA ANA WATERSHED PROJECT
AUTHORITY

NOVEMBER 19, 2024



SAWPA
REQUEST FOR PROPOSALS (RFP)
for
CONSULTING SERVICES
for
MONITORING PLAN - SPECIAL STUDY OF TOTAL DISSOLVED SOLIDS
FOR SANTA ANA RIVER REACH 3
NOTICE TO SUBMITTING FIRMS

Proposals submitted in response to this RFP as described herein, need to be submitted to Planet Bids at: <https://pbsystem.planetbids.com/portal/52676/portal-home>

1. All proposals must be received by 5:00 p.m. PST on Thursday January 23, 2025.
2. Prospective Offerors are required to submit all RFP questions, clarifications, or comments through Planet Bids' Q&A system at:
<https://pbsystem.planetbids.com/portal/52676/portal-home>.

Questions, clarifications, or comments must be received no later than Monday January 13, 2025 at 5:00 pm PST.

3. Any changes to this RFP are invalid unless specifically modified by SAWPA and issued as a separate addendum document. Should there be any question as to changes to the content of this document, SAWPA's copy shall prevail. It is the submitting firm's sole responsibility to ensure that their submittal, inclusive of any or all addenda, is received at the proper place at the proper time. SAWPA will not accept submittals after the due date/time listed above.

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SECTION 1 - PURPOSE OF SCOPE OF WORK

The Santa Ana Watershed Project Authority (SAWPA) requests proposals from qualified firms to provide technical services to assist the Basin Monitoring Program Task Force (BMP Task Force). The work will be performed under the supervision of the BMP Task Force, which includes 20 water agencies and staff from the Santa Ana Regional Water Quality Control Board (Santa Ana Water Board), in a collaborative effort organized by SAWPA. The primary objectives of this scope of work are:

Understand why there are fluctuating TDS concentrations during baseflow conditions at the downstream terminus of the Santa Ana River Reach 3 area of interest (AOI). Definitions for the major terms used in this purpose are:

1. The “downstream terminus” is the US Geological Survey (USGS) stream gage station 11074000 named “Santa Ana River below Prado Dam”.
2. “Baseflow conditions” in this scope is defined under two conditions:
 - a. When all of the following occur: 1) No precipitation events in the last four days; 2) no OC-59 discharges within the last four days; 3) surface water elevation of the conservation pool behind Prado Dam is at or below the level that the Army Corps of Engineers considers empty; and, 4) is between the period of April 1 through October 30 of each year.” This is described further in Section 3; or,
 - b. August and September of each year and there are no precipitation events in the last four days.

This scope is necessary because TDS is fluctuating around the antidegradation objective of 700 mg/L for Reach 3. The antidegradation objective, which is set through the [Water Quality Control Plan for the Santa Ana River Basin \(Basin Plan\)](#), is explained further in Section 2.

The AOI for this scope of work is a portion of the Santa Ana River Reach 3, as well as various tributaries that connect to Reach 3 that have USGS stations that track streamflow. Santa Ana River Reach 3 is described in the Basin Plan as “Prado Dam to Mission Boulevard in [the City of] Riverside.” Notably, the AOI for this scope of work starts downstream of Mission Boulevard at the Riverside Narrows where there is a USGS stream gage station 11066460 named “Santa Ana River at MWD Crossing”. The AOI extends downstream to the next USGS stream gage just below the Prado Dam outlet works, Station 11074000 named “Santa Ana River below Prado Dam.” The AOI also includes several Santa Ana River Reach 3 tributaries that have USGS stream gage stations. Those tributaries are Temescal Wash, Chino Creek, and Cucamonga/Mill Creek. The entire tributaries are not in the AOI, just segments that start from their respective USGS stations that monitor streamflow to their connection with Santa Ana River Reach 3. This description of the AOI is purposeful in order to have actual streamflow measurements at the upstream and downstream extents of the AOI. These boundary extents (i.e. USGS stream stations) are shown in Figure 1. Figure 2 shows a closer view of the AOI, and Figure 3 displays a distant view of the AOI in the context of the other reaches of the Santa Ana River.

Figure 1: Map of AOI

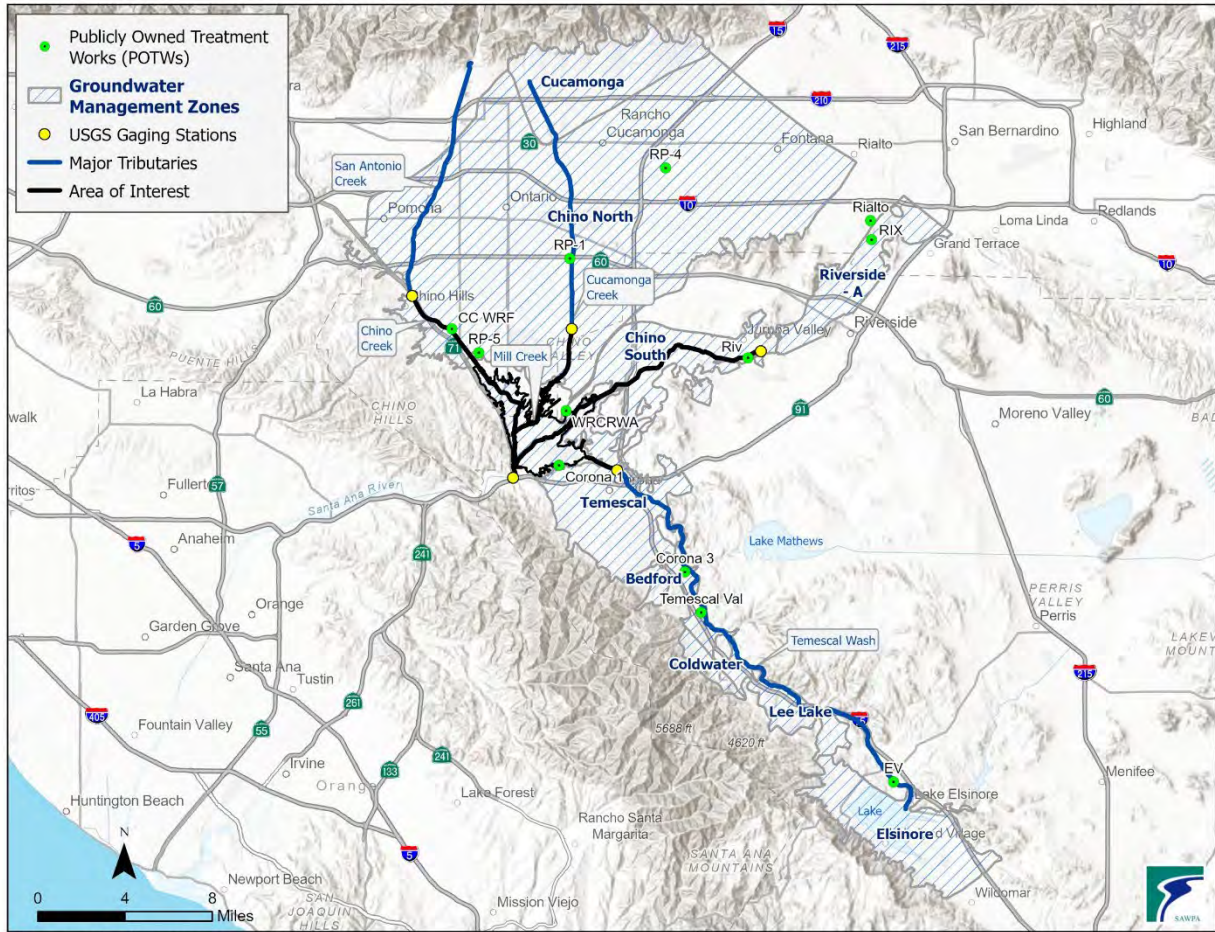
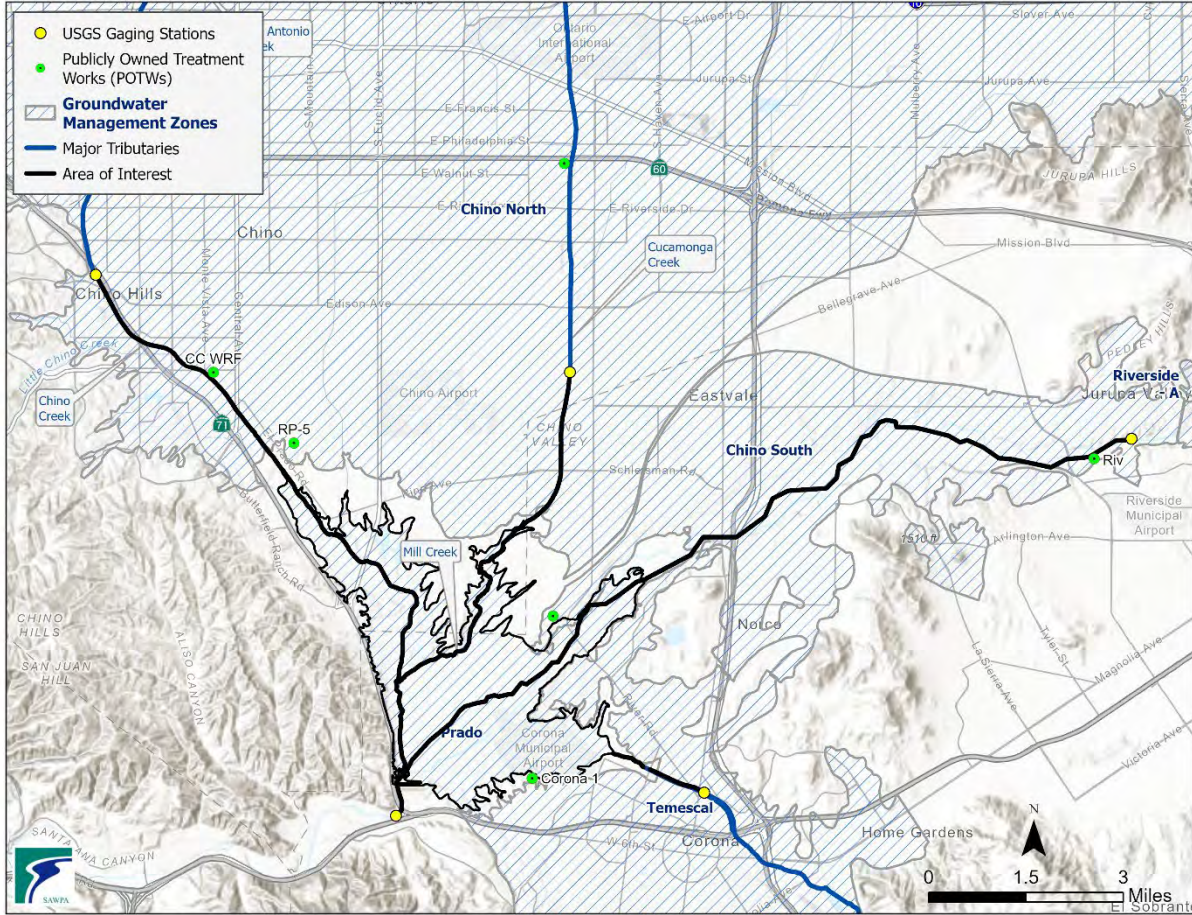
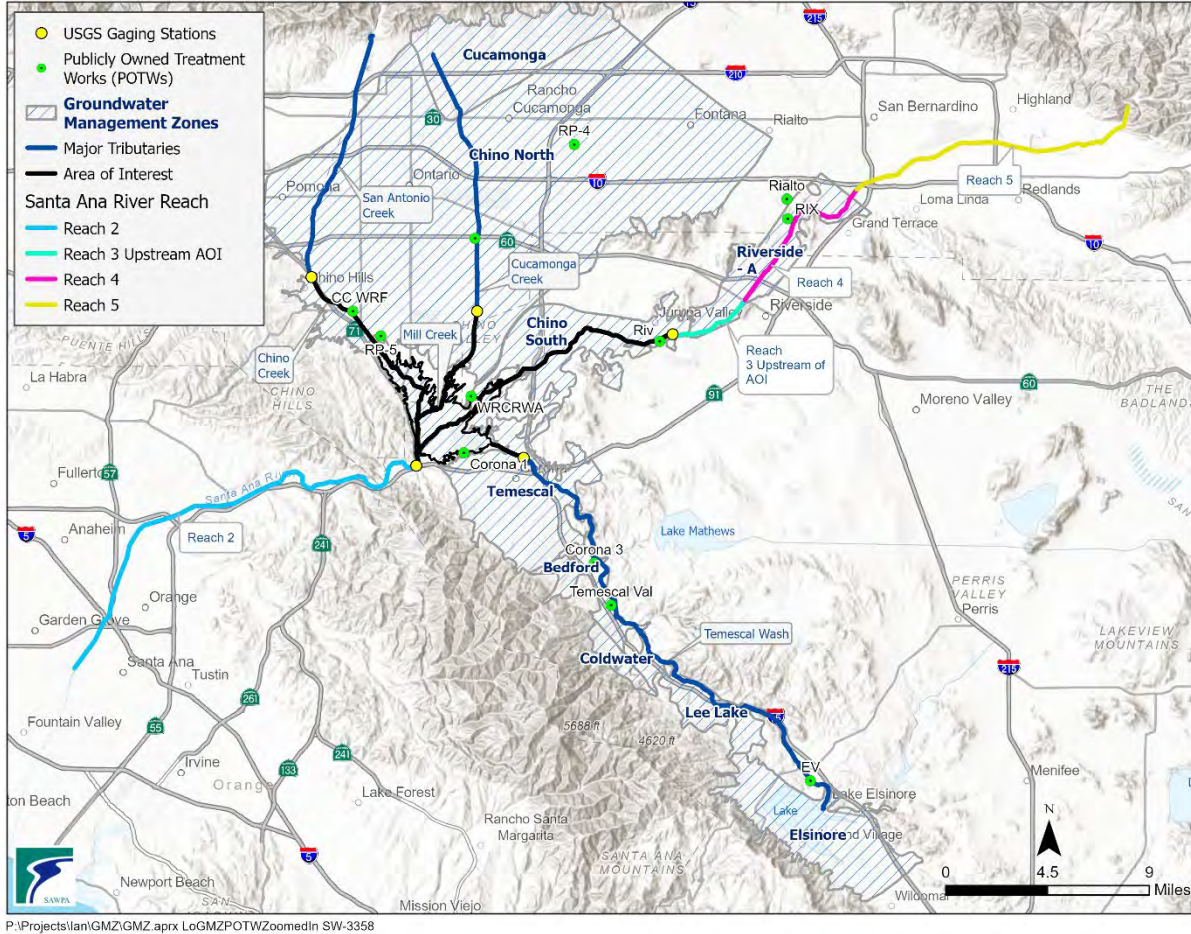


Figure 2: Closer View of AOI



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Figure 3: AOI in Context of Other Reaches



The nearby and underlying groundwater management zones (GMZs) such as Riverside-A and Chino-South, and Prado Basin Management Zone (PBMZ) are also shown in the above figures for context. Underlying and/or nearby GMZs may also be included in the AOI depending on the Consultant’s approach to implementing the scope of work.

The Waste Load Allocation Model (WLAM)¹ is a tool the BMP Task Force currently has to represent and evaluate the causes of TDS in the AOI. It is a comprehensive model that simulates water quantity (ground water and surface water) and quality (TDS and Nitrate) through a complex mass balance method for the Santa Ana River Watershed, including Reach 3. The latest WLAM update (2020 WLAM) is described in the “Santa Ana River Waste Load Allocation Model Update Summary Report” (Geoscience, 2020).

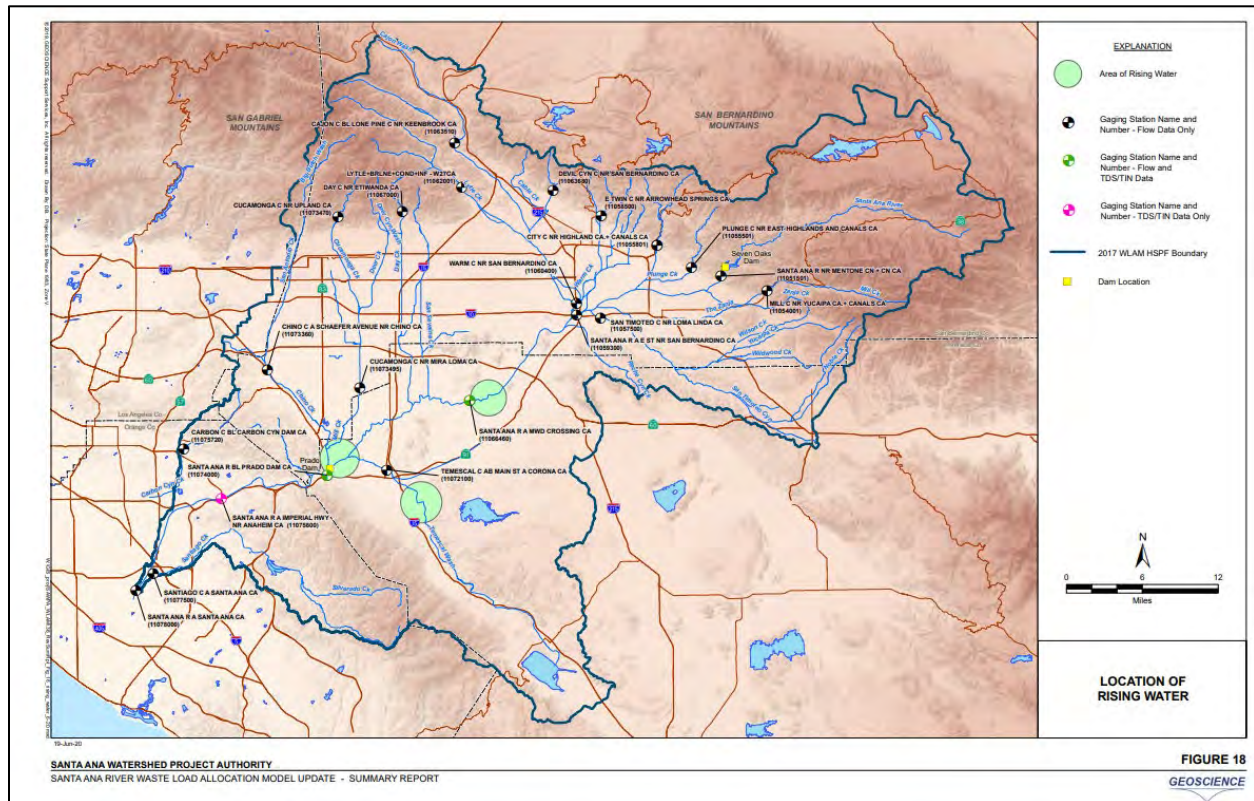
The 2020 WLAM Summary Report identifies three areas of rising groundwater, shown in Figure 18 of the report. There are data gaps in these areas related to surface and groundwater

¹ The WLAM model must be updated every ten years by the Task Force. The Basin Plan includes waste load allocations for POTW discharges to the Santa Ana River, and the WLAM is updated every ten years in order to account for plans of the water agencies and changing conditions in the basin (e.g., land use). It is also recalibrated based on recent observed streamflow and water quality data (TDS and Nitrate).

interaction, and thus the WLAM applies an assumed rising water flow (with associated TDS and Nitrate concentrations) at the three locations.

The goal of this scope is to explain why there are fluctuating TDS concentrations during baseflow conditions at the downstream terminus of the AOI, which is directly related to the BMP Task Force’s long-term interest to improve future calibration of the WLAM. Which, if done well, will simulate the TDS and Nitrate sources and the dynamics producing rising water in the three cited areas from Figure 18. Further, the BMP Task Force seeks to obtain information to determine the location(s), source(s), and possibly other information regarding TDS fluctuations in Reach 3 of the Santa Ana River.

Figure 4: “Location of Rising Water” Figure from 2020 WLAM



SECTION 2 – PAST BMP TASK FORCE REACH 3 STUDIES

Aside from the WLAM, the BMP Task Force has conducted studies using spreadsheet-based mass-balance calculations over various time series. Besides a reported excursion above 700 mg/L in 1983, the first report of TDS over 700 mg/L occurred in 2013 and was reported in the 2013 Annual Report of Santa Ana River Water Quality).

In response, the BMP Task Force contracted with Wildermuth Environmental Inc. to prepare a spreadsheet-based mass-balance calculation using the time series of June to September between 2004 to 2012. These calculations were documented in the February 2015 study titled “Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River” (Wildermuth, February 2015), which is shown in Appendix C. The results of the investigation indicated that average TDS concentrations in August and September were fluctuating near 700 mg/L because the lower-TDS

discharges from the Publicly Owned Treatment Works (POTWs) in the Santa Ana River were decreasing in volume. The investigation also concluded that there are likely other gains and losses of Santa Ana River discharge that occur in Reach 3 (e.g., rising groundwater, streambed recharge, evapotranspiration, dry-weather runoff, etc.), and that some of these discharges may have TDS concentrations much higher than 700 mg/L.

The surface water monitoring sites and discharge locations used for the mass-balance calculations in the February 2015 study are summarized in Table 1 below (refer to the February 2015 study for the full details on the sites).

Table 1: Surface Water Monitoring Sites with Discharge and TDS Data

(From February 2015 Wildermuth Report)

Site Name	Discharge Type	Monitoring Entity
Santa Ana River below Prado Dam (USGS station 11074000)	Stream flow	USGS - Streamgage
Chino Creek at Pine Avenue	Stream flow	CBWM/IEUA
Cucamonga Creek near Mira Loma (USGS station 11073495)	Stream flow	USGS
Mill Creek at Chino-Corona	Stream flow	NA
Hole Lake Outlet Channel	Stream flow	CBWM/IEUA
Temescal Creek above Main Street at Corona (USGS station 11072100)	Stream flow	USGS – Streamgage
Santa Ana River at MWD Crossing (USGS station 11066460)	Stream flow	USGS – Streamgage
Riverside Regional Water Quality Control Plant - DP-001	POTW	City of Riverside
IEUA DP-001 - effluent from Regional Water Recycling Plant No. 1	POTW	IEUA
Western Riverside County Regional Wastewater Treatment Plant - DP-001	POTW	WRCWRA
Corona Wastewater Treatment Plant No. 1 - DP-001	POTW	City of Corona

In June 2015, a follow-up investigation was completed for the BMP Task Force, to characterize the volume-weighted TDS concentration of discharge from POTWs that could potentially reach Prado Dam in August and September. That study, also completed by Wildermuth, is entitled “Volume-Weighted TDS Concentration of POTW Discharge above Prado Dam during August-September” (Wildermuth, June 2015). This follow-up investigation analyzed 2004 to 2014 effluent discharges and associated TDS concentrations in August and September for 13 POTW discharge locations along Reach 3 of the Santa Ana River and its tributaries. From 2004 to 2014, total POTW discharge for August and September decreased from 8,213 to 4,819 million gallons, which is a decrease of about 58 percent. The volume-weighted TDS concentration of POTW discharge from 2004 to 2014 ranged from 529 mg/L to 569 mg/L, which are well below the Reach 3 TDS antidegradation objective. The results of the June 2015 study supported the conclusion of the February 2015 study that the observed increase in TDS concentration in baseflow at Below Prado Dam in August and September since 2004 is correlated with the decrease in POTW discharge volumes of relatively low TDS concentration.

Since the 2013 annual report, which reported an annual average of 713 mg/L for Regional Board TDS samples taken in August and September, the average TDS concentration during the

baseflow condition at Below Prado Dam continues to fluctuate. In 2019 and 2020, the BMP Task Force updated the June 2015 study, and evaluated the flow-weighted TDS concentrations of POTW discharges in August and September for the 2015 to 2021 period.

SECTION 3 - REACH 3 AND THE BASIN PLAN

The Basin Plan contains the Santa Ana Water Board's policies for managing the Region's water quality. The Basin Plan includes the water quality standards (antidegradation objectives, beneficial uses, and anti-degradation policy) for the Santa Ana Basin, regionally important water quality management and improvement initiatives, policies and practices for implementing water quality standards, and implementation plans.

The Santa Ana River Reach 3 TDS surface antidegradation objective is 700 mg/L as defined in the Basin Plan. The metric for this compliance, is “annual average of all grab samples collected during base flow conditions.” As described in Section 2, historically, Reach 3 surface water sample collection has been done by the Regional Board as well as USGS and Orange County Water District through a series of grab and composite samples at the Santa Ana River below Prado Dam USGS Station during the baseflow condition as described by the Basin Plan, which is generally during August/September.

The BMP Task Force has been working with Santa Ana Water Board staff on potential revisions to the Basin Plan. One of the potential revisions is to clarify the term baseflow. The current proposed language in draft form reads as follows:

“The defined base flow condition is when all of the following occur: 1) No precipitation events in the last four days; 2) no OC-59 discharges within the last four days; 3) surface water elevation of the conservation pool behind Prado Dam is at or below the level that the Army Corps of Engineers considers empty; and, 4) is between the period of April 1 through October 30 of each year. Under these conditions, the volumes of storm flows, rising water, and nonpoint source discharges tend to be low. The major component of base flow at this time is municipal wastewater.”

SECTION 4 - ABOUT SAWPA AND BASIN MONITORING PROGRAM TASK FORCE

SAWPA was formed in 1968 as a joint power authority under California law and is composed of five member agencies: Eastern Municipal Water District, Inland Empire Utilities Agency, Orange County Water District, San Bernardino Valley Municipal Water District, and Western Municipal Water District. SAWPA's office is located at 11615 Sterling Avenue, Riverside, CA 92503, and the website is <http://www.sawpa.gov>.

SAWPA focuses on a broad range of water resource issues in its service area – the Santa Ana River Watershed. This RFP falls within the BMP Task Force, which SAWPA administers. The BMP Task Force includes 20 water agencies and staff from the Santa Ana Water Board who have signed a [2004 agreement](#) to work together through shared funding and staff expertise. The BMP Task Force monitors TDS and Nitrate (N) concentrations periodically in groundwater basins (known as “groundwater management zones”) and annually in the Santa Ana River, prepares models that help support their watershed-wide efforts, and conducts other special studies as needed. The BMP Task Force implements this work to ensure compliance with surface water and groundwater quality regulations related to TDS and N. The Santa Ana Water Board administers these regulations per federal and statewide water quality laws, plans and policies, including the

Porter Cologne Water Quality Control Act and the Clean Water Act. The Santa Ana Water Board is an active collaborative partner in the BMP Task Force. Most of the BMP Task Force members, shown in Table 2 below, operate POTWs that discharge treated recycled water to surface and groundwater bodies in the Santa Ana River Watershed.

Table 2: BMP Task Force Water Agency Members

Beaumont Cherry Valley Water District	Elsinore Valley Municipal Water District
Chino Basin Watermaster	Inland Empire Utilities Agency
City of Banning	Irvine Ranch Water District
City of Beaumont	Jurupa Community Services District
City of Corona	Orange County Water District
City of Redlands	San Bernardino Valley Municipal Water District
City of Rialto	San Gorgonio Pass Water Agency
City of Riverside	Temescal Valley Water District
Colton/San Bernardino Regional Tertiary Treatment and Wastewater Reclamation	Western Riverside County Regional Wastewater Authority/Western Municipal Water District
Eastern Municipal Water District	Yucaipa Valley Water District

Notes: The Santa Ana Water Board is also a non-funding BMP Task Force member.

SECTION 5 - SCOPE OF WORK

The scope of work for this project will include the following activities. It is important to note that SAWPA and the BMP Task Force individual parties are also in discussion with various university and graduate students to begin collecting data along Reach 3. The Consultant shall coordinate that work with SAWPA through Task 4.

As the Consultant reviews and prepares a Proposal for the four tasks below, the Consultant is encouraged to propose alternative approaches to the four tasks, including alternatives for assessing sources of TDS in Reach 3 of the Santa Ana River such as rising groundwater, streambed recharge, evapotranspiration, dry-weather runoff, etc.

Task 1 – Update Mass Balance Calculation

Using either 1) the existing spreadsheet from the February 2015 study “Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River”, or 2) an approach that utilizes the 2020 WLAM, (unless an alternative proposed approach is provided as part of the Consultant Proposal and selected by the BMP Task Force) the Consultant is being asked to update the mass balance calculations using the new baseflow definition from Section 3 for the following eight-year period: calendar years 2017 to 2024.

The mass-balance should include two separate sets of calculations for the 2017 to 2024 period in order to determine flow and TDS concentrations under both “baseflow conditions” definitions:

- a) When all of the following occur: 1) No precipitation events in the last four days; 2) no OC-59 discharges within the last four days; 3) surface water elevation of the conservation pool behind Prado Dam is at or below the level that the Army Corps of Engineers considers empty; and, 4) is between the period of April 1 through October 30 of each year.” This is described further in Section 3. and;
- b) August and September of each year and there are no precipitation events in the last four days.

If the Consultant deems the existing spreadsheet from the February 2015 study “Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River” as more appropriate, the streamflow and TDS concentration data that is anticipated to still be available as they were in 2015 is summarized in Table 3 below.

If the Consultant deems the 2020 WLAM as more appropriate, information is available from SAWPA. The [2020 WLAM Summary Report](#) describes the water budgets and mass balance calculations in Section 4.4.1 on page 60. It references tables 5 through 18 included in [Part 2 of the 2020 WLAM Summary Report](#) that summarize the mass balance calculations used in calibrating the 2020 WLAM. The Consultant shall refer to [Part 3](#) and the [Supplemental Report](#) of the 2020 WLAM Summary Report if needed.

The Consultant’s updated mass-balance should include only real data such as was done in the 2015 study, as opposed to including some modeled or estimated data.

The Technical Memorandum should summarize the rate of inflows and outflows for the AOI (such as cubic feet per second) and also the quality for TDS.

Table 3: Data Likely Available for Updated Mass-Balance if 2015 Spreadsheet Used

Site Name	Discharge Type	Monitoring Entity	Available for 2017 to 2024	X Coordinate	Y Coordinate
Santa Ana River below Prado Dam (USGS station 11074000)	Stream flow	USGS	Yes	- 117.644996	33.883665
Chino Creek at Pine Avenue	Stream flow	CBWM/IEUA	No	-117.666466791	33.9491485160214
Cucamonga Creek near Mira Loma (USGS station 11073495)	Stream flow	USGS	Yes	-117.599727428	33.9830327090215
Mill Creek at Chino-Corona	Stream flow	NA	No	NA	NA
Hole Lake Outlet Channel	Stream flow	CBWM/IEUA	No	-117.464306433	33.9601601240214
Temescal Creek above Main Street at Corona (USGS station 11072100)	Stream flow	USGS	Yes	-117.563889	33.8894440000212
Santa Ana River at MWD Crossing (USGS station 11066460)	Stream flow	USGS	Yes	- 117.448032	33.968027
Riverside Regional Water Quality Control Plant - DP-001	POTW	City of Riverside	Yes	-117.469243837	33.9624772930214
IEUA DP-001 - effluent from Regional Water Recycling Plant No. 1	POTW	IEUA	Yes	-117.599919412	34.0257446100217
Western Riverside County Regional Wastewater Treatment Plant - DP-001	POTW	WRCWRA	Yes	-117.604554917	33.9216720200213
Corona Wastewater Treatment Plant No. 1 - DP-001	POTW	City of Corona	Yes	-117.611259211	33.8954661080212

The Consultant should consider new or additional data sources that could impact baseflow TDS concentrations in Reach 3 beyond those that are in Table 3, or beyond those included in the 2020 WLAM.

Deliverables for Task 1:

- Technical Memorandum summarizing mass-balance calculations:
 - Draft Technical Memorandum for BMP Task Force Review,
 - Final Technical Memorandum (with response to comments shown as an appendix).
- Final and draft files (such as spreadsheets) used for mass-balance calculations showing formulas used.

Task 2 – Coordination with Groundwater Managers in the Reach 3 Area

There are several entities in the Reach 3 area that are evaluating potential groundwater data gaps per the [October 2023 Groundwater Data Gap Framework](#) that was submitted to the Regional Board by the BMP Task Force. The Temescal Basin Groundwater Sustainability Agency (GSA) has also identified several data gaps through their [2022 Groundwater Sustainability Plan](#). The Consultant should utilize these existing efforts to identify what plans there are from these entities to monitor new groundwater data. These efforts are shown in the table below:

Table 4: Groundwater Manager Efforts Reach 3 Area

Groundwater Manager Effort	Effort Description	Agencies Involved
Riverside-A Groundwater Management Zone	Groundwater managers are evaluating two potential groundwater data in Riverside-A to comply with the October 2023 Final Data Gap Framework .	City of Colton City of Rialto City of Riverside City of San Bernardino
Chino-South Groundwater Management Zone	Groundwater managers are evaluating two potential groundwater data in Chino-South to comply with the October 2023 Final Data Gap Framework .	Chino Basin Watermaster Inland Empire Utilities Agency Jurupa Community Services District
Temescal Basin Groundwater Sustainability Agency	Data Gaps described on page 7-11 of their Groundwater Sustainability Plan .	City of Corona City of Norco Home Gardens County Water District

The Consultant is being asked to coordinate with these agencies, and others as determined appropriate, to gain an understanding of:

- 1) Do they have planned activities to monitor groundwater in or near the rising groundwater areas provided in the 2020 WLAM Summary Report's Figure 18?
- 2) If they have plans, can they be utilized for implementing the purpose of this scope?
Per Section 1, the purpose of the scope is – "Understand the cost/benefits of collecting new data and/or analyzing existing data, either of which explain why there are fluctuating TDS concentrations during baseflow conditions at the downstream terminus of the AOI."
- 3) If yes to question 2, what years will they have data that will be available to implement this scope?
- 4) Do they have any indication of the TDS concentrations of potential rising groundwater in their areas of interest.

The consultant shall also ask these questions of the following agencies who may or may not be part of other group efforts in the Reach 3 Area (i.e. agencies in the Santa Ana River Watershed that may not be in Table 4).

Deliverables for Task 2:

- Draft memorandum on findings from coordination with groundwater managers.
- Final memorandum that reflects SAWPA and BMP Task Force's Regulatory Strategy Consultant comments.

Task 3 – Technical Memorandum (Monitoring Plan)

Consultant should analyze the results of the 2020 Santa Ana River Waste Load Allocation Model Update Summary Report, particularly the sections on the groundwater data gaps and information on surface/groundwater interactions. By conducting this or a similar analysis and through implementation of Tasks 1 and 2, the Consultant should design a plan (described in a technical memorandum format) to monitor sources that of TDS in Reach 3 of the Santa Ana River, and/or its tributaries, that may be causing fluctuating or increasing TDS concentrations at the downstream terminus of the AOI.

The Consultant will develop a draft and final version of the technical memorandum which shall include how to monitor/address the data gaps and a draft/final cost estimate to implement their monitoring plan. The Technical Memorandum (monitoring plan) should summarize what data should be collected within a three-year data collection period. The cost estimates shall also be provided as an annual cost; the cost estimates should be segmented into data collection categories.

The Technical Memorandum (monitoring plan) should include estimated costs for sampling and data collection. Assuming that the monitoring plan recommends collection of various types of data, the Consultant should explain the need and value for each type of data when the draft technical memorandum is presented (i.e. not to be included in the technical memorandum itself, but in the associated presentations by the Consultant) to the BMP Task Force. Through the review of the draft technical memorandum (draft monitoring plan), the BMP Task Force will provide direction to the Consultant regarding its content and implementation. The final technical memorandum (final monitoring plan) will factor in the BMP Task Force feedback and incorporate the BMP Task Force's recommendations with respect to implementation of the monitoring plan.

Deliverables for Task 3:

- Draft Technical Memorandum for BMP Task Force Review
- Final Technical Memorandum (with response to comments shown as an appendix).

Task 4 – Task Force Project Management

The Consultant shall assign a Project Director to be the main point of contact for implementing the scope.

Within two weeks of the execution of the Task Order, the Project Director will conduct a project Kick-off meeting and follow-on meetings, as necessary, with SAWPA staff and BMP Task Force Regulatory Strategy Consultant to review and address questions regarding the project scope of work, and deliverables.

The Consultant team will meet with the BMP Task Force approximately monthly (assume two-hour meetings) for the duration of tasks 1, 2 and 3. Assume two meetings per year will be in-person and the others can be attended via web-based call (SAWPA currently uses Zoom software for web-based BMP Task Force meetings). Consultant team to provide appropriate meeting materials in advance including, but not limited to agendas, meeting notes, PowerPoint presentations to SAWPA. SAWPA will distribute these materials to the BMP Task Force.

Coordination efforts include interaction with, but not limited to, SAWPA staff, members of the BMP Task Force, and other consultants under contract to the BMP Task Force including Regulatory Strategy Consultant Theresa “Tess” Dunham of Kahn, Soares & Conway (KSC), LLP.

It is important to note that SAWPA and the BMP Task Force individual parties are also in discussion with various university and graduate students to begin collecting data along Reach 3. The Consultant should work with SAWPA and others to understand the extent of other monitoring efforts that may provide benefit to this Scope of Work.

Coordination efforts also involve the Consultant performing project management such as periodic meetings with SAWPA and the Regulatory Strategy Consultant, which will be necessary before important BMP Task Force meetings.

Table 5: Summary of Deliverables

Task	Deliverables
1	Draft and final technical memorandum
2	Draft and final memorandum
3	Draft and final technical memorandum
4	Meeting notes, PowerPoint presentations, progress reports, invoices

SECTION 6 - SCOPE OF WORK SCHEDULE

The summary schedule for this scope of work (i.e. tasks 1 through 4) is shown in Figure 5 below. As described in Section 7, the Consultant will specify a detailed schedule for Tasks 1 through 4.

It is expected that the monitoring, as prescribed through the implementation of Task 3, will take place over at least three years, which will begin after the finalization of the Task 3 Final Technical Memorandum that includes the monitoring plan, and a Consultant is procured for that work. A new contract will be procured by the BMP Task Force to implement the monitoring that is agreed upon by the BMP Task Force through the finalization of the Task 3 final monitoring plan included in the final technical memorandum.

Figure 5: High-Level Scope of Work Schedule

Calendar Year	2024				2025				2026				2027				2028			
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Tasks 1 through 4																				
Phase 2 - Monitoring [Phase 2 as part of separate scope]									First Year of Monitoring				Second Year of Monitoring				Third Year of Monitoring			

SECTION 7 - CONSULTANT PROPOSAL

Responses to this RFP must be made according to the requirements set forth in this section for content and sequence. Failure to adhere to these requirements or to include conditions, limitations, or misrepresentations may be cause for rejection of the proposal. Any correction and resubmission by the proposer will not extend the time for evaluation of the proposal. Responses to this RFP shall be prepared as concise as possible.

The proposal should be no more than 15 pages long and provided as a Microsoft Word document (pages sized 8.5" by 11"). Each page should be numbered.

Submit proposal through the Planet Bids website: <https://vendors.planetbids.com/portal/52676/portal-home>. Hard copies will not be reviewed.

All proposals must be received by **January 23, 2025 at 5:00 PM PST**. Proposals received after the stated time will not be considered.

If additional information is needed, use Planet Bids to pose questions to SAWPA staff. Questions may be submitted at anytime until **January 16, 2025 at 5:00 PM PST**. A response document will be posted to Planet Bids and updated in a timely manner to address all questions received before that deadline. If questions are submitted up until that deadline, SAWPA will respond by January at 5:00 PM PST to any final questions received.

All proposals must include the following information. When responding to this RFP, please label each section using the bolded text below:

- Cover Letter:** On the cover letter, the proposer shall provide key details about their organization by completing Table 6 below. The Proposer’s owner or principal staff who can execute a Task Order and General Services Agreement (see Appendix B) should be the individual signatory.

The Proposer’s signature on the Cover Letter, should they be awarded a contract as defined in this RFP, signifies that you have fully read and understood this RFP and will comply with all specifications, conditions, unit prices, terms, and delivery noted unless otherwise described through your completion/submittal of Appendix A4 - Additions, Deletions and/or Exceptions.

Table 6: Table for Cover Letter

Proposer’s Name:			
Authorized Signature:		Date:	

Name of Individual Signatory		Title of Individual Signatory	
Direct Phone #:		Mailing Address:	
E-Mail Address:		City, State, Zip	

- a. In addition to cover letter, complete Appendix A1 - Proposer’s Business Information. This shall be provided in the submittal on the page after the Cover Letter.

2. **Executive Summary:** The proposer shall provide a brief summary of the firm’s origin, background, and size of the entity, an organizational chart, the overall capabilities of the organization, appropriate licenses and certifications (if applicable), and proximity of company’s resources to Reach 3 of the Santa Ana River.

3. **Experience & Qualifications** - The proposer shall provide resumes of key team members and descriptions of similar projects that have been successfully completed in the past five years. References must be submitted.
 - a. Complete Appendix A2 - References to list two to three current/former references that the proposer has served in the past five years. California government or non-profit organizations clients are preferred as references. Private clients for whom comparable services have been performed are acceptable.

In this section of the proposal, the Proposer shall also demonstrate they:

 - Have at least five years of experience in water quality studies that have required analyzing field data from various sources and groundwater modeling results.
 - Have represented the interests and needs of California government agencies and/or non-profit organizations in the last five years.
 - State that they are willing to provide a client list to demonstrate that no other clients could negatively impact SAWPA.

4. **Understanding of the Project** – The Proposer shall:
 - a. Provide a brief description of the Project and its understanding of the important elements, as well as technical considerations of the Project.

Please note the BMP Task Force and the Santa Ana River Watershed region already have sophisticated models that predict conditions that directly affect TDS, such as rising groundwater, for Reach 3. Examples include the WLAM and the Upper Santa Ana River Integrated Model.²

- b. Per the bold text above, the Proposer shall thoroughly explain, and justify, the type of analysis they will utilize for their scope of work (which is provided by the Proposer per question 5 below) and how this analysis will not duplicate existing sophisticated models.

² The Upper Santa Ana River Integrated Model is described in the Summary Report prepared for San Bernardino Valley Municipal Water District (Geoscience, 2020).

- 5. Scope of Work** – The Proposer shall provide a scope of work. This shall be done by utilizing the Scope of Work from Section 5 and edit it where appropriate based on Proposers best professional judgment (especially for task 1, 2 and 3). The Proposer shall provide their scope of work using the same task 1, 2, 3 and 4 format, and add subtasks (and tasks) where needed. If necessary, the deliverables and deliverables summary table should be edited.

The Proposer may make edit scope of work by adding other types of items such as:

- Geochemical analysis, such as Water Character Index or Stiff diagrams,
- Remote sensing using temperature to study locations of rising groundwater,
- Other types of analysis.

- 6. Project Schedule** – The Proposer shall provide a schedule that reflects the proposed scope of work for completing the Project by completing each of the tasks before December 31, 2025. The schedule shall show each task and its activity duration. If the Proposer uses subtasks in their scope of work, the schedule shall also show each subtask and its activity duration.

- 7. Compensation Budget** – The Proposer shall utilize the Microsoft Excel Workbook provided on PlanetBids to complete their budget for the project. If the Proposer uses subtasks in their scope of work, the budget shall also show each subtasks' budget (rows can be added in the workbook). The workbook and it's formulas to use are shown in Figure 6 below. If subtasks are added, the formulas should be updated as each task total needs to reflect any associated subtasks. The budget total shall be highlighted in yellow by the Consultant as shown in Figure 6 below. In addition to completion the workbook, complete Appendix A3 if sub-consultants are provided in the workbook.

Figure 6: Excel Workbook Layout with Formulas

A	B	C	D	E	F	G	H	I
Task #	Task Name	Consultant Costs	Equipment Costs	Sub-Consultant Costs	Task Total and Grand Total	Consultant Hours	Equipment Description	Sub-Contractor Descriptions
1	Update Mass Balance Calculation				=(C2+D2+E2)		Add text if necessary	Add text if necessary
2	Coordination with Groundwater Managers in the Reach 3 Area				=(C3+D3+E3)		Add text if necessary	Add text if necessary
3	Technical Memorandum (Monitoring Plan)				=(C4+D4+E4)		Add text if necessary	Add text if necessary
4	Task Force Project Management				=(C5+D5+E5)		Add text if necessary	Add text if necessary
5	Totals	=(C2+C3+C4+C5)	=(D2+D3+D4+D5)	=(E2+E3+E4+E5)	=(F2+F3+F4+F5)	=(G2+G3+G4+G5)		NA

- 8. Additions, Deletions and/or Exceptions** - Compliance with SAWPA's contractual terms and/or RFP requirements.

The Proposer shall utilize Appendix A4 - Additions, Deletions and/or Exceptions to note any additions, deletions and/or exceptions to the contractual terms and/or RFP requirements. If there are no exceptions taken, note in writing that there are none.

SECTION 8 - HOW THE RFP RESULTS WILL BE USED

The successful consultant will execute a Task Order, which will be issued under a SAWPA General Services Agreement (GSA). The agreed upon Scope of Work and associated budget will be included in the Task Order with the selected consultant and SAWPA.

The selected consultant or professionals will perform the services stated herein in accordance with the highest legal, ethical, and professional standards.

The terms and conditions contained herein constitute the full and complete understanding of the parties. However, should the consultant request additional contractual terms and conditions for consideration, such requests must be clearly identified by completing/submitting Appendix A4 - Additions, Deletions and/or Exceptions. No additional terms and conditions will be accepted following receipt of RFP proposal submittals, and SAWPA will consider such additional contractual terms and conditions as part of its evaluation process.

SAWPA reserves the right to withhold award of any Task Order and GSA for a period of one hundred and twenty (120) days following the RFP submittal deadline. All submittals received are considered firm for that 120-day period.

SECTION 9 - GENERAL CONTRACT TERMS

- A. SAWPA may make such investigations as it deems necessary to determine the ability of the firm to provide the goods and/or service as specified, and the firm shall furnish to SAWPA, as is commercially reasonable, all such information and data for this purpose. SAWPA may discuss or negotiate with one or more consultants prior to award and reserves the right to reject any submittal.
- B. SAWPA reserves the right to reject any or all qualification submittals, either separately or as a whole and to waive any informality in a qualification submittal or to accept any qualification submittal presented which it deems best suited to the interest of SAWPA, and is not to be bound to accept the lowest price. SAWPA reserves the right to negotiate with any qualified source. SAWPA reserves the right to reject any or all proposals for any reason or for no reason at all.
- C. SAWPA reserves the right to request further information from the proposer either in writing or orally. Such request will be addressed to that person or persons authorized by the proposer to represent the proposer.
- D. SAWPA reserves the sole right to judge the proposers' representations, either written or oral.
- E. The cost for developing the RFP submittal is the sole responsibility of the firm. All submittals shall become the property of SAWPA.
- F. Be advised that all information contained in qualification submittal in response to this solicitation may be subject to the California Public Records Act (Government Code Section 6250 et seq.), and information's use and disclosure are governed by this Act. At such time as SAWPA's recommendation to the SAWPA Commission relative to proposal selection appears on the SAWPA Commission agendas, all such proposals become a matter of public record, and shall be regarded as public records, with the exception of those parts of each proposal which are defined by the proposer as business or trade secrets, and so marked, as "confidential" or "proprietary" in the RFP response from the proposer. All proposals submitted in response to this RFP will become the exclusive property of SAWPA.

- G. Proposers understand and agree that submission of a proposal constitutes acknowledgement and acceptance of, and a willingness to comply with, all of the terms, conditions, and criteria contained in this RFP.
- H. False, incomplete, or unresponsive statements in connection with a proposal may be sufficient cause for the rejection of the proposal. The valuation and determination of the fulfillment of the above requirement will be SAWPA’s responsibility and its decision shall be final.
- I. SAWPA reserves the right to interpret or change any provisions of this RFP at any time prior to the proposal submission date. Such interpretations or changes will be in the form of addenda to this RFP. Such addenda will become part of this RFP and may become part of any resultant Task Order and GSA. Such addenda will be made available on Planet Bids. Should such addenda require additional information not previously requested, a proposer’s failure to address the requirements of such addenda might result in the proposal not being considered.

SECTION 10 - RFP SCHEDULE

RFP Published	November 19, 2024
Question Deadline	January 13, 2025 at 5:00 PM PST
SAWPA Responds to Final Question(s)	January 16, 2025 at 5:00 PM PST
RFP Responses Due	January 23, 2025 at 5:00 PM PST
Possible Interviews	January 27, 2025 through January 31, 2025
SAWPA Commission Approval of Task Order and GSA with Successful Consultant	February 18, 2025 at 9:30 AM PST
Kick-Off Meeting with Consultant	February 19, 2025 through February 25, 2025

SECTION 11 - SELECTION CRITERIA

The criteria for vendor selection shall be based on, but not limited to, the following:

1. Qualifications and Experience (Firm and Personnel) – Consultant shall have a minimum of five years demonstrated experience in surface and ground water quality monitoring services and resumes of key people to address experience and qualifications, educational background, and skills. Experience and understanding of TDS in surface and groundwaters in the Santa Ana Region is preferred.
2. Quality of the Proposed Scope - How it effectively meets the purpose of the scope of work (as described in Section 1 of this RFP).
3. Price & Payment Terms – As demonstrated in the completion of the Compensation Budget (Microsoft Excel Workbook).
4. Exceptions Taken to RFP – As demonstrated in the completion of Appendix A4 – Additions, Deletions and/or Exceptions.

SECTION 13 - EVALUATION AND SELECTION PROCESS

1. Submittal Review: SAWPA and the review committee composed of some Task Force members will review and evaluate each submittal to determine if it meets the requirements for the service defined herein. Failure to meet the requirements will be cause for eliminating the applicant from further consideration.
2. Optional interviews at SAWPA's discretion with SAWPA staff and the review committee composed of some Task Force members.
3. Selection: Based on the evaluation criteria described above, consultants that perform well will be recommended to the SAWPA Commission for a Task Order and GSA.

APPENDIX A1 - PROPOSER'S BUSINESS INFORMATION

All proposers shall submit the information as requested below.

1. Length of time your firm has been in business: _____

2. Length of time at current location: _____

3. List types and business license number(s): _____

4. California State Contractor's License number: _____

5. Names and titles of all officers of the firm: _____

6. Is your firm a sole proprietorship doing business under a different name? YES or
NO

7. If yes, please indicate sole proprietorship name and the name you are doing
business under: _____

8. Please indicate your Federal Tax Number: _____

9. Is your firm incorporated? YES or NO

10. Name and remittance address that will appear on invoices: _____

11. Physical Address: _____

APPENDIX A2 - REFERENCES

Instructions: Proposer shall provide two to three customer references.

REFERENCE #1	
NAME OF ENTITY	
ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT NAME	
TELEPHONE #	()
E-MAIL ADDRESS	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #2	
NAME OF ENTITY	
ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT NAME	
TELEPHONE #	()
E-MAIL ADDRESS	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	
REFERENCE #3	
NAME OF ENTITY	
ADDRESS	
CITY, STATE, ZIP CODE	
CONTACT NAME	
TELEPHONE #	()
E-MAIL ADDRESS	
PROJECT NAME	
COMPLETION DATE	
APPROX. COST	

APPENDIX A3 – SUBCONTRACTORS LIST

NAME UNDER WHICH SUBCONTRACT IS LICENSED	LICENSE NUMBER	ADDRESS AND PHONE NUMBER OF OFFICE, MILL OR SHOP	SPECIFIC DESCRIPTION SUBCONTRACT

APPENDIX B: STANDARD CONTRACT DOCUMENTS
Task Order and General Services Agreement (GSA)



SANTA ANA WATERSHED PROJECT AUTHORITY
GENERAL SERVICES AGREEMENT FOR SERVICES BY INDEPENDENT CONSULTANT

This Agreement is made this ___ day of _____, 20__ by and between the Santa Ana Watershed Project Authority ("SAWPA") located at 11615 Sterling Ave., Riverside, California, 92503 and _____ ("Consultant") whose address is _____.

RECITALS

This Agreement is entered into on the basis of the following facts, understandings, and intentions of the parties to this Agreement:

- SAWPA desires to engage the professional services of Consultant to perform such professional consulting services as may be assigned, from time to time, by SAWPA in writing;
- Consultant agrees to provide such services pursuant to, and in accordance with, the terms and conditions of this Agreement and has represented and warrants to SAWPA that Consultant possesses the necessary skills, qualifications, personnel, and equipment to provide such services; and
- The services to be performed by Consultant shall be specifically described in one or more written Task Orders issued by SAWPA to Consultant pursuant to this Agreement.

AGREEMENT

Now, therefore, in consideration of the foregoing Recitals and mutual covenants contained herein, SAWPA and Consultant agree to the following:

ARTICLE I

TERM OF AGREEMENT

1.01 This agreement shall become effective on the date first above written and shall continue until **December 31, 20__**, unless extended or sooner terminated as provided for herein.

ARTICLE II

SERVICES TO BE PERFORMED

2.01 Consultant agrees to provide such professional consulting services as may be assigned, from time to time, in writing by the Commission and the General Manager of SAWPA. Each assignment shall be made in the form of a written Task Order. Each such Task Order shall include, but shall not be limited to, a description of the nature and scope of the services to be performed by Consultant, the amount of compensation to be paid, and the expected time of completion.

2.02 Consultant may at Consultant's sole cost and expense, employ such competent and qualified independent professional associates, subcontractors, and consultants as Consultant deems necessary to perform each assignment; provided that Consultant shall not subcontract any work to be performed without the prior written consent of SAWPA.

ARTICLE III

COMPENSATION

3.01 In consideration for the services to be performed by Consultant, SAWPA agrees to pay Consultant as provided for in each Task Order.

3.02 Each Task Order shall specify a total not-to-exceed sum of money and shall be based upon the regular hourly rates customarily charged by Consultant to its clients.

3.03 Consultant shall not be compensated for any services rendered nor reimbursed for any expenses incurred in excess of those authorized in any Task Order unless approved in advance by the Commission and General Manager of SAWPA, in writing.

3.04 Unless otherwise provided for in any Task Order issued pursuant to this Agreement, payment of compensation earned shall be made in monthly installments after receipt from Consultant of a timely, detailed, corrected, written invoice by SAWPA's Project Manager, describing, without limitation, the services performed, when such services were performed, the time spent performing such services, the hourly rate charged therefore, and the identity of individuals performing such services for the benefit of SAWPA. Such invoices shall also include a detailed itemization of expenses incurred. Upon approval by an authorized SAWPA employee, SAWPA will pay within 30 days after receipt of a valid invoice from Consultant.

ARTICLE IV

CONSULTANT OBLIGATIONS

4.01 Consultant agrees to perform all assigned services in accordance with the terms and conditions of this Agreement including those specified in each Task Order. In performing the services required by this Agreement and any related Task Order Consultant shall comply with all local, state and federal laws, rules and regulations. Consultant shall also obtain and pay for any permits required for the services it performs under this Agreement and any related Task Order.

4.02 Except as otherwise provided for in each Task Order, Consultant will supply all personnel and equipment required to perform the assigned services.

4.03 Consultant shall be solely responsible for the health and safety of its employees, agents and subcontractors in performing the services assigned by SAWPA.

4.04 Insurance Coverage: Consultant shall procure and maintain for the duration of this Agreement insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, its agents, representatives, employees or sub-contractors.

4.04(a) Coverage - Coverage shall be at least as broad as the following:

- 1. Commercial General Liability (CGL)** - Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01) including products and completed operations, property damage, bodily injury, personal and advertising injury with limit of at least two million dollars (\$2,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (coverage as broad as the ISO CG 25 03, or ISO CG 25 04 endorsement provided to SAWPA) or the general aggregate limit shall be twice the required occurrence limit.
- 2. Automobile Liability** – (if necessary) Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01), covering Symbol 1 (any auto) or if Consultant has no owned autos, Symbol 8 (hired) and 9 (non-owned) with limit of one million dollars (\$1,000,000) for bodily injury and property damage each accident.
- 3. Workers' Compensation Insurance** - as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
- 4. Professional Liability** - (Also known as Errors & Omission) Insurance appropriate to the Consultant profession, with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.
- 5. Cyber Liability Insurance (Technology Professional Liability – Errors and Omissions)** – If Consultant will be providing technology services, limits not less than \$2,000,000 per occurrence or claim, and \$2,000,000 aggregate or the full per occurrence limits of the policies available, whichever is greater. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by Consultant in this Agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress,

invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, SAWPA requires and shall be entitled to the broader coverage and/or higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to SAWPA.

4.04(b) If Claims Made Policies:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work.**
3. If coverage is canceled or non-renewed, and not **replaced with another claims-made policy form with a Retroactive Date** prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of **five (5) years** after completion of contract work.

4.04(c) Waiver of Subrogation: The insurer(s) named above agree to waive all rights of subrogation against SAWPA, its elected or appointed officers, officials, agents, authorized volunteers and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Agency; but this provision applies regardless of whether or not SAWPA has received a waiver of subrogation from the insurer.

4.04(d) Other Required Provisions - The general liability policy must contain, or be endorsed to contain, the following provisions:

1. **Additional Insured Status:** SAWPA, its directors, officers, employees, and authorized volunteers are to be given insured status (at least as broad as ISO Form CG 20 10 10 01), with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations.
2. **Primary Coverage:** For any claims related to this project, the Consultant's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to SAWPA, its directors, officers, employees and authorized volunteers. Any insurance or self-insurance maintained by the Member Water Agency its directors, officers, employees and authorized volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

4.04(e) Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to SAWPA.

4.04(f) Self-Insured Retentions - Self-insured retentions must be declared to and approved by SAWPA. SAWPA may require the Consultant to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or SAWPA.

4.04(g) Acceptability of Insurers - Insurance is to be placed with insurers having a current A.M. Best rating of no less than A: VII or as otherwise approved by SAWPA.

4.04(h) Verification of Coverage – Consultant shall furnish SAWPA with certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by SAWPA before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. SAWPA reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages.

4.04(i) Subcontractors - Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that SAWPA, its directors, officers, employees and authorized volunteers are additional insureds on Commercial General Liability Coverage.

4.05 Consultant hereby covenants and agrees that SAWPA, its officers, employees, and agents shall not be liable for any claims, liabilities, penalties, fines or any damage to property, whether real or personal, nor for any personal injury or death caused by, or resulting from, or claimed to have been caused by or resulting from, any negligence, recklessness, or willful misconduct of Consultant. To the extent permitted by law, Consultant shall hold harmless, defend at its own expense, and indemnify SAWPA, its directors, officers, employees, and authorized volunteers, against any and all liability, claims, losses, damages, or expenses, including reasonable attorney's fees and costs, arising from all acts or omissions of Consultant or its officers, agents, or employees in rendering services under this Agreement and any Task Order issued hereunder; excluding, however, such liability, claims, losses, damages or expenses arising from SAWPA's sole negligence or willful acts.

4.06 In the event that SAWPA requests that specific employees or agents of Consultant supervise or otherwise perform the services specified in each Task Order, Consultant shall ensure that such individual(s) shall be appointed and assigned the responsibility of performing the services.

4.07 In the event Consultant is required to prepare plans, drawings, specifications and/or estimates, the same shall be furnished with a registered professional engineer's number and shall conform to local, state and federal laws, rules and regulations. Consultant shall obtain all necessary permits and approvals in connection with this Agreement, any Task Order or Change Order. However, in the event SAWPA is required to obtain such an approval or permit from another governmental entity, Consultant shall provide all necessary supporting documents to be filed with such entity, and shall facilitate the acquisition of such approval or permit.

4.08 Consultant shall comply with all local, state and federal laws, rules and regulations including those regarding nondiscrimination and the payment of prevailing wages, if required by law.

ARTICLE V

SAWPA OBLIGATIONS

5.01 SAWPA shall:

5.01a Furnish all existing studies, reports and other available data pertinent to each Task Order that are in SAWPA's possession;

5.01b Designate a person to act as liaison between Consultant and the General Manager and Commission of SAWPA.

ARTICLE VI

ADDITIONAL SERVICES, CHANGES AND DELETIONS

6.01 During the term of this Agreement, the Commission of SAWPA may, from time to time and without affecting the validity of this Agreement or any Task Order issued pursuant thereto, order changes, deletions, and additional services by the issuance of written Change Orders authorized and approved by the Commission of SAWPA.

6.02 In the event Consultant performs additional or different services than those described in any Task Order or authorized Change Order without the prior written approval of the Commission of SAWPA, Consultant shall not be compensated for such services.

6.03 Consultant shall promptly advise SAWPA as soon as reasonably practicable upon gaining knowledge of a condition, event, or accumulation of events, which may affect the scope and/or cost of services to be provided pursuant to this Agreement. All proposed changes, modifications, deletions, and/or requests for additional services shall be reduced to writing for review and approval or rejection by the Commission of SAWPA.

6.04 In the event that SAWPA orders services deleted or reduced, compensation shall be deleted or reduced by a comparable amount as determined by SAWPA and Consultant shall only be compensated for services actually performed. In the event additional services are properly authorized, payment for the same shall be made as provided in Article III above.

ARTICLE VII

CONSTRUCTION PROJECTS: CONSULTANT CHANGE ORDERS

7.01 In the event SAWPA authorizes Consultant to perform construction management services for SAWPA, Consultant may determine, in the course of providing such services, that a Change Order should be issued to the construction contractor, or Consultant may receive a request for a Change Order from the construction contractor. Consultant shall, upon receipt of any requested Change Order or upon gaining knowledge of any condition, event, or accumulation of events, which may necessitate issuing a Change Order to the construction contractor, promptly consult with the liaison, General Manager and Commission of SAWPA. No Change Order shall be issued or executed without the prior approval of the Commission of SAWPA.

ARTICLE VIII

TERMINATION OF AGREEMENT

8.01 In the event the time specified for completion of an assigned task in a Task Order exceeds the term of this Agreement, the term of this Agreement shall be automatically extended for such additional time as is necessary to complete such Task Order and thereupon this Agreement shall automatically terminate without further notice.

8.02 Notwithstanding any other provision of this Agreement, SAWPA, at its sole option, may terminate this Agreement at any time by giving 10 day written notice to Consultant, whether or not a Task Order has been issued to Consultant.

8.03 In the event of termination, the payment of monies due Consultant for work performed prior to the effective date of such termination shall be paid after receipt of an invoice as provided in this Agreement.

ARTICLE IX

CONSULTANT STATUS

9.01 Consultant shall perform the services assigned by SAWPA in Consultant's own way as an independent contractor, in pursuit of Consultant's independent calling and not as an employee of SAWPA. Consultant shall be under the control of SAWPA only as to the result to be accomplished and the personnel assigned to perform services. However, Consultant shall regularly confer with SAWPA's liaison, General Manager, and Commission as provided for in this Agreement.

9.02 Consultant hereby specifically represents and warrants to SAWPA that the services to be rendered pursuant to this Agreement shall be performed in accordance with the standards customarily applicable to an experienced and competent professional consulting organization rendering the same or similar services. Furthermore, Consultant represents and warrants that the individual signing this Agreement on behalf of Consultant has the full authority to bind Consultant to this Agreement.

ARTICLE X

AUDIT AND OWNERSHIP OF DOCUMENTS

10.01 All draft and final reports, plans, drawings, specifications, data, notes, and all other documents of any kind or nature prepared or developed by Consultant in connection with the performance of services assigned to it by SAWPA are the sole property of SAWPA, and Consultant shall promptly deliver all such materials to SAWPA. Consultant may retain copies of the original documents, at its option and expense. Use of such documents by SAWPA for project(s) not the subject of this Agreement shall be at SAWPA's sole risk without legal liability or exposure to Consultant. SAWPA agrees to not release any software "code" without prior written approval from the Consultant.

10.02 Consultant shall retain and maintain, for a period not less than four years following termination of this Agreement, all time records, accounting records, and vouchers and all other records with respect to all matters concerning services performed, compensation paid and expenses reimbursed. At any time during normal business hours and as often as SAWPA may deem necessary, Consultant shall make available to SAWPA's agents for examination of all such records and will permit SAWPA's agents to audit, examine and reproduce such records.

ARTICLE XI

MISCELLANEOUS PROVISIONS

11.01 This Agreement supersedes any and all previous agreements, either oral or written, between the parties hereto with respect to the rendering of services by Consultant for SAWPA and contains all of the covenants and agreements between the parties with respect to the rendering of such services in any manner whatsoever. Any modification of this Agreement will be effective only if it is in writing signed by both parties.

11.02 Consultant shall not assign or otherwise transfer any rights or interest in this Agreement without the prior written consent of SAWPA. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

11.03 In the event Consultant is an individual person and dies prior to completion of this Agreement or any Task Order issued hereunder, any monies earned that may be due Consultant from SAWPA as of the date of death will be paid to Consultant's estate.

11.04 Time is of the essence in the performance of services required hereunder. Extensions of time within which to perform services may be granted by SAWPA if requested by Consultant and agreed to in writing by SAWPA. All such requests must be documented and substantiated and will only be granted as the result of unforeseeable and unavoidable delays not caused by the lack of foresight on the part of Consultant.

11.05 SAWPA expects that Consultant will devote its full energies, interest, abilities and productive time to the performance of its duties and obligations under this Agreement, and shall not engage in any other consulting activity that would interfere with the performance of Consultant's duties under this Agreement or create any conflicts of interest. If required by law, Consultant shall file a Conflict of Interest Statement with SAWPA.

11.06 Any dispute which may arise by and between SAWPA and the Consultant, including the Consultants, its employees, agents and subcontractors, shall be submitted to binding arbitration. Arbitration shall be conducted by a neutral, impartial arbitration service that the parties mutually agree upon, in accordance with its rules and procedures. The arbitrator must decide each and every dispute in accordance with the laws of the State of California, and all other applicable laws. Unless the parties stipulate to the contrary prior to the appointment of the arbitrator, all disputes shall first be submitted to non-binding mediation conducted by a neutral, impartial mediation service that the parties mutually agree upon, in accordance with its rules and procedures.

11.07 During the performance of the Agreement, Consultant and its subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status and denial of family care leave. Consultant and its subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and its subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Government Code, Section 12290 et seq.) and the applicable regulations promulgated there under (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Consultant and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. Consultant shall include the



SANTA ANA WATERSHED PROJECT AUTHORITY
TASK ORDER NO. _____

CONSULTANT:

VENDOR NO.

VALUE:

PAYMENT: Upon Proper Invoice

REQUESTED BY: _____ (date)

FINANCE: _____
Karen Williams, CFO Date

FINANCING SOURCE: Acct. Coding XX
Acct. Description: General Consulting

COMMISSION AUTHORIZATION REQUIRED: YES () NO ()
Commission Memo # _____.

This Task Order is issued by the Santa Ana Watershed Project Authority (hereafter "SAWPA") to _____ (hereafter "Consultant") pursuant to the Agreement between SAWPA and Consultant entitled *Agreement for Services*, dated _____ (expires _____).

I. PROJECT NAME OR DESCRIPTION

II. SCOPE OF WORK / TASKS TO BE PERFORMED

Consultant shall provide all labor, materials and equipment for the Project to perform the specific tasks of _____, and as more thoroughly described in Attachment A (Scope of Work).

III. PERFORMANCE TIME FRAME

Consultant shall begin work within five days of the date this Task Order is signed by the Authorized Officer and shall complete performance of such services by or before _____, 20__.

IV. SAWPA LIAISON

_____ shall serve as liaison between SAWPA and Consultant.

V. COMPENSATION

For all services rendered by Consultant pursuant to this Task Order, Consultant shall receive a total not-to-exceed sum of \$ _____ in accordance with the schedule of rates. Payment for such services shall be made within 30 days upon receipt of timely and proper invoices from Consultant, as required by the above-mentioned Agreement. Each such invoice shall be provided to SAWPA by Consultant within 15 days after the end of the month in which the services were performed.

VI. CONTRACT DOCUMENTS PRECEDENCE

In the event of a conflict in terms between and among the contract documents herein, the document item highest in precedence shall control. The precedence shall be:

- a. The Agreement for Services by Independent Consultant/Contractor.
- b. The Task Order or Orders issued pursuant to the Agreement, in numerical order.
- c. Exhibits attached to each Task Order, which may describe, among other things, the Scope of Work and compensation therefore.
- d. Specifications incorporated by reference.
- e. Drawings incorporated by reference.

In witness whereof, the parties have executed this Task Order on the date indicated below.

SANTA ANA WATERSHED PROJECT AUTHORITY

Jeff Mosher, General Manager Date

(CONSULTANT NAME)

(Signature) Date

Print /Type Name

APPENDIX C: FEBRUARY 2015 REACH 3 ANALYSIS

Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River



February 11, 2015

Santa Ana Watershed Project Authority
Attn: Mark Norton, Water Resources & Planning Manager
11615 Sterling Avenue
Riverside, CA 92503

Subject: *Investigation and Characterization of the Cause(s) of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River*

Dear Mr. Norton:

Pursuant to the Basin Monitoring Program Task Force's (Task Force) request, Wildermuth Environmental Inc. (WEI) prepared this investigation and characterization of the cause(s) of recent exceedances of the total dissolved solids (TDS) objective for Reach 3 of the Santa Ana River (SAR). The investigation background, methodology, results, and conclusions are provided below.

Background

Figure 1 shows the SAR, its regulatory reaches, and the groundwater management zones (GMZs) as defined in the Water Quality Control Plan for the Santa Ana River Basin¹ (Basin Plan). The Basin Plan contains TDS concentration objectives for the SAR and the GMZs, and a plan to manage TDS concentrations pursuant to those objectives.

Reach 3 of the SAR runs from Mission Blvd in Riverside to Prado Dam. There are three primary components of stream discharge in Reach 3: storm discharge, non-tributary discharge, and base flow discharge. Storm discharge is rainfall runoff. Non-tributary discharge typically originates from outside the watershed, such as imported water, or is an episodic transfer of water within the watershed. Base flow discharge is the remainder and mainly includes tertiary-treated wastewater discharge from POTWs (Publicly-Owned Treatment Works), rising groundwater, and dry-weather runoff.

The Basin Plan contains a TDS concentration objective of 700 milligrams per liter (mg/L) for base flow discharge of the SAR at the USGS gaging station below Prado Dam (SAR below Prado Dam)—the so-called Reach 3 TDS concentration objective. The purpose of the Reach 3 TDS concentration objective is to protect the beneficial uses of the SAR in the Orange County GMZ—the primary use being groundwater recharge.

¹ California Regional Water Quality Control Board, Santa Ana Region. (2011). *Water Quality Control Plan, Santa Ana River Basin (8)*. January 24, 1995 (Updated February 2008 and June 2011).

To measure compliance with the Reach 3 TDS concentration objective, the Regional Board coordinates a program to measure TDS concentrations in SAR grab samples collected at the SAR below Prado Dam during the summertime (August and September) when the influences of storm discharge are typically at a minimum. The Regional Board uses data from this and other monitoring programs to evaluate the efficacy of its current regulatory approach, including the wasteload allocation.

Figure 2 shows the discharge and TDS concentrations of the SAR below Prado Dam during June-September for 2004-2012. The data shown on this figure are representative of base flow and were used in the analysis for this study. The figure demonstrates that average summertime discharge rates decreased from about 168 cubic feet per second (cfs) in 2004 to about 85 cfs in 2012. Over the same time period, the average summertime TDS concentration increased from about 622 mg/L to about 699 mg/L, and in some instances since 2010, the TDS concentration of individual grab samples exceeded the Reach 3 objective of 700 mg/L. The most recent wasteload allocation investigation, based on projected POTW discharges to the SAR and its tributaries, did not predict the TDS concentration exceedances.² However, when the Wasteload Allocation Model was run using actual POTW discharges and precipitation, it was determined that the TDS concentration of the SAR below Prado Dam was exceeding the Reach 3 TDS concentration objective.³ For these reasons, the Task Force requested this investigation of the cause(s) of the recent exceedances of the Reach 3 TDS concentration objective.

Methodology

This investigation employed an analysis of mass-balance in Reach 3 of the SAR during the summertime months of 2004-2012. To compute the mass-balance, we compiled a dataset of discharge rates and associated TDS concentrations for the major inflow and outflow terms for Reach 3. The data sources are provided below:

- For the period of 2004-2012, the Chino Basin Watermaster (CBWM) and the Inland Empire Utilities Agency (IEUA) conducted a surface-water monitoring program as part of the Hydraulic Control Monitoring Program (HCMP).⁴ The HCMP included bi-weekly discharge and/or TDS concentration measurements at monitoring sites along all major tributaries to Reach 3 and at the USGS gaging stations on Cucamonga Creek, Temescal Creek, the SAR at MWD Crossing, and the SAR below Prado Dam.
- POTW discharges are major components of inflow to Reach 3. POTW discharge rates and TDS concentrations are measured by the POTWs and reported to the Regional Board. The HCMP also included bi-weekly sampling at some POTW discharge outfalls for TDS concentrations.
- There are other inflows to and outflows from Reach 3 that are not measured, including rising groundwater, streambed recharge, evapotranspiration, dry-weather runoff, and other unknown

² Wildermuth Environmental, Inc. (2010). *Addendum to the 2008 Santa Ana River Wasteload Allocation Model Report: Scenario 7*. Prepared for the Basin Monitoring Program Task Force. July 2010.

³ Wildermuth Environmental, Inc. (2012). *Letter report documenting the application of the Wasteload Allocation Model to characterize the TDS impact on the Santa Ana River from Elsinore Valley Municipal Water District recycled water discharge with TDS concentrations in excess of that allowed in its discharge permit*. Prepared for Elsinore Valley Municipal Water District. July 2012.

⁴ Wildermuth Environmental, Inc. (2004). *Final Hydraulic Control Monitoring Program Work Plan for the Optimum Basin Management Program*. Prepared for the Chino Basin Watermaster and the Inland Empire Utilities Agency. May 2004.

discharges. These unknown terms were aggregated in a residual term (Residual) and estimated from the mass-balance equation.

Figure 3 shows the Study Area for this investigation, which includes the locations of all monitoring sites used in the mass-balance analysis. Table 1 provides information about each monitoring site.

The combined datasets from the HCMP, USGS, and POTW monitoring programs were used to calculate the discharge and TDS concentration of the Residual by solving the following mass-balance equations:

$$Q_P = Q_{CC} + Q_{CU} + Q_{HL} + Q_X + Q_{TC} + Q_{RIV} + Q_W + Q_{RP1} + Q_{C1B} + R_Q \quad (1)$$

$$Q_P * C_P = (Q_{CC} * C_{CC}) + (Q_{CU} * C_{MC}) + (Q_{HL} * C_{HL}) + (Q_X * C_X) + (Q_{TC} * C_{TC}) + (Q_{RIV} * C_{RIV}) + (Q_W * C_W) + (Q_{RP1} * C_{RP1}) + (Q_{C1B} * C_{C1B}) + (R_Q * R_C) \quad (2)$$

Where:

Q = discharge (cfs)

C = TDS concentration (mg/L)

R_Q = calculated Residual discharge (cfs)

R_C = calculated TDS concentration of the Residual discharge (mg/L)

And, the subscripts refer to the surface-water monitoring sites and POTW discharge locations:

P = Santa Ana River below Prado Dam (USGS station 11074000)⁵

CC = Chino Creek at Pine Avenue

CU = Cucamonga Creek near Mira Loma (USGS station 11073495)^{5,6}

MC = Mill Creek at Chino-Corona⁶

HL = Hole Lake Outlet Channel

X = Santa Ana River at MWD Crossing (USGS station 11066460)^{5,7}

TC = Temescal Creek above Main Street at Corona (USGS station 11072100)

RIV = Riverside Regional Water Quality Control Plant - DP-001

W = Western Riverside County Regional Wastewater Treatment Plant - DP-001

RP1 = IEUA DP-001 - effluent from Regional Water Recycling Plant No. 1

C1B = Corona Wastewater Treatment Plant No. 1 - DP-001

The mass-balance equations were solved for the Residuals during “sampling events.” A sampling event is defined as a contiguous two- to four-day period during the summertime months (June to September), during which one pair of discharge and TDS concentration measurements were available at every

⁵ The quality of the discharge measurements from all USGS gaging stations used in this report were rated “poor” to “fair” as reported in the USGS Water-Data Reports. At the Santa Ana River at MWD Crossing station, discharge measurements below 100 cfs are typically rated by the USGS as being more accurate than discharge measurements above 100 cfs.

⁶ Discharge data were not collected at the Mill Creek at Chino-Corona site. Flow measurements collected at the upstream USGS gaging station on Cucamonga Creek were considered representative of discharge at the Mill Creek at Chino-Corona site.

⁷ Discharge at this site includes discharge from two upstream POTWs that discharge to Reach 4 of the Santa Ana River: the Colton/San Bernardino Regional Tertiary Treatment Rapid Infiltration and Extraction Facility and the City of Rialto’s Municipal Wastewater Treatment Plant.

monitoring site. To augment the number of sampling events, if paired discharge and TDS concentration measurements were not available for just one or two sites in a potential sampling event, the TDS concentration and/or discharge values were estimated for those sites by linear interpolation of the values measured immediately before and after the sampling event.

The data sets were not complete enough from 2004-2006 to compute the Residual, and the discharge and TDS concentration data collected in 2011 were influenced by imported water discharged at OC-59 for the Orange County Water District, so these years were excluded from the analysis.

For each sampling event, Equations (1) and (2) were solved to compute the Residual discharge and TDS concentrations. The mass-balance results for all sampling events are shown in Table 2.

Figures 4 through 13 are discharge and TDS concentration time-series charts for all sampling events at each monitoring site (including the computed Residual) for the period 2007-2012. Discharge and TDS concentration data for 2004 were included on the charts as the initial condition.

To identify the inflow terms that were most responsible for the recent TDS concentration increases at the SAR below Prado Dam, the following analyses were performed:

- *Visual inspection of Figures 4 through 13.* Each time-series chart was inspected to identify inflow terms with (i) relatively high discharge rates, (ii) TDS concentrations that differed significantly from those at the SAR below Prado Dam, and/or (iii) discharges or TDS concentrations that changed substantially between 2004 and 2012. An inflow term with one or more of these characteristics could have a significant influence on the TDS concentration of the SAR below Prado Dam.
- *Sensitivity analysis.* Based on the visual inspection, a sensitivity analysis was performed on each inflow term deemed to have a potentially significant influence on the TDS concentration of the SAR below Prado Dam. These sensitivity analyses were performed by resetting the discharge and/or TDS concentration values of the selected inflow terms in the mass-balance equations to 2004 values for all sampling events and recalculating the TDS concentration of the SAR below Prado Dam. Time-series charts were prepared to compare the measured TDS concentrations of the SAR below Prado Dam versus the recalculated values.

Results and Conclusions

Visual inspection of the discharge and TDS concentration time-series charts of all inflow terms indicated that the following inflow terms had the greatest influence on the recently observed decrease in discharge and increase in TDS concentration of the SAR below Prado Dam:

1. Chino Creek at Pine Avenue (Figure 6). Between 2007 and 2012, the average June-September discharge rate of Chino Creek decreased from 23 cfs to 10 cfs while the average June-September TDS concentration increased from 497 mg/L to 735 mg/L.
2. Cucamonga Creek (Figure 8). Between 2004 and 2012, the average June-September discharge rate of Cucamonga Creek decreased from 52 cfs to 9 cfs while the average June-September TDS concentration varied within a range of about 445 to 480 mg/L—much lower than the measured TDS concentrations of the SAR below Prado Dam.

3. IEUA DP-001 (RP-1 Prado Lake) (Figure 11). Between 2004 and 2012, the average June-September discharge rate decreased from 10 cfs to 3 cfs. The average June-September TDS concentration increased slightly from 490 mg/L to 523 mg/L but still remained much lower than the measured TDS concentrations of the SAR below Prado Dam.

The measured decreases in discharge between 2004 and 2012 on Chino and Cucamonga Creeks were primarily the result of decreases in discharge from the IEUA's upstream recycled-water discharge locations: DP-007 (RP-5) and DP-008 (Carbon Canyon) on Chino Creek and DP-002 (RP-1 Cucamonga) on Cucamonga Creek. Figures 14, 15, and 16 are time-series charts of discharge and TDS concentrations measured at these discharge points, respectively. Figure 11 shows that IEUA's discharge rates also decreased at DP-001 (RP-1 Prado Lake), which is located downstream of the Chino Creek monitoring site. Between 2004 and 2012, the IEUA's total discharge of recycled water during June-September decreased from an average of 71 cfs to 17 cfs while the average TDS concentration remained within a range of 445 to 550 mg/L, well below the TDS concentrations of the SAR below Prado Dam.

A sensitivity analysis was performed for IEUA's total discharge rather than each individual inflow term to estimate the TDS concentration of the SAR below Prado Dam had IEUA discharges not decreased since 2004 due to increased conservation and beneficial reuse in the Chino Basin. This was done by resetting IEUA discharge in the mass-balance equations from all of its four treatment plants to 2004 values for all sampling events and solving for the discharge and TDS concentration of the SAR below Prado Dam. This sensitivity analysis did not include an adjustment to the TDS concentrations of IEUA discharge. The results of the sensitivity analysis are shown in Table 3.

To reset the discharge, the difference between the discharge rate measured during a sampling event and the 2004 monthly average discharge rate was calculated for each of IEUA's four discharge locations and added to mass-balance equation (1) as new discharge terms. These differences in discharge rate are shown in columns 11-14 of Table 3. The differences in discharge were multiplied by the monthly average TDS concentrations measured at each discharge point during the sampling event year,⁸ and added to mass-balance equation (2). These TDS concentrations are shown in columns 27-30 of Table 3. Mass-balance equation (2) was then used to recalculate the TDS concentration of the SAR below Prado Dam had the IEUA's discharge remained at 2004 discharge rates. These recalculated TDS concentrations are shown in column 32 of Table 3.

Figure 17 shows the measured summertime TDS concentrations of the SAR below Prado Dam and a linear trend line that fits these data (blue). The figure also shows the recalculated summertime TDS concentrations of the SAR below Prado Dam with IEUA discharges reset to 2004 values and a linear trend line that fits these data (red). The linear trend line that fits the measured summertime TDS concentrations shows an increasing trend from an average of about 620 mg/L in 2004 to 700 mg/L in 2012. The linear trend line that fits the recalculated summertime TDS concentrations remains horizontal at an average of about 615 mg/L, indicating little change from the 2004 TDS concentrations of the SAR below Prado Dam in this recalculation. This analysis indicates that if IEUA's discharge rates had remained at 2004 discharge rates with concentrations below a 12-month running average of 550 mg/L, the TDS concentration of the SAR below Prado Dam would have remained nearly constant (below 700 mg/L) from 2004 to 2012. In other words, the TDS concentration of the SAR below Prado Dam is being diluted by IEUA discharges.

⁸ For DP-001 (RP-1 Prado Lake), the differences in discharge were multiplied by TDS concentrations measured during each sampling event. These TDS concentrations were used in the original mass-balance equation (2).

In similar sensitivity analyses performed for the other inflow terms, all other terms showed little or no influence on the TDS concentration of the SAR below Prado Dam: discharge rates were relatively low (e.g. Hole Lake Outlet Channel, Temescal Creek above Main Street at Corona), there was little or no change in the discharge rate or TDS concentration (e.g. Corona Wastewater Treatment Plant No. 1, Western Riverside County Regional Wastewater Treatment Plant, the Residual), or the TDS concentrations of the discharge were similar to those of the SAR below Prado Dam (e.g. SAR at MWD Crossing, Riverside Regional Water Quality Control Plant).

This investigation showed that the observed summertime increase in TDS concentration of the SAR below Prado Dam from 2004-2012 was correlated with the decrease in IEUA's discharge of relatively low TDS concentration. In other words, the TDS concentration of the SAR below Prado Dam is being diluted by IEUA discharges. The decrease in IEUA's summertime discharge resulted from increased recycled-water reuse and decreased wastewater influent due to the economic recession that began in 2008 and the implementation of indoor water-conservation measures.

The calculated Residual is reported herein as one factor in the mass-balance analysis, but it likely includes multiple gains and losses of discharge and mass (e.g. rising groundwater, streambed recharge, evapotranspiration, dry-weather runoff, etc.). Some of the discharges in the Residual may have TDS concentrations much higher than 700 mg/L. An investigation of the individual factors that comprise the Residual is necessary to better understand why the recent summertime TDS concentrations of the SAR below Prado Dam are exceeding 700 mg/L.

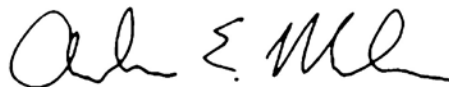
We appreciate the opportunity to serve the Task Force. Please call if you have any questions.

Very truly yours,

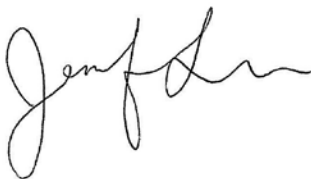
Wildermuth Environmental, Inc.



Mark Wildermuth, PE
President, Principal Engineer



Andy Malone, PG
Principal Geologist



Jennifer Sun
Staff Scientist

Table 1
Surface-Water Monitoring Sites

Site Name	Abbreviated Name	Discharge Type	Discharge			Water Quality		
			Measurement Type	Monitoring Frequency	Monitoring Entity	Sample Type	Monitoring Frequency	Monitoring Entity
Santa Ana River below Prado Dam (USGS station 11074000)	SAR Below Prado Dam	Stream flow	Daily Average	Daily	USGS	Grab	Bi-weekly	CBWM / IEUA
Chino Creek at Pine Avenue	Chino Creek	Stream flow	Instantaneous	Bi-weekly	CBWM / IEUA	Grab	Bi-weekly	CBWM / IEUA
Cucamonga Creek near Mira Loma (USGS station 11073495) ¹	Cucamonga Creek	Stream flow	Daily Average	Daily	USGS	--	--	--
Mill Creek at Chino-Corona ¹	Mill Creek	Stream flow	--	--	--	Grab	Bi-weekly	CBWM / IEUA
Hole Lake Outlet Channel	Hole Lake Outlet Channel	Stream flow	Instantaneous	Bi-weekly	CBWM / IEUA	Grab	Bi-weekly	CBWM / IEUA
Temescal Creek above Main Street at Corona (USGS station 11072100)	Temescal Creek	Stream flow	Daily Average	Daily	USGS	Grab	Bi-weekly	CBWM / IEUA
Santa Ana River at MWD Crossing (USGS station 11066460)	SAR at MWD Xing	Stream flow	Daily Average	Daily	USGS	Grab	Bi-weekly	CBWM / IEUA
Riverside Regional Water Quality Control Plant - DP-001	RWQCP	POTW	Daily Average	Daily	City of Riverside	Grab/24-Hour Composite	Bi-weekly	CBWM / IEUA / Riverside
IEUA DP-001 - effluent from Regional Water Recycling Plant No. 1	RP-1 Prado Lake	POTW	Daily Average	Daily	IEUA	Composite	Bi-weekly	IEUA
Western Riverside County Regional Wastewater Treatment Plant - DP-001	WRCRWTP	POTW	Daily Average	Daily	WRCRWA	Grab/Composite	Bi-weekly	CBWM / IEUA / WRCRWA
Corona Wastewater Treatment Plant No. 1 - DP-001	Corona 1B	POTW	Daily Average	Daily	City of Corona	Grab/Composite	Bi-weekly	CBWM / IEUA / Corona
IEUA DP-002 - effluent from Regional Water Recycling Plants No. 1 and No. 4 ²	RP-1 Cucamonga	POTW	Daily Average	Daily	IEUA	Composite	Bi-weekly	IEUA
IEUA DP-007 - effluent from Regional Water Recycling Plant No. 5 ²	RP-5	POTW	Daily Average	Daily	IEUA	Composite	Bi-weekly	IEUA
IEUA DP-008 - effluent from Carbon Canyon Wastewater Reclamation Facility ²	Carbon Canyon	POTW	Daily Average	Daily	IEUA	Composite	Bi-weekly	IEUA

¹ Discharge data was not collected at the Mill Creek at Chino-Corona site. Discharge measurements collected at an upstream USGS gaging station (Cucamonga Creek near Mira Loma) are assumed to be representative of discharge at Mill Creek at Chino-Corona. Cucamonga Creek is lined with concrete between these two sites.

² These sites were not used as part of the mass-balance equations used to calculate the discharge and TDS concentration of the Residual. Data at these sites were used to assess the influence of IEUA's discharge on the changes in the TDS concentration of the Santa Ana River below Prado Dam.

**Table 2
Mass-Balance Computation of the Discharge and TDS Concentration of the Residual**

Sampling Event	Discharge (cfs) ¹											TDS (mg/L) ¹										
	(1) SAR at MWD Xing ^F	(2) Hole Lake Outlet Channel	(3) Chino Creek ^B	(4) Temescal Creek ^E	(5) Cucamonga Creek ^C	(6) RWQCP ^G	(7) Corona 1B ^J	(8) RP-1 Prado Lake ^H	(9) WRC RWTP ^I	(10) Calculated Residual ²	(11) SAR Below Prado Dam ^A	(12) SAR at MWD Xing ^F	(13) Hole Lake Outlet Channel	(14) Chino Creek ^B	(15) Temescal Creek ^E	(16) Mill Creek ^D	(17) RWQCP ^G	(18) Corona 1B ^J	(19) RP-1 Prado Lake ^H	(20) WRC RWTP ^I	(21) Calculated Residual ²	(22) SAR Below Prado Dam ^A
6/12/2007 - 6/14/2007	69	3.35	23.3	4.2	38	49.32	6.37	7.86	7.30	-38.70	170.00	700	940	578	1070	456	652	830	487	574	657	628
6/26/2007 - 6/28/2007	64	2.23	9.5	4.2	42	45.84	5.09	7.92	7.43	-24.20	164.00	716	1120	598	886	466	636	733	490	558	533	642
7/10/2007 - 7/12/2007	63	1.98	24.13	4.4	27	48.16	6.08	8.12	7.30	-33.17	157.00	700	1010	556	918	416	614	850	492	553	543	634
7/24/2007 - 7/26/2007	60	2.57	27.34	7.3	49	48.34	5.04	10.57	7.69	-70.85	147.00	706	1000	626	700	456	618	840	472	548	551	638
8/6/2007 - 8/9/2007	75	2.4	19.99	5.5	30	49.49	6.13	10.16	7.83	-46.50	160.00	696	990	548	802	440	622	826	460	534	643	612
8/21/2007 - 8/23/2007	67	1.91	21.62	7.5	43	48.22	3.96	7.58	7.36	-62.15	146.00	708	1010	584	798	466	616	884	484	558	619	620
9/4/2007 - 9/6/2007	82	1.68	29.68	5.4	50	51.75	5.12	8.09	8.11	-89.82	152.00	624	952	510	868	406	614	876	462	562	464	630
9/18/2007 - 9/20/2007	74	2.14	30.89	6.5	36	47.00	5.15	8.45	7.56	-61.69	156.00	686	894	528	936	438	624	840	464	546	510	648
6/11/2008 - 6/12/2008	76	2.62	33.55	5.5	30	48.42	2.32	7.60	8.65	-47.66	167.00	502	622	548	764	392	622	706	477	592	212	626
6/25/2008 - 6/26/2008	48	7.2	33.84	8.2	33	47.06	2.10	7.44	8.26	-48.11	147.00	546	536	556	562	392	642	712	483	558	426	584
7/9/2008 - 7/10/2008	52	7.41	30.32	5.9	50	49.09	2.88	8.23	8.52	-73.35	141.00	698	520	360	756	590	672	730	489	542	587	608
7/23/2008 - 7/24/2008	51	2.46	31.61	4.4	31	47.59	5.21	7.60	8.57	-63.44	126.00	672	606	556	734	418	620	550	490	736	557	608
8/6/2008 - 8/7/2008	53	15.6	32.85	4.5	33	45.82	5.11	6.67	8.45	-66.99	138.00	692	484	532	754	420	648	778	488	566	540	612
8/19/2008 - 8/21/2008	57	2.93	44.47	6.8	30	47.23	5.45	6.51	8.14	-78.53	130.00	562	796	560	646	450	628	764	488	564	423	658
9/3/2008 - 9/4/2008	56	7.88	30.75	6.8	25	49.89	4.83	8.38	8.25	-78.78	119.00	692	624	570	722	476	710	746	503	608	600	664
9/16/2008 - 9/18/2008	69	7.21	27.57	2.9	31	49.04	3.26	6.51	9.05	-64.55	141.00	526	820	562	738	586	624	740	516	656	462	642
6/10/2009 - 6/11/2009	59	4.16	30.15	5.6	26	47.12	5.93	7.92	7.56	-49.44	144.00	650	870	550	860	450	690	740	505	550	566	640
6/24/2009 - 6/25/2009	61	4.28	26.29	3.7	20	46.92	3.14	6.67	8.42	-56.42	124.00	670	700	550	990	460	650	740	508	520	575	640
7/8/2009 - 7/9/2009	55	2.28	25.79	6.4	13	44.89	3.03	6.36	7.44	-67.19	97.00	630	840	550	710	510	660	710	506	540	578	640
7/21/2009 - 7/23/2009	47	2.04	18.41	8.4	6.7	46.86	2.57	5.89	8.39	-57.26	89.00	700	820	570	870	490	640	750	504	550	667	640
8/4/2009 - 8/6/2009	47	1.72	20.12	3.1	9.1	44.86	3.33	2.97	8.32	-41.52	99.00	670	940	550	820	500	660	770	478	570	608	650
8/18/2009 - 8/19/2009	47	1.62	26.51	3.7	14	46.62	4.44	5.74	9.95	-51.58	108.00	670	910	540	850	480	610	690	492	570	585	620
9/2/2009	40	1.86	35.43	3.1	6.3	47.48	0.99	5.58	9.73	-69.47	81.00	690	690	600	800	430	600	700	493	560	542	680
9/14/2009 - 9/17/2009	40	1.58	27.42	6.8	21	47.53	4.64	6.71	10.88	-54.57	112.00	680	850	540	800	470	640	740	494	550	614	610
9/29/2009 - 9/30/2009	44	2.05	17.65	4.3	19	47.77	0.00	11.32	9.93	-49.03	107.00	680	810	570	850	520	620	720	498	550	581	630
6/23/2010 - 6/24/2010	55	1.52	19.6	3.9	5.6	44.38	0.88	5.97	6.98	-35.84	108.00	700	900	640	800	520	560	710	481	570	484	680
7/6/2010 - 7/8/2010	54	11.21	27.71	3.2	5.9	45.64	0.17	5.41	8.68	-50.92	111.00	720	740	570	870	520	600	740	492	550	556	680
7/21/2010 - 7/22/2010	63	1.74	23.96	3.8	7.9	47.21	0.00	4.64	8.55	-75.81	85.00	650	730	610	900	490	580	750	472	530	511	700
8/3/2010 - 8/5/2010	52	2.83	13.5	2.6	5.6	44.00	0.14	4.64	8.93	-48.24	86.00	680	770	650	760	480	600	700	502	550	562	670
8/17/2010 - 8/19/2010	50	6.24	7.65	2.7	15	46.89	5.20	4.64	11.21	-53.53	96.00	670	760	660	900	320	620	750	532	560	575	640
9/1/2010 - 9/2/2010	55	8.88	12.78	3.2	12	45.37	5.79	6.19	9.35	-46.56	112.00	680	740	720	690	530	580	740	517	550	575	660
9/15/2010 - 9/16/2010	56	7.08	13.27	2.2	13	44.38	7.26	5.41	8.50	-45.10	112.00	680	760	620	930	470	600	700	504	560	582	650
9/29/2010 - 9/30/2010	56	3.9	15.45	1.8	9.5	48.22	5.23	6.19	8.59	-49.88	105.00	680	800	600	800	480	570	710	508	530	544	650
6/6/2012 - 6/7/2012	40	12.6	1.56	10	3.9	44.38	4.80	1.39	8.57	-40.20	87.00	710	1000	800	900	470	490	720	526	570	507	730
6/20/2012 - 6/21/2012	41	2.76	10.4	2.3	8.5	41.97	4.97	3.25	9.44	-41.58	83.00	630	860	750	920	480	630	730	512	540	463	720
7/3/2012 - 7/6/2012	36	1.74	9.775	2.6	9.1	41.21	4.29	1.69	8.23	-33.63	81.00	710	970	730	820	440	640	760	518	530	459	740
7/18/2012 - 7/19/2012	37	10.56	8.54	2.4	10	41.92	4.59	4.67	8.73	-49.42	79.00	750	630	810	930	390	660	770	524	540	650	680
7/31/2012 - 8/2/2012	38	4.5	9.13	2.1	6.3	42.73	4.24	1.69	8.32	-44.01	73.00	710	930	760	780	430	640	760	508	550	605	710
8/14/2012 - 8/16/2012	35	3.81	9.73	1.9	7.1	41.32	3.25	2.92	8.55	-39.58	74.00	680	950	640	900	530	680	730	500	540	584	710
8/28/2012 - 8/30/2012	44	3.11	10.32	1.2	9.5	43.56	4.53	2.38	8.04	-39.65	87.00	670	930	750	770	450	650	690	509	500	642	650
9/10/2012 - 9/13/2012	75	2.42	10.91	1.8	8.9	45.11	3.45	5.40	8.66	-60.65	101.00	620	860	840	850	450	650	700	542	530	542	690
9/24/2012 - 9/26/2012	61	3.08	15.27	4.4	17	46.77	2.37	15.27	8.82	-62.01	100.00	660	730	640	770	440	620	730	542	530	538	670

¹ Italicized values are not measured data. When no measured data were available within a given sampling event, an estimated value was linearly interpolated between data values measured before and after the sampling event. These estimated values are shown in italics.

² The discharge and TDS concentrations of the Residual were calculated using the data measured at surface water sites shown in this table and the mass balance equations described in the letter report. These equations are shown below using the column numbers corresponding to each term.

$$(11) = (1) + (2) + (3) + (4) + (5) + (6) + (7) + (8) + (9) + (10)$$

$$(11) \times (22) = [(1) \times (12)] + [(2) \times (13)] + [(3) \times (14)] + [(4) \times (15)] + [(5) \times (16)] + [(6) \times (17)] + [(7) \times (18)] + [(8) \times (19)] + [(9) \times (20)] + [(10) \times (21)]$$

³ For monitoring sites with abbreviated names in the table above, full site names are listed below:

A - Santa Ana River below Prado Dam (USGS station 11074000)

B - Chino Creek at Pine Avenue

C - Cucamonga Creek near Mira Loma (USGS station 11073495) - discharge only

D - Mill Creek at Chino-Corona - water quality only

E - Temescal Creek above Main Street at Corona (USGS station 11072100)

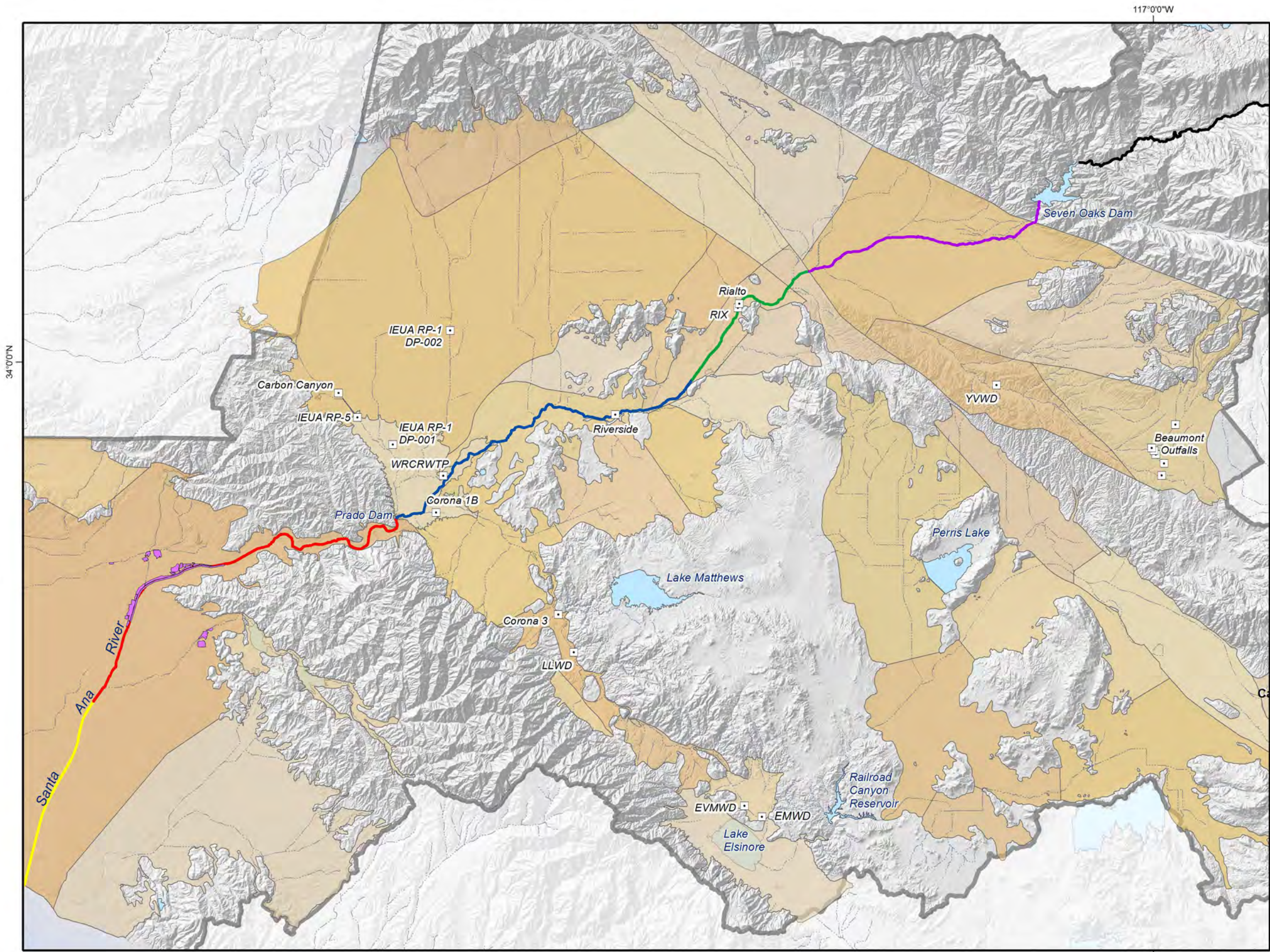
F - Santa Ana River at MWD Crossing (USGS station 11066460) - includes discharge from two upstream POTWs that discharge to Reach 4 of the Santa Ana River: the Colton/San Bernardino Regional Tertiary Treatment Rapid Infiltration and Extraction Facility and the City of Rialto's Municipal Wastewater Treatment Plant

G - Riverside Regional Water Quality Control Plant - DP-001

H - IEUA DP-001 - effluent from Regional Water Recycling Plant No. 1

I - Western Riverside County Regional Wastewater Treatment Plant - DP-001

J - Corona Wastewater Treatment Plant No. 1 - DP-001



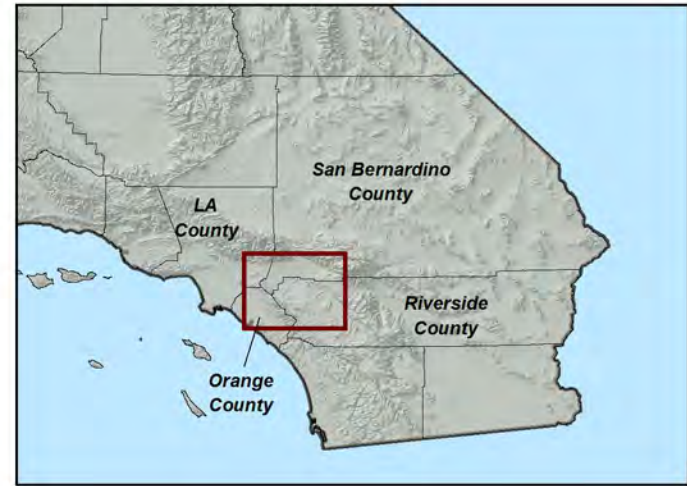
Santa Ana River Reaches

- Reach 1
- Reach 2
- Reach 3
- Reach 4
- Reach 5
- Reach 6

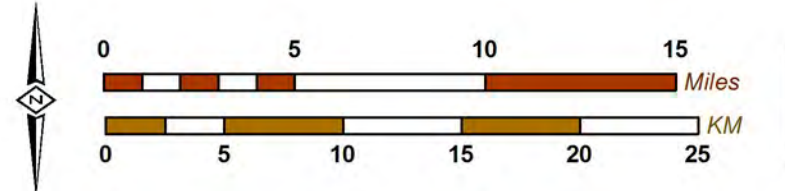
Other Features

- Recycled Water Discharge Location
- Santa Ana Regional Water Quality Control Board Boundary
- Rivers, Creeks, and Flood Control Channels
- OCWD Recharge Facilities
- Lakes & Reservoirs

Text



Author: AEM
Date: 20100719
File: Figure_1.mxd

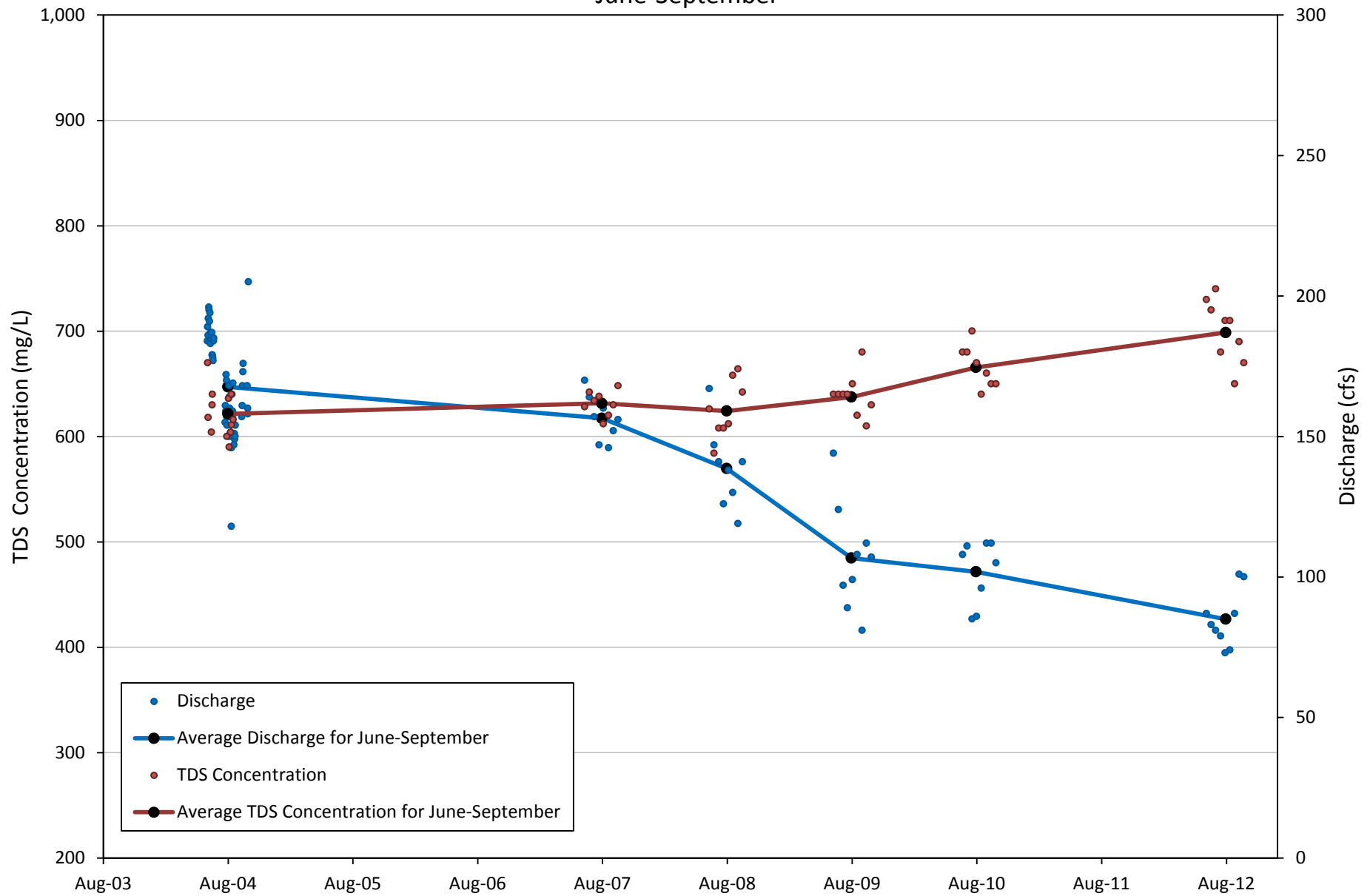


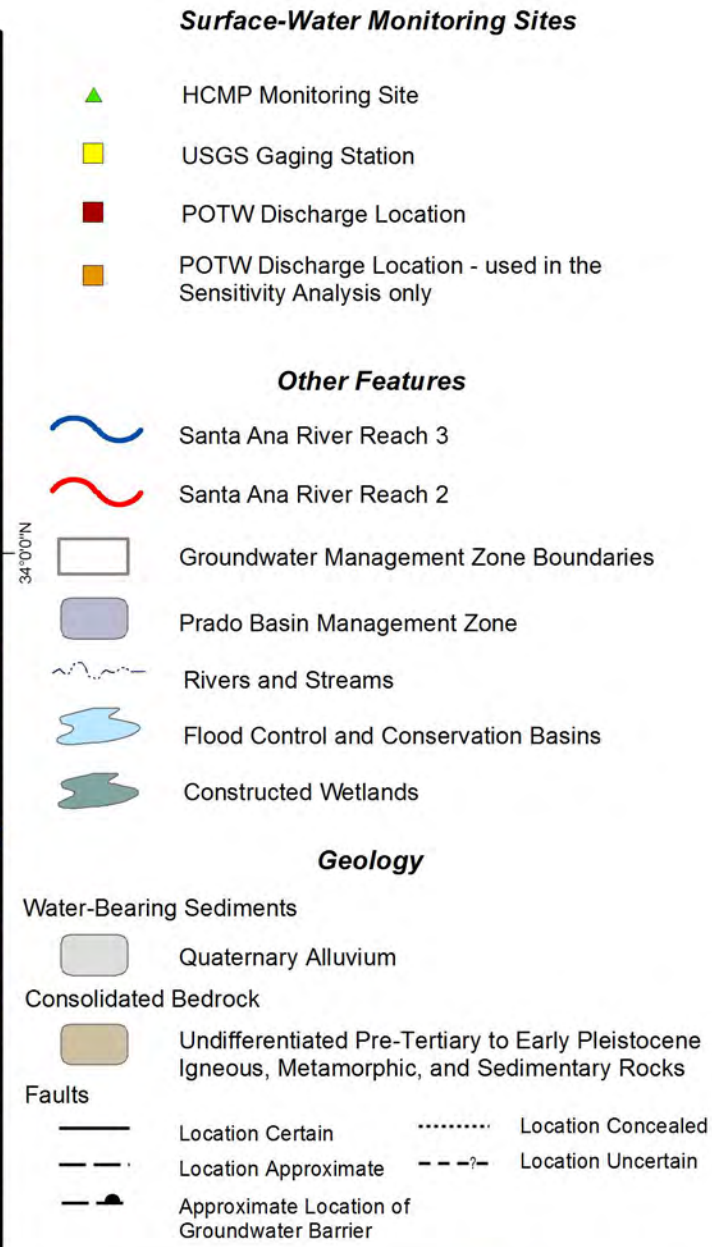
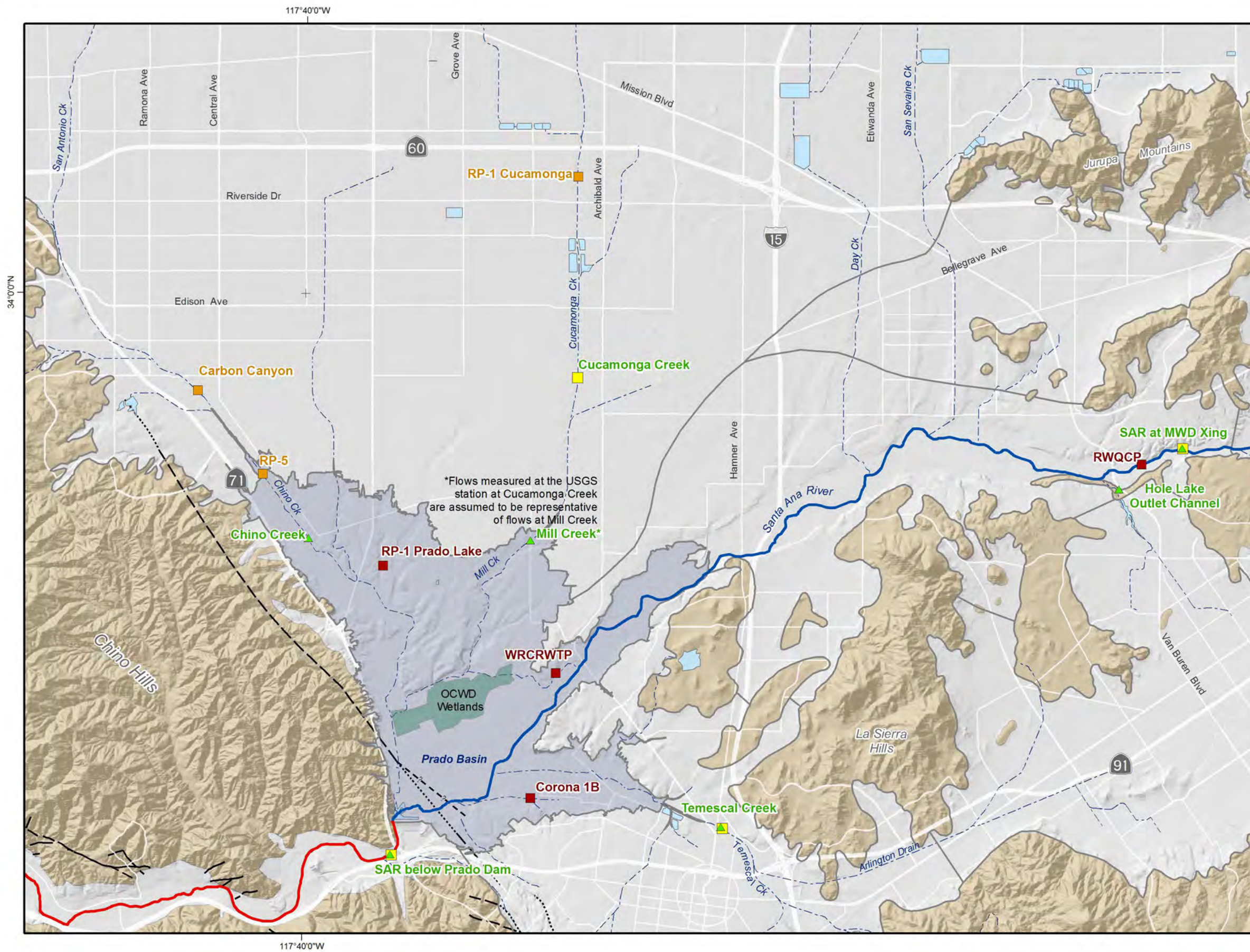
Investigation and Characterization of the Causes of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River



Santa Ana River Reaches and POTW Discharge Locations
Santa Ana River Watershed

Figure 2
Discharge and TDS Concentration of the Santa Ana River below Prado Dam
June-September

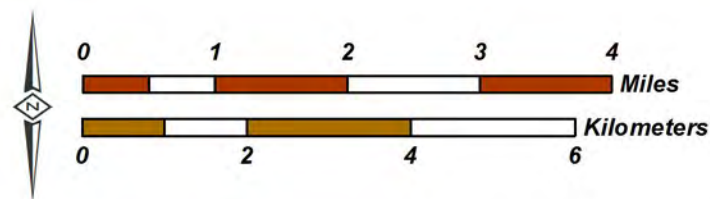




Prepared by:



Author: JMS
Date: 20141203
File: Figure 3.mxd



Investigation and Characterization of the Causes of Recent Exceedances of the TDS Concentration Objective for Reach 3 of the Santa Ana River



Surface-Water Monitoring Sites within the Study Area

Figure 4
 Discharge and TDS Concentration of the Santa Ana River at MWD Crossing
 June-September

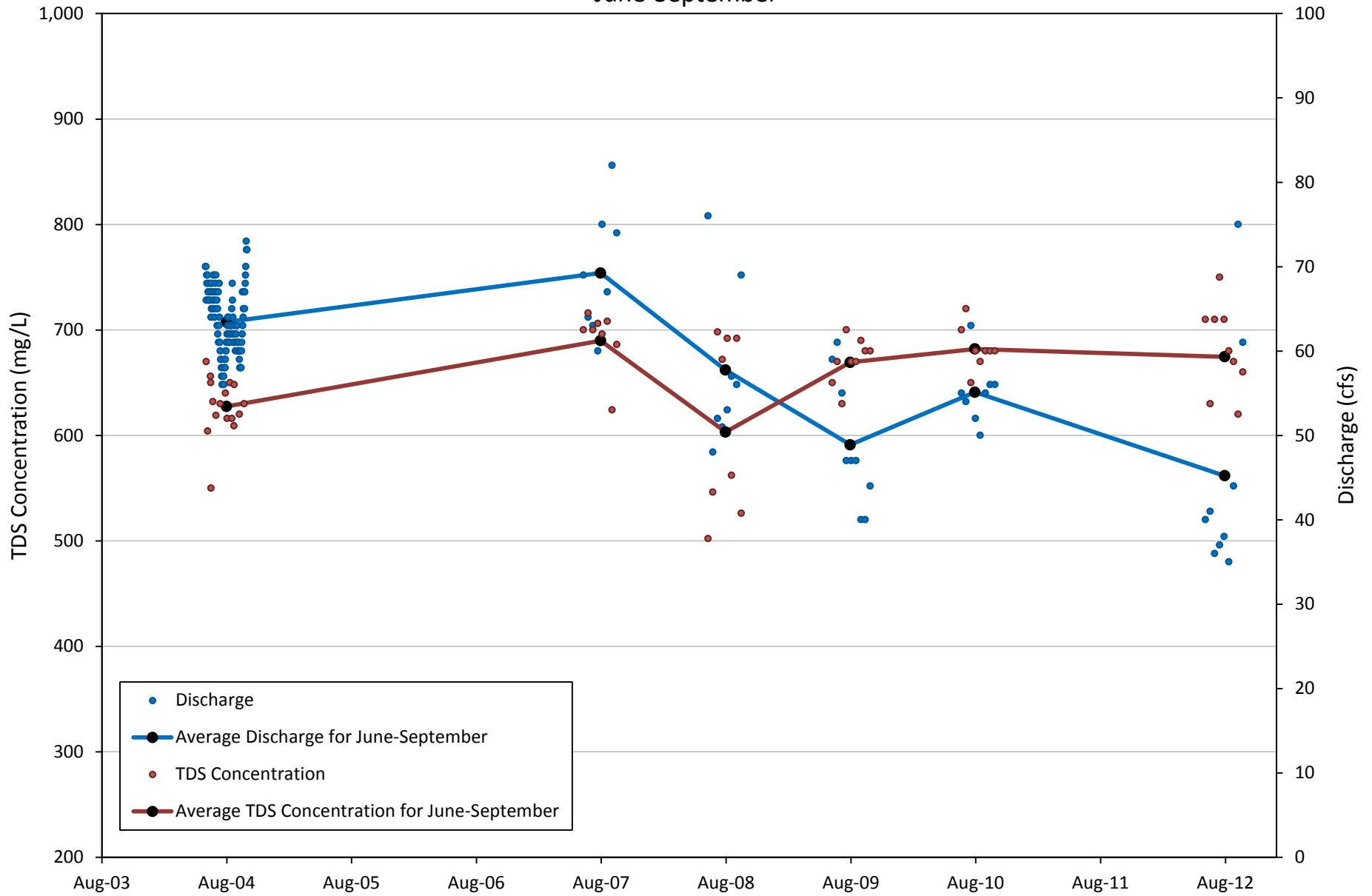


Figure 5
 Discharge and TDS Concentration at the Hole Lake Outlet Channel
 June-September

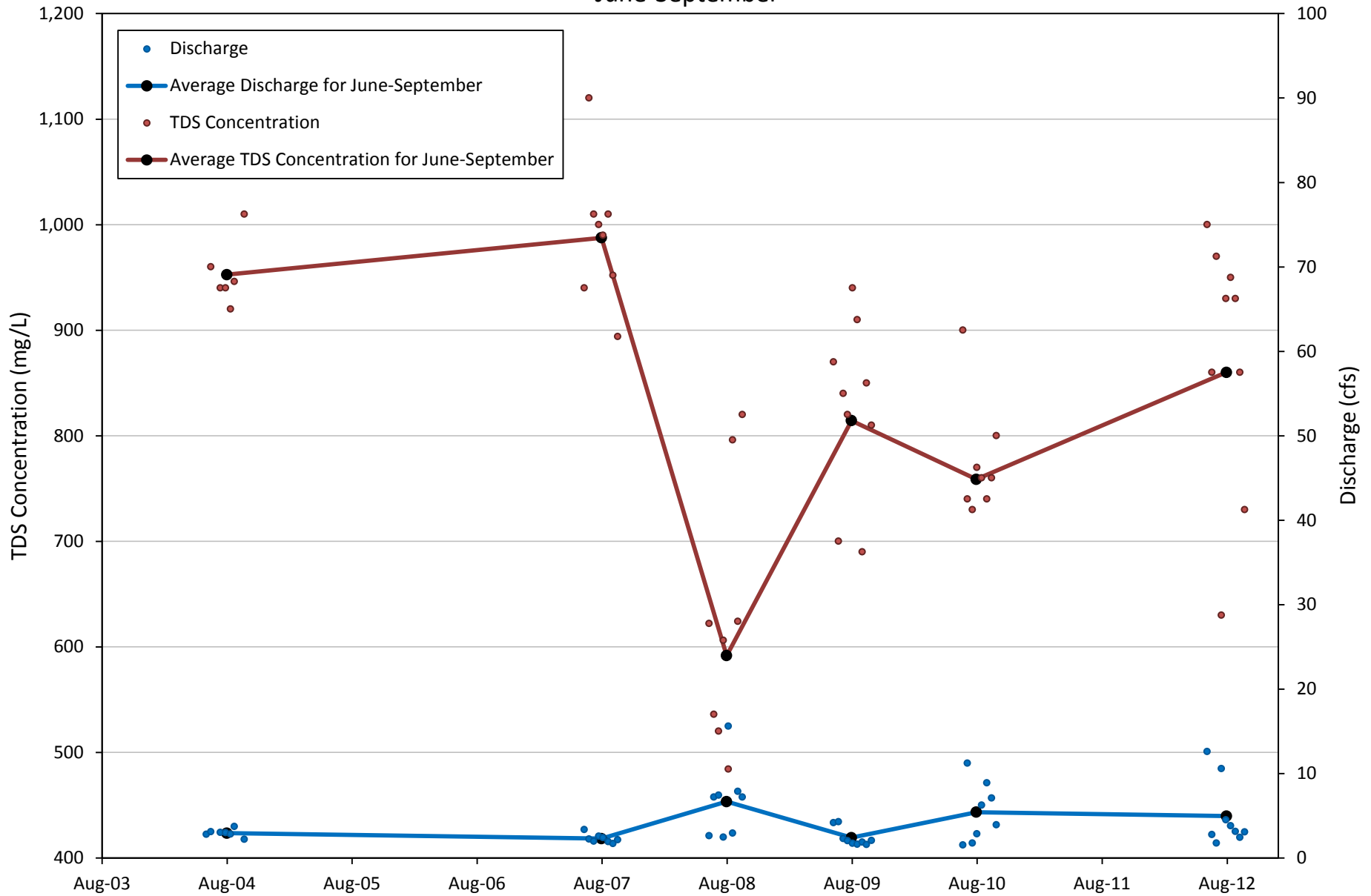


Figure 7
 Discharge and TDS Concentration of Temescal Creek above Main Street at Corona
 June-September

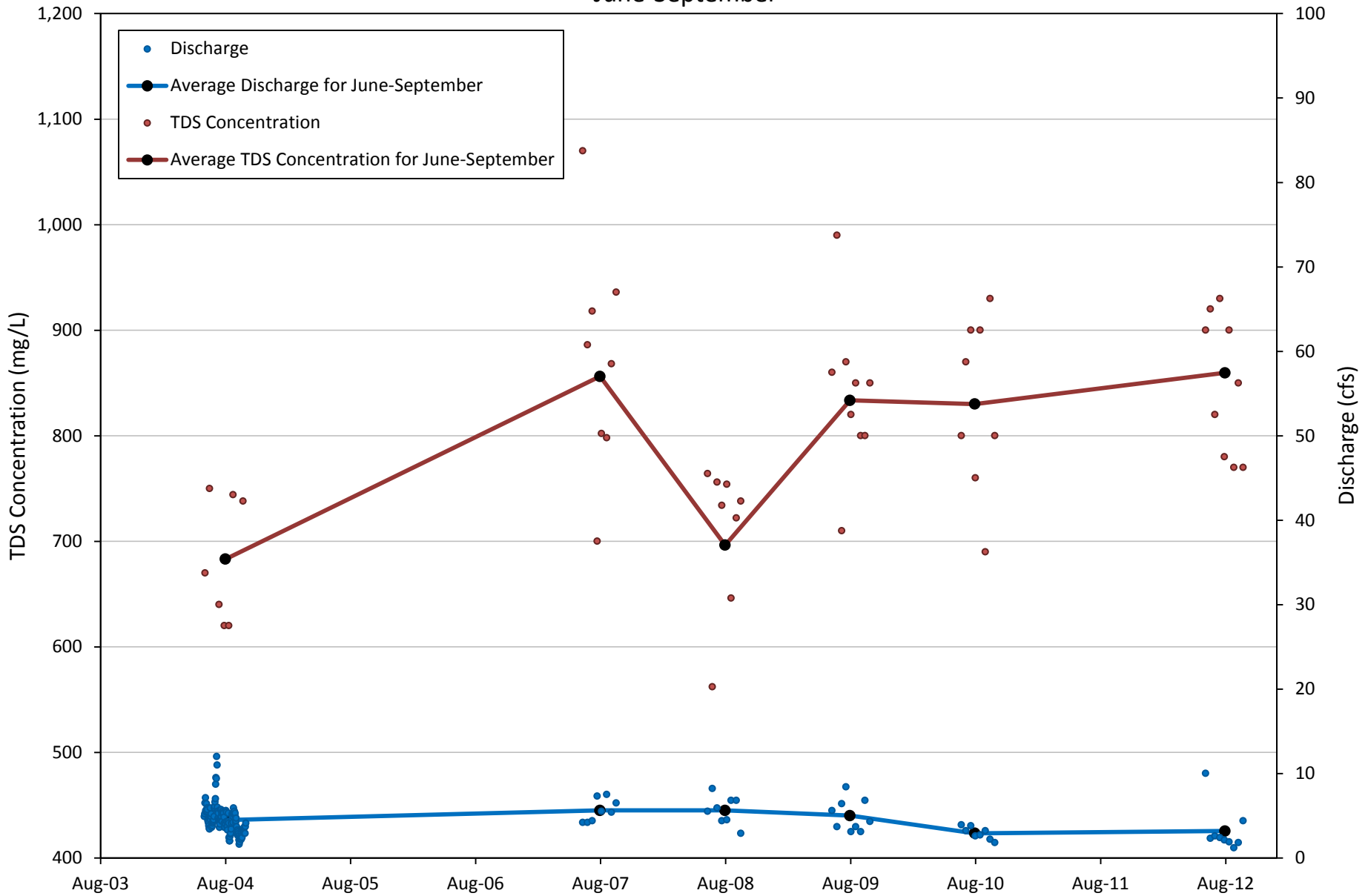


Figure 8
 Discharge and TDS Concentration of Cucamonga Creek
 June-September

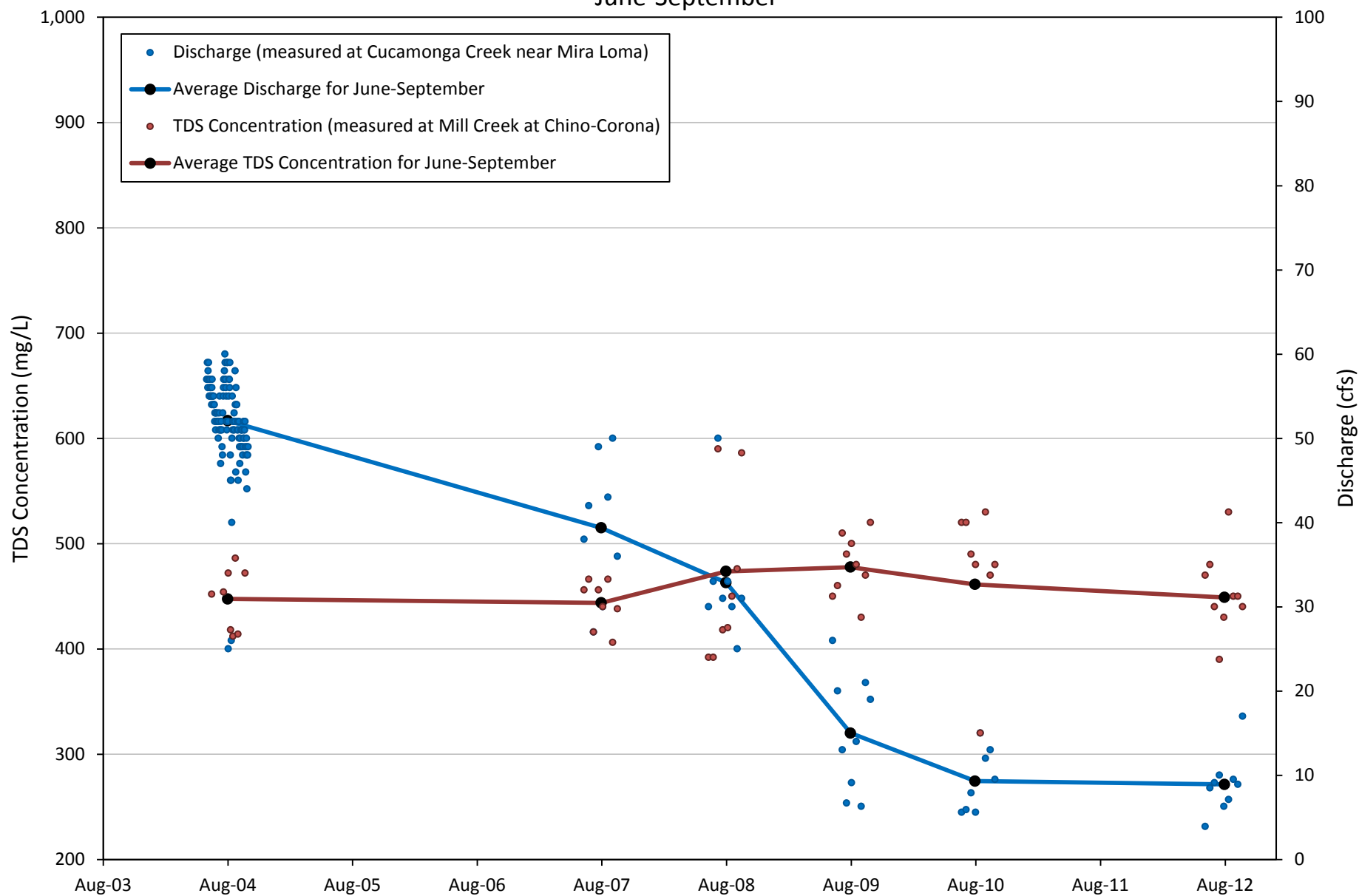


Figure 9
 Discharge and TDS Concentration of Discharge from the Riverside Regional Water Quality Control Plant
 June-September

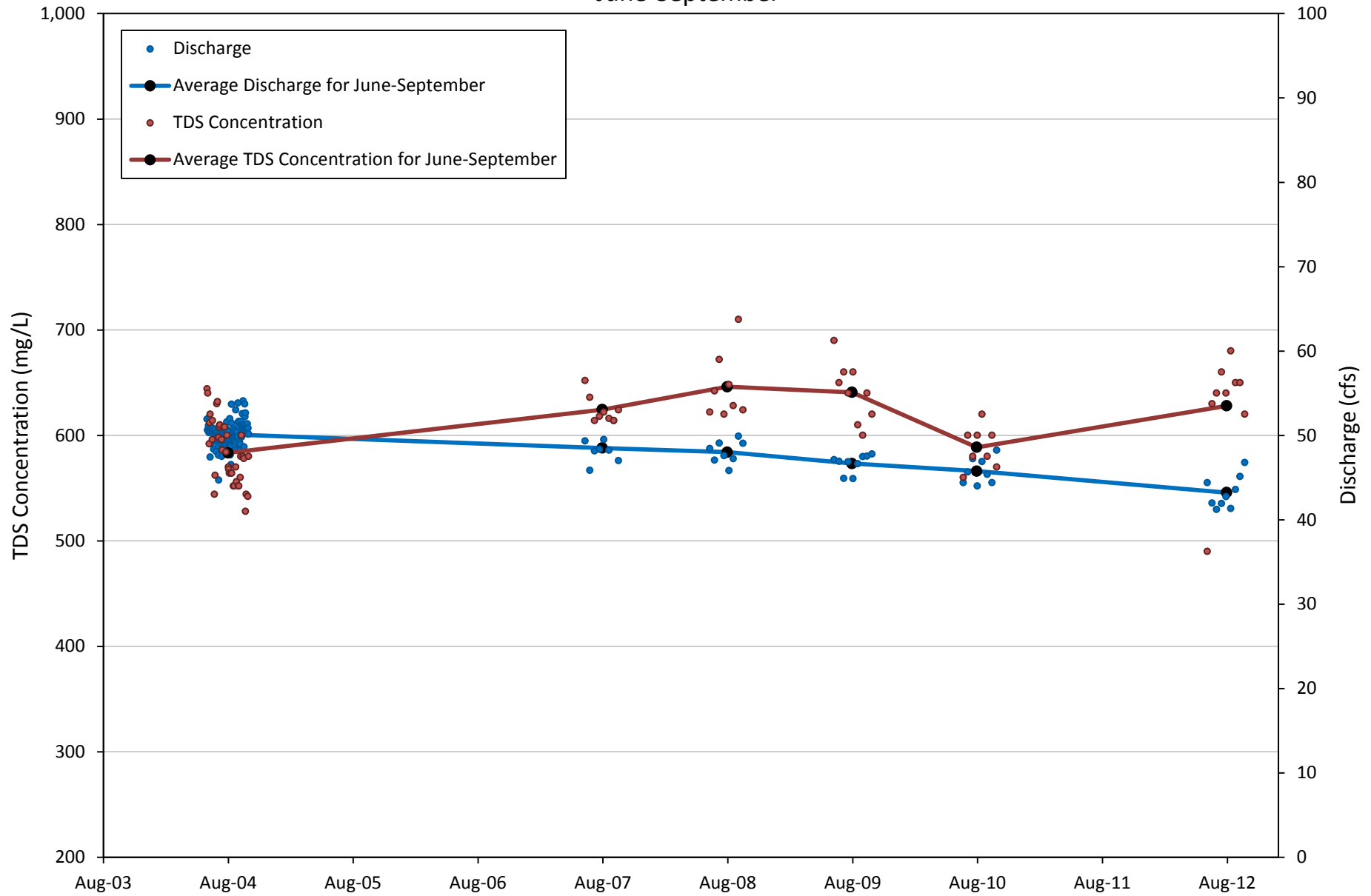


Figure 10
 Discharge and TDS Concentration of Effluent from Corona Wastewater Treatment Plant No. 1
 June-September

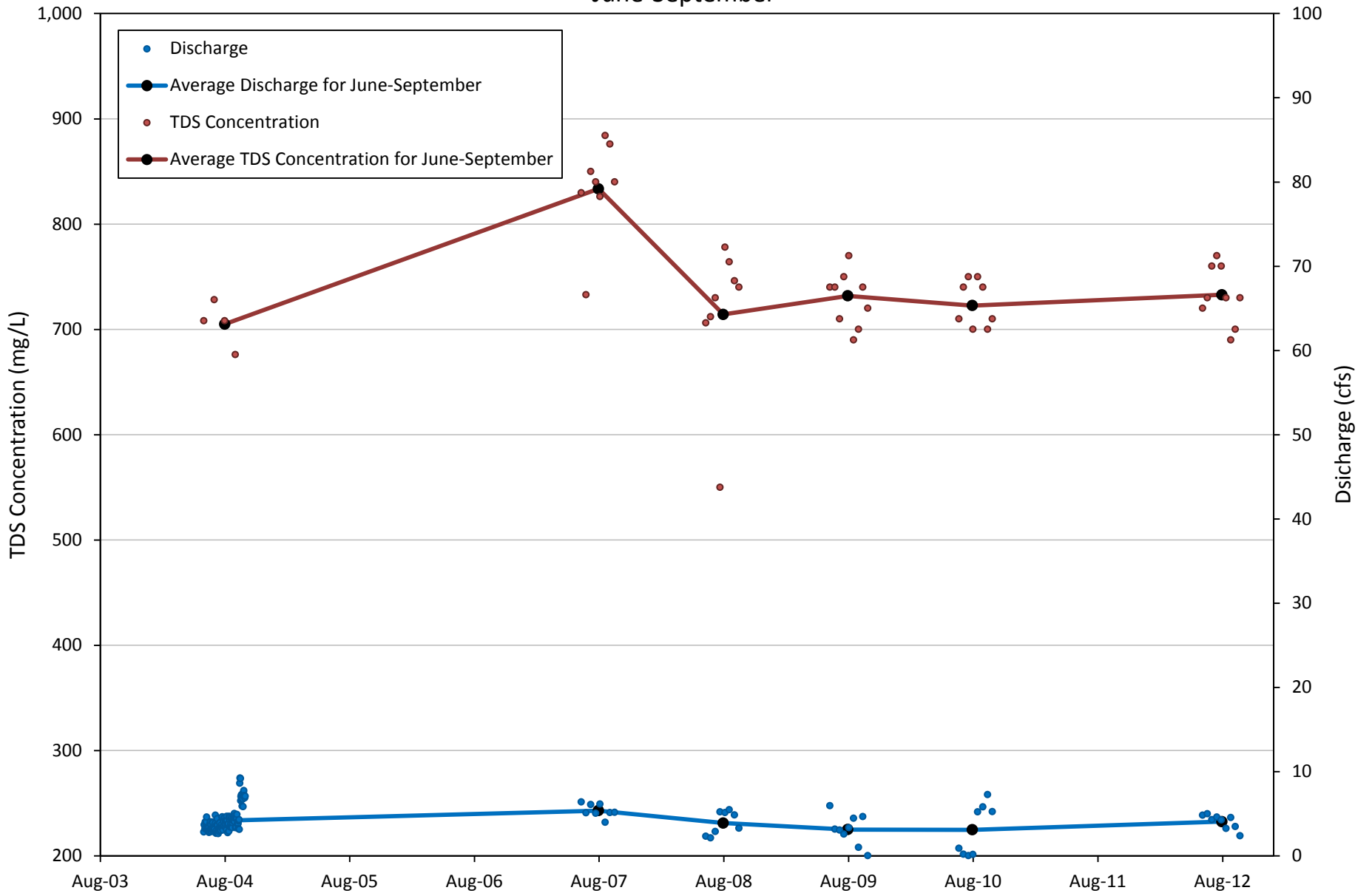


Figure 11
Discharge and TDS Concentration of Effluent from IEUA DP-001 (RP-1 Prado Lake)
June-September

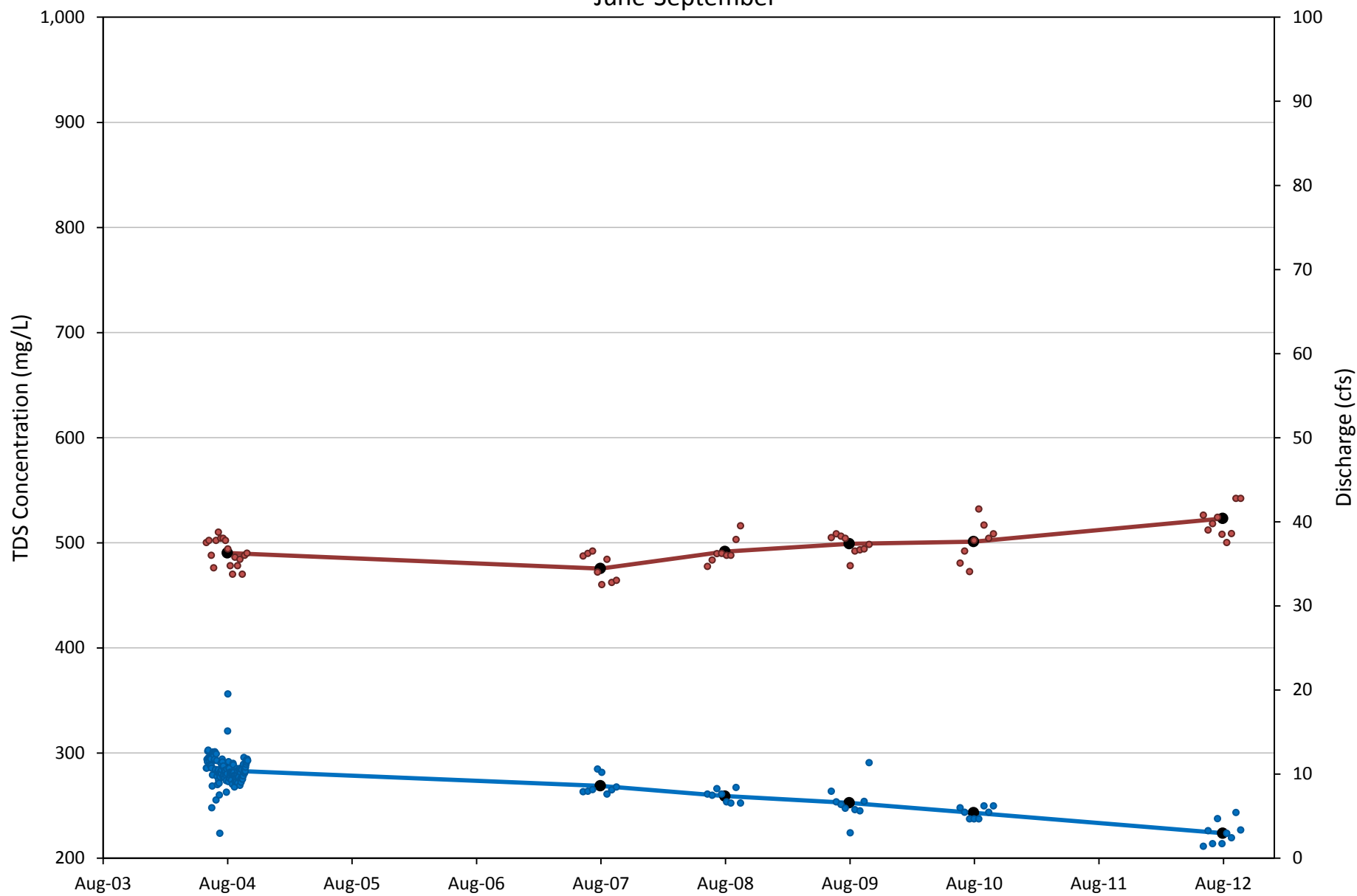


Figure 12
 Discharge and TDS Concentration of Effluent from the Western Riverside County Regional WTP
 June-September

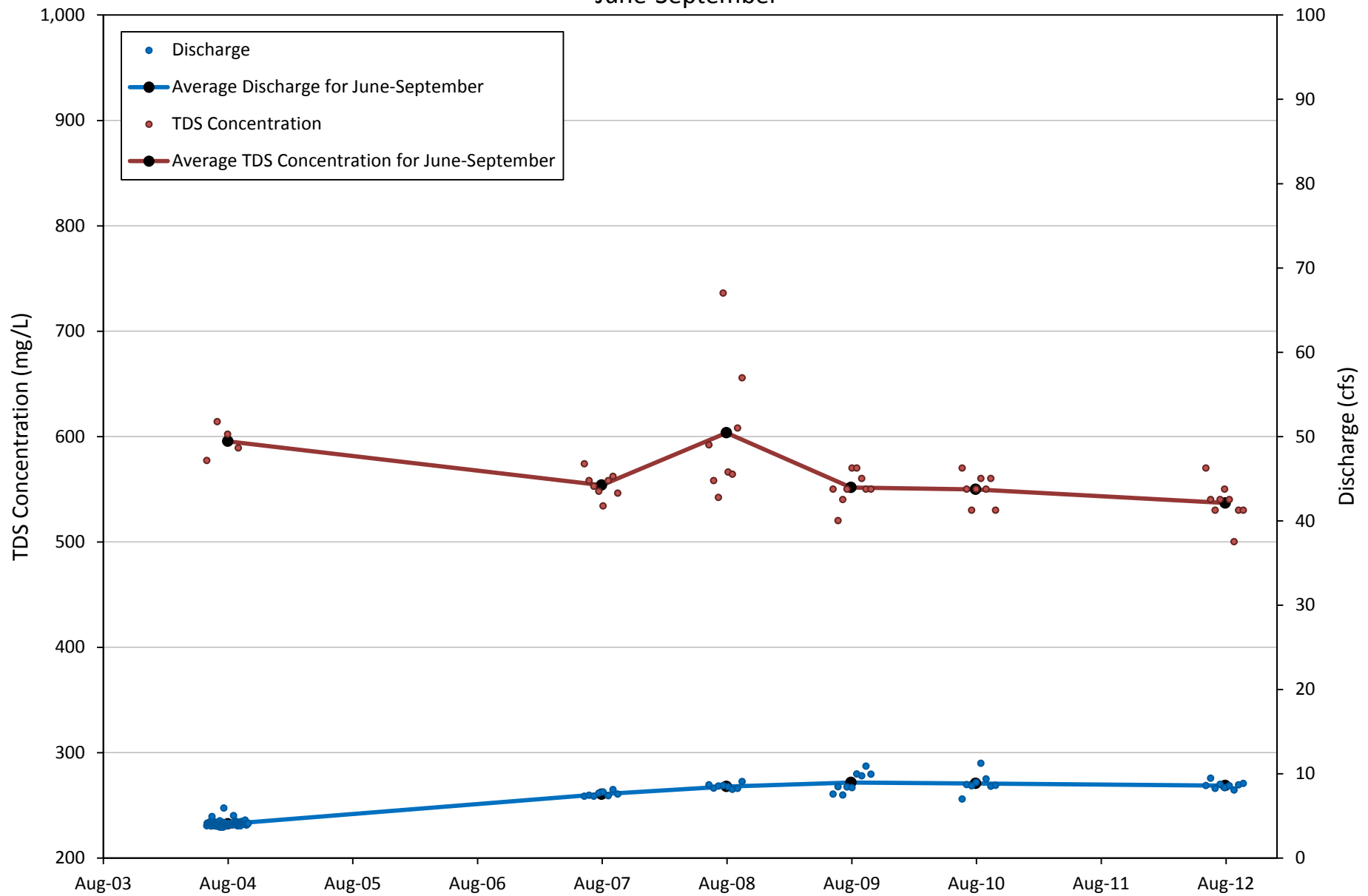


Figure 13
 Discharge and TDS Concentration of the Residual
 June-September

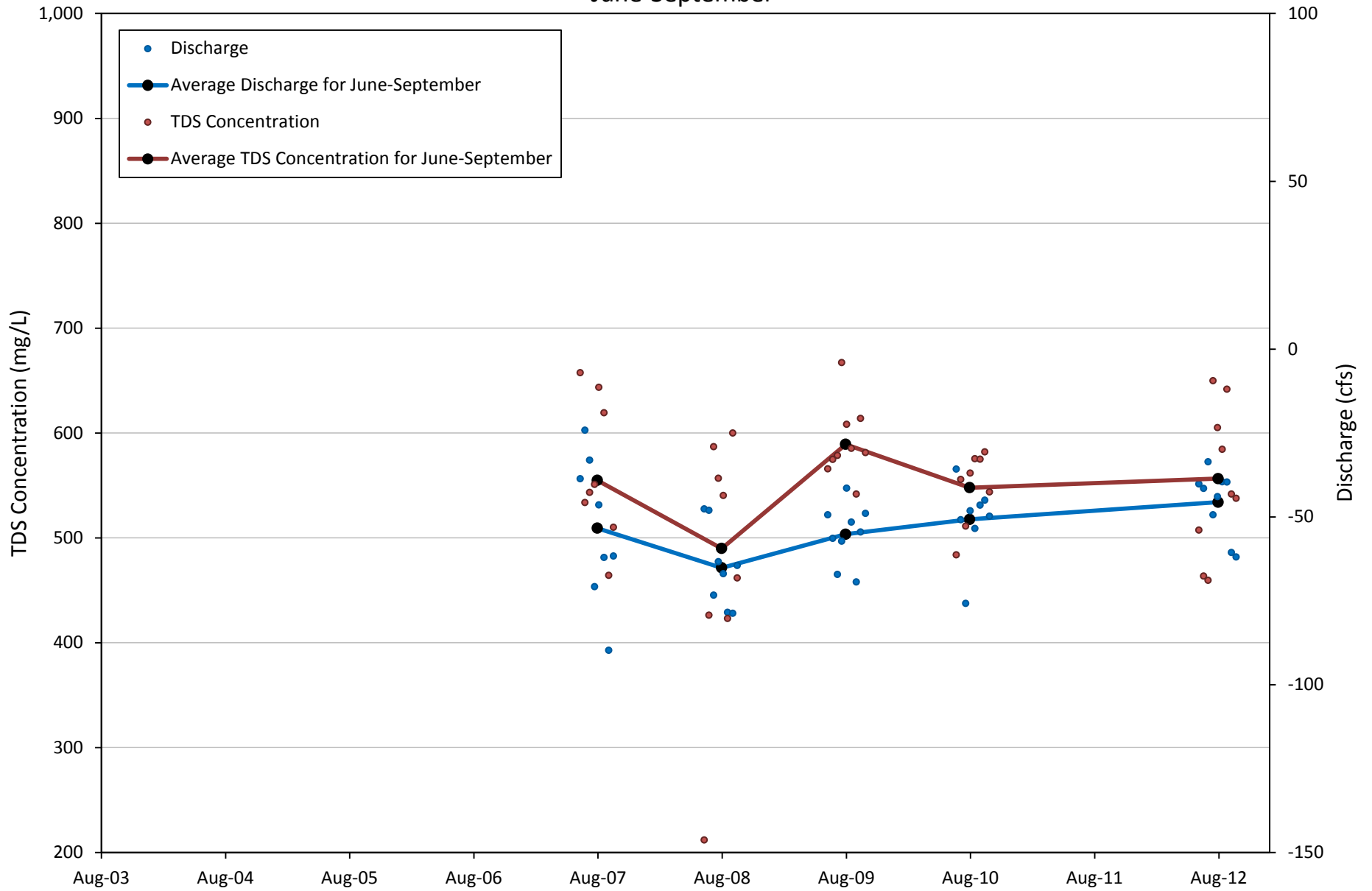


Figure 14
 Flow and TDS Concentration of Discharge from IEUA DP-007 (RP-5)
 June-September

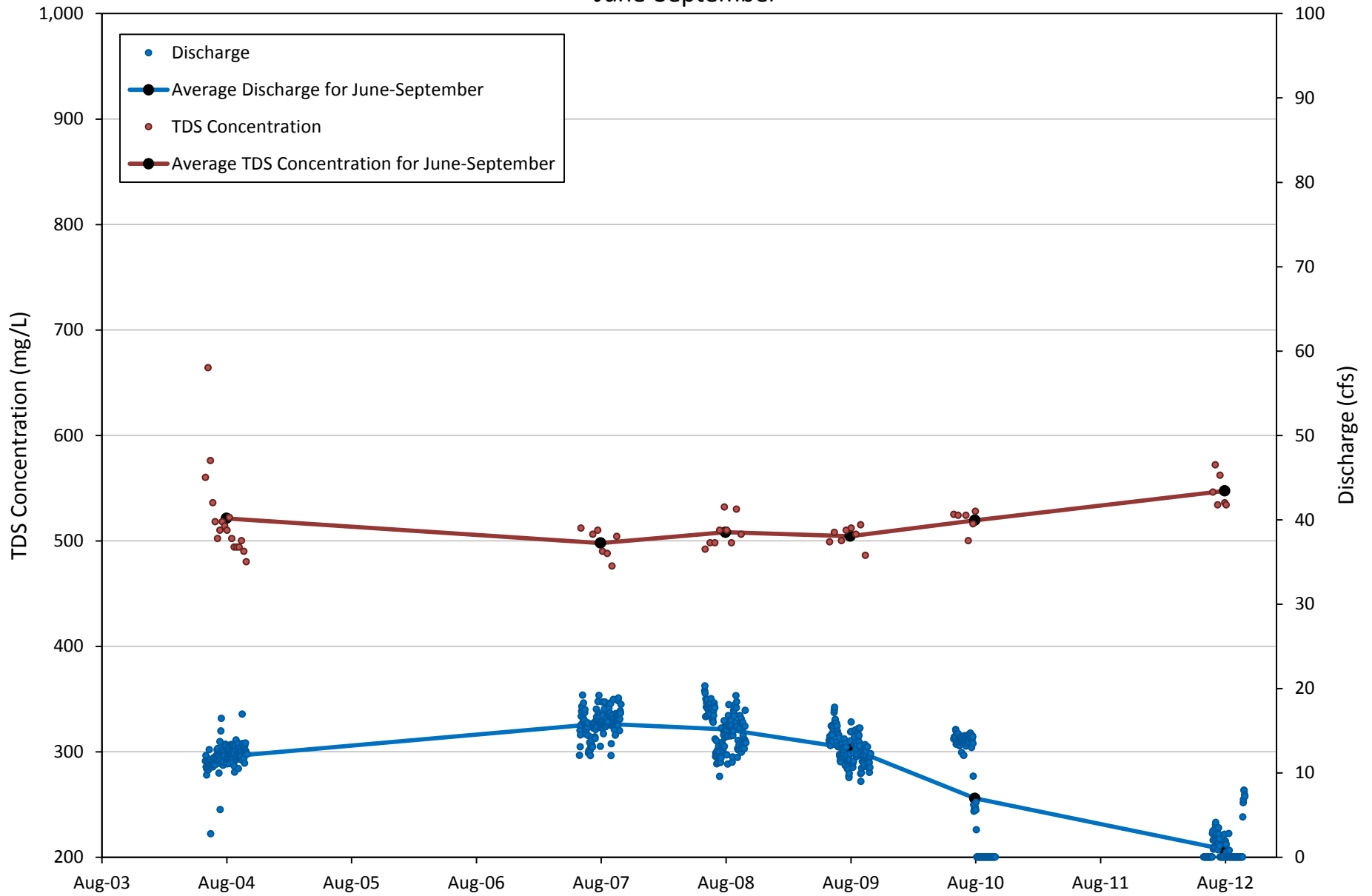


Figure 15
Flow and TDS Concentration of Discharge from IEUA DP-008 (Carbon Canyon)
June-September

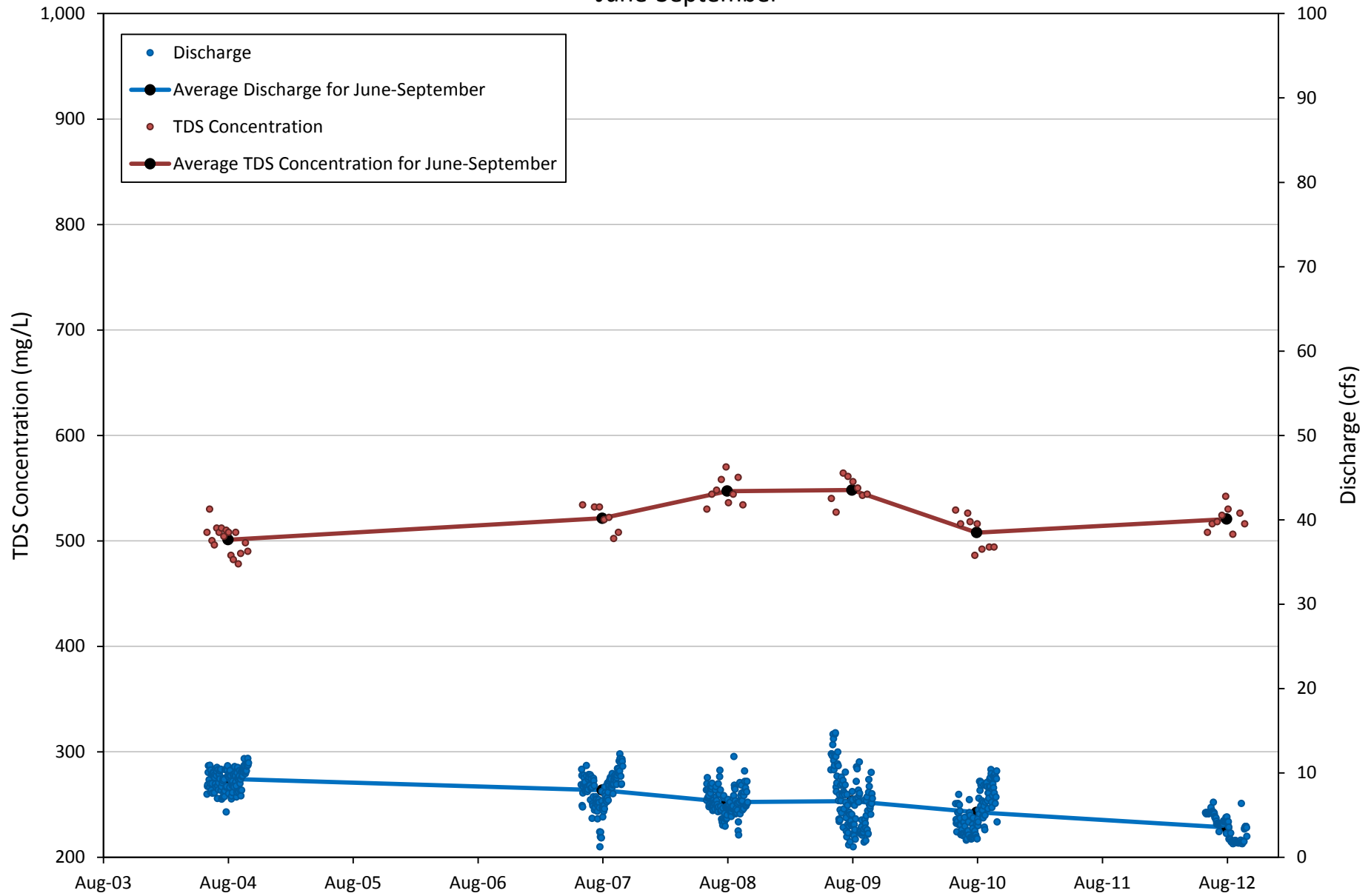


Figure 16
Flow and TDS Concentration of Discharge from IEUA DP-002 (RP-1 Cucamonga)
June-September

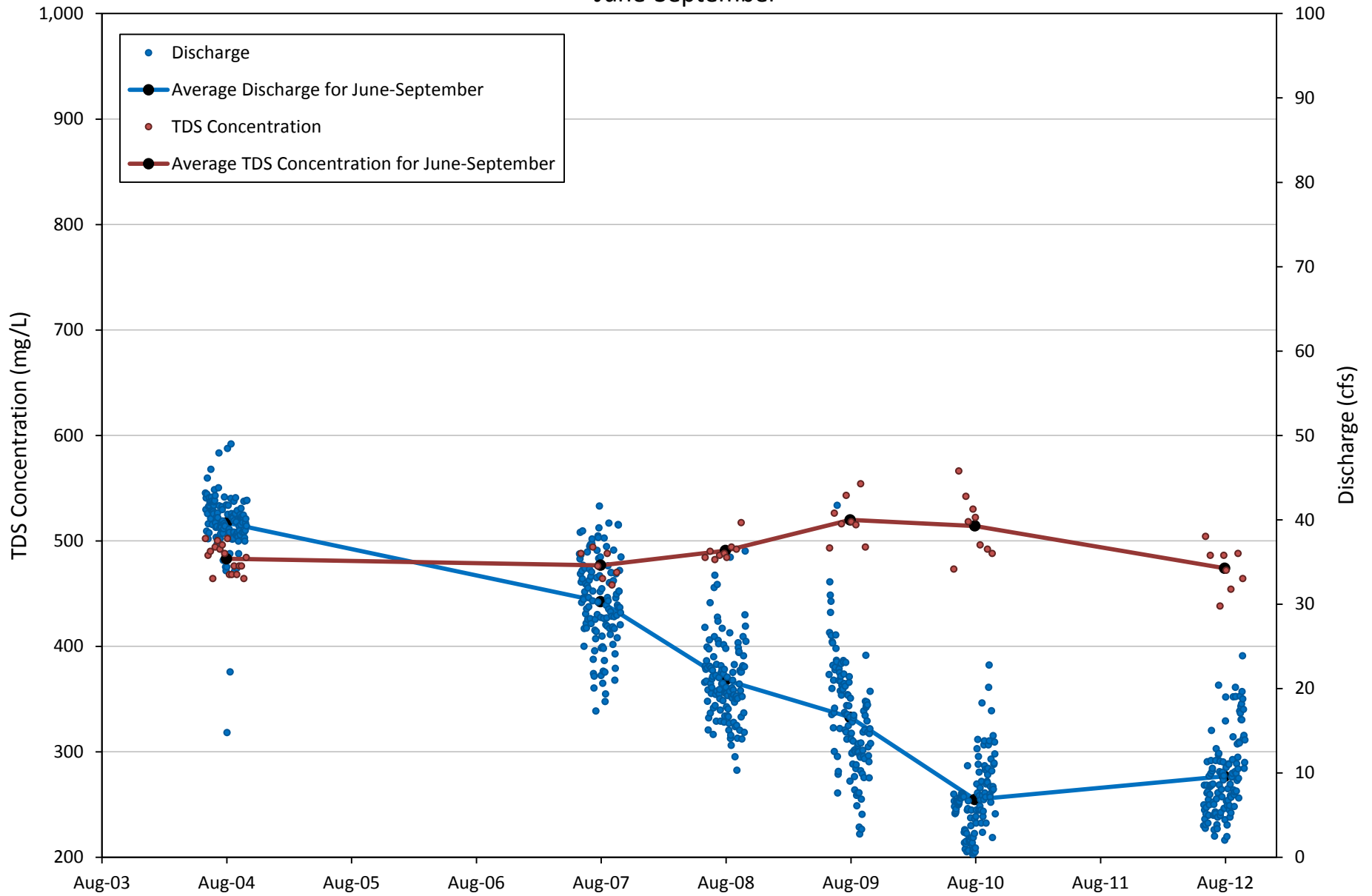
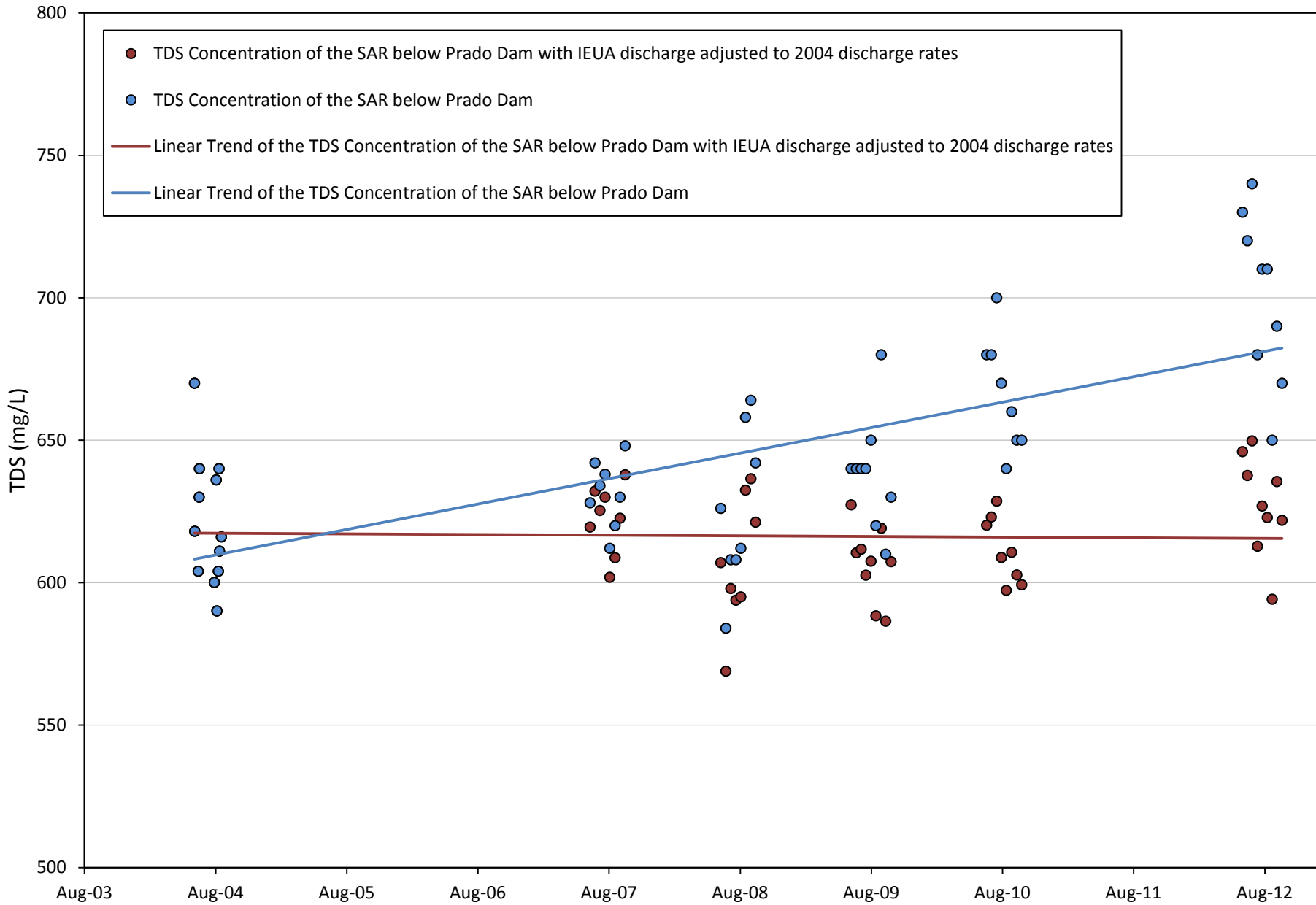


Figure 17
Influence of IEUA Discharge on the TDS Concentration of the Santa Ana River below Prado Dam



Appendix A Comments and Responses

A-1 SAWPA COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
1	Tables 2 & 3, Footnote F	I recommend that this location also indicate that RIX and Rialto POTWs are contributing to the SAR flow at MWD Xing.	The text of Footnote F has been revised to include this description: <i>Santa Ana River at MWD Crossing (USGS station 11066460) – includes discharge from two upstream POTWs that discharge to Reach 4 of the Santa Ana River: the Colton/San Bernardino Regional Tertiary Treatment Rapid Infiltration and Extraction Facility and the City of Rialto’s Municipal Wastewater Treatment Plant.</i>
2	Tables and Figures	Modify all references in Tables and Graphs of “(RP-1 Prado)” to “(RP-1 Prado Lake)” as requested by IEUA rep at last BMP TF for accuracy since they indicated that there is no direct discharge of RP-1 to Chino Creek.	All references have been changed to “RP-1 Prado Lake.”
3	Page 2, Paragraph 2, Sentence 6	Lines 51-54: <i>However, when the Wasteload Allocation Model was used to forensically investigate the impacts of Elsinore Valley Municipal Water District discharge on the TDS concentration of the SAR below Prado Dam it was determined that the TDS concentration was exceeding the Reach 3 TDS concentration objective.</i> This sentence seems to imply that EVMWD was the cause of the TDS exceedances in Reach 3? Do we really know this? Has EVMWD’s annual average exceeded its annual average TDS? If not, I recommend a more neutral sentence that does not imply cause.	In the referenced report, when the WLAM was run with historical data, it showed that the TDS concentration of the SAR below Prado Dam was exceeding the Reach 3 TDS concentration objective. It did not show that EVMWD was the cause of exceedance. The text has been revised to remove any implication of EVMWD as the cause of the exceedance.

SAWPA COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
4	Page 3, list of subscripts	<p>Line 91: <i>X = Santa Ana River at MWD Crossing (USGS station 11066460)</i></p> <p>Since several POTWs are cited below, it would be best to include some text that explains the POTWs that are contributing to the SAR flows at MWD Crossing as reflected in the scope of the task order such as RIX and Rialto POTWs.</p>	<p>The following description was added to footnote 7:</p> <p><i>Discharge at [the Santa Ana River at MWD Crossing site] includes discharge from two upstream POTWs that discharge to Reach 4 of the Santa Ana River: the Colton/San Bernardino Regional Tertiary Treatment Rapid Infiltration and Extraction Facility and the City of Rialto’s Municipal Wastewater Treatment Plant.</i></p>
5	Page 4, Last Paragraph	<p>Line 140: <i>IEUA DP-001 (RP-1 Prado)</i></p> <p>Please rename from “Prado” to “Prado Lake” and universally apply throughout document including all graphs as requested by IEUA at the last BMP TF meeting.</p>	<p>All references have been edited to “RP-1 Prado Lake.”</p>

A-2 YUCAIPA VALLEY WATER DISTRICT COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
1	Page 2	My only suggestion is to eliminate the word “forensic” in reference to the investigation. I believe the way you describe the methodology, the reader can easily see the level of effort put forth to study this issue.	The text has been revised as suggested. The words “forensically” and “forensic” have been removed from the description of the investigation.

A-3 INLAND EMPIRE UTILITIES AGENCY COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
1	Page 5, paragraph 2, line 1	<p>Lines 153-155: <i>A sensitivity analysis was performed...to estimate the TDS concentration of the SAR below Prado Dam had IEUA not reduced its total discharge since 2004.</i></p> <p>Change end of sentence "...had IEUA not reduced its total discharge" to "...had IEUA discharges not decreased due to increase conservation and beneficial reuses in the Chino Basin."</p>	<p>The text has been revised to read:</p> <p><i>...had IEUA discharges not decreased since 2004 due to increased conservation and beneficial reuse in the Chino Basin.</i></p>
2	Page 5, paragraph 4, last sentence	<p>Lines 175-177: <i>This analysis indicates that if IEUA's discharge rates had remained at 2004 levels, the TDS concentration of the SAR below Prado Dam would have remained nearly constant from 2004 to 2012.</i></p> <p>Change to "This analyses indicates that if IEUA's recycled water discharge rates at concentration less than 550 mg/L had remained in the river at its 2004 discharge rates and concentrations, then the TDS blend of all source flows in the SAR below Prado would have remain nearly constant (below 700 mg/L) from 2004 to 2012 being effectively diluted by IEUA discharges"</p>	<p>The text has been revised to read:</p> <p><i>This analysis indicates that if IEUA's discharge rates had remained at 2004 discharge rates with concentrations below a 12-month running average of 550 mg/L, the TDS concentration of the SAR below Prado Dam would have remained nearly constant (below 700 mg/L) from 2004 to 2012. In other words, the TDS concentration of the SAR below Prado Dam is being diluted by IEUA discharges.</i></p>
3	Page 5, paragraph 5, last sentence	<p>Lines 183-184: <i>"[...other inflow terms showed little or no influence on the TDS concentration of the SAR below Prado Dam:]... the TDS concentrations of discharge were similar to those of the SAR below Prado Dam..."</i></p> <p>Change the ending to "or the TDS concentrations of the discharges were greater than IEUAs discharges and similar to those of the SAR below Prado Dam..."</p>	<p>Comment noted, but we made no change to the text. The TDS concentration of IEUA's discharge does not help explain why these discharges had little or no influence on the TDS concentration of the SAR below Prado Dam.</p>

IEUA COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
4	Page 6, first sentence	<p>Lines 185-187: <i>Based on this investigation, the primary reason for the summertime increase in TDS concentration of the SAR below Prado Dam from 2004-2012 was the decrease in IEUA's relatively low-TDS recycled water.</i></p> <p>Insert the words bold-capitalized here into the sentence (in normal case): "Based on this investigation, the primary reason for the OBSERVATION OF THE summertime increase in TDS concentration of the SAR below Prado from 2004-2014 was the CORRELATION WITH THE decrease in IEUA's discharge of relatively lowER-TDS recycled water."</p>	<p>The text has been revised to read:</p> <p><i>This investigation showed that the observed summertime increase in TDS concentration of the SAR below Prado Dam from 2004-2012 was correlated with the decrease in IEUA's discharge of relatively low-TDS recycled water.</i></p>
5	Page 6	<p>Add the following sentence at the end of the last paragraph. "The source of the higher TDS was not revealed by the investigation, but was gradually shown to exist by the gradual decrease in discharge rate of IEUA's lower TDS recycled water from the blend of water sources in the SAR."</p>	<p>Text was added in the last two paragraphs of this report to describe this conclusion.</p>
6	Page 4, Results and Conclusions	<p>This is more or a question of needing clarity or consistence rather than a recommended insert. Bullet 2 for Cucamonga Creek states "concentrations remained stable within a range of 445 to 480 mg/L..." This is a range of 35 mg/L. However bullet 3 for RP-1 Prado states "TDS concentrations increased slightly from 490 to 523 mg/L..." This is a range of 33 mg/L. If both sites historical data are within a range of 35 mg/L why is one increasing and one staying the same? Is that range the data variability range for both sites or is one site more clearly increasing (small variability range) compared to the other with no trend in a large variability range. Please clarify.</p>	<p>The text has been revised to clarify this difference.</p>

A-4 ORANGE COUNTY WATER DISTRICT COMMENTS AND RESPONSES

Comment Number	Reference	Comment	Response
1	Page 3, Page 6, Figure 13	<p>The estimate of the “calculated residual” (Page 3 of 6 and shown in Figure 13) is a relatively large percentage of total input to flow in the Santa Ana River in comparison with other discharges to the river. Although the calculated residual is reported as one input, it is likely a combination of two or more sources or types of water that may have large differences in TDS concentrations. Some of the sources of water that contribute to the calculated residual may have TDS concentrations of 1,000 mg/L or more and are blended to a lower concentration in the calculated residual by other better quality sources of water. A more detailed investigation of the sources of the calculated residual and their relative contribution to the flow in the Santa Ana River will be an important component to fully characterizing the causes of TDS exceedances in Reach 3.</p>	<p>We agree that a more detailed investigation of the sources of discharge in the calculated Residual and their TDS concentrations is necessary to better characterize the causes of recent exceedances of the TDS concentration objective for Reach 3 of the SAR.</p> <p>Text has been added to end of the report recommending this investigation.</p>
2		<p>The report should discuss the accuracy of the SAR at MWD Crossing flow measurement station, including the accuracy at the relatively low flow rates in the data set used in the report.</p>	<p>Between 2007 and 2012, flow measurements at the SAR at MWD Crossing were rated “poor” to “fair.” Typically, discharge measurements less than 100 cfs are rated by the USGS as being more accurate than discharge measurements higher than 100 cfs.</p> <p>Footnote 5 has been added to the text to describe the accuracy of flow measurements at USGS stations used in this report.</p>

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COMMISSION MEMORANDUM NO. 2024.64

DATE: November 19, 2024
TO: SAWPA Commission
SUBJECT: Fiscal Year 2025-2026 and Fiscal Year 2026-2027 Budget Schedule
PREPARED BY: Karen Williams, DGM/CFO

RECOMMENDATION

Receive and file.

DISCUSSION

Staff will be preparing a two-year budget for the fiscal years ending 2026 and 2027. Our FYE 2024 and 2025 Budget received the Government Finance Officers Association's (GFOA) Distinguished Budget Presentation Award. This year's budget process will be very similar to the process followed for the last few years.

To start off the budget process, staff will present the budget process and specific goals and objectives for each project that are needed to help SAWPA achieve its overall vision. Staff also will hold several Budget Workshops where each member agency's financial staff will have an opportunity to review, discuss, and recommend changes to the budget before it is presented to the Commission for approval in April and/or May 2025.

This year, our goal is to continue improvement of the budget so that it can be a useful management tool for the Commission, our member agencies, and staff. Staff will submit the budget to the GFOA for their Distinguished Budget Presentation Award Program, and will follow their recommended practices in budget preparation.

RESOURCE IMPACTS

None.

Attachment:

1. Budget Schedule

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Fiscal Year 2025-26, 2026-27 Budget Schedule

Meeting	Day	Original Date
Report on Estimated Member Agency Contributions <i>(Member Agency CFO's)</i>	Wed.	December 18, 2024
Commission Budget Overview <i>Budget Process, Goals & Objectives</i>	Tue.	January 21, 2025
Budget Workshop - First Draft <i>Chief Financial Officers</i>	Thurs.	February 6, 2025
Budget Workshop - First Draft <i>Chief Financial Officers</i>	Thurs.	February 6, 2025
Commission Budget - First Draft <i>OWOW & Roundtable Budgets</i>	Tue.	March 4, 2025
PA24 Committee Budget - First Draft <i>Brine Line Budget</i>	Tue.	March 4, 2025
Commission Budget - First Draft <i>General Fund Budgets</i>	Tue.	March 18, 2025
Budget Workshop - Second Draft <i>Chief Financial Officers (if needed)</i>	Thurs.	March 27, 2025
PA23 Budget Presentation <i>Budget Review/Approval</i>	Tue.	TBD
PA22 Budget Presentation <i>Budget Review/Approval</i>	Tue	TBD
Commission Budget Workshop <i>Budget Review/Approval - Comprehensive Budget</i>	Tue.	April 1, 2025
PA24 Committee Budget Presentation <i>Budget Approval</i>	Tue.	April 1, 2025
Commission Budget Presentation <i>Budget Approval (If needed)</i>	Tue.	May 6, 2025
PA24 Committee Budget Presentation <i>Budget Approval (If needed)</i>	Tue.	May 6, 2025
Commission Budget Presentation <i>Budget Approval (If needed)</i>	Tue.	May 20, 2025
Commission Budget Presentation <i>Budget Approval (If needed)</i>	Tue.	June 3, 2025
Budget Ratification by Member Agencies	Mon.	June 30, 2025

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Santa Ana Watershed Project Authority
Cash Transaction Report
Month of September 2024

Below is a summary of cash transactions completed during the month in the Authority's checking account with US Bank. Attached are summaries by major revenue and expense classifications.

Cash Receipts and Deposits to Account	\$ 1,213,101.05
Net Investment Transfers	546,879.35
Cash Disbursements	<u>(1,468,724.73)</u>
Net Change for Month	\$ 291,255.67
Balance at Beginning of Month	<u>1,123,420.70</u>
Balance at End of Month per General Ledger	<u>\$ 1,414,676.37</u>
Collected Balance per Bank Statement	<u><u>\$ 1,493,197.16</u></u>

ACCOUNTS PAYABLE RECONCILIATION

Accounts Payable Balance @ 08/31/2024	\$ 5,444,086.18
Invoices Received for September 2024	312,877.67
Invoices Paid by check/wire during September 2024 (see attached register)	<u>(1,166,024.99)</u>
Accounts Payable Balance @ 09/30/2024	<u><u>\$ 4,590,938.86</u></u>

CASH RECEIPTS

Brine Line Operating Revenues	\$ 753,165.71
Participant Fees	379,730.38
LESJWA Admin Reimbursement	19,451.61
Grant Proceeds - Prop 84 Pass-throughs	59,005.38
Other	<u>1,747.97</u>
Total Receipts and Deposits	\$ 1,213,101.05

INVESTMENT TRANSFERS

Transfer of Funds:	
From (to) US Bank	\$ -
From (to) LAIF	500,000.00
From (to) Legal Defense Fund	-
From (to) LESJWA	-
From (to) Investments	<u>46,879.35</u>
Total Investment Transfers	\$ 546,879.35

CASH DISBURSEMENTS

By Check or ACH:	
Payroll	\$ -
Operations	<u>1,166,024.99</u>
Total Checks Drawn	\$ 1,166,024.99
By Cash Transfer:	
Payroll	\$ 202,580.20
Payroll Taxes	<u>100,119.54</u>
Total Cash Transfers	\$ 302,699.74
Total Cash Disbursements	<u><u>\$ 1,468,724.73</u></u>

-

Santa Ana Watershed Project Authority
Check Detail
Sep-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Accrued Volumetric Costs	EFT06259	9/5/2024	CHK	Orange County Sanitation District	\$ 703,282.04
Accrued Volumetric Costs Total					\$ 703,282.04
Asset	EFT06261	9/5/2024	CHK	West Coast Cable, Inc	\$ 10,346.00
Asset	EFT06272	9/5/2024	CHK	FS Contractors, Inc.	\$ 11,400.00
Asset	EFT06273	9/5/2024	CHK	AV Planners	\$ 13,695.43
Asset	EFT06293	9/19/2024	CHK	Gillis & Panichapan Architects	\$ 1,255.00
Asset Total					\$ 36,696.43
Audit Fees	EFT06268	9/5/2024	CHK	C.J. Brown & Company CPAs	\$ 450.00
Audit Fees Total					\$ 450.00
Auto Expense	5887	9/19/2024	CHK	County of Riverside	\$ 1,356.72
Auto Expense Total					\$ 1,356.72
Benefits	P047307	9/5/2024	WDL	MissionSquare	\$ 466.50
Benefits	P047308	9/5/2024	WDL	MissionSquare	\$ 4,319.19
Benefits	P047309	9/5/2024	WDL	CalPERS Supplemental Income	\$ 5,943.72
Benefits	P047310	9/5/2024	WDL	Public Employees' Retirement	\$ 26,590.70
Benefits	P047353	9/19/2024	WDL	MissionSquare	\$ 4,369.19
Benefits	P047354	9/19/2024	WDL	MissionSquare	\$ 466.50
Benefits	P047355	9/19/2024	WDL	CalPERS Supplemental Income	\$ 4,877.00
Benefits	P047356	9/19/2024	WDL	Public Employees' Retirement	\$ 26,590.69
Benefits	WDL000006821	9/5/2024	WDL	WageWorks	\$ 234.20
Benefits	WDL000006822	9/6/2024	WDL	WageWorks	\$ 1,225.38
Benefits	WDL000006828	9/10/2024	WDL	WageWorks	\$ 5,229.90
Benefits	WDL000006829	9/11/2024	WDL	WageWorks	\$ 361.40
Benefits	WDL000006842	9/17/2024	WDL	WageWorks	\$ 96.87
Benefits	WDL000006843	9/17/2024	WDL	WageWorks	\$ 15.00
Benefits	WDL000006844	9/18/2024	WDL	WageWorks	\$ 857.92
Benefits	WDL000006846	9/19/2024	WDL	WageWorks	\$ 96.87
Benefits	WDL000006847	9/20/2024	WDL	WageWorks	\$ 500.00
Benefits	WDL000006849	9/23/2024	WDL	WageWorks	\$ 378.00
Benefits	WDL000006850	9/24/2024	WDL	WageWorks	\$ 5.00
Benefits Total					\$ 82,624.03
Building Lease	5894	9/26/2024	CHK	Wilson Property Services, Inc	\$ 2,328.70
Building Lease	5895	9/26/2024	CHK	Wilson Property Services, Inc	\$ 2,618.88
Building Lease	5896	9/26/2024	CHK	Wilson Property Services, Inc	\$ 2,556.00
Building Lease Total					\$ 7,503.58
Cloud Storage	EFT06267	9/5/2024	CHK	VC3, Inc.	\$ 3,013.75
Cloud Storage	EFT06301	9/26/2024	CHK	VC3, Inc.	\$ 3,018.75
Cloud Storage Total					\$ 6,032.50
Computer Hardware	EFT06280	9/19/2024	CHK	VC3, Inc.	\$ 3,823.62
Computer Hardware Total					\$ 3,823.62
Consulting	5889	9/19/2024	CHK	Endeavour Solutions Inc.	\$ 7,332.50
Consulting	EFT06264	9/5/2024	CHK	Nicolay Consulting Group	\$ 5,400.00
Consulting	EFT06265	9/5/2024	CHK	CDM Smith, Inc.	\$ 29,242.46
Consulting	EFT06267	9/5/2024	CHK	VC3, Inc.	\$ 3,350.46
Consulting	EFT06269	9/5/2024	CHK	Woodard & Curran Inc.	\$ 16,118.75
Consulting	EFT06270	9/5/2024	CHK	North American Weather Consultants	\$ 11,000.00
Consulting	EFT06281	9/19/2024	CHK	Dudek	\$ 22,520.00
Consulting	EFT06283	9/19/2024	CHK	Ralph Andersen & Associates	\$ 2,850.00
Consulting	EFT06289	9/19/2024	CHK	GEI Consultants	\$ 28,738.33
Consulting	EFT06292	9/19/2024	CHK	Kahn Soares & Conway	\$ 3,200.00
Consulting	EFT06299	9/26/2024	CHK	West Coast Advisors	\$ 9,750.00
Consulting	EFT06301	9/26/2024	CHK	VC3, Inc.	\$ 3,464.95
Consulting	EFT06302	9/26/2024	CHK	Foster & Foster Consulting	\$ 1,700.00
Consulting	EFT06306	9/26/2024	CHK	Quantum Spatial, Inc.	\$ 51,998.39
Consulting	EFT06307	9/26/2024	CHK	West Yost & Associates, Inc.	\$ 531.75
Consulting Total					\$ 197,197.59
Credit Cards	P047422	9/9/2024	WDL	US Bank	\$ 17,988.05
Credit Cards Total					\$ 17,988.05
Director Costs	EFT06274	9/19/2024	CHK	Eastern Municipal Water District	\$ 570.92
Director Costs	EFT06277	9/19/2024	CHK	Western Municipal Water District	\$ 545.59
Director Costs	EFT06282	9/19/2024	CHK	Jasmin Hall	\$ 69.68
Director Costs	EFT06285	9/19/2024	CHK	Bruce Whitaker	\$ 80.40

Santa Ana Watershed Project Authority
Check Detail
Sep-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Director Costs	EFT06288	9/19/2024	CHK	T. Milford Harrison	\$ 29.48
Director Costs Total					\$ 1,296.07
Employee Reimbursement	EFT06258	9/5/2024	CHK	Richard Whetsel	\$ 275.02
Employee Reimbursement	EFT06284	9/19/2024	CHK	Alison L Lewis	\$ 1,635.87
Employee Reimbursement	EFT06295	9/19/2024	CHK	Natalia Gonzalez	\$ 33.44
Employee Reimbursement Total					\$ 1,944.33
Equipment Rented	EFT06260	9/5/2024	CHK	Konica Minolta - Rental	\$ 678.07
Equipment Rented	EFT06276	9/19/2024	CHK	Pitney Bowes Global Financial	\$ 345.60
Equipment Rented Total					\$ 1,023.67
Facility Repair & Maintenance	5888	9/19/2024	CHK	Redlands Plumbing Heating & Air	\$ 7,020.14
Facility Repair & Maintenance	EFT06266	9/5/2024	CHK	TNT Elevator Inc	\$ 300.00
Facility Repair & Maintenance	EFT06286	9/19/2024	CHK	Riverside Cleaning Systems	\$ 1,700.00
Facility Repair & Maintenance	EFT06308	9/26/2024	CHK	Pacific Shore Pest Control	\$ 135.00
Facility Repair & Maintenance Total					\$ 9,155.14
Insurance Expense	EFT06287	9/19/2024	CHK	Zenith Insurance Company	\$ 4,440.00
Insurance Expense Total					\$ 4,440.00
Lab Costs	EFT06263	9/5/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 5,086.85
Lab Costs	EFT06278	9/19/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 1,363.45
Lab Costs	EFT06300	9/26/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 1,217.00
Lab Costs Total					\$ 7,667.30
Legal Expense	EFT06290	9/19/2024	CHK	Lagerlof, LLP	\$ 2,741.00
Legal Expense	EFT06294	9/19/2024	CHK	Epps & Coulson, LLP	\$ 2,260.44
Legal Expense Total					\$ 5,001.44
Maintenance Labor	EFT06259	9/5/2024	CHK	Orange County Sanitation District	\$ 3,439.52
Maintenance Labor Total					\$ 3,439.52
Office Expense	EFT06297	9/26/2024	CHK	Aramark Refreshment Services	\$ 267.69
Office Expense Total					\$ 267.69
Payroll	WDL000006808	9/6/2024	WDL	Direct Deposit 9/6/2024	\$ 97,800.78
Payroll	WDL000006811	9/6/2024	WDL	PR Tax - Federal	\$ 38,879.61
Payroll	WDL000006812	9/6/2024	WDL	PR Tax - State	\$ 9,673.29
Payroll	WDL000006813	9/6/2024	WDL	PR Tax - State AZ	\$ 109.57
Payroll	WDL000006832	9/20/2024	WDL	Direct Deposit 9/20/2024	\$ 104,779.42
Payroll	WDL000006833	9/20/2024	WDL	PR Tax - Federal	\$ 41,172.02
Payroll	WDL000006834	9/20/2024	WDL	PR Tax - State	\$ 10,175.48
Payroll	WDL000006835	9/20/2024	WDL	PR Tax - State AZ	\$ 109.57
Payroll Total					\$ 302,699.74
Prop84	5897	9/26/2024	CHK	City of Yucaipa	\$ 59,005.38
Prop84 Total					\$ 59,005.38
Safety	5886	9/19/2024	CHK	Cintas	\$ 292.96
Safety	EFT06262	9/5/2024	CHK	Underground Service Alert	\$ 231.30
Safety	EFT06279	9/19/2024	CHK	Fortis Fire & Safety, Inc.	\$ 2,030.00
Safety Total					\$ 2,554.26
Security	5893	9/26/2024	CHK	SafeT Security	\$ 416.55
Security	EFT06296	9/19/2024	CHK	Lady Mehan Security	\$ 1,152.00
Security	EFT06309	9/26/2024	CHK	Lady Mehan Security	\$ 384.00
Security Total					\$ 1,952.55
Shipping/Postage	EFT06275	9/19/2024	CHK	General Logistics Systems US	\$ 73.46
Shipping/Postage	EFT06298	9/26/2024	CHK	General Logistics Systems US	\$ 20.70
Shipping/Postage Total					\$ 94.16
Software	EFT06267	9/5/2024	CHK	VC3, Inc.	\$ 1,182.15
Software	EFT06301	9/26/2024	CHK	VC3, Inc.	\$ 1,192.15
Software Total					\$ 2,374.30
Subscriptions	EFT06271	9/5/2024	CHK	Verizon Connect	\$ 104.70
Subscriptions Total					\$ 104.70
Telephone - Zoom	EFT06291	9/19/2024	CHK	Zoom Video Communications	\$ 1,220.16
Telephone - Zoom Total					\$ 1,220.16

Santa Ana Watershed Project Authority
Check Detail
Sep-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Utilities	5881	9/5/2024	CHK	Riverside Public Utilities	\$ 247.90
Utilities	5882	9/5/2024	CHK	Burrtec Waste Industries, Inc	\$ 217.35
Utilities	5883	9/5/2024	CHK	Charter Communications	\$ 116.22
Utilities	5884	9/19/2024	CHK	Riverside Public Utilities	\$ 2,400.87
Utilities	5885	9/19/2024	CHK	Southern California Edison	\$ 12.68
Utilities	5890	9/26/2024	CHK	AT&T	\$ 973.76
Utilities	5891	9/26/2024	CHK	AT&T	\$ 1,013.46
Utilities	5892	9/26/2024	CHK	AT&T	\$ 918.84
Utilities	EFT06303	9/26/2024	CHK	Verizon Wireless Services LLC	\$ 1,255.85
Utilities	EFT06304	9/26/2024	CHK	Verizon Wireless Services LLC	\$ 316.44
Utilities	EFT06305	9/26/2024	CHK	Verizon Wireless Services LLC	\$ 56.39
Utilities Total					\$ 7,529.76
Grand Total					\$ 1,468,724.73

	Accounts Payable	
Checks	\$ 1,065,412.91	
Wire Transfers	\$ 100,612.08	
	\$ 1,166,024.99	
Other	\$ -	
Payroll	\$ 302,699.74	
Total Disbursements for September 2024	\$ 1,468,724.73	

Santa Ana Watershed Project Authority
Consulting
Sep-24

Check #	Check Date	Task #	Task Description	Vendor Name	Total Contract	Check Amount	Remaining Contract Amount	Notes/Comments
EFT06265	9/5/2024	CDM377-02	PFAS Regional Analysis for Upper Santa Ana River Watershed - Phase 2	CDM Smith, Inc.	\$ 465,917.00	\$ 29,242.46	\$ 239,369.17	
EFT06281	9/19/2024	DUDK240-07	Inland Empire Brine Line Master Plan	Dudek	\$ 399,980.00	\$ 16,860.00	\$ 16,148.48	
EFT06281	9/19/2024	DUDK240-10	Brine Line Sewer System Management Plan Audit	Dudek	\$ 28,220.00	\$ 760.00	\$ 16,990.00	
EFT06281	9/19/2024	DUDK240-10	Brine Line Sewer System Management Plan Audit	Dudek	\$ 28,220.00	\$ 4,900.00	\$ 16,990.00	
5889	9/19/2024	ENSO100-01	GP Study and Support FY 24-25	Endeavour Solutions	\$ 18,385.00	\$ 7,332.50	\$ 11,052.50	
EFT06302	9/26/2024	FOST100-02	2024 GASB 68 Actuarial Information for CalPERS Cost-Sharing	Foster & Foster	\$ 1,700.00	\$ 1,700.00	\$ -	
EFT06289	9/19/2024	GEI386-02	Santa Ana River Regional Bacteria Monitoring Program	GEI Consultants	\$ 1,191,054.00	\$ 28,738.33	\$ 1,081,110.68	
EFT06292	9/19/2024	KSC392-03	Emerging Constituents Program TF Regulatory Support	Kahn, Soares, & Conway	\$ 48,000.00	\$ 1,360.00	\$ 41,840.00	
EFT06292	9/19/2024	KSC384-03	MSAR Pathogen TMDL TF Regulatory Support	Kahn, Soares, & Conway	\$ 148,500.00	\$ 200.00	\$ 132,220.00	
EFT06292	9/19/2024	KSC374-03	Basin Monitoring Program TF Regulatory Support	Kahn, Soares, & Conway	\$ 133,000.00	\$ 1,640.00	\$ 69,169.59	
EFT06264	9/5/2024	NICO100-12	GASB 75 OPEB Actuarial Services	Nicolay Consulting Group	\$ 5,400.00	\$ 5,400.00	\$ -	
EFT06270	9/5/2024	NAWC370-03	Santa Ana River Watershed Weather Modification Pilot Operations	North American Weather Consultants	\$ 1,097,072.00	\$ 11,000.00	\$ 740,393.10	
EFT06306	9/26/2024	QUAN504-01	Water Efficiency Budget Assistance	Quantum Spatial, Inc.	\$ 633,986.00	\$ 51,998.39	\$ 9,988.18	
EFT06283	9/19/2024	RAA100-02	Classification and Compensation Study	Ralph Anderson & Associates	\$ 42,800.00	\$ 2,850.00	\$ -	
EFT06267	9/5/2024	ACS100-26	IT Services	VC3, Inc.	\$ 288,000.00	\$ 3,350.46	\$ 135,065.21	
EFT06301	9/26/2024	ACS100-26	IT Services	VC3, Inc.	\$ 288,000.00	\$ 3,464.95	\$ 135,065.21	
EFT06299	9/26/2024	WCA100-03-06	State Legislative Consulting Services	West Coast Advisors	\$ 117,000.00	\$ 9,750.00	\$ 19,500.00	
EFT06307	9/26/2024	WEST374-02	Ambient Water Quality Pilot Study for Nitrogen and TDS	West Yost & Associates	\$ 339,960.00	\$ 531.75	\$ 65,477.30	
EFT06269	9/5/2024	RMCS04-401-11	SARCCUP Program Mgmt Services	Woodard & Curran	\$ 136,098.00	\$ 9,330.00	\$ 105,145.50	
EFT06269	9/5/2024	W&C320-01	Reach IV and IV-B DIP Condition Assessment	Woodard & Curran	\$ 457,469.00	\$ 6,788.75	\$ 103,544.90	
					\$ 197,197.59			

COMMISSION MEMORANDUM NO. 2024.65

DATE: November 19, 2024
TO: SAWPA Commission
SUBJECT: Inter-Fund Borrowing – September 2024
PREPARED BY: Karen Williams, DGM/CFO

RECOMMENDATION

Receive and file.

DISCUSSION

On December 13, 2005, the Commission approved Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. Staff was directed to bring back an accounting of the loans each month for review when the total exceeded \$250,000 in aggregate.

The following projects, with negative cash flow, are listed below with the amounts borrowed from SAWPA General Fund Reserves in September 2024. The total amount borrowed is over the aggregate \$250,000 amount recommended in Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. The Commission has requested that this item be brought back each month as an informational item when the loan amount is over the \$250,000 aggregate amount.

Fund	Fund Name	08/31/ 2024 Balance	Loan Receipts	New Charges	09/30/ 2024 Balance
135	Proposition 84 Admin R2	\$57,088.11	(\$0.00)	\$0.00	\$57,088.11
145	Proposition 84 Admin R4	579,654.48	(0.00)	56,954.10	636,608.58
150	Proposition 1 R1 – Admin	138,917.82	(0.00)	17,771.94	156,689.76
155	Proposition 1 R2 - Admin	87,906.35	(0.00)	12,269.88	100,176.23
376	ICARP	0.00	(0.00)	1,880.67	1,880.67
398	DCI 2021 Drought Relief	19,556.51	(0.00)	1,091.16	20,647.67
477	LESJWA Administration	18,116.50	(19,451.61)	13,978.76	12,643.65
	Total Funds Borrowed	<u>\$901,239.77</u>	<u>(\$19,451.61)</u>	<u>\$103,946.51</u>	<u>\$985,734.67</u>
	General Fund Reserves Balance		\$3,218,312.51		
	Less Amount Borrowed		<u>985,734.67</u>		
	Balance of General Fund Reserves		<u>\$2,232,577.84</u>		

The following table lists each fund that has a negative cash flow, the source of funding for the fund, how often the fund is billed, and the projected rate of payment for the fund.

NEGATIVE CASH-FLOW FUNDS

Fund No.	Source of Funding	Billing Frequency	Projected Payment Time
135, 145,150, 155 – Proposition 1 & 84 Admin	DWR – Prop 1 & 84 Grant	Monthly/Quarterly	Up to 4 months
397 – WECAN - Riverside	City of Riverside Grant	Quarterly	Up to 4 months
398 – DCI 2021 Drought Relief	DWR – Grant	Monthly	Up to 4 months
477 – LESJWA Admin	Reimbursement from LESJWA	Monthly	2 to 4 weeks
504 – Proposition 84 SARCCUP Projects	DWR – Prop 84 Grant	Monthly/Quarterly	Up to 4 months

Fund 135

This fund is for the administration of Proposition 84 Round II grant funds. These funds will be billed quarterly and 10% will be withheld for retention.

Fund 145

This fund is for the administration of Proposition 84 Round 2015 grant funds. These funds will be billed quarterly and 10% will be withheld for retention.

Fund 150

This fund is for the administration of Proposition 1 Round I grant funds. Once the contract has been signed by DWR these funds will be billed quarterly and 10% will be withheld for retention.

Fund 155

This fund is for the administration of Proposition 1 Round II grant funds. Once the contract has been signed by DWR these funds will be billed quarterly and 10% will be withheld for retention.

Fund 397

This fund is for the transformative climate communities grant provided by a sub-recipient agreement between SAWPA and the City of Riverside. These funds will be billed on a quarterly basis.

Fund 398

This fund is for the DCI 2021 Drought Relief Grant. These funds will be billed monthly and 10% will be withheld for retention.

Fund 477

Each month LESJWA is billed the cost for administering the JPA. Once the bill is received, LESJWA submits payment within two weeks.

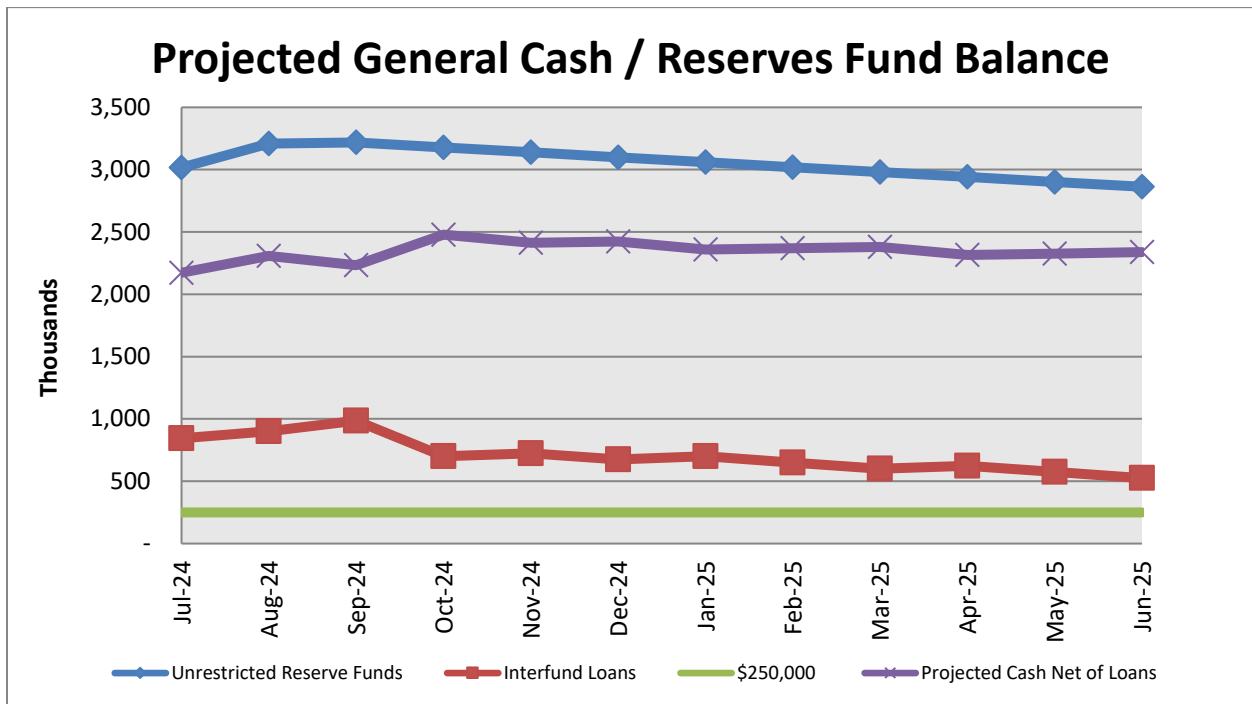
Fund 504

This fund is for the implementation of SARCCUP projects which are administered through PA22 and PA23.

The following graph shows the total budget, total project costs to date, and the amount remaining on each grant.

Fund	Fund Name	Total Budget	Costs Through 09/30/2024	Remaining Grant Budget
145	Proposition 84 Admin R4	\$3,213,384	(\$2,531,725)	\$681,659
150	Proposition 1 R1 Admin	1,157,000	(771,680)	385,320
155	Proposition 1 R2 Admin	1,352,928	(100,175)	1,252,753
376	ICARP	644,190	(1,881)	642,309
378	Prop 1 – R2 Cloud Seeding	861,400	(79,140)	782,260
397	WECAN – City of Riverside	592,417	(186,860)	405,557
398	DCI 2021 Drought Grant	5,000,000	(134,948)	4,865,052
504	Prop 84 – 2015 Round (SARCCUP)	1,543,810	(978,318)	565,492
505	Prop 1 – Round 1 Capital Projects	500,000	(426,299)	73,701
Totals		\$14,865,129	(\$5,211,026)	\$9,654,103

The following graph shows projected inter-fund loan balances, total unrestricted General Fund Reserves available for loans, and projected cash net of loans through June 2025. The projected loan balance is expected to remain over the \$250,000 aggregate limit through June 2025 because of Proposition 1 and 84 grants but can be covered by General Fund Reserves without a major impact on cash flow.



RESOURCE IMPACTS

The funds borrowed from the General Fund Reserves will be paid back with interest when the funding is received. Interfund loans for grants are not charged interest unless the grant contract specifically states that interest is eligible for reimbursement. There is sufficient cash available to cover proposed borrowings and to pay budgeted expenditures for the General Fund.

Attachments:

1. Resolution No. 452 | Amending the Inter-Fund, Inter-Project and Inter-Agency Loan Policy

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RESOLUTION NO. 452

A RESOLUTION OF THE COMMISSION OF THE SANTA ANA WATERSHED PROJECT AUTHORITY AMENDING THE INTER-FUND, INTER-PROJECT AND INTER-AGENCY LOAN POLICY

WHEREAS, the Commission of the Santa Ana Watershed Project Authority (hereafter "SAWPA") previously adopted, by minute action taken on August 3, 1996, an "Inter-Fund/Inter-Project Loan Policy" to regulate loans from one SAWPA Fund or Project to another SAWPA Fund or Project; and

WHEREAS, the Commission desires to amend the "Inter-Fund Fund/Project Loan Policy" by formally adopting such Policy, by way of this Resolution, regulating how and in what manner such inter-fund or inter-project loans are to take place and mandating that all such loans require Commission approval in advance as contemplated by the policy adopted on August 3, 1996.

NOW, THEREFORE, BE IT RESOLVED that the Commission of the Santa Ana Watershed Project Authority hereby amends the following Loan Policy for any loan from one SAWPA Fund or Project to another SAWPA Fund or Project:

1. Loans from any SAWPA Fund or Project to another SAWPA Fund, Project or another public agency shall be approved in advance by the SAWPA Commission. The approval shall be in written format and include documentation of the specifics of the transaction. The approval shall include a finding that the loan will not expose the lending SAWPA Fund or Project to significant financial or operational risk.
2. Unless otherwise provided for by the Commission, the borrowing Fund, Project or public agency shall be required to repay the loan within a specific period of time and at a rate of interest as determined by the Commission. For the purposes of this policy, SAWPA's calculated quarterly rate of return may be used as the basis for interest payable on the outstanding principal for any loan. The period for repayment of the loan shall be determined by the Commission, but shall be no longer than the life of the lending Fund or Project.
3. The borrowing Fund's, Project's or public agency's repayment source shall be identified and included in the approval action by the Commission and the "loan documentation". The "loan documentation" shall include a written agreement, resolution or other document approved by the Commission setting forth all of the foregoing terms and conditions.

4. Loans to reimbursable SAWPA grant contract projects and related efforts for short-term (i.e., current fiscal year) operating cash flow purposes may be borrowed from the SAWPA General Fund Reserve without prior Commission approval. But all such loans shall be reported to the Commission within 30 days of each such loan. Such loans shall be paid off on a continuous basis. The total funds loaned for all such grant contract projects and related efforts shall not exceed \$250,000.00 in the aggregate for each fiscal year, without prior written approval by the Commission. Payment of interest will be based on the actual interest that would have been earned by the SAWPA General Fund Reserve had those funds not been borrowed. Cash flow and receivables will be reported at least quarterly to forecast needs and demonstrate compliance.
5. Prior to June 30th of each year, staff shall provide to the Commission an annual written report of all such Inter-fund, Inter-project or Inter-agency loans, amounts repaid and any outstanding loan balances.

ADOPTED this 13th day of December 2005.

SANTA ANA WATERSHED PROJECT AUTHORITY

By: *Mark W. Bulot*
Mark Bulot, Chair



COMMISSION MEMORANDUM NO. 2024.66

DATE: November 19, 2024
TO: SAWPA Commission
SUBJECT: Performance Indicators and Financial Reporting – September 2024
PREPARED BY: Karen Williams, DGM/CFO

RECOMMENDATION

It is recommended that the Commission receive and file staff's report.

DISCUSSION

The attached reports have been developed to keep the Commission informed as to SAWPA's business and budget performance. These reports are categorized into the following groups: financial reporting, cash and investments, and performance indicators. They are explained in detail below. As new reports are developed, they will be added for the Commission's review.

Financial Reporting

Balance Sheet by Fund Type	Lists total assets, liabilities, and equity by fund type for a given period.
Revenue & Expense by Fund Type	Lists total revenue and expenses by fund type for a given period.
Receivables Management	Shows total outstanding accounts receivable by age.
Open Task Order Schedule	Shows SAWPA's total outstanding obligation for open task orders.
List of SAWPA Funds	Shows each SAWPA Fund with the fund description and fund group.
Debt Service Funding Analysis	Shows total annual income by source used to make debt service payments through debt maturity at FYE 2048.
Debt Service Payment Schedule	Shows total debt service interest and principal payments through debt maturity at FYE 2048.

Cash and Investments

Total Cash and Investments (chart)	Shows the changes in cash and investments balance for the last twelve months.
Cash Balance & Source of Funds	Shows total cash and investments for all SAWPA funds and the types of investments held for each fund.
Cash & Investments (pie chart)	Shows total cash and investments for all SAWPA funds and the percentage of each investment type.
Reserve Account Analysis	Shows changes to each reserve account for the year and projected ending balance for each.

Twelve Month Security Schedule (chart)	Shows the maturity dates for securities held and percentage of securities in each category.
Treasurer's Report	Shows book and market value for both Treasury strips and securities held by the Agency.

Performance Indicators

Average Daily Flow by Month	Shows total flow in the Brine Line System by month compared to total treatment capacity owned. This is an indicator of the available capacity in the line. As we add yearly flows, it will show trends in flow throughout the year.
Summary of Labor Multipliers	Summarizes the information generated from the following two reports and compares the actual benefit and Indirect Cost Allocation rates to the total budgeted rates.
General Fund Costs	Lists total Fund No. 100 costs to date and the amount of those costs recovered through the Indirect Cost Allocation and member contributions.
Benefit Summary	Lists total employee benefit costs actual to budget and projects them through the end of the year. This report compares how the actual benefit rate compares to the budgeted rate.
Labor Hours Budget vs. Actual	Shows total budgeted hours for each project and compares them to the actual hours charged to each.

RESOURCE IMPACTS

Staff expects minimal impacts to SAWPA or its member agencies related to this effort.

Attachments:

- | | |
|---------------------------------------|---|
| 1. Balance Sheet by Fund Type | 10. Reserve Account Analysis |
| 2. Revenue & Expense by Fund Type | 11. Twelve-Month Maturity Schedule - Securities |
| 3. Accounts Receivable Aging Report | 12. Treasurer's Report |
| 4. Open Task Order Schedule | 13. Average Daily Flow by Month |
| 5. List of SAWPA Funds | 14. Summary of Labor Multipliers |
| 6. Debt Service Funding Analysis | 15. General Fund Costs |
| 7. Debt Service Payment Schedule | 16. Benefits |
| 8. Total Cash and Investments (chart) | 17. Labor Hours Budgeted vs. Actual |
| 9. Cash Balance & Source of Funds | |

Santa Ana Watershed Project Authority
Balance Sheet by Fund Type
For the Two Months Ending Saturday, August 31, 2024

	General Fund	Brine Line Enterprise	Capital Projects	OWOW Projects	Roundtable Projects	Fund Totals
Assets						
Current Assets						
Cash and Investments	\$3,987,046.58	\$64,057,253.17	(\$33,006.64)	\$1,843,639.87	\$2,900,909.96	\$72,755,842.94
Accounts Receivable	0.00	2,457,696.91	0.00	5,451,110.64	568,750.87	8,477,558.42
Prepays and Deposits	50,009.19	159,281.49	0.00	0.00	0.00	209,290.68
Total Current Assets	4,037,055.77	66,674,231.57	(33,006.64)	7,294,750.51	3,469,660.83	81,442,692.04
Fixed Assets						
Property, Plant & Equipment						
less accum depreciation	1,422,422.83	67,768,818.13	0.00	0.00	0.00	69,191,240.96
Work In Process	0.00	2,663,257.17	695,160.20	0.00	0.00	3,358,417.37
Total fixed assets	1,422,422.83	70,432,075.30	695,160.20	0.00	0.00	72,549,658.33
Other Assets						
Wastewater treatment/disposal						
rights, net of amortization	0.00	19,529,036.57	0.00	0.00	0.00	19,529,036.57
Inventory - Mitigation Credits	0.00	0.00	0.00	0.00	1,910,560.00	1,910,560.00
Leased Assets, net of amortization	20,763.25	151,883.84	0.00	0.00	0.00	172,647.09
Total Other Assets	20,763.25	19,680,920.41	0.00	0.00	1,910,560.00	21,612,243.66
Total Assets	\$5,480,241.85	\$156,787,227.28	\$662,153.56	\$7,294,750.51	\$5,380,220.83	\$175,604,594.03
Liabilities and Fund Equity						
Current Liabilities						
Accounts Payable/Accrued						
Expenses	\$4,466,159.80	\$1,248,334.10	\$6,788.75	\$4,599,779.96	\$37,433.54	\$10,358,496.15
Accrued Interest Payable	0.00	169,527.34	0.00	0.00	0.00	169,527.34
Customer Deposits	0.00	666.53	0.00	0.00	0.00	666.53
Noncurrent Liabilities						
Long-term Debt	0.00	21,009,918.90	0.00	0.00	0.00	21,009,918.90
Lease Liability	20,881.27	154,009.80	0.00	0.00	0.00	174,891.07
Deferred Revenue	0.00	55,159,506.26	0.00	0.00	0.00	55,159,506.26
Total Liabilities	4,487,041.07	77,741,962.93	6,788.75	4,599,779.96	37,433.54	86,873,006.25
Fund Equity						
Contributed Capital	0.00	20,920,507.03	0.00	0.00	0.00	20,920,507.03
Retained Earnings	2,300,988.76	54,729,095.20	3,193,915.75	1,708,559.40	4,521,033.11	66,453,592.22
Revenue Over/Under Expenditures	(1,307,787.98)	3,395,662.12	(2,538,550.94)	986,411.15	821,754.18	1,357,488.53
Total Fund Equity	993,200.78	79,045,264.35	655,364.81	2,694,970.55	5,342,787.29	88,731,587.78
Total Liabilities & Fund Equity	\$5,480,241.85	\$156,787,227.28	\$662,153.56	\$7,294,750.51	\$5,380,220.83	\$175,604,594.03

Santa Ana Watershed Project Authority
Revenue & Expenses by Fund Type
For the Two Months Ending Saturday, August 31, 2024

	General Fund	Brine Line Enterprise	Capital Projects	OWOW Projects	Roundtable Projects	Fund Totals
Operating Revenue						
Discharge Fees	\$0.00	\$2,248,997.36	\$0.00	\$0.00	\$0.00	\$2,248,997.36
Grant Proceeds	1,040.00	0.00	0.00	(3,883,182.49)	0.00	(3,882,142.49)
Financing Proceeds	0.00	0.00	0.00	0.00	39,639.60	39,639.60
Total Operating Revenue	<u>1,040.00</u>	<u>2,248,997.36</u>	<u>0.00</u>	<u>(3,883,182.49)</u>	<u>39,639.60</u>	<u>(1,593,505.53)</u>
Operating Expenses						
Labor	404,437.31	251,355.05	161.70	109,085.86	28,095.63	793,135.55
Benefits	95,329.74	91,493.24	58.86	39,707.27	10,226.83	236,815.94
Indirect Costs	0.00	411,216.86	264.54	178,464.45	45,964.43	635,910.28
Education & Training	11,965.16	0.00	0.00	0.00	0.00	11,965.16
Consulting & Professional Services	55,155.91	52,052.19	0.00	100,148.56	45,083.02	252,439.68
Operating Costs	967.30	491,833.99	0.00	0.00	0.00	492,801.29
Repair & Maintenance	13,846.40	557.25	0.00	0.00	0.00	14,403.65
Phone & Utilities	20,227.33	1,429.40	0.00	0.00	0.00	21,656.73
Equipment & Computers	84,972.09	28,519.13	0.00	0.00	0.00	113,491.22
Meeting & Travel	11,466.17	1,125.94	0.00	384.61	71.69	13,048.41
Other Administrative Costs	36,744.63	27,788.56	0.00	18,200.00	10,000.00	92,733.19
Indirect Costs Applied	(636,827.81)	0.00	0.00	0.00	0.00	(636,827.81)
Other Expenses	12,581.64	41,175.88	0.00	0.00	0.00	53,757.52
Construction	0.00	0.00	0.00	(3,708,184.39)	0.00	(3,708,184.39)
Total Operating Expenses	<u>110,865.87</u>	<u>1,398,547.49</u>	<u>485.10</u>	<u>(3,262,193.64)</u>	<u>139,441.60</u>	<u>(1,612,853.58)</u>
Operating Income (Loss)	(109,825.87)	850,449.87	(485.10)	(620,988.85)	(99,802.00)	19,348.05
Nonoperating Income (Expense)						
Member Contributions	712,910.00	0.00	0.00	1,528,500.00	20,000.00	2,261,410.00
Participant Fees	0.00	0.00	0.00	78,900.00	899,364.99	978,264.99
Interest Income	0.00	265,954.55	0.00	0.00	0.00	265,954.55
Other Income	81.58	33.38	0.00	0.00	0.00	114.96
Retiree Medical Benefits	(14,872.47)	0.00	0.00	0.00	0.00	(14,872.47)
Total Nonoperating Income (Expense)	<u>698,119.11</u>	<u>265,987.93</u>	<u>0.00</u>	<u>1,607,400.00</u>	<u>919,364.99</u>	<u>3,490,872.03</u>
Excess Rev over (under) Exp	<u>\$588,293.24</u>	<u>\$1,116,437.80</u>	<u>(\$485.10)</u>	<u>\$986,411.15</u>	<u>\$819,562.99</u>	<u>\$3,510,220.08</u>

Aging Report
Santa Ana Watershed Project Authority
Receivables as of
September 30, 2024

Customer Name	Project	Total	0-30 Days	31-60 Days	61 and Over
Beaumont, City of	Brine Line	2,399.88	2,399.88		
Chino Basin Desalter Authority	Brine Line	184,132.17		184,132.17	
Corona, City of	Basin Monitoring, Emerging Constituents	37,253.44			37,253.44
Department of Water Resources	Prop 84, Prop 1	5,304,679.03			5,304,679.03
Eastern Municipal Water District	Brine Line	231,756.39	17,793.75	213,962.64	
Environmental Management Technologies	Brine Line	250.00			250.00
Greater Los Angeles County IRWM	Roundtable of Regions	10,300.00		10,300.00	
Inland Empire Utilities Agency	Brine Line	121,746.34		121,746.34	
Orange County Public Works	Brine Line	210,010.15			210,010.15
Rialto, City of	Basin Monitoring	28,484.21			28,484.21
Rialto Bionergy Solutions	Brine Line	8,896.88	8,896.88		
Riverside, City of Wastewater Treatment	MSAR TMDL	12,605.00			12,605.00
Riverside, City of	WECAN Grant	6,526.23			6,526.23
Riverside County Flood Control	MSAR TMDL	12,605.00			12,605.00
SB Industrial Vacuum Services	Brine Line	250.00			250.00
San Bernardino County Flood Control District	MSAR TMDL	113,447.00			113,447.00
San Bernardino Valley Municipal Water District	Brine Line	151,850.06		151,850.06	
San Diego, City of	Roundtable of Regions	2,600.00		2,600.00	
Triumvirate Environmental	Brine Line	250.00			250.00
University of California, Riverside	MSAR TMDL	12,605.00			12,605.00
Western Municipal Water District	Brine Line	436,341.69		436,341.69	
Total Accounts Receivable		6,888,988.47	26,690.63	1,120,932.90	5,738,965.06

Santa Ana Watershed Project Authority
Open Task Orders
Sep-24
(Reflects Invoices Received as of 10/16/2024)

Task Order No. Project Contracts	Fund No.	Vendor Name	Task Description	Begin Date	End Date	Original Contract	Change Orders	Total Contract	Billed To Date	Contract Balance	SAWPA Manager
ACS100-26	100-00	VC3, Inc.	IT Services	01/01/2023	12/31/2026	\$ 288,000.00	\$ -	\$ 288,000.00	\$ 152,934.79	\$ 135,065.21	Dean Unger
ENSO100-01	100-00	Endeavour Solutions, Inc.	GP Study and Support FY 2024-2025	07/01/2024	06/30/2025	\$ 18,385.00	\$ -	\$ 18,385.00	\$ 7,332.50	\$ 11,052.50	Dean Unger
FEBR100-01	100-00	C.J. Brown & Company	Professional Audit Services	04/19/2022	06/30/2025	\$ 78,980.00	\$ -	\$ 78,980.00	\$ 57,218.00	\$ 21,762.00	Karen Williams
GPA100-02	100-00	Gillis & Panichapan Architects	Lobby Security Improvements - Bid Documents and Support	04/19/2023	12/31/2024	\$ 74,600.00	\$ -	\$ 74,600.00	\$ 53,965.00	\$ 20,635.00	David Ruhl
INSOL100-25	100-00	Integrated Systems Solutions	GP Support Extension Handover to Endeavour	07/01/2024	11/01/2024	\$ 2,000.00	\$ -	\$ 2,000.00	\$ -	\$ 2,000.00	Dean Unger
KON100-12	100-00	Konica Minolta - Rental	New Copiers 2024-2028	09/01/2024	09/01/2028	\$ 66,228.96	\$ -	\$ 66,228.96	\$ 2,435.59	\$ 63,793.37	Dean Unger
LSGK100-13	100-00	Lagerlof, LLP	Legal Services	07/01/2024	06/30/2025	\$ 94,720.00	\$ -	\$ 94,720.00	\$ 19,004.00	\$ 75,716.00	Jeff Mosher
NSL100-03	100-00	Nate Sassaman Leadership	SAWPA Staff Leadership Program	07/01/2024	12/31/2024	\$ 21,500.00	\$ -	\$ 21,500.00	\$ 14,332.00	\$ 7,168.00	Shavonne Turner
NSL100-04	100-00	Nate Sassaman Leadership	SAWPA Executive Coaching	07/01/2024	12/31/2024	\$ 2,000.00	\$ -	\$ 2,000.00	\$ 937.00	\$ 1,063.00	Shavonne Turner
SOL100-18	100-00	Sol Media	Website Related Changes	07/01/2024	06/30/2025	\$ 20,400.00	\$ -	\$ 20,400.00	\$ 3,810.00	\$ 16,590.00	Dean Unger
ZHAP100-01	100-00	Zhappo Studios	On-Demand Graphic Design Services	01/29/2024	01/29/2025	\$ 7,310.00	\$ -	\$ 7,310.00	\$ 1,555.50	\$ 5,754.50	Karen Williams
WCA100-03-06	100-03	West Coast Advisors	State Legislative Consulting Services	01/01/2024	12/31/2024	\$ 117,000.00	\$ -	\$ 117,000.00	\$ 97,500.00	\$ 19,500.00	Jeff Mosher
WO2025-20	240	E S Babcock	Wastewater Sample Collection and Analysis	07/01/2024	06/30/2025	\$ 88,295.50	\$ -	\$ 88,295.50	\$ 20,807.23	\$ 67,488.27	David Ruhl
WO2025-21	240	E S Babcock	Special Events Sample Collection and Analysis	07/01/2024	06/30/2025	\$ 20,000.00	\$ -	\$ 20,000.00	\$ -	\$ 20,000.00	David Ruhl
DUDK240-07	240	Dudek	Inland Empire Brine Line Master Plan	11/01/2022	01/31/2025	\$ 399,980.00	\$ -	\$ 399,980.00	\$ 383,831.52	\$ 16,148.48	David Ruhl
DUDK240-10	240	Dudek	Brine Line Sewer System Management Plan Audit 2024	07/01/2024	06/30/2025	\$ 28,220.00	\$ -	\$ 28,220.00	\$ 11,230.00	\$ 16,990.00	Daniel Vasquez
DUDK240-11	240	Dudek	Hydraulic Modeling Assistance FY 2024-2025	07/01/2024	06/30/2025	\$ 25,000.00	\$ -	\$ 25,000.00	\$ 1,207.50	\$ 23,792.50	David Ruhl
DUDK240-12	240	Dudek	Inland Empire Brine Line Engineering Services FY 2024-25	07/01/2024	06/30/2025	\$ 15,000.00	\$ -	\$ 15,000.00	\$ -	\$ 15,000.00	David Ruhl
GIS240-01	240	GIS Surveying	On-Call Surveying Services	07/01/2023	06/30/2025	\$ 22,402.50	\$ -	\$ 22,402.50	\$ -	\$ 22,402.50	Daniel Vasquez
INN240-06	240	Innerline Engineering	Brine Line Pipeline Cleaning Services	07/01/2024	06/30/2026	\$ 316,700.00	\$ -	\$ 316,700.00	\$ -	\$ 316,700.00	Daniel Vasquez
INN240-07	240	Innerline Engineering	On-Call CCTV	07/01/2024	06/30/2026	\$ 102,530.00	\$ -	\$ 102,530.00	\$ -	\$ 102,530.00	Daniel Vasquez
PAT240-01	240	Patriot Environmental Services	On-Call Draining and Emergency Response	07/01/2023	06/30/2025	\$ 121,760.00	\$ -	\$ 121,760.00	\$ -	\$ 121,760.00	Daniel Vasquez
PE240-01	240	PE Instruments	Brine Line Flow Meter Calibration Services	07/01/2024	06/30/2026	\$ 19,950.00	\$ -	\$ 19,950.00	\$ -	\$ 19,950.00	Daniel Vasquez
TRU240-27	240	Trussell Technologies, Inc	Brine Line Billing Formula Update Study	10/15/2024	08/31/2025	\$ 154,390.00	\$ -	\$ 154,390.00	\$ -	\$ 154,390.00	Lucas Gilbert
W&C320-01	320-03	Woodard & Curran	Reach IV and IV-B DIP Condition Assessment	02/09/2023	06/30/2025	\$ 392,356.00	\$ 65,113.00	\$ 457,469.00	\$ 353,924.10	\$ 103,544.90	Daniel Vasquez
W&C327-03	327	Woodard & Curran	IEBL Reach IV-D Rehabilitation Work Plan Mid-Term Recommendations	09/05/2023	01/31/2025	\$ 247,174.00	\$ -	\$ 247,174.00	\$ 206,732.23	\$ 40,441.77	Daniel Vasquez
WSC373-03	373	Water Systems Consulting	FYE 2025 Roundtable of Regions Network Coordinator	08/22/2024	06/30/2025	\$ 72,900.00	\$ -	\$ 72,900.00	\$ -	\$ 72,900.00	Ian Achimore

Santa Ana Watershed Project Authority
Open Task Orders
Sep-24
(Reflects Invoices Received as of 10/16/2024)

Task Order No. Project Contracts	Fund No.	Vendor Name	Task Description	Begin Date	End Date	Original Contract	Change Orders	Total Contract	Billed To Date	Contract Balance	SAWPA Manager
CWE374-01	374	CWE	Basin Monitoring Program Task Force SAR Surface Water Quality Monitoring	09/05/2023	02/15/2027	\$ 93,711.00	\$ -	\$ 93,711.00	\$ 34,256.89	\$ 59,454.11	Ian Achimore
KSC374-03	374	Kahn, Soares, & Conway	Basin Monitoring TF Regulatory Support	07/01/2023	06/30/2025	\$ 133,000.00	\$ -	\$ 133,000.00	\$ 63,830.41	\$ 69,169.59	Rachel Gray
WEST374-02	374	West Yost	Ambient Water Quality Pilot Study for Nitrogen and TDS	12/30/2022	03/31/2025	\$ 339,960.00	\$ -	\$ 339,960.00	\$ 274,482.70	\$ 65,477.30	Rachel Gray
CDM377-02	377	CDM Smith, Inc.	PFAS Regional Analysis for Upper Santa Ana River Watershed - Phase 2	11/21/2023	11/30/2024	\$ 465,917.00	\$ -	\$ 465,917.00	\$ 274,482.70	\$ 191,434.30	Rachel Gray
DRI378-01	378	Board of Regents of the Nevada System of Higher Education	Weather Modification Pilot Validation	10/26/2022	10/17/2027	\$ 155,000.00	\$ -	\$ 155,000.00	\$ 24,897.57	\$ 130,102.43	Rachel Gray
NAWC370-03	378	North American Weather Consultants	SAR Weather Modification Pilot Operations	07/01/2022	04/15/2027	\$ 1,061,912.00	\$ 35,160.00	\$ 1,097,072.00	\$ 356,678.90	\$ 740,393.10	David Ruhl
GEI384-02	384-01	GEI Consultants	MSAR TMDL - Limited Basin Plan Amendment Revisions	07/01/2022	12/31/2024	\$ 67,000.00	\$ -	\$ 67,000.00	\$ 53,446.25	\$ 13,553.75	Rick Whetsel
KSC384-03	384-01	Kahn, Soares, & Conway	MSAR Pathogen TMDL TF Regulatory Support	07/01/2023	06/30/2025	\$ 148,500.00	\$ -	\$ 148,500.00	\$ 16,280.00	\$ 132,220.00	Rick Whetsel
GEI386-02	386	GEI Consultants	Santa Ana River Regional Bacteria Monitoring Program	02/01/2024	06/30/2027	\$ 1,191,054.00	\$ -	\$ 1,191,054.00	\$ 109,943.32	\$ 1,081,110.68	Rick Whetsel
IERCD387-01	387	Inland Empire Resource Conservation District	Arundo Donax Removal in the SAR Basin Headwaters	07/19/2022	12/31/2027	\$ 147,777.07	\$ -	\$ 147,777.07	\$ 70,266.32	\$ 77,510.75	Ian Achimore
JPW392-02	392	JPW Communications	Emerging Constituents Program Public Relations Support	07/01/2023	06/30/2025	\$ 114,954.00	\$ -	\$ 114,954.00	\$ 77,031.28	\$ 37,922.72	Rachel Gray
KSC392-03	392	Kahn, Soares, & Conway	Emerging Constituents Program TF Regulatory Support	07/01/2023	06/30/2025	\$ 48,000.00	\$ -	\$ 48,000.00	\$ 6,160.00	\$ 41,840.00	Rachel Gray
ECOT397-04	397	EcoTech Services	WECAN Riverside Eastside Climate Collaborative Landscaping	07/19/2022	12/31/2025	\$ 567,150.00	\$ -	\$ 567,150.00	\$ 116,552.33	\$ 450,597.67	Rick Whetsel
QUAN504-01	504-04	Quantum Spatial, Inc.	Water Efficiency Budget Assistance	02/10/2021	04/30/2025	\$ 594,387.00	\$ 39,599.00	\$ 633,986.00	\$ 623,997.82	\$ 9,988.18	Ian Achimore
RMC504-401-11	504-04	Woodard & Curran	SARCCUP Program Mgmt. Services	07/01/2024	06/30/2025	\$ 136,098.00	\$ -	\$ 136,098.00	\$ 30,952.50	\$ 105,145.50	Ian Achimore

\$ 4,564,992.87

LIST OF SAWPA FUNDS

Fund No.	Fund Description	Fund Group
100-00	General Fund	General
100-03	State Legislative/Regulatory Outreach	General
100-04	Federal Legislative/Regulatory Outreach	General
145	Proposition 84 – Program Management – 2015 Round	OWOW
150	Proposition 1 – R1 Program Management	OWOW
155	Proposition 1 – R2 Program Management	OWOW
240	Brine Line Enterprise	Brine Line
320-01	Brine Line Protection – Downstream Prado	Capital Projects
320-03	Brine Line Protection Above Prado	Capital Projects
320-04	Brine Line Protection D/S Prado in Riverside County	Capital Projects
327	Reach IV-D Corrosion Repair	Capital Projects
328	Aqua Mansa Lateral Project	Capital Projects
370-01	Basin Planning General	OWOW
370-02	USBR Partnership Studies	OWOW
373	Watershed Management (OWOW)	OWOW
374	Basin Monitoring Program Task Force	Roundtable
376	Integrated Climate Adaptation & Resilience Program	OWOW
377	PFAS Study	OWOW
378	Weather Modification	OWOW
381	Santa Ana River Fish Conservation	Roundtable
384-01	MSAR TMDL Task Force	Roundtable
386	Regional Water Quality Monitoring Task Force	Roundtable
387	Arundo Management & Habitat Restoration	Roundtable
392	Emerging Constituents Task Force	Roundtable
397	Energy – Water DAC Grant Project	OWOW
398	DCI 2021 Drought Relief Grant	OWOW
477	LESJWA Administration	Roundtable
504-01	Proposition 84 – Capital Projects Round 1 & 2	OWOW
504-04	Proposition 84 – Final Round SARCCUP	OWOW
505-00	Proposition 1 – SAWPA Capital Projects	OWOW
505-01	Proposition 1 – Round I Capital Projects	OWOW
505-02	Proposition 1 – Round II Capital Projects	OWOW

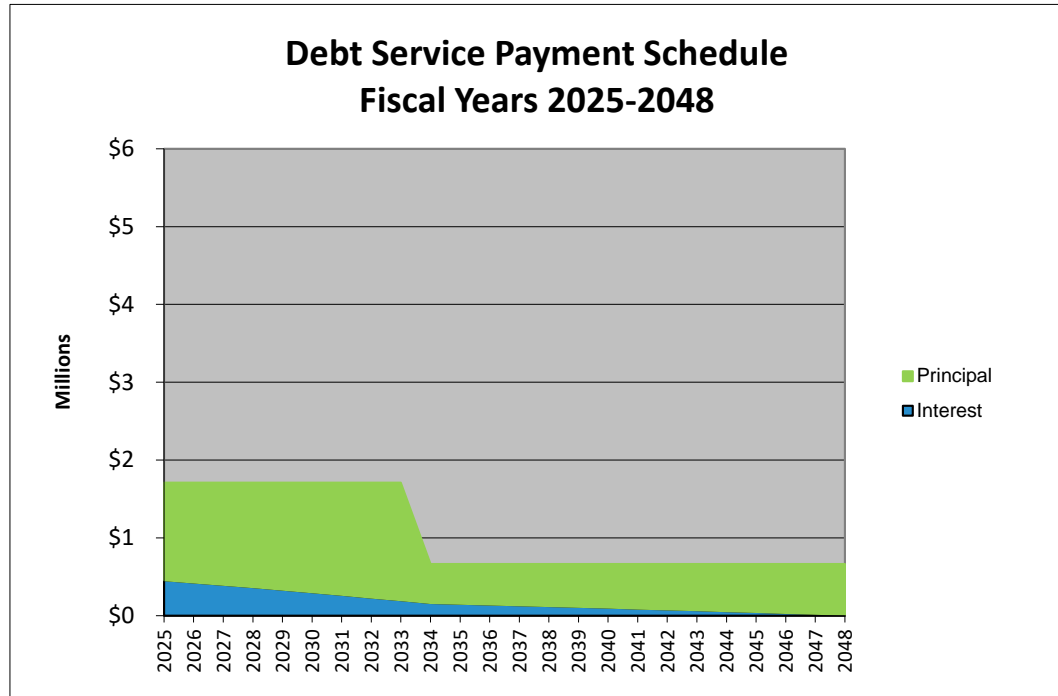
Santa Ana Watershed Project Authority
 Brine Line Debt Service Funding Analysis
 September 30, 2024

FYE	Rates	Loan Pymts	Interest Earned *	Excess Cash	Ending Cash Balance
Beginning Balance					3,011,686
2025	1,709,476	(1,709,476)	90,351	90,351	3,102,037
2026	1,709,476	(1,709,476)	93,061	93,061	3,195,098
2027	1,709,476	(1,709,476)	95,853	95,853	3,290,951
2028	1,709,476	(1,709,476)	98,729	98,729	3,389,679
2029	1,709,476	(1,709,476)	101,690	101,690	3,491,369
2030	1,709,476	(1,709,476)	104,741	104,741	3,596,111
2031	1,709,476	(1,709,476)	107,883	107,883	3,703,994
2032	1,709,476	(1,709,476)	111,120	111,120	3,815,114
2033	1,709,476	(1,709,476)	114,453	114,453	3,929,567
2034	665,203	(665,203)	117,887	117,887	4,047,454
2035	665,203	(665,203)	121,424	121,424	4,168,879
2036	665,203	(665,203)	125,066	125,066	4,293,944
2037	665,203	(665,203)	128,818	128,818	4,422,763
2038	665,203	(665,203)	132,683	132,683	4,555,445
2039	665,203	(665,203)	136,663	136,663	4,692,109
2040	665,203	(665,203)	140,763	140,763	4,832,872
2041	665,203	(665,203)	144,986	144,986	4,977,858
2042	665,203	(665,203)	149,336	149,336	5,127,194
2043	665,203	(665,203)	153,816	153,816	5,281,010
2044	665,203	(665,203)	158,430	158,430	5,439,440
2045	665,203	(665,203)	163,183	163,183	5,602,623
2046	665,203	(665,203)	168,079	168,079	5,770,702
2047	665,203	(665,203)	173,121	173,121	5,943,823
2048	665,203	(665,203)	178,315	178,315	6,122,138
	25,363,319	(25,363,319)	3,110,452	3,110,452	-

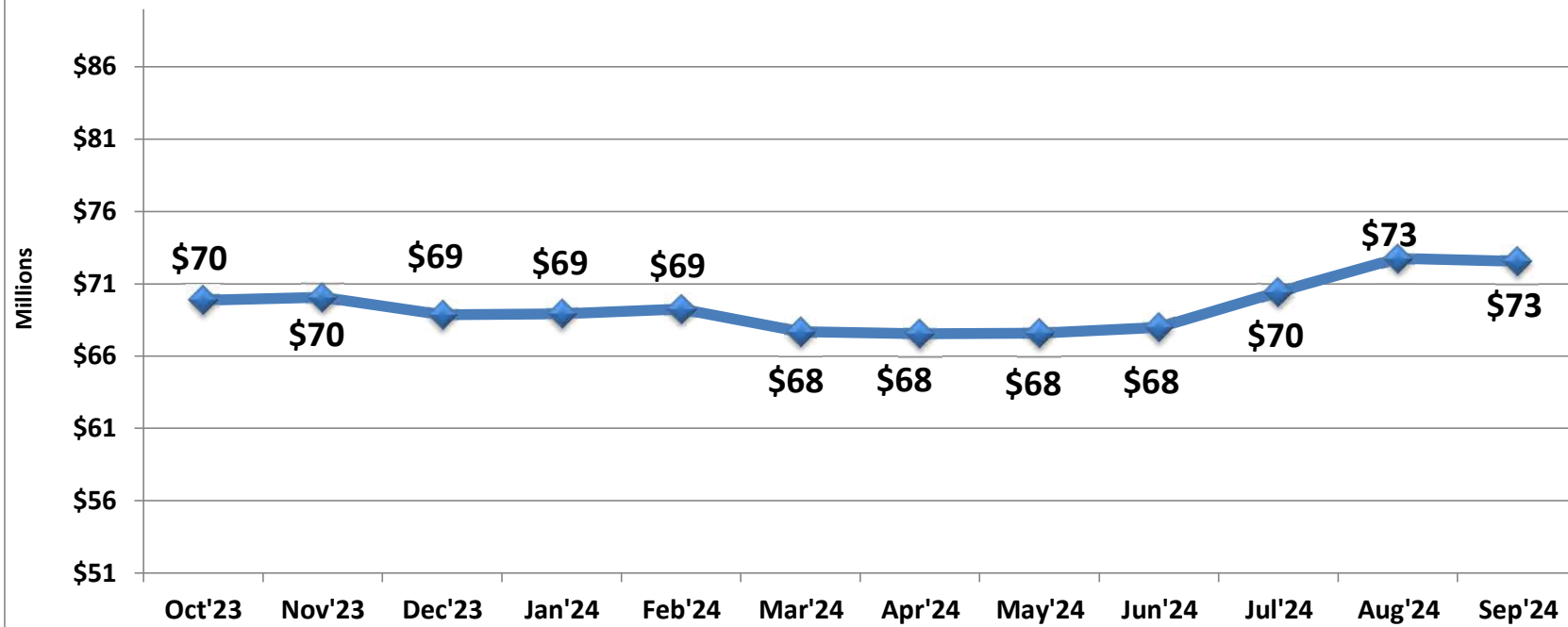
*Interest earned is based on a conservative 3.00% average return over the period

Santa Ana Watershed Project Authority
 Brine Line Debt Service Payment Schedule
 September 30, 2024

FYE	Interest	Principal	Total Payment	Remaining Principal
2025	457,181	1,252,295	1,709,476	19,757,624
2026	427,585	1,281,891	1,709,476	18,475,733
2027	397,276	1,312,199	1,709,476	17,163,534
2028	366,237	1,343,239	1,709,476	15,820,295
2029	334,449	1,375,027	1,709,476	14,445,268
2030	301,894	1,407,582	1,709,476	13,037,686
2031	268,553	1,440,923	1,709,476	11,596,763
2032	234,407	1,475,068	1,709,476	10,121,694
2033	199,437	1,510,039	1,709,476	8,611,656
2034	163,621	501,581	665,203	8,110,075
2035	154,091	511,111	665,203	7,598,964
2036	144,380	520,822	665,203	7,078,141
2037	134,485	530,718	665,203	6,547,424
2038	124,401	540,801	665,203	6,006,622
2039	114,126	551,077	665,203	5,455,545
2040	103,655	561,547	665,203	4,893,998
2041	92,986	572,217	665,203	4,321,782
2042	82,114	583,089	665,203	3,738,693
2043	71,035	594,167	665,203	3,144,526
2044	59,746	605,457	665,203	2,539,069
2045	48,242	616,960	665,203	1,922,109
2046	36,520	628,682	665,203	1,293,427
2047	24,575	640,627	665,203	652,799
2048	12,403	652,799	665,203	(0)



Total Cash & Investments





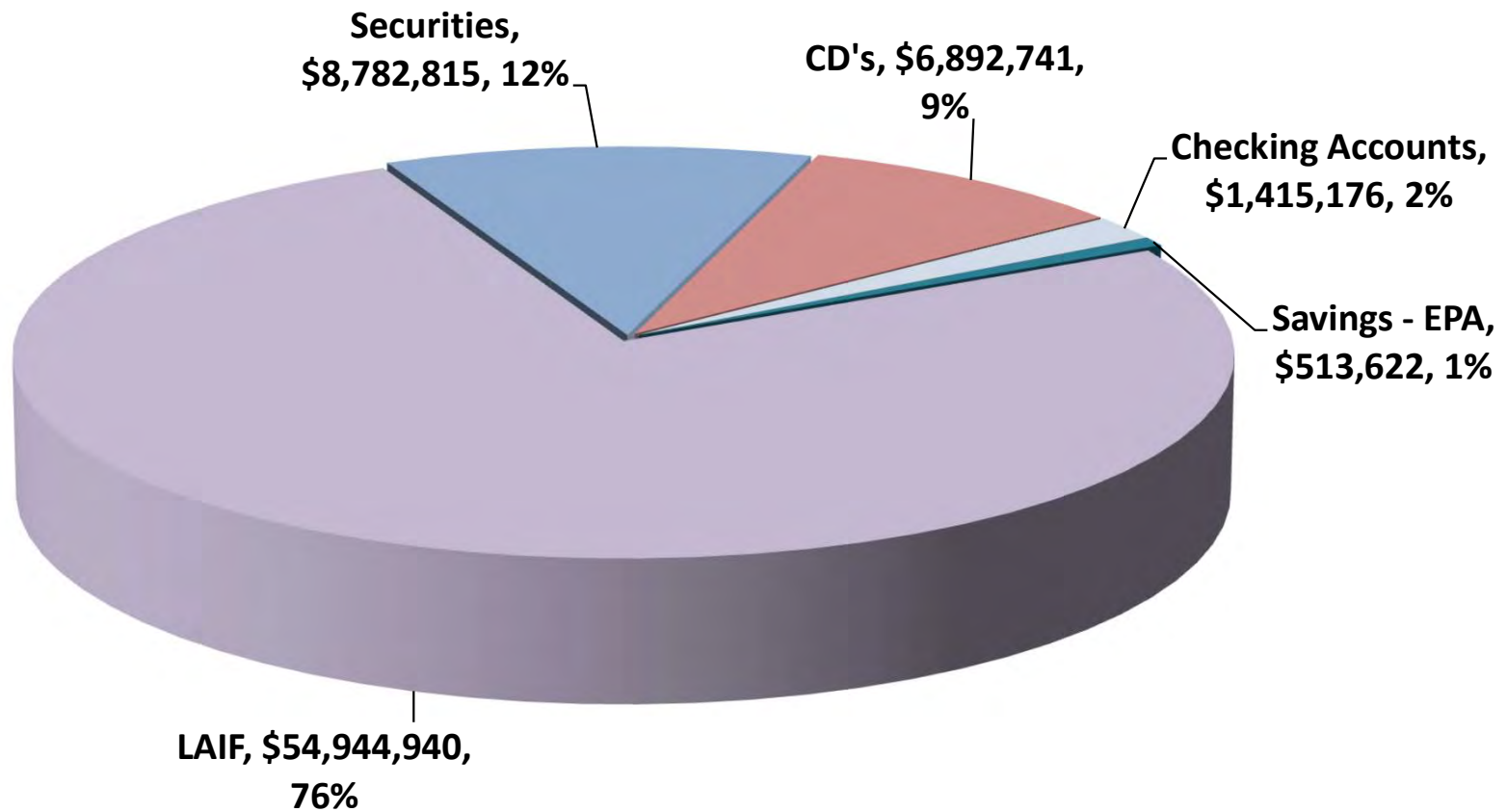
CASH BALANCE & SOURCE OF FUNDS

September 30, 2024

Fund Accounts		Cash and Investments						
		Total	Checking (Cash)	LAIF Account	Savings EPA	Investment Securities	Certificates of Deposit	Total
100	General Fund	\$ 2,232,578	1,415,176	817,402	-	-	-	\$ 2,232,578
100	Building Reserve	\$ 778,238	-	778,238	-	-	-	\$ 778,238
370	Basin Planning General	\$ 312,863	-	312,863	-	-	-	\$ 312,863
370	USBR Partnership Studies	\$ 67,539	-	67,539	-	-	-	\$ 67,539
373	Watershed Management Plan	\$ 487,534	-	487,534	-	-	-	\$ 487,534
240	Brine Line Debt Retirement	\$ 3,011,686	-	3,011,686	-	-	-	\$ 3,011,686
240	Brine Line - Pipeline Replacement & Capital Improvement	\$ 36,643,173	-	20,967,617	-	8,782,815	6,892,741	\$ 36,643,173
240	Brine Line - OC San Pipeline Rehabilitation	\$ 3,036,460	-	3,036,460	-	-	-	\$ 3,036,460
240	Brine Line - Pipeline Capacity Management	\$ 12,808,111	-	12,808,111	-	-	-	\$ 12,808,111
240	Brine Line - OC San Future Treatment & Disposal Capacity	\$ 1,960,963	-	1,960,963	-	-	-	\$ 1,960,963
240	Brine Line - Operating Reserve	\$ 2,288,059	-	2,288,059	-	-	-	\$ 2,288,059
240	Brine Line - Operating Cash	\$ 3,970,580	-	3,970,580	-	-	-	\$ 3,970,580
401	Legal Defense Fund	\$ 513,622	-	-	513,622	-	-	\$ 513,622
374	Basin Monitoring Program TF	\$ 1,114,255	-	1,114,255	-	-	-	\$ 1,114,255
377	PFAS Study	\$ 863,006	-	863,006	-	-	-	\$ 863,006
378	Cloud Seeding	\$ 112,786	-	112,786	-	-	-	\$ 112,786
381	SAR Fish Conservation	\$ 122,149	-	122,149	-	-	-	\$ 122,149
384	Middle SAR TMDL TF	\$ 318,527	-	318,527	-	-	-	\$ 318,527
386	RWQ Monitoring TF	\$ 131,256	-	131,256	-	-	-	\$ 131,256
387	Mitigation Bank Credits	\$ 748,960	-	748,960	-	-	-	\$ 748,960
392	Emerging Constituents TF	\$ 253,106	-	253,106	-	-	-	\$ 253,106
397	WECAN - City of Riverside	\$ 9,217	-	9,217	-	-	-	\$ 9,217
504	Prop 84 - SARCCUP Projects	\$ 682,345	-	682,345	-	-	-	\$ 682,345
505	Prop 1 - Capital Projects	\$ 82,280	-	82,280	-	-	-	\$ 82,280
		\$ 72,549,294	\$ 1,415,176	\$ 54,944,940	\$ 513,622	\$ 8,782,815	\$ 6,892,741	\$ 72,549,294

Cash & Investments - September 2024

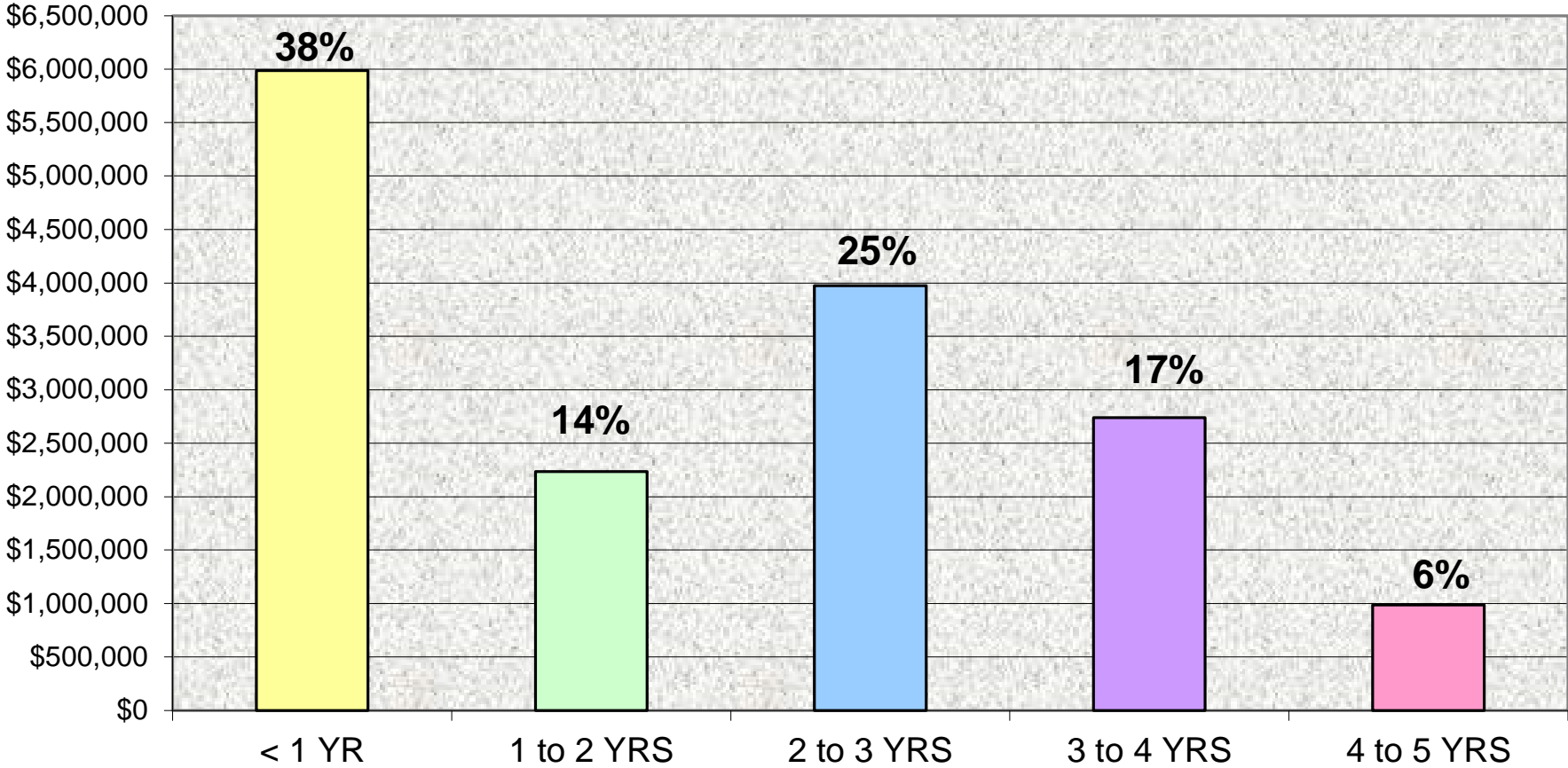
\$72,549,294



Santa Ana Watershed Project Authority
Reserve Account Analysis
September 30, 2024

Reserve Account	Balance @ 6/30/2024	Interest Earned	Fund Receipts/ Contributions	Inter-Fund Loans	Fund Expenses	Balance @ 9/30/2024	Estimated Fund Changes	Balance @ 6/30/2025
Brine Line Operating Cash	4,429,327	20,933	3,748,566		(4,228,246)	3,970,580		3,970,580
Brine Line Operating Reserve	2,240,462	47,597				2,288,059		2,288,059
OC San Future Treatment & Disposal Capacity	1,940,030	20,933				1,960,963		1,960,963
Pipeline Capacity Management	12,671,389	136,722				12,808,111		12,808,111
Pipeline Replacement & Capital Investment	34,149,034	197,167	2,462,152		(165,181)	36,643,173	(1,704,832)	34,938,341
OC San Pipeline Rehabilitation	2,849,924	30,750	155,786			3,036,460		3,036,460
Debt Retirement	2,979,538	32,148				3,011,686		3,011,686
General Fund	1,949,870	30,234	723,554	(985,735)	514,654	2,232,578		2,232,578
Building Reserve	620,007	6,687	100,000		51,544	778,238		778,238
	63,829,581	523,170	7,190,058	(985,735)	(3,827,229)	66,729,846	(1,704,832)	65,025,014

Twelve Month Maturity Schedule Securities

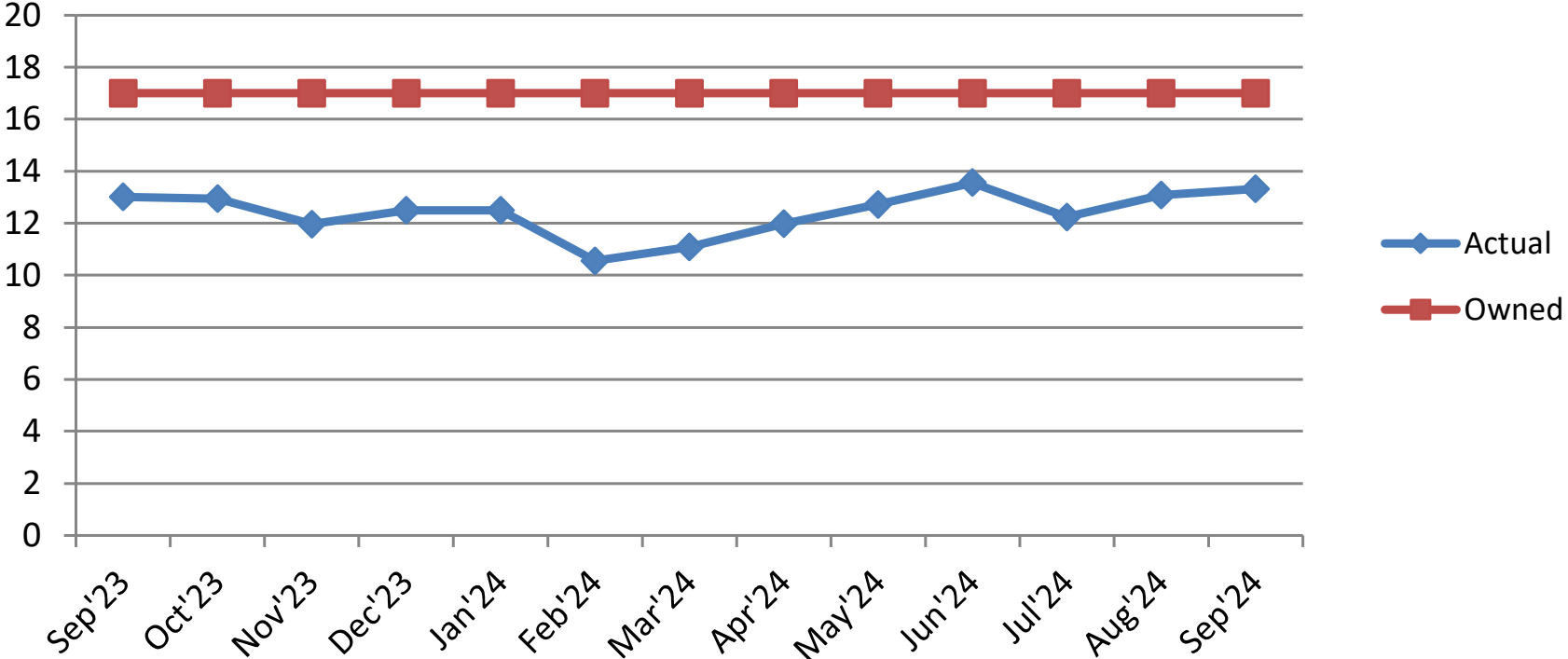


SAWPA
TREASURER'S REPORT
As of September 30, 2024

Investment Commercial
Safekeeping US Bank

Type	Security	Purchase Date	Maturity Date	Unit Cost	Cost	Principal	Current Value	Market Value	Interest Rate
Agency	FHLB	2/4/2020	12/13/2024	106.25	\$ 531,250.00	\$ 500,000.00	\$ 500,000.00	497,952.25	2.750%
Agency	FHLB	8/30/2022	11/27/2024	100.00	\$ 1,000,000.00	\$ 1,000,000.00	\$ 1,000,000.00	998,292.74	3.650%
Agency	FHLB	11/4/2022	9/10/2027	99.20	\$ 991,965.00	\$ 1,000,000.00	\$ 1,000,000.00	1,017,296.90	4.125%
Agency	FHLB	6/6/2023	12/13/2024	99.99	\$ 499,966.50	\$ 500,000.00	\$ 500,000.00	499,954.28	4.625%
Agency	FHLB	10/28/2022	10/3/2024	99.89	\$ 998,910.00	\$ 1,000,000.00	\$ 1,000,000.00	999,935.73	4.500%
Agency	FHLB	6/6/2023	6/9/2028	100.50	\$ 502,505.00	\$ 500,000.00	\$ 500,000.00	508,848.06	4.000%
Agency	FHLB	1/25/2024	6/30/2028	99.73	\$ 999,170.00	\$ 1,000,000.00	\$ 1,000,000.00	1,017,942.36	4.000%
Agency	FNMA	2/4/2020	1/7/2025	101.08	\$ 505,380.00	\$ 500,000.00	\$ 500,000.00	496,041.67	1.625%
Agency	FNMA	10/30/2020	8/25/2025	99.53	\$ 995,952.00	\$ 1,000,000.00	\$ 1,000,000.00	968,428.83	0.375%
Agency	USTN	4/19/2021	11/30/2025	98.25	\$ 982,500.00	\$ 1,000,000.00	\$ 1,000,000.00	961,093.75	0.375%
Agency	USTN	9/15/2021	5/31/2025	99.58	\$ 989,726.56	\$ 1,000,000.00	\$ 1,000,000.00	974,414.06	0.250%
CD	Beal Bank USA	8/17/2022	8/12/2026	100.00	\$ 245,000.00	\$ 245,000.00	\$ 245,000.00	242,197.00	3.200%
CD	Synchrony Bank	8/12/2022	8/12/2025	100.00	\$ 245,000.00	\$ 245,000.00	\$ 245,000.00	243,333.04	3.350%
CD	Capital One Bank USA	5/25/2022	5/25/2027	100.00	\$ 246,000.00	\$ 246,000.00	\$ 246,000.00	242,198.27	3.200%
CD	Morgan Stanley Private Bank	11/15/2022	11/15/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	248,257.69	5.000%
CD	Prime Alliance Bank	11/17/2022	11/17/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	248,160.55	4.950%
CD	Cooperative Center FSU	12/29/2022	12/29/2025	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	251,271.81	4.650%
CD	Affinity Bank	3/17/2023	3/17/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	257,441.41	4.900%
CD	Discover Bank	3/22/2023	3/23/2027	100.00	\$ 243,000.00	\$ 243,000.00	\$ 243,000.00	250,152.48	5.050%
CD	Global Fed CR UN - Alaska	5/12/2023	5/12/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	253,968.81	4.600%
CD	UBS Bank USA	5/17/2023	5/17/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	253,681.72	4.550%
CD	BMW Bank of North America	6/16/2023	6/16/2026	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	246,945.85	4.600%
CD	Farmers Insurance Group	7/26/2023	7/27/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	253,588.37	5.100%
CD	Barclays Bank Delaware	7/26/2023	7/28/2025	100.00	\$ 243,000.00	\$ 243,000.00	\$ 243,000.00	244,787.07	5.100%
CD	Chartway Federal Credit Union	9/8/2023	9/8/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	256,284.85	5.000%
CD	Greenstate Credit Union	9/26/2023	9/26/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	260,434.69	5.000%
CD	Empower Fed Cedit Union	9/29/2023	9/29/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	257,149.21	5.100%
CD	US Alliance Fed Credit Union	9/29/2023	9/29/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	261,381.53	5.100%
CD	Numerica Credit Union	11/10/2023	11/10/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	256,823.87	5.550%
CD	Heritage Community CR UN	11/15/2023	11/16/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	256,417.02	5.450%
CD	Members Trust of SW FCU	1/19/2024	1/19/2029	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,471.32	4.000%
CD	Hughes FCU	1/29/2024	1/29/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,360.92	4.400%
CD	Farmers & Merchants TR	1/30/2024	2/1/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	250,976.24	4.150%
CD	Nicolet National Bank	3/8/2024	3/8/2029	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	255,124.05	4.250%
CD	Medallion Bank	3/13/2024	3/15/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	253,626.40	4.600%
CD	Wells Fargo Bank	3/12/2024	3/12/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	253,084.29	4.500%
CD	Toyota Financial SGS Bank	5/24/2024	5/24/2029	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	253,717.31	4.600%
CD	First Foundation Bank	5/22/2024	5/22/2029	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	253,706.73	4.600%
CD	Alliant Credit Union	12/30/2022	12/30/2025	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	251,578.48	5.100%
					\$ 15,920,325.06	\$ 15,923,000.00	\$ 15,923,000.00	16,001,321.61	4.101%

Average Daily Flow by Month





SUMMARY OF LABOR MULTIPLIERS

		Benefit Rate
Total Employee Benefits	355,261	0.307
Total Payroll	1,159,011	
Gross Indirect Costs	1,184,626	
Less: Member Contributions & Other Revenue	(476,169)	
Indirect Costs for Distribution	708,457	
		Indirect Rate
Direct Labor	596,824	1.187
Indirect Costs	708,457	
FY 2024-25 Labor multiplier - thru 09/30/24		1.494
FY 2024-25 Budgeted Labor multiplier		<u>2.000</u>
FY 2023-24 Labor multiplier		<u>2.060</u>
FY 2022-23 Labor multiplier		<u>1.984</u>
FY 2021-22 Labor multiplier		<u>1.993</u>



INDIRECT COSTS

(to be Distributed)

G/L Acct.	Description	Actual thru 9/30/24
51000	Salaries - Regular	\$ 562,187
52000	Benefits	\$ 204,636
60111	Tuition Reimbursement	\$ -
60112	Training	\$ 6,120
60113	Education	\$ -
60114	Other Training & Education	\$ 5,979
60120	Audit Fees	\$ 16,288
60121	Consulting	\$ 30,898
60126	Temporary Services	\$ -
60128	Other Professional Services	\$ 700
60129	Other Contract Services	\$ -
60130	Legal Fees	\$ 8,112
60145	Permit Fees	\$ -
60153	Materials & Supplies	\$ -
60154	Safety	\$ 2,997
60155	Security	\$ 1,757
60156	Custodial Contract Services	\$ 5,752
60157	Landscaping Maintenance	\$ 5,855
60158	HVAC	\$ 3,731
60159	Facility Repair & Maintenance	\$ 605
60160	Telephone	\$ 16,395
60161	Cellular Services	\$ 2,292
60163	Electricity	\$ 6,570
60164	Water Services	\$ 1,598
60170	Equipment Expensed	\$ 3,212
60171	Equipment Rented	\$ 2,834

(Continued - next column)

G/L Acct.	Description	Actual thru 9/30/24
60172	Equipment Repair / Maintenance	\$ 124
60180	Computer Hardware	\$ 384
60181	Computer Software	\$ 74,431
60182	Internet Services	\$ 5,944
60183	Computer Supplies	\$ 402
60184	Computer Repair/Maint	\$ -
60185	Cloud Storage	\$ 9,053
60190	Offsite Meeting/Travel Expense	\$ 441
60191	In House Meetings	\$ 132
60192	Conference Expense	\$ 13,106
60193	Car, Repair, Maintenance	\$ 221
60200	Dues	\$ 1,013
60202	Subscriptions	\$ 8,121
60203	Contributions	\$ 12,000
60210	Bank Charges	\$ -
60211	Shipping/Postage	\$ 178
60212	Office Supplies	\$ 2,263
48000	Commission Fees	\$ 10,920
60221	Commission Mileage Reimb.	\$ 727
60222	Other Commission Expense	\$ -
60230	Other Expense	\$ 715
60240	Building Lease	\$ 2,556
81010	Retiree Medical Expense	\$ 19,830
80001	Insurance Expense	\$ 18,763
80000	Building Repair/Replacement Reserve	\$ 100,000
80000	Fixed Assets	\$ 14,784

Total Costs \$ 1,184,626

Direct Costs Paid by Projects	\$ 919,231
Member Contribution Offset	\$ 475,000
Interest & Other Revenue Offset	\$ 1,169
	\$ 1,395,400

Over (Under) Allocation %	17.8%
Over (Under) Allocation of General Fund Costs	\$ 210,774



BENEFITS SUMMARY

(Distributed based on Actual Labor)

<u>G/L Acct</u>	<u>Description</u>		<u>Budget</u>		<u>Actual @ 9/30/24</u>		<u>Projected FYE 2025</u>
70101	FICA Expense	\$	211,101	\$	47,660	\$	190,638
70102	Medicare Expense	\$	59,818	\$	13,602	\$	54,407
70103	State Unemployment Insurance	\$	3,906	\$	127	\$	3,200
70104	Worker's Compensation Insurance	\$	72,456	\$	10,265	\$	41,058
70105	State Disability Insurance	\$	39,569	\$	9,510	\$	38,039
70106	PERS Pension Plan	\$	487,199	\$	114,285	\$	457,142
70111	Medical Expense	\$	511,245	\$	129,520	\$	518,079
70112	Dental Expense	\$	28,657	\$	9,314	\$	37,255
70113	Vision Insurance	\$	7,751	\$	1,704	\$	6,814
70114	Life Insurance Expense	\$	15,940	\$	4,014	\$	16,057
70115	Long Term Disability	\$	18,593	\$	4,618	\$	18,473
70116	Wellness Program Expense	\$	3,900	\$	293	\$	3,900
70120	Car Allowance	\$	39,000	\$	10,350	\$	41,400
	Total Benefits	\$	1,499,135	\$	355,261	\$	1,426,462
	Total Payroll	\$	4,086,368	\$	1,159,011	\$	4,086,368
	Benefits Rate		36.7%		30.7%		34.9%

Santa Ana Watershed Project Authority
 Labor Hours Budget vs Actual
 Month Ending September 30, 2024

	Fund	Budget	Actual	%
100	General Fund	28,150	6,331	22.49%
145	Prop 84 - 2015 Program Mgmt	2,140	545	25.47%
150	Prop1 - Program Management	1,070	182	16.99%
155	Prop1 Round 2	-	153	-100.00%
240	Brine Line Enterprise	19,407	4,830	24.89%
320	Brine Line Protection	277	5	1.81%
327	Reach IV-D Corrosion Repairs	349	2	0.50%
328	Agua Mansa Lateral Construction	-	8	-100.00%
370-01	Basin Planning General	1,830	465	25.38%
370-02	USBR Partnership Studies	75	1	0.67%
373	Watershed Management (OWOW)	1,970	389	19.73%
374	Basin Monitoring Program TF	615	126	20.45%
376	ICARP	-	11	-100.00%
377	PFAS Study	220	16	7.39%
378	Weather Modification	205	26	12.68%
381	SAR Fish Conservation	185	166	89.86%
384-01	MSAR TMDL TF	155	35	22.74%
386MONIT	RWQ Monitoring TF	115	11	9.13%
387	Arundo Removal & Habitat Restoration	250	11	4.30%
392	Emerging Constituents TF	220	43	19.55%
397ADMIN	WECAN Riverside	137	41	29.74%
398RELIE	DACI	80	19	23.75%
477-02	LESJWA - Administration	420	163	38.81%
477TMDL	LESJWA - TMDL Task Force	365	78	21.23%
504-401IMPLE	Prop 84 - Final Round Implementation	60	-	0.00%
504-401PA23	Prop 84 - Final Round PA23 Admin	165	3	1.52%
504-402PA22	Prop84 - Final Round PA22 Admin	270	5	1.76%
504-402RATES	Prop 84 - Final Round Water Rates	-	12	-100.00%
505-00	Prop1 - Capital Projects	150	43	28.33%
		58,880	13,715	23.29%


Note: Should be at 25% of budget for 3 months

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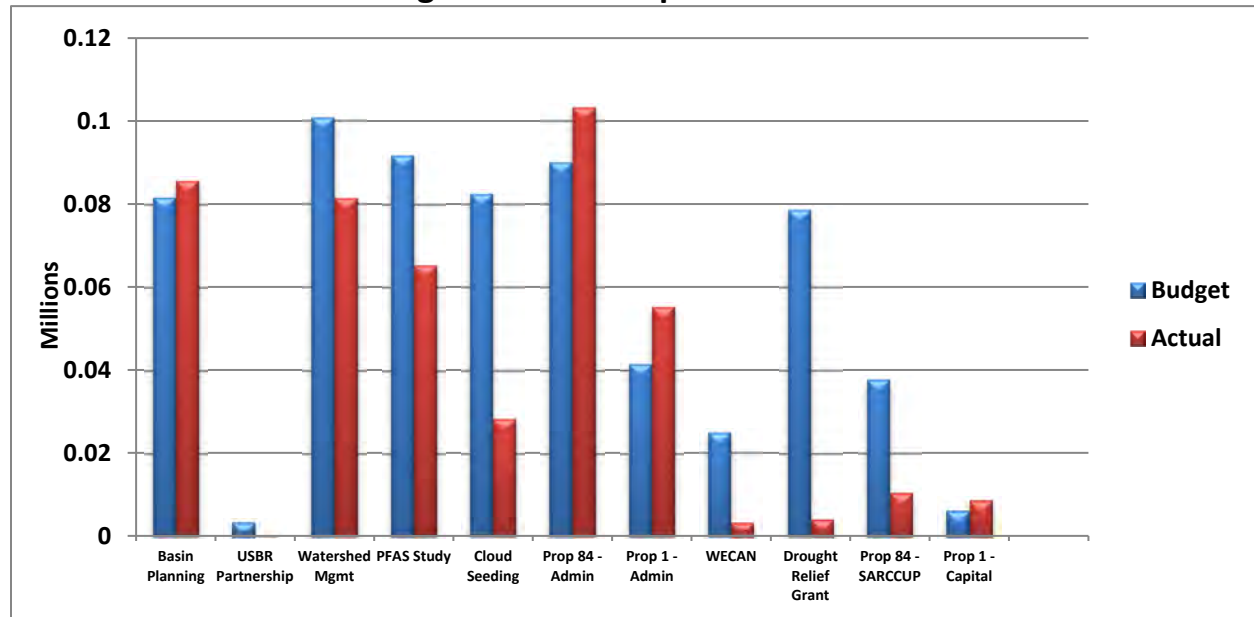
**Santa Ana Watershed Project Authority
PA25 - OWOW Fund - Financial Report
August 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through August 2024 unless otherwise noted.
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Budget to Actual Expenses - OWOW				 Favorable
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$539,791	\$81,632	\$85,700	(\$4,068)
USBR Partnership Studies	69,471	3,246	154	3,092
Watershed Mgmt. (OWOW)	904,428	100,738	81,320	19,418
PFAS Study	550,459	91,743	65,315	26,428
Cloud Seeding	494,707	82,451	28,362	54,089
Prop 84 - Administration	539,894	89,982	103,187	(13,205)
Prop 1 – Administration	248,593	41,432	55,265	(13,833)
WECAN - Riverside	148,933	24,822	3,432	21,390
Drought Relief Grant DACI	471,466	78,578	4,186	74,392
Prop 84 – SARCCUP & Other	225,399	37,567	10,501	27,066
Prop 1 – Capital Projects	36,178	6,030	8,487	(2,457)
Total	\$4,229,319	\$638,221	\$445,909	\$192,312

Budget to Actual Expenses - OWOW



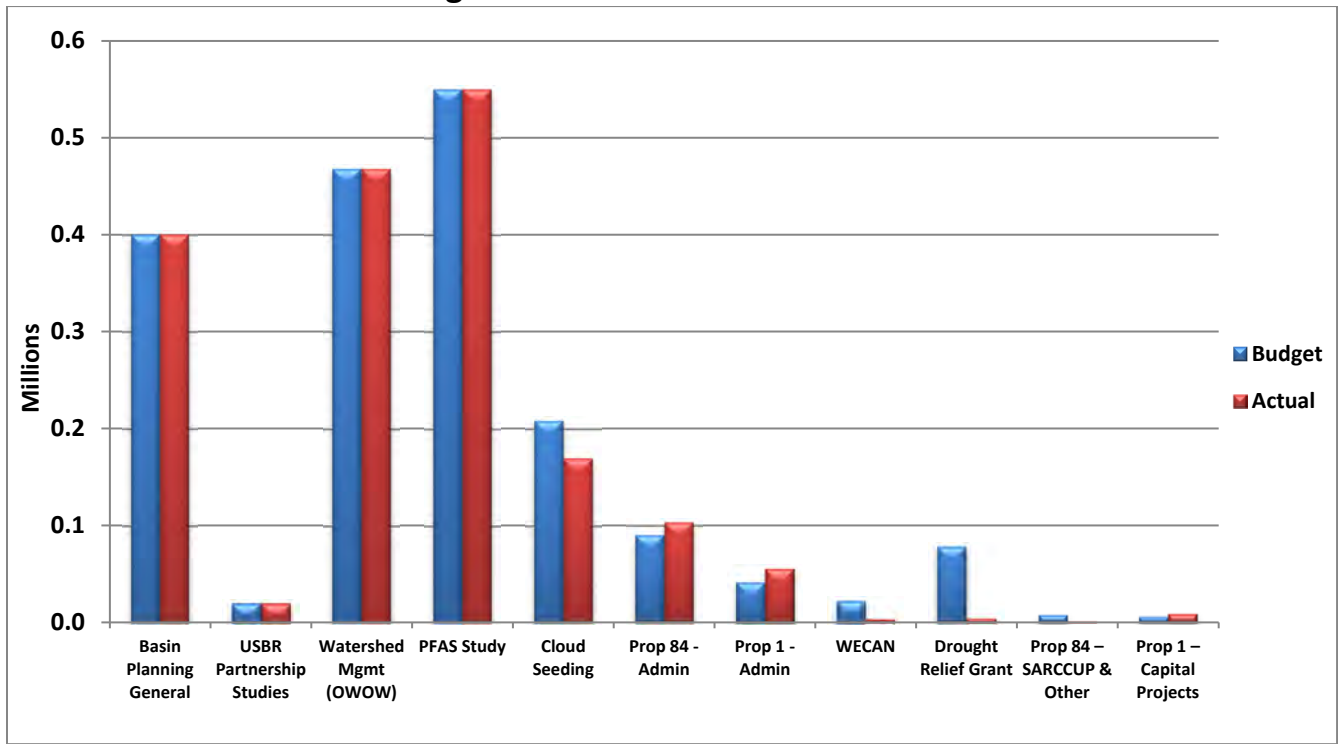
Budget to Actual Revenues - OWOW



Concern





	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$450,000	\$400,000	\$400,000	\$-
USBR Partnership Studies	70,000	20,000	20,000	-
Watershed Mgmt. (OWOW)	767,900	467,900	467,900	-
PFAS Study	550,000	550,000	550,000	-
Cloud Seeding	402,500	208,334	169,500	(38,834)
Prop 84 - Administration	539,894	89,982	103,187	13,205
Prop 1 – Administration	248,593	41,432	55,265	13,833
WECAN - Riverside	148,933	22,124	3,433	(18,691)
Drought Relief Grant - DACI	471,466	78,578	4,186	(74,392)
Prop 84 – SARCCUP & Other	47,908	7,985	1,171	(6,814)
Prop 1 – Capital Projects	36,178	6,030	8,487	2,457
Total	\$3,733,372	\$1,892,365	\$1,783,129	(\$109,236)

Budget to Actual Revenues - OWOW



Reserve Fund Balance	
	Amount
Basin Planning General	\$343,132
USBR Partnership Studies	67,539
Watershed Management (OWOW)	468,363
PFAS Study	893,305
Cloud Seeding	113,668
Proposition 84 – SARCCUP & Other	744,765
Proposition 1 – Capital Projects	83,644
Total Reserves	\$2,714,416

Legend

<u>Compared to Budget</u>		
	Ahead or Favorable	Above +5% Favorable Revenue or Expense Variance
	On Track	+5% to -2% Variance
	Behind	-3% to -5% Variance
	Concern	Below -5% Variance

Staff Comments

For this month’s report, the item(s) explained below are either “behind”, a “concern”, or have changed significantly from the prior month.


- 1) Expenses are favorable with the budget. Revenues are slightly behind the budget. It is anticipated that they will be on track before the end of the year.

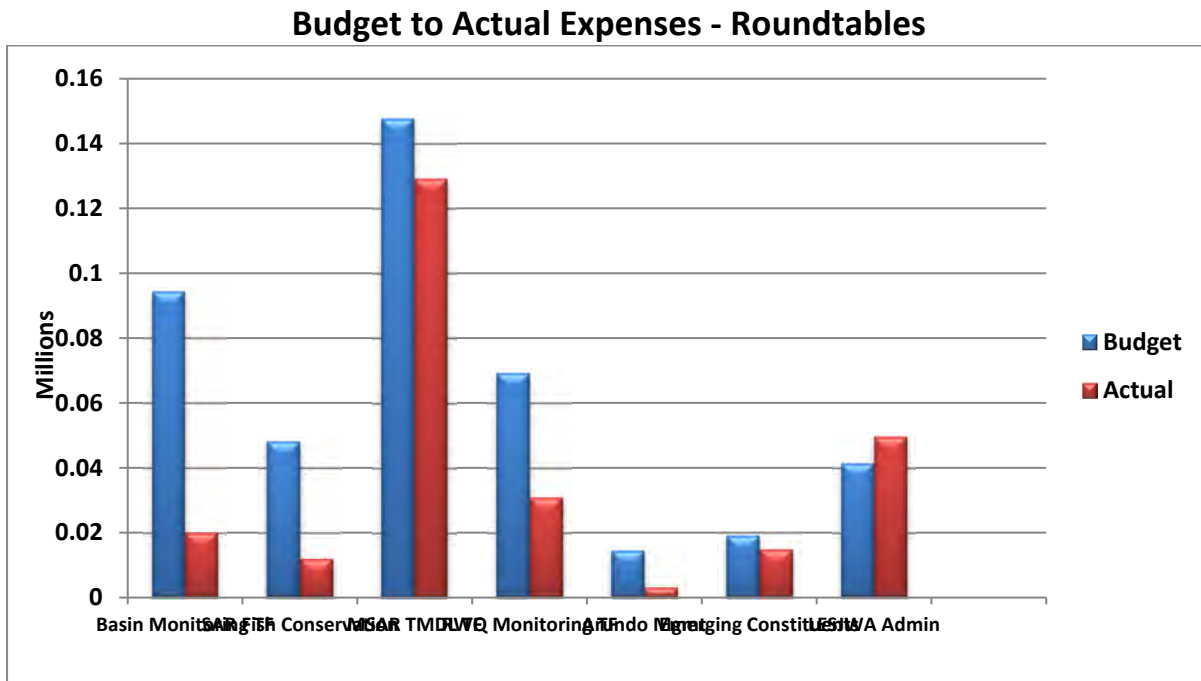
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**Santa Ana Watershed Project Authority
PA26 - Roundtable Fund - Financial Report
August 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through August 2024 unless otherwise noted.
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Budget to Actual Expenses - Roundtables				 Favorable
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$565,988	\$94,331	\$20,096	\$74,235
SAR Fish Conservation	288,541	48,090	11,968	36,122
MSAR TMDL TF	284,664	147,710	129,172	18,538
RWQ Monitoring TF	415,702	69,284	30,945	38,339
Arundo Mgmt.	85,780	14,297	3,146	11,151
Emerging Constituents	114,303	19,051	14,727	4,324
LESJWA Admin	198,285	41,380	49,640	(8,260)
Total	\$1,953,263	\$434,143	\$259,694	\$174,449



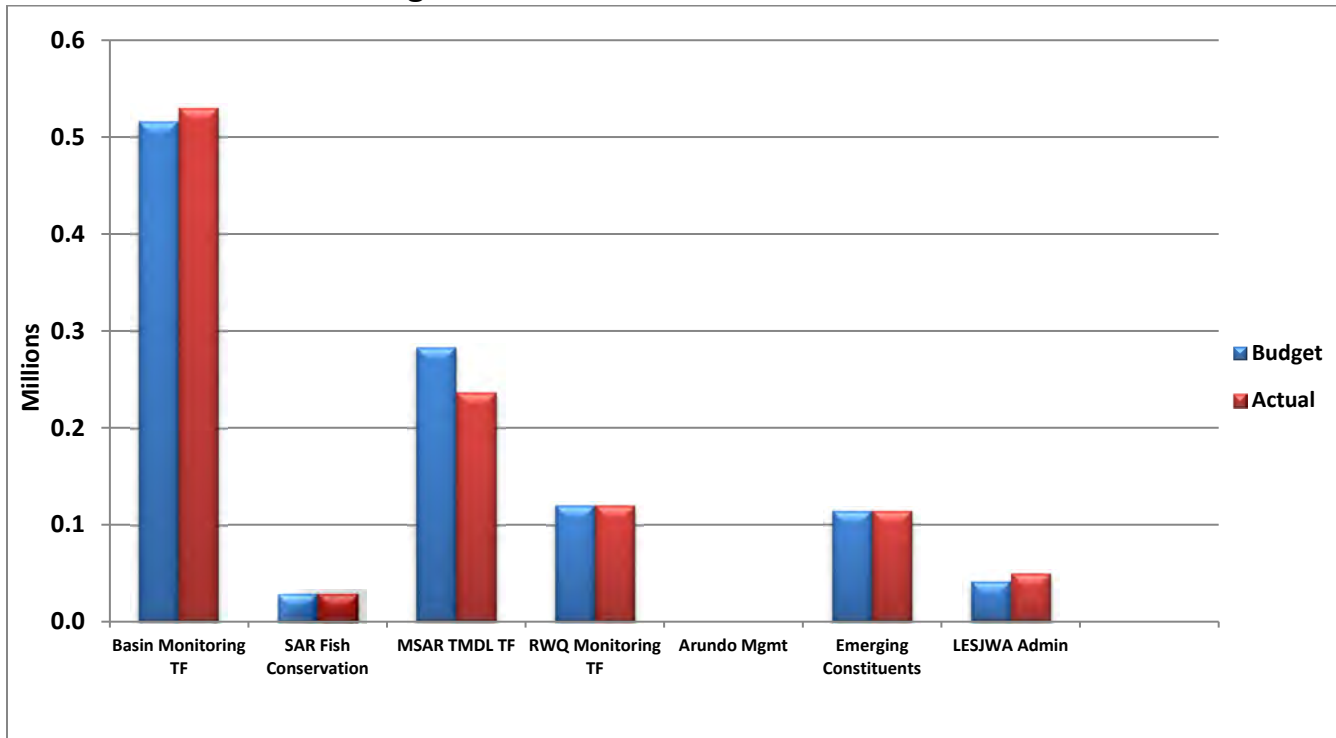
Budget to Actual Revenues - Roundtables



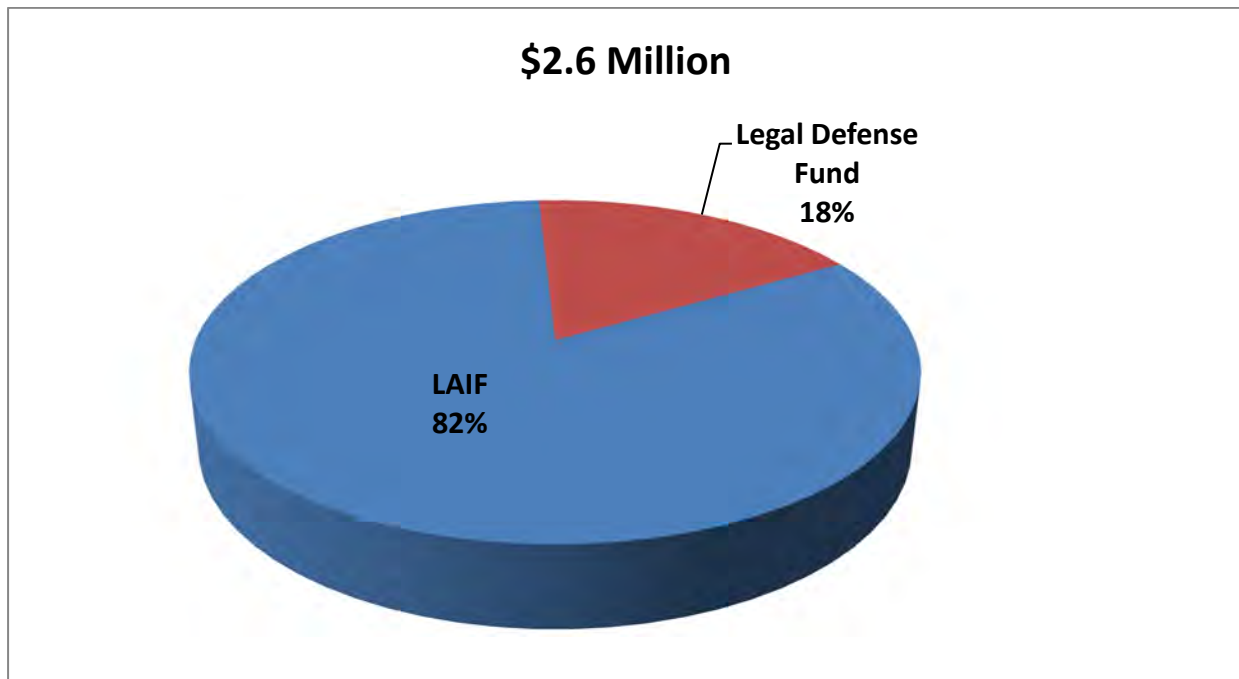
On Track

	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$516,000	\$516,000	\$530,019	\$14,019
SAR Fish Conservation	279,000	29,000	29,000	-
MSAR TMDL TF	282,820	282,820	236,346	(46,474)
RWQ Monitoring TF	417,625	120,320	120,320	-
Arundo Mgmt.	889,800	-	-	-
Emerging Constituents	114,000	114,000	114,000	-
LESJWA Admin	198,285	41,381	49,640	8,259
Total	\$2,697,530	\$1,103,521	\$1,079,325	(\$24,196)

Budget to Actual Revenues - Roundtables



Total Cash & Investments



Reserve Fund Balance

	Amount
Basin Monitoring Task Force	\$892,058
SAR Fish Conservation	128,343
Middle SAR TMDL Task Force	283,556
Regional Water Quality Monitoring Task Force	160,333
Arundo Management & Habitat	749,220
Emerging Constituents Task Force	194,090
Legal Defense Fund	511,426
Total Reserves	\$2,919,026

Legend

Compared to Budget



Ahead or Favorable

Above +5% Favorable Revenue or Expense Variance



On Track

+5% to -2% Variance



Behind

-3% to -5% Variance



Concern

Below -5% Variance

Staff Comments

For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

- 1) Expenses and revenues are favorable to the budget.



November 11, 2024

To: Santa Ana Watershed Project Authority

From: Michael Boccadoro
Beth Olhasso

RE: October Report

Overview:

The first month of the new water year started out dry but carryover storage has kept reservoirs at average levels for this time of the year. Water managers hope that the mid-November weather system hitting Northern California is the kickoff to a strong water year. Lake Oroville is sitting at 49 percent capacity, 94 percent of normal; Lake Shasta is sitting at 56 percent of capacity, 104 percent of average; San Luis Reservoir is at 51 percent of capacity, 109 percent average for this time of year.

Regulators are getting set to take action on two key policies in the Delta. The Water Quality Control Plan for the Sacramento River has recently been released. The draft addresses year-round flow requirements, cold water requirements and adaptive management strategies (such as the Voluntary Agreements), among other actions. Additionally, state and federal regulators are seeking to jointly adopt “incidental take permits” for the State Water Project and Central Valley Project in the coming months. Environmentalists have voiced serious displeasure with the proposal.

The state is making significant progress on the goal to conserve 30 percent of the state’s land and coastal waters by 2030, also known as 30x30. The California Natural Resources Agency recently announced 25.2 percent of lands and 16.2 percent of CA coastal waters are now under long-term protection.

The Assembly Select Committee on Permitting Reform held its one and only hearing on “Permitting Reform to Facilitate Climate Resiliency.” It is clear that committee members understand permitting can be a significant factor to slowing down good, climate-related projects, there has not been a robust discussion on how to actually change the process. The committee is expected to produce a report in the coming months with recommendations for regulators and/or legislative action.

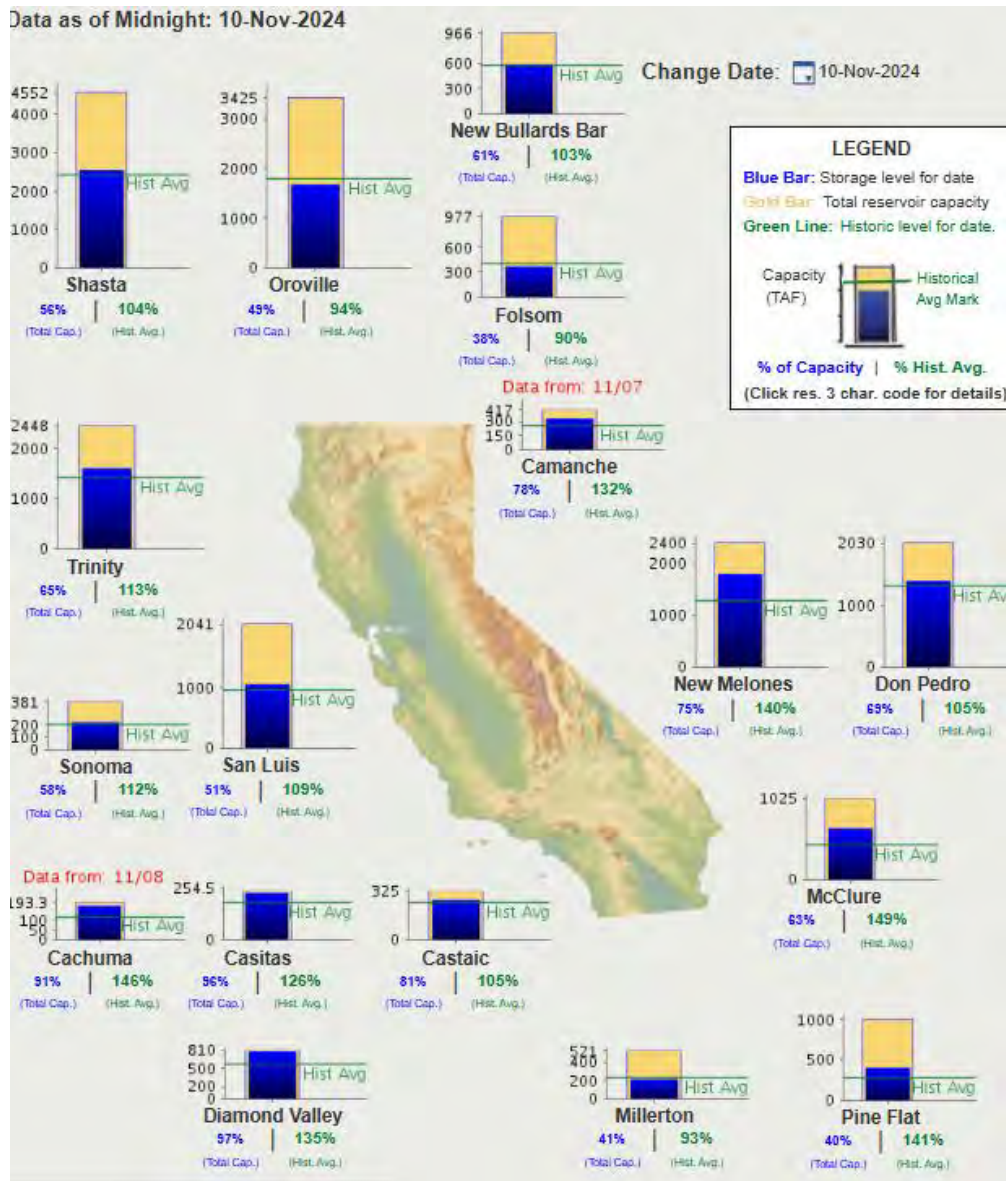
Sacramento has been quiet as most members remain in their districts ahead of the November 5 election. There will be at least 33 new members of the legislature for the 2025-26 legislative session. Additionally, Proposition 4, the \$10 billion climate bond passed with 59 percent support.

Legislators will return to Sacramento briefly in December to get sworn in and “organize” ahead of the January 3 start of session. New committee chairs and committee assignments are expected in December or early January. While any committee chair can be changed, there are known chair vacancies in the Environmental Safety and Toxic Materials Committee, Senate Natural Resources and Water, and Senate Energy, Utilities & Communication Committees.

Santa Ana Watershed Project Authority Status Report – October 2024

Water Supply Conditions

October 2024 has remained dry, but storms and above average precipitation is expected on the horizon. Water storage, however, is in good shape, despite the lack of precipitation so far. Carry-over storage at most reservoirs remains above average, and more water is flowing into San Luis Reservoir. Lake Oroville is at 94 percent of average, 49 percent capacity; Shasta is at 104 percent average, 56 percent capacity; San Luis Reservoir is at 109 percent average, and 51 percent capacity.



Delta Updates

SWRCB Releases Updated Water Quality Control Plan for Sacramento River and Delta

The State Water Resources Control Board has released a draft for updating the Water Quality Control Plan for the Sacramento River and Delta, seeking public input on potential changes aimed at improving environmental conditions for fish and wildlife. The plan outlines water uses, quality, flow objectives, and monitoring requirements.

The Bay-Delta Plan establishes beneficial uses of water in the watershed, water quality and flow objectives to reasonably protect those uses, and an implementation program that includes monitoring and reporting requirements. California law requires the State Water Board to adopt and periodically review water quality control plans for all surface waters; these reviews enable the state to adapt to changing environmental conditions as well as other changes. In December 2018, the board adopted updated flow objectives and an implementation program for the reasonable protection of fish and wildlife in the Lower San Joaquin River and its three salmon bearing tributaries: the Stanislaus, Tuolumne and Merced rivers.

Key proposed updates include:

- **Year-round inflow requirements** of 55% of unimpaired flow for the Sacramento River and its tributaries, with flexibility between 45% and 65%, and potential adjustments for dry conditions.
- **Tributary inflows** to be protected as Delta outflows to support fish and wildlife.
- **New cold water habitat requirements** to support salmon survival and reproduction.
- **Adaptive management** and monitoring provisions.

Additionally, the board is considering incorporating voluntary agreements for habitat restoration as an alternative pathway to regulation. It also plans to include definitions related to Tribal traditions and subsistence fishing in the plan. Public workshops will be held for feedback through early 2025, with decisions on potential changes to be made later.

DWR and USBR Aim to Approve State and Federal Permits for Operation of Delta Pumps

The Biden and Newsom administrations are set to adopt new regulations for California's major water delivery systems, focusing on balancing water pumping from rivers with protections for endangered fish species. Environmental groups support revising the rules but argue that the proposed changes may worsen conditions for six endangered fish species in the Sacramento-San Joaquin River Delta.

The new regulations will govern operations of the Central Valley Project and the State Water Project, which supply water to farms and millions of residents. Critics, like San Francisco Baykeeper, assert that the rules could accelerate the decline of already threatened species, as previous protections were deemed inadequate.

State officials maintain that their plan will improve protections for fish while ensuring water supply reliability amid climate challenges. This includes a new incidental take permit for the State Water Project and collaborative efforts with federal agencies.

Environmental advocates are urging stronger protections in the final proposals, warning that current plans are politically motivated and may not address the ecological crisis effectively. As

the deadline for new rules approaches, tensions remain high, with concerns about potential litigation and the future of water management in California, especially with the upcoming presidential election influencing policy directions.

Update on 30x30 State Goals

The Natural Resources Agency recently announced that the state is making strides toward its "30x30" goal, aiming to conserve 30 percent of its lands and coastal waters by 2030. This initiative, inspired by a global movement to combat biodiversity loss and climate change, was initiated by Governor Newsom in October 2020 and later reinforced by President Biden's federal target.

In 2023, the commitment was formalized through Senate Bill 337, ensuring its continuity across administrations. The strategic roadmap, "Pathways to 30x30," released in April 2022, outlines ten complementary strategies.

The first annual report noted that California added approximately 631,000 acres of conserved land in its first year of implementation.

As of June 2024 the Natural Resources Agency announced that 25.2 percent of lands and 16.2 percent of CA coastal waters are now under long-term protection. This represents an addition of 861,000 acres of verified conserved land. Key contributions to the increase in 30x30 acreage over the past year include:

- Returns of ancestral lands to California Native American tribes.
- Acquisitions for conservation.
- Voluntary conservation easements on private properties.
- Enhanced protections for federally managed lands.
- Inclusion of previously unverified areas that meet 30x30 criteria.
- Upgraded protections for existing conserved lands.

Assembly Committee on Permitting Reform Discusses Climate Issues

The Assembly Committee on Permitting Reform chaired by Assemblymember Buffy Wicks (D-Oakland) recently met to discuss permitting reforms that could help address climate change. Ellen Hanak of the Public Policy Institute of CA did a good job of highlighting the challenges permitting brings to combating climate change:

“During our many discussions with stakeholders over the years, one consistent theme has emerged: the time and cost of permitting to undertake water projects both large and small. A complex suite of federal, state, and local approvals is typically needed, under numerous statutes and regulations. While each individual permitting requirement was introduced to meet a well-intended policy goal, the cumulative effect can be daunting, causing years of delay and escalating costs, and even outright preventing actions that would serve the greater good. In short, permitting challenges are keeping us from taking timely action to build water system resiliency, while increasing affordability challenges.”

The committee is planning to have at least one more hearing before producing a report with recommendations for permitting reform in many sectors including climate, housing and others.

Legislative Update

All attention in Sacramento has turned to post election analysis and the Governor's Special Session to "safeguard California values" against the incoming Trump Administration. Behind the scenes conversations indicate that the special session is intended to be narrowly focused on providing legal resources to the attorney general's office — perhaps as much as \$100 million — to fight the Trump administration. The goal is to appropriate the money before President-elect Donald Trump is sworn in on Jan. 20. The Special Session will gavel open the same day new legislators are sworn in on December 2.

There will be at least 21 new State Assemblymembers and 12 new State Senators, with several races still undecided where an incumbent might be ousted. Additionally, the \$10 billion Climate Bond (Proposition 4) passed by 59 percent of voters (though votes are still being counted).