

... A United Voice for the Santa Ana River Watershed

OWOW Steering Committee Members

Brenda Dennstedt, Convener | SAWPA Commissioner T. Milford Harrison, SAWPA Commissioner Vicente Sarmiento, Orange County Supervisor Karen Spiegel, Riverside County Supervisor Jesse Armendarez, San Bernardino County Supervisor James Hessler, Altman Plants Garry W. Brown, Orange County Coastkeeper William Ruh, Regional Water Quality Control Board Deborah Robertson, Mayor, City of Rialto Wes Speake, Councilmember, City of Corona Nicholas Dunlap, Mayor Pro Tem, City of Fullerton

THIS MEETING WILL BE CONDUCTED IN A HYBRID FORMAT, OFFERING BOTH VIRTUAL PARTICIPATION AND IN-PERSON ATTENDANCE, PROVIDING AN OPPORTUNITY FOR PUBLIC COMMENT. ALL VOTES TAKEN WILL BE CONDUCTED BY ORAL ROLL CALL.

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:		
 https://sawpa.zoom.us/j/84667803353 	• 1 (669) 900-6833		
• Meeting ID: 846 6780 3353	• Meeting ID: 846 6780 3353		

REGULAR MEETING OF THE OWOW STEERING COMMITTEE SAWPA, 11615 STERLING AVENUE, RIVERSIDE, CA 92503

THURSDAY, NOVEMBER 16, 2023 – 11:00 A.M.

AGENDA

1. CALL TO ORDER | PLEDGE OF ALLEGIANCE (Brenda Dennstedt, Convener)

2. PUBLIC COMMENTS

Members of the public may address the Committee on items within the jurisdiction of the Committee; 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 Committees' consideration by sending them to publiccomment@sawpa.org with the subject line "Public Comment". Submit your electronic comments by 5:00 p.m. on Wednesday, November 15, 2023. 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 Committee.

3. 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 Santa Ana Watershed Project Authority subsequent to the posting of the agenda.

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4. CONSENT CALENDAR

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

- A. APPROVAL OF MEETING MINUTES: JULY 27, 20235 Recommendation: Approve as posted. B. AMEND ONE WATER ONE WATERSHED PLAN UPDATE 2018 FOR STORMWATER PLAN PROJECTS (SC#2023.7)......9 **Recommendation:** Amend the One Water One Watershed Plan Update 2018 to include the 24 projects submitted to Riverside County Stormwater Resource Plan. Recommendation: Approve as posted. 5. BUSINESS ITEMS A. CALIFORNIA WATER PLAN UPDATE 2023 PUBLIC REVIEW DRAFT (SC#2023.8)45 Presenter: Ian Achimore Recommendation: Receive and file. B. GRANT FUNDED PROJECT HIGHLIGHTS......63 Presenter: Marie Jaurequi Recommendation: Receive and file. C. WATERSHED-WIDE BASIN MONITORING PROGRAM TASK FORCE UPDATE

 - D. INTEGRATED CLIMATE ADAPTATION AND RESILIENCY PROGRAM REGIONAL RESILIENCE PLANNING AND IMPLEMENTATION GRANT PROGRAM (SC#2023.10)......97 Presenter: Rachel Gray Recommendation: Receive and file.
 - E. <u>WEATHER MODIFICATION UPDATE</u> Presenter: Rachel Gray Recommendation: Receive and file.
- 6. GENERAL MANAGER REPORT
- 7. CHAIR'S COMMENTS/REPORT
- 8. COMMITTEE MEMBERS' COMMENTS
- 9. REQUEST FOR FUTURE AGENDA ITEMS
- 10. ADJOURNMENT

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PLEASE NOTE:

Americans with Disabilities Act: Meeting rooms are wheelchair accessible. If you require any special disability related accommodations to participate in this meeting, please contact (951) 354-4220 or svilla@sawpa.org. Notification at least 48 hours 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 Committee 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.org, 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 9, 2023, a copy of this agenda has been uploaded to the SAWPA website at <u>www.sawpa.org</u> and posted at the SAWPA office, 11615 Sterling Avenue, Riverside, California.

2023 OWOW Steering Committee Regular Meetings

Fourth Thursday of Every Other Month (January, March, May, July, September, November) (Note: All meetings begin at 11:00 a.m., unless otherwise noticed, and are held at SAWPA.)

January		March	
1/26/23	Regular Committee Meeting	3/23/23	Regular Committee Meeting [cancelled]
Мау		July	
5/25/23	Regular Committee Meeting [cancelled]	7/27/23	Regular Committee Meeting
September	·	November	
9/28/23	Regular Committee Meeting [cancelled]	11/16/23*	Regular Committee Meeting*

* Meeting date adjusted due to conflicting holiday.

2024 OWOW Steering Committee Regular Meetings

Fourth Thursday of Every Other Month (January, March, May, July, September, November) (Note: All meetings begin at 11:00 a.m., unless otherwise noticed, and are held at SAWPA.)

January		March	
1/25/24	Regular Committee Meeting	3/28/24	Regular Committee Meeting
May		July	
5/23/24	Regular Committee Meeting	7/25/24	Regular Committee Meeting
Septembe	r	November	r
9/26/24	Regular Committee Meeting	11/21/24*	Regular Committee Meeting

* Meeting date adjusted due to conflicting holiday.

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OWOW STEERING COMMITTEE

REGULAR MEETING MINUTES

July 27, 2023

Committee Members						
Santa Ana Watershed Pr	oject Authority Representatives					
Brenda Dennstedt, Convene	r, Western Municipal Water District	Present				
T. Milford Harrison, San Berr	nardino Valley Municipal Water District	Present				
County Supervisor Repr	<u>esentatives</u>					
Vicente Sarmiento, Orange C	County Board of Supervisors	Absent				
Karen Spiegel, Riverside Co	unty Board of Supervisors	Present				
Jesse Armendarez, San Berr	nardino County Board of Supervisors	Absent				
County Municipal Repres	<u>sentatives</u>					
Deborah Robertson, Mayor,	City of Rialto	Present				
Wes Speake, Councilmembe	er, City of Norco	Present				
Nicholas Dunlap, Mayor Pro Tem, City of Fullerton Absent						
Business Community Re	presentative					
James Hessler, Director of W	lest Coast Operations, Altman Plants	Present				
Environmental Commun	ity Representative					
Garry W. Brown, President, C	Drange County Coastkeeper	Present				
Regional Water Quality C	Control Board Representative					
William Ruh, Regional Water	Quality Control Board	Present				
· • •		·				
	Others Present					
SAWPA	Bruce Whitaker, Kelly Rowe					
COMMISSIONERS:						
SAWPA STAFF:	Edina Goode, Ian Achimore, Jeff Mosher	, John Leete, Marie Jauregui, Pete				
	Vitt, Rachel Gray, Sara Villa, Zyanya Rar	nirez				
OTHERS PRESENT:	Andrew D. Turner, Lagerlof LLP, Christy	Suppes, Orange County Public				
	Works, June Hayes, San Bernardino Vall	ey Municipal Water District, Lisa				
	Haney, Orange County Water District, Ma	allory O'Conor, Western Municipal				
	Water District, Manuel Escamilla, County	of Orange, Thomas Crowley, City of				
	Rialto, Toyasha Sebbag, City of Rialto.					

The OWOW Steering Committee meeting was called to order at 11:05 a.m. by Brenda Dennstedt, Convener, at the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, CA 92503.

1. CALL TO ORDER | PLEDGE OF ALLEGIANCE

2. PUBLIC COMMENTS

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

3. APPROVAL OF MEETING MINUTES: NOVEMBER 17, 2022

4. APPROVAL OF MEETING MINUTES: JANUARY 26, 2023

Committee Member Dennstedt called for one motion for approval of both the November 17, 2022, and January 26, 2023 meeting minutes. With legal counsel's approval, Committee Member Harrison moved to modify the motion and was seconded by Committee Member Speake.

MOVED, approve the November 17, 2022, and January 26, 2023, meeting minutes.

Result:	Adopted by Roll Call Vote
Motion/Second:	Milford/Speake
Ayes:	Brown, Dennstedt, Harrison, Hessler, Robertson, Ruh, Spiegel, Speake
Nays:	None
Abstentions:	None
Absent:	Armendarez, Dunlap, Sarmiento

5. BUSINESS ITEMS

A. <u>RECOGNIZE VICENTE SARMIENTO, JESSE ARMENDAREZ, AND WES SPEAKE</u> <u>TO THE OWOW STEERING COMMITTEE (SC#2023.4)</u>

Rachel Gray announced the appointment of Vicente Sarmiento, Jesse Armendarez, and Wes Speake. Committee Member Speake thanked the Committee and SAWPA staff.

This item was for discussion purposes; no action was taken on Agenda Item No. 5.A.

B. INTEGRATED CLIMATE ADAPTATION AND RESILIENCY PROGRAM REGIONAL RESILIENCE PLANNING AND IMPLEMENTATION GRANT PROGRAM (SC#2023.5)

Rachel Gray provided a presentation titled Integrated Climate Adaptation and Resiliency Program (ICARP) Regional Resilience Grant Program (RRGP), contained in the agenda packet on pages 19-34.

The ICARP RRGP aims to invest \$9.4 million in its first grant cycle for regions engaged in climate adaptation planning and action plans targeting the most significant climate risks, especially in vulnerable communities. The grant will be awarded competitively and through a formula basis, with future rounds of funding available for project implementation. Its primary objectives include supporting regional planning, assisting communities in identifying climate resilience priorities, and facilitating the execution of climate-resilient projects statewide.

SAWPA's strategy focuses on aligning with state priorities, such as addressing climate change vulnerabilities and enhancing equitable outcomes, to access future funding opportunities. The approach involves identifying climate risks like drought, extreme heat, flooding, sea level rise, and wildfires and developing adaptation strategies for a more resilient watershed. SAWPA plans to leverage its expertise in integrated watershed management to define watershed-scale climate risks, create climate adaptation strategies, and establish resiliency projects while fostering partnerships across the

region. The goal is to develop a Regional Climate Adaptation and Resilience Plan, supported by funding from ICARP RRGP, to address climate change risks in the Santa Ana River Watershed. This plan will improve funding competitiveness, enhance watershed resilience, promote multi-beneficial projects, and emphasize equitable outcomes, benefiting various stakeholders and securing funding for future resilience projects.

This item was for discussion purposes; no action was taken on Agenda Item No. 5.B.

C. <u>RIVERSIDE COUNTY STORMWATER RESOURCE PLAN CALL FOR PROJECTS</u> (SC#2023.6)

Ian Achimore provided a presentation titled Update on Riverside County Stormwater Resource Plan Call for Projects, contained in the agenda packet on pages 105-114.

Senate Bill 985, passed in 2014, mandates the development of a local stormwater resource plan (SWRP) to access grants for stormwater and dry weather runoff capture projects. Riverside County Flood Control and Water Conservation District (RCFC&WCD) is exploring grant funding and has opened a "Call for Projects" for water agencies to submit project concepts. There may be funding available pending legislative and voter approval. The Feasibility Study aims to identify suitable locations for stormwater recharge for water supply benefits, primarily in areas with minimal water quality concerns. The next steps involve submitting concepts to the RCFC&WCD by August 3, 2023, and potential coordination for grant applications with other agencies in the Santa Ana River Watershed.

Committee Member Ruh inquired about whether Quail Valley would be included in the ongoing projects of the Riverside County SWRP and emphasized the urgency of providing assistance to the area. Mr. Achimore clarified that, as of now, the Eastern Municipal Water District has not included the area in their current projects but assured that they would follow up on the matter.

This item was for discussion purposes; no action was taken on Agenda Item No. 5.C.

D. PROPOSITION 1 STATUS UPDATE

Marie Jauregui provided a presentation titled Proposition 1 Status Update, contained in the agenda packet on pages 115-137. She presented the updates by showcasing slides featuring project names, brief descriptions, and their respective progress status.

Regarding Proposition 1 Round 2, the grant award acceptance letter was sent to the Department of Water Resources (DWR) on June 1, 2023, and SAWPA is currently awaiting grant agreements from DWR.

Mr. Mosher mentioned that Proposition 1, Round 2, represents the final allocation of Integrated Regional Water Management funding from DWR. This doesn't necessarily imply that there won't be additional funding available through another bond in the future. SAWPA's focus has been on exploring ways to anticipate and secure future funding sources, as the funding landscape is evolving.

Committee Member Dennstedt emphasized the significance of the Santa Ana Zoo Stormwater Capture and Diversion Project within the City of Santa Ana. She pointed out that this project's high visibility to the general public provides a valuable opportunity to showcase the water community's efforts and convey the message to the public.

This item was for discussion purposes; no action was taken on Agenda Item No. 5.D.

OWOW Steering Committee Regular Meeting Minutes July 27, 2023 Page 4

6. <u>GENERAL MANAGER REPORT</u>

Mr. Mosher acknowledged that today's discussion has highlighted some of the key aspects SAWPA is actively pursuing. He expressed the importance of the OWOW Steering Committee input in assessing these matters as we gather further details, explore possibilities, and identify opportunities. The efforts are closely linked to the OWOW Program, and the OWOW Steering Committee will play a significant role in guiding and supporting these initiatives.

7. <u>COMMITTEE MEMBERS' COMMENTS</u>

Committee Member Dennstedt proposed holding the next OWOW Steering Committee meeting in person. Mr. Mosher explained that, after consulting with legal counsel, it was determined that the OWOW Steering Committee meeting is not legally required to adhere to the Brown Act rules. To provide flexibility, SAWPA has established this meeting as a hybrid format. SAWPA acknowledges the benefit of occasional in-person meetings and intends to arrange one, especially with the addition of new committee members.

8. REQUEST FOR FUTURE AGENDA ITEMS

There were no comments.

9. ADJOURNMENT

The meeting ended at 11:47 a.m.

APPROVED: November 16, 2023

Brenda Dennstedt, Convener

Attest:

Sara Villa, Clerk of the Board

OWOW STEERING COMMITTEE MEMORANDUM NO. 2023.7

DATE:	November 16, 2023
то:	OWOW Steering Committee
SUBJECT:	Amend One Water One Watershed Plan Update 2018 for Stormwater Plan Projects
PREPARED BY:	Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Amend the One Water One Watershed Plan Update 2018 to include the 24 projects submitted to Riverside County Stormwater Resource Plan.

DISCUSSION

On January 26, 2023, the OWOW Steering Committee adopted the Riverside County Stormwater Resource Plan into the One Water One Watershed (OWOW) Plan Update 2018. The OWOW Plan Update 2018 serves many roles in the Santa Ana River Watershed, chiefly as the State-approved Integrated Regional Water Management (IRWM) Plan for the Santa Ana Funding Area within the State-wide IRWM Program. The OWOW Steering Committee, along with the SAWPA Commission, serve as the Regional Water Management Group (RWMG), a State-approved entity that makes planning and grant funding decisions associated with the Statewide IRWM Program. The Statewide IRWM Program was created with the passage of Senate Bill 1672 in 2002, although SAWPA has developed integrated watershed plans since the 1990s.

Senate Bill 985 approved in 2014, requires the development of a local stormwater resource plan (SWRP) to receive grants for stormwater and dry weather runoff capture projects from recent State bond measures such as the Proposition 1 Water Bond. Upon development of a local stormwater resource plan, the area's corresponding RWMG shall incorporate it into their IRWM Plan. Riverside County Flood Control and Water Conservation District (Riverside County Flood) is planning on applying for future grant funding and held a "Call for Projects" for entities like water agencies to submit their project concepts, planning concepts, and "shovel-ready" projects. SAWPA submitted two feasibility study concepts, which were shared with the Steering Committee on July 27, 2023. 22 other projects were also submitted to Riverside County Flood during the Call for Projects by the following entities:

- City of Calimesa
- City of Corona
- City of Hemet
- City of Lake Elsinore
- City of Perris
- City of Riverside
- City of Wildomar
- Eastern Municipal Water District
- Jurupa Community Services District
- Riverside County Flood
- University of California, Riverside

SAWPA is recommending the two SAWPA feasibility study concepts and the other 22 projects be adopted into the Plan, specifically Appendix B "Projects Submitted for the OWOW Plan Update 2018" which is a list of all projects accepted by the OWOW governance structure.

There may be some funding available if a resource bond is approved by the legislature/governor, and the general electorate on the November 2024 ballot. This Call for Projects is a way to gather projects that could be utilized for a joint Riverside County Flood-led grant proposal to the State if there is funding available in a successful resource bond for stormwater-related project/plans/studies.

BACKGROUND

As Riverside County is within the Santa Ana Funding Area, this RWMG shall review and consider integrating the 2022 Stormwater Resource Plan into the OWOW Plan Update 2018. The OWOW Steering Committee previously approved the Orange County Stormwater Resource Management Plan for integration in 2021 and approved adding the Riverside County Flood SWRP on January 26, 2023. The Chino Basin Stormwater Resource Plan and the San Bernardino County Stormwater Resource Plan were also integrated in 2019. These SWRPs were integrated by adding a reference to their plans in the OWOW Plan Update 2018's appendix G – Subregional Plans.

On July 27, 2023, SAWPA shared with the OWOW Steering Committee two stormwater-related feasibility study concepts:

- Distributed Stormwater Capture Feasibility Study (Feasibility Study), and
- Drywell Pilot Assessment.

The Feasibility Study would identify general locations where distributed recharge of stormwater for water supply benefit is feasible. Water supply enhancement is feasible in groundwater management zones with minimal water quality issues and maximum benefits for water supply. The drywell assessment's purpose would be to understand field conditions where recharge of stormwater for water supply benefit is feasible. Conditions could be assessed by piloting dry wells to collect field data to understand when the water table can be recharged. The two feasibility study concepts were submitted to Riverside County Flood on August 4, 2023, for the SWRP call for projects. Riverside County Flood scored the concepts the highest out of the 24 projects/plans submitted.

ATTACHMENTS:

- 1. PowerPoint Presentation
- 2. List of 24 SWRP Projects (Project Description and Scoring Summary Sheet)

Amend One Water One Watershed Plan Update 2018 for Stormwater Plan Projects

OWOW Steering Committee Item No. 4.B Ian Achimore Senior Watershed Manager November 16, 2023

Recommendation

Amend the One Water One Watershed Plan Update 2018 to include the 24 projects submitted to Riverside County Stormwater Resource Plan.

2 Commission Meeting

Riverside County Santa Ana Region SWRP

- Stormwater Resource Plan (SWRP) focus: Stormwater and dry weather runoff capture projects/studies.
- •Other SWRPs in the Santa Ana River Watershed:
 - Orange County SWRP
 - Chino Basin SWRP
 - San Bernardino SWRP

OWOW Plan

- The OWOW Plan Update 2018 serves many roles in the Watershed, chiefly as the State-approved Integrated Regional Water Management (IRWM) Plan for the Santa Ana Funding Area within the State-wide IRWM Program.
- The OWOW Steering Committee, along with the SAWPA Commission, serve as the Regional Water Management Group, a State-approved entity that makes planning and grant funding decisions associated with the IRWM Program.
- •As Riverside County (and others) are within the Santa Ana Funding Area, this RWMG "shall review and consider integrating" SWRPs into the OWOW Plan Update 2018.

Riverside County SWRP Call for Projects

- From June 3 to August 3, 2023 Riverside County Flood held a Call for Projects as an opportunity for entities to have their projects/plans included in the SWRP.
- Projects/plans had to provide at least two benefits, capture, treat, infiltrate, and/or use stormwater or dry weather runoff for multiple benefits

Projects were ranked using the following priority list:

Quantified Benefits (30%)

> Watershed Priorities (25%)

Projects Submitted to SWRP

- •SAWPA submitted two feasibility study concepts, which were shared with the Steering Committee on July 27, 2023.
- Projects/studies were also submitted by the following entities:
- City of Calimesa
- City of Corona
- City of Hemet
- City of Lake Elsinore
- City of Perris
- City of Riverside

- City of Wildomar
- Eastern Municipal Water District
- Jurupa Community Services District
- **Riverside County Flood**
- University of California, Riverside

Example SWRP Submitted Project

Phase I of Gage Basin Restoration Project

- Evaluates basin retention and infiltration capacities, evaluation of dry weather flow management, and evaluation of improvement needed to meet Multi-Benefit Trash Treatment System criteria.
- Also includes initial conceptual study of restoration alternatives for flood control and stormwater management and habitat lost after repeated wildfires of 2019, 2020 and 2021.

7 | Commission Meeting

SAWPA Feasibility Study Concepts

On July 27, 2023, SAWPA shared with the OWOW Steering Committee two feasibility study concepts which were submitted to the Riverside County SWRP on August 3, 2023:

- 1. Distributed Stormwater Capture Feasibility Study
- 2. Drywell Pilot Assessment

8 | Commission Meeting

Distributed Stormwater Capture Study Concept

- Purpose is to identify general locations where distributed recharge of stormwater (for water supply benefit) is feasible
 - •Water supply enhancement is feasible in zones with minimal water quality issues and maximum benefit for supply

Total Dissolved Solids Concentrations Based on Volume Weighted Average (1999-2018)

P:\projects\lan\WatershedIndicators\HighQualityWater\HighQualityWater.aprx LOInd3SalinityMaint SW-2972

Information To Be Used to Identify Locations

- Existing studies.
- Ambient Water Quality Re-computations and Groundwater Sustainability Agency data.
- Land use information from the county assessors and Southern California Association of Governments.

10 | Commission Meeting

Drywell Pilot Assessment Concept

- Purpose is to understand conditions where recharge of stormwater (for water supply benefit) is feasible
 - Water supply enhancement is feasible (for example) when a drywell can recharge water table by permeating known barriers.

Layer with Water Table Used for Supply

SWRP Call for Projects Scores

- The two feasibility study concepts were submitted to Riverside County Flood Control and Water Conservation District on August 4, 2023.
- The District scored the concepts the highest out of the 24 projects/plans submitted.
- There may be some funding available if a resource bond is approved by the legislature/governor, and the general electorate on the November 2024 ballot.
- This Call for Projects is a way to gather projects that could be utilized for a joint Riverside County Flood-led grant proposal.

Questions?

13 | Commission Meeting

Thank You

lan Achimore Santa Ana Watershed Project Authority (951) 354-4233 iachimore@sawpa.org sawpa.org

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Distributed Stormwater Capture Feasibility Study	Santa Ana Watershed Project Authority	The feasibility study will utilize existing studies, master drainage plans, documents produced from regulatory compliance efforts - i.e. Ambient Water Quality Recomputations, Groundwater Sustainability Agency (GSA) data, related studies from the 2010 municipal separate storm sewer systems (MS4) permitting process, etc and land use information from the county assessors and Southern California Association of Governments (SCAG). This existing data will be used to determine areas of the Santa Ana River Watershed that would be beneficial for engineered stormwater capture approaches. The areas would be identified with specific project types in consideration. These projects fall under the category of "small" to "mid-scale" (i.e. distributed) and include the following: 1) infiltration galleries, 2) drywells, 3) tree wells, 4) and other engineered stormwater capture approaches.	133	Conceptual	Water Quality, Water Supply, Flood Management, Community
Drywell Pilot Assessment	Santa Ana Watershed Project Authority	The Drywell Pilot assessment will pilot the usage of approximately three to four drywells within a specified area in the Santa Ana River Watershed in order to assess the effectiveness and costs of this engineered stormwater capture structure. Soil moisture sensors in the vadose zone, as well as nearby existing wells, will be used for water supply measurements and a certified laboratory will be utilized to measure water quality data using flow-weighted composite stormwater samples, and water table measures, for most constituents such as bacteria, metals, petroleum hydrocarbons and pyrethroid pesticides. The drywells will be piloted in locations with different upstream terrestrial features (such as streets, parking lots, and semi-industrial land), and existing water quality wells, in order to better isolate the relationship between ambient water quality and the drywell pretreatment methods. Sites with diverse aquifer properties will also be selected for the piloted drywells in order to better isolate the water quality relationship. Pretreatment attached to the piloted drywells will likely include catch basins, upstream grassy swales, and detention chambers.	120	Conceptual	Water Quality, Water Supply, Flood Management, Community
UC Riverside Gage Basin Green Infrastructure Restoration Phase I	University of California, Riverside Environmental Health & Safety	Phase I of Gage Basin Restoration project includes engineering analyses to evaluate basin retention and infiltration capacities, evaluation of dry weather flow management, and evaluation of improvement needed to meet SWRCB Certified Multi-Benefit Trash Treatment System criteria. Phase I also includes initial conceptual study of restoration alternatives for flood control and stormwater management and habitat lost after repeated wildfires of 2019, 2020 and 2021. Proposed initial conceptual study would explore the potential for community walking trails with amenities such as interpretive signage providing stormwater and habitat education.	108	Conceptual	Water Quality, Flood Management, Environmental, Community
Hole Lake Diversion and Water Replenishment Project	City of Riverside	This project will take flows with excessive E. coli concentrations from Hole Lake and divert them to the sanitary sewer system where they can be treated by the Riverside Regional Water Quality Control Plant. Recycled water will be pumped back to Hole Lake to the replace diverted flows. A recycled water line is already in the vicinity of this project.	104	Conceptual	Water Quality, Water Supply, Environmental

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Tequesquite Diversion and Water Replenishment Project	City of Riverside	This project will take flows with excessive E. coli concentrations from the Box Springs Channel and divert them to the sanitary sewer system where they will be treated by the Riverside Regional Water Quality Control Plant. Due to limited capacity in the sanitary sewer trunk line, flows will go through a pretreatment system, then into an underground stormwater detention. From there, flows can be metered into the wastewater system as capacity allows. Recycled water will be pumped back to Hole Lake to the replace diverted flows. A recycled water line is already in the vicinity of this project.	104	Conceptual	Water Quality, Water Supply, Environmental
City of Hemet Salt Creek Restoration Project	City of Hemet	The proposed project is to develop a habitat and waterway restoration project on 10 acres within the Salt Creek channel within the City of Hemet city limits. The work will be performed shall include identification and and CDFW approval of the Restoration Site location with Salt Creek; 2) restoration of natural contours and/or decompaction (if needed) to restore infiltration capacity within the Creek; 3) revegetation using native plans (seed and/or container plants) sourced locally and at a minimum within the same watershed, and irrigation (if appropriate); and 4) control of all non-native plant species using herbicide application and/or manual or mechanical removal under the guidance and best professional judgement of a qualified CDFW recognized Restoration Specialist.	98	Preliminary design	Water Quality, Flood Management, Environmental, Community
Box Springs SD- Groundwater Recharge at Kansas Basin	Riverside County Flood Control & Water Conservation District	This project will construct improvements within the District's existing 8.5 acre Kansas Flood Detention Basin to allow the basin to intercept and infiltrate water into the Riverside- E Groundwater Basin for conservation and reuse purposes. The District will be working on evaluating other partnership opportunities, as well as potential benefits to water quality by reducing dry weather flow discharges to the Santa Ana River. The exact form and sponsorship of the project is yet to be determined based on the investigation results and recommendations.	95	Conceptual	Water Quality, Water Supply, Flood Management
The Avenues Master Plan Storm Drain Project	City of Lake Elsinore	This project will construct 2,500 of underground storm drain pipes as well as catch basins and laterals in the "Avenues" residential neighborhood in Lake Elsinore. The project will capture stormwater in the nearby foothills by connecting to two sediment basins in order to capture as much hillside runoff as possible prior to runoff entering Lake Elsinore. This neighborhood has been subject to repeated flooding throughout the years.	94	Ready to implement	Water Quality, Flood Management

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Bradley Channel Enhancement Project	City of Perris	 The construction and enhancement of the Bradley flood control channel will provide enhanced water quality treatment methods within the stormwater channel. The enhanced water quality treatment methods will include the following: 1. Sediment reduction by utilizing hydrodynamic separators to treat and pretreat stormwater runoff. 2. The redesign of the channel bottom will enhance water infiltration going into the ground. This is a form of stormwater harvesting. 3. Redesign the channel slope with a plant pallet that facilitates treatment and filtration of stormwater runoff. 	91	Conceptual	Water Quality, Water Supply, Flood Management, Environmental
North Norco Channel, Stage 11	Riverside County Flood Control & Water Conservation District	The Riverside County Flood Control-led project will replace an existing 52-year old earthen channel with a higher capacity concrete-lined channel (with an earthen bottom) to convey the 100-year flow and significantly reduce the floodplain to be contained within the channel. Approximately 5,900 linear feet of trapezoidal and rectangular channel as well as culverts along street crossings will be replaced. This project will also construct two water quality basins to reduce runoff pollutants from adjacent land and infiltrating the stormwater runoff.	78	Ready to implement	Water Quality, Flood Management
Lakeland Village MDP Line H	Riverside County Flood Control & Water Conservation District	This project will construct 7,177 feet of underground storm drain pipes as well as any lateral system and additional drainage structures located in the Lakeland Village community near Lake Elsinore. This project will capture stormwater in the nearby foothills with a sediment/debris basin to be constructed in order to capture as much sediment as possible in order to prevent it from entering the impaired Lake Elsinore.	76	Ready to implement	Water Quality, Flood Management
Calimesa Channel Stage 3	City of Calimesa	The City of Calimesa-led project will provide flood protection and reduce erosion along Calimesa Creek and adjacent public facilities. This project will be broken up into two phases. Phase 1 includes the construction of approximately 1,700 feet of storm drains along County Line Road. Phase 2 includes construction of approximately 350 feet of storm drain tying into the existing trapezoidal channel and a 53 acre-foot detention basin. There is also a concurrent plan to utilize the basin as a groundwater recharge basin in partnership with South Mesa Water District to potentially expand on water supply needs.	71	In design	Water Supply, Flood Management
Magnolia Center Storm Drain Low Flow Diversion Project	Riverside County Flood Control & Water Conservation District	This project will consist of diverting stormwater flows being discharged from the 120" Magnolia Center storm drain into the Santa Ana River and including a diversion structure to capture low flows, a treatment device to remove floatable trash and sediments, a valve vault and a discharge pipe to tie into the existing 48" sewer manhole, flow measuring assembly, and controls such as a rain switch during the storm event. The City of Riverside, a project partner, will maintain the stormwater treatment device and operate the diversion system.	69	Preliminary design	Water Quality, Water Supply

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Good Hope – Olive Avenue Storm Drain, Stages 1 and 2	Riverside County Flood Control & Water Conservation District	Construction of Olive Avenue Storm Drain, Stages 1 and 2. It is designed to intercept the 100-year flow rates at proposed collection points and convey them to an existing culvert outlet located at Highway 74. There are numerous flood complaints in this area of Good Hope and this storm drain is meant to mitigate reoccurring flooding issues from impacting residents. Further studies are being conducted in order to determine if the proposed detention basin has infiltration capacity to facilitate water quality benefits.	68	In design	Water Quality, Flood Management
Eastvale Line D	Riverside County Flood Control & Water Conservation District	This is a collaborative project between the District and the Jurupa Community Services District (JCSD) to divert dry weather flows from an existing District-owned storm drain to a JCSD sanitary sewer line with the goal of addressing bacteria issues in the Middle Santa Ana River. The water quality enhancement project is planned to include various size pipe and various appurtenant features. The District intends to fund the entire design and construction of the project.	66	Conceptual	Water Quality, Water Supply
Eastvale Line E	Riverside County Flood Control & Water Conservation District	This is a collaborative project between the District and the Jurupa Community Services District (JCSD) to divert dry weather flows from an existing District-owned storm drain to a JCSD sanitary sewer line with the goal of addressing bacteria issues in the Middle Santa Ana River. The water quality enhancement project is planned to include various size pipe and various appurtenant features. The District intends to fund the entire design and construction of the project.	66	Conceptual	Water Quality, Water Supply
Lakeview Subbasin Recharge Feasibility Study	Eastern Municipal Water District	The purpose of the Eastern Municipal Water District (EMWD) Lakeview Subbasin Recharge Feasibility Study (Study) is to evaluate the feasibility of recharging water in the Lakeview Subbasin (Subbasin) via surface infiltration of local stormwater and imported surface water. This Study is a continuation of a feasibility review completed by Woodard & Curran in July 2019 and December 2021 with the long- term goal to collect additional hydrogeologic data to further evaluate the feasibility of a recharge project in the Subbasin for conjunctive use and/or banking.	64	Conceptual	Water Supply, Flood Management
Day Creek Channel Water Conservation Restoration	Riverside County Flood Control & Water Conservation District	This project will restore function to a water conservation/habitat area that was constructed within Day Creek Channel, Stage 5, using available funds from the Day Creek Area Drainage Plan. This project is not fully scoped, and the budgeted amount will be refined as more details become available.	58	Conceptual	Water Supply, Environmental
Marshall Creek, Stage 1	Riverside County Flood Control & Water Conservation District	An improvement of the existing Marshall Creek Channel. The unimproved channel has been subject to various flood complaints including erosion, sedimentation, vegetation overgrowth, and damage to private property. This improvement will most likely be a combination of open channel and underground reinforced concrete box. The project will provide flood protection and convey 100-year storm flows.	57	In design	Water Quality, Flood Management, Community

Project Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Lindsay Pipeline and Storm Drain Improvements	Jurupa Community Services District	The project includes design and construction of 42-inch water pipelines and potentially three (10 MG) each reservoirs. The project also consists of hydrological study of the disturbed area design and construction of stormwater pipelines to avoid potential unmanaged run-off from the reservoirs site and pipeline area. JCSD is lookingto partner with City of Jurupa Valley to construct new sidewalks, curbs, and gutters which would reduce potential flooding in this area, manage flows to nearby storm channels, and reduce erosion and sedimentation.	56	Preliminary design, In design	Water Supply, Flood Management, Environmental, Community
Bedford Canyon Channel, Stage 1	Riverside County Flood Control & Water Conservation District	Construct a flood control channel along the Bedford Canyon Wash to safely convey the 100-year storm flows. This will also reduce the amount of instream erosion and sediment build-up produced along the existing natural channel. This project is exploring the option for the channel invert to have the ability to infiltrate stormwater flows. This sediment builds up in a city-owned concrete channel. This project will also provide space for a future trail alongside the channel that would offer recreational opportunities for the community.	56	In design	Flood Management
Sedco MDP Lines A, B, and C	City of Wildomar	Construction of three Master Drainage Plan storm drains in the Sedco Area of Wildomar.	55	Preliminary design	Water Quality, Flood Management
Temescal Basin Stormwater Capture and Recharge	City of Corona, Utilities Department	Significant rainfall events in the watersheds surrounding the Temescal Groundwater Basin generate large volumes of runoff that currently flows through stormwater systems designed solely for flood control. In pre-development conditions much of this runoff infiltrated and recharged groundwater. However, urban development has increased impermeable area focused runoff to detention ponds and lined stormwater channels, limiting opportunities for groundwater recharge. Further, private development in the area often includes onsite stormwater detention and/or retention systems that are not well cataloged. The City of Corona (City), in its role as a member of the Temescal Basin Groundwater Sustainability Agency, plans to study opportunities for modifying existing stormwater infrastructure or adding new infrastructure for the purpose of increasing stormwater capture for groundwater recharge. The City conducted a preliminary investigation of potential stormwater capture in 2011 that indicated there may be significant available water during large precipitation events (Todd 2011). However, that study needs to be updated to include recent climate conditions and future climate change estimates. The study would include the following (1) assess and document existing stormwater systems throughout the Temescal Basin, including mapping all public and private stormwater infrastructure, (2) update hydrologic analysis of available stormwater, including assessment of differences with climate change, (3) assess benefits to groundwater using numerical model simulations, and (4) assess feasibility of converting existing stormwater infrastructure to recharge facilities.	48	Conceptual	Water Quality, Water Supply

Pre	oject Name	Project Proponent	Project Description	Score	Project Type	Benefit Categories Met
Sedco	MDP Line F-2	City of Wildomar	The City of Wildomar-led project extends the existing Sedco MDP Line F-2 to	48	Conceptual	Water Quality, Flood
			nearby Sedco MDP Basin. Proposed project consists of 600 LF of 42" reinforced			Management
			concrete pipe and 530 LF of 54" reinforced concrete pipe. This project will provide			
			will be prevented from entering the impaired Lake Elsinore.			

Propositions 84 and 1 Project Status Steering Committee Meeting

Steering Committee Meeti Item No. 4.C Marie Jauregui Project Manager November 16, 2023

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Propositions 84 and 1 Project Highlights

Proposition 84 Program

Proposition 84 SARCCUP

Final Expansion

Raitt & Myrtle Park

Integrated Watershed Protection

Proposition 1 Round 1 Groundwater Replenishment System

Proposition 1 Round 1

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Integrated Watershed Protection Program

Integrated Watershed Protection Program

- Sunnymead Master Drainage Plan Line B Stages 3 and 4 (Heacock Channel)
 - Replace existing earthen channel to an ultimate 100year concrete channel
 - Floodplain Reduction
- Bautista Optimization Pond
 - Expand on existing recharge facilities construct Six recharge ponds adjacent to Bautista Channel on 16-acre site
 - Stormwater Capture / Groundwater Recharge
- Beaumont Master Drainage Plan Line 16
 - Install approximately 7,800 feet of pipeline to connect recharge ponds owned by Beaumont Cherry Valley Water District

Santa Ana River Conservation & Conjunctive Use Program

(SARCCUP)

Santa Ana River Conservation & Conjunctive Use Program

*Target amounts for storage are dependent upon actual hydrology

• Groundwater Banking

 Banking and conjunctive use ("put and take") facilities

• Habitat Improvement

 Arundo removal and Santa Ana sucker fish habitat restoration

• Water Conservation

- Water efficiency budget creation
- Water use efficient landscaping design and upgrades

Santa Ana River Conservation & Conjunctive Use Program

Sucker Habitat Locations



Arundo Removal Locations



Water Conservation

► Water Use Efficiency Budget Assistance (SAWPA):

- Assistance for dedicated landscape meter customers,
- Up to 10 retail agencies to participate in the program,
- 1,200 acre-feet of water to be saved over three years.

Smartscape Program (Waterkeeper/Coastkeeper):

- ► Landscape design,
- ► Care for low water use plants,
- Irrigation audits,
- Irrigation tune-ups, and
- ► Workshops.

Dedicated Landscape Meter Customer Example







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Groundwater Replenishment System

- Prop 1 Round 1 grant funded a component of GWRS – Advanced Water **Purification Facility**
 - Additional microfiltration treatment
 - Reverse osmosis membrane treatment
 - Ultraviolet light disinfection
 - Decarbonation tower
 - Pumps
 - Chemical tank
- *New water supply*: provide 26,000 to 31,000 AFY of new water supply
- *Water recycling*: recycle approximately 30 mgd of secondary-treated wastewater currently discharged to ocean
- Salt reduction: reduce salt load to groundwater basin by 10,000 tons per year









Raitt and Myrtle Park



- Renamed Ed Caruthers Park
- Construct approximately 3,300 SF of bioretention basins
 - Excavation
 - Backfill with gravel and engineered soil
 - Installation of mulch and landscaping
- Construct Stormchamber system
- Site development
 - Concrete perimeter wall
 - Drinking water fountains
 - Paving, hardscape, pathways
 - Waste receptacles
 - Utilities and lighting
 - Site drainage
- *Groundwater Recharge*: 5.3 AFY
- Stormwater Management
- Pollutant Load Reduction to Newport Bay

Questions?

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Thank You

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OWOW STEERING COMMITTEE MEMORANDUM NO. 2023.8

DATE:	November 16, 2023
то:	OWOW Steering Committee
SUBJECT:	California Water Plan Update 2023 Public Review Draft
PREPARED BY:	Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

DISCUSSION

Every five years the California Department of Water Resources (DWR) releases an updated version of the California Water Plan (Plan). The Plan is required by Water Code Section 10005(a); it presents the status and trends of California's water-dependent natural resources; water supplies; and agricultural, urban, and environmental water demands for a range of plausible future scenarios.

The major themes of the Plan are:

- Climate resiliency
- Equity
- Watershed resiliency

The theme of Watershed Resilience is of critical importance to the OWOW Steering Committee and OWOW planning process. The Plan includes the first public description of a new DWR program, the Watershed Resilience Program. The Budget Act of 2021 and 2022 provides funding for DWR to begin implementing elements of this new program.

The budget authorized is \$161 million over four years for watershed climate resilience to be provided as grants for drought resilience and identification and assessment of climate risks on a watershed basis. SAWPA submitted a comment letter on the Plan on October 16, 2023, including comments focused on the Watershed Resilience Program. Through this Program, DWR is currently seeking to fund several pilots "watershed networks" to conduct local water resource and climate planning. The pilots will then inform the future State-wide version of this DWR grant program.

ATTACHMENTS:

1. PowerPoint Presentation

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California Water Plan Update 2023 Public Review Draft

OWOW Steering Committee Item No. 5.A Ian Achimore Senior Watershed Manager November 16, 2023





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Background on the Water Plan

- Every five years the California Department of Water Resources (DWR) releases an updated version of the California Water Plan (Plan).
- The Plan is a comprehensive compilation of water data that guides future water policy in the State.
- Required by Water Code Section 10005(a), it presents the status and trends of California's water-dependent natural resources; water supplies; and agricultural, urban, and environmental water demands for a range of plausible future scenarios.

STATE OF CALIFORNIA DEPARTMENT OF WATER RESOURCES DIVISION OF RESOURCES PLANNING

Bulletin No. 3

The

CALIFORNIA

WATER PLAN



GOODWIN J. KNIGHT

HARVEY O. BANKS Director of Water Resource

What The Plan Is Not

- Can't mandate actions or authorize spending for specific actions,
- Doesn't make project- or site-specific recommendations nor include environmental review as would be required by the California Environmental Quality Act, and
- Requires policy- and law-makers to take definitive steps to authorize the specific actions proposed in the Plan and appropriate funding needed for their implementation.

Those That Use the Water Plan

- **Elected officials**
- **Government** agencies
- Tribes
- Water and resource managers
- Businesses
- Academia
- General public



WATER PLAN

Public Review Draft

September 2023

Major Themes of the 2023 Plan

- **Climate resiliency**
- Equity
- Watershed Resiliency



Average Value 1.000

Figure ES-3 Projected Climate Vulnerabilities Vary across California



Source of graphic: Draft California Watershed Resilience Assessment (California Department of Water Resources 2023 5 | Commission Meeting

Climate Resiliency

- Draft Plan states existing infrastructure not designed to manage climate challenges.
- Next Plan will include a more advance analysis of climate analysis at watershed scale.
- DWR will specifically evaluate the potential for adaptive operations for the State Water
 Project to accommodate increasing variability.

SAN FRANCISCO



Equity

- In 2022, Governor Newsom committed to creating a "California for all" by signing Executive Order N-16-22, directing State agencies to take critical actions and address equity in all strategic plans and updates."
- The draft Plan recommends that the State and local entities should build upon and expand models for community involvement, including meeting facilitation, language access services, and financial compensation for participation.





Watershed Resiliency

- Watershed Networks are envisioned as "built around commitments to inclusive governance and decision-making, cutting edge climate science, and planning at appropriate watershed scales."
- Watershed networks provide all water-related sectors a seat at the table to collaborate on understanding climate vulnerabilities and system function, formulating multi-benefit adaptation and management strategies, and tracking watershed outcomes for transparency and accountability" (draft Plan page 5-11)







The DWR Definition of Watershed Networks

These networks "need to represent a broader crosssection of local voices and perspectives, contributing to water plans and projects that are more naturally integrated across such sectors as stormwater, sanitation, recycling, and groundwater management. For example, Tribal government representation on decision-making bodies facilitates the incorporation of indigenous knowledge and practices of holistic watershed management." (page ES-14 of the draft Plan)



Funding Watershed Networks

- The Budget Act of 2021 and 2022 provided funding for DWR to begin implementing elements of a new Watershed **Resilience Program.**
- The budget authorized \$161 million over four years for watershed climate resilience to be provided as grants for drought resilience and identification and assessment of climate risks on a watershed basis.
- DWR is currently seeking to pilot the program by funding several pilot watershed networks to conduct this type of planning. The pilots will then inform the future State-wide grant program.



SAWPA Comment Letter

- Submitted October 16, 2023.
- Highlights several items:
 - No mention of per- and polyfluoroalkyl substances (PFAS) and emerging constituents such as microplastics in the draft Plan,
 - Text needed regarding flood water as a source of water supply and how the State is investing in stormwater capture. Text needed that describes how watershed resilience will be accomplished via a driving/convening group, such as IRWM
 - administrators.





- Final version of the Plan to be released by "the end of the year."
- DWR staff have recently stated that pilot watersheds will be announced after final Plan is released, and
- SAWPA to meet with DWR management staff who wrote the Plan's section on equity on November 20, 2023.



Questions?

Thank You

lan Achimore Santa Ana Watershed Project Authority (951) 354-4233 iachimore@sawpa.org sawpa.org





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Grant Funded Project HighlightsSteering Committee Meeting

teering Committee Meeti Item No. 5.B Marie Jauregui Project Manager November 16, 2023





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Propositions 84 and 1 Project Highlights

Proposition 84 Program

Proposition 84 SARCCUP

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Raitt & Myrtle Park

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Proposition 1 Round 1

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Santa Ana River Conservation & Conjunctive Use Program

(SARCCUP)





Santa Ana River Conservation & Conjunctive Use Program



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• Habitat Improvement

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- Water use efficient landscaping design and upgrades











Santa Ana River Conservation & Conjunctive Use Program

Sucker Habitat Locations



Arundo Removal Locations



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Dedicated Landscape Meter Customer Example







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Groundwater Replenishment System

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 - Site drainage
- *Groundwater Recharge*: 5.3 AFY
- Stormwater Management
- Pollutant Load Reduction to Newport Bay

Questions?

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Thank You

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OWOW STEERING COMMITTEE MEMORANDUM NO. 2023.9

DATE:	November 16, 2023
то:	OWOW Steering Committee
SUBJECT:	Watershed-Wide Basin Monitoring Program Task Force Update
PREPARED BY:	Ian Achimore, Senior Watershed Manager

RECOMMENDATION

Receive and file.

DISCUSSION

Per the Santa Ana Basin Plan (specifically its 2004 Plan Amendment), the Basin Monitoring Program Task Force has several major monitoring related tasks (deliverables) to the Santa Ana Regional Water Quality Control Board (Regional Water Board) listed in the table below. SAWPA serves as the Basin Monitoring Program Task Force administrator since the SAWPA Commission's approval of a 2004 task force agreement.

The Santa Ana Basin Plan is the key regulatory document for groundwater and surface water quality in the Santa Ana River Watershed. There are over twenty task force members across the watershed who pool funding and staff resources to comply with the monitoring-related requirements contained in the 2004 Basin Plan Amendment. This is done for several reasons including 1) assisting individual dischargers (i.e., task force agencies with treatment plants and water recycling projects) with their regulatory permit requirements, and 2) assisting the Regional Water Board with watershed-wide collaboration and water quality reporting.

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

Table 1: Major Monitoring Related Tasks

*Salt is more specifically regulated as the broader pollutant category of total dissolved solids (TDS). **Nutrients are regulated as Total Inorganic Nitrogen (TIN).

ATTACHMENTS:

1. PowerPoint Presentation

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Watershed-Wide Basin Monitoring Program Task Force Update

OWOW Steering Committee Meeting Item No. 5.C Ian Achimore Senior Watershed Manager November 16, 2023







SAWPA and Task Forces

SAWPA administers several task forces which generally have the following traits:

- SAWPA manages the contracts with task force consultants,
- Task Force has as an annual budget which the members contributes to,
- Task Force has a focus on regulatory compliance,
- Task Force has water agency members*,
- Task Force has a regulatory agency partner, and
- Task Force meets on a regular frequency, such as monthly or quarterly.

*Usually flood control districts, retail water agencies and/or wholesale water agencies.



Background on Regional Board & Basin Plans

- Each of the nine regional boards adopt a Basin Plan, which recognizes regional differences in existing water quality, and the beneficial uses of ground and surface waters.
 - The Basin Plan establishes water quality standards for the ground and surface waters of the region.
- The Regional Board also regulates waste discharges to minimize and control their effects on the quality of the region's ground and surface water.
 - Discharge permits are issued under several programs and authorities.



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Santa Ana Basin Plan History

- The 1971 Interim Water Quality Control Plan set water quality objectives for the Santa Ana River, specifically at Prado Dam.
- Also in the early 1970s, the Regional Board was investigating the salt balance in the upper watershed.
- The 1975 Basin Plan outlined a specific water quality management scheme designed to improve groundwater quality in the upper watershed.
- During public hearings to consider adoption of the 1995 Basin Plan, several water agencies commented that the salt and nutrient-related groundwater objectives should be reviewed, considering the estimated cost of compliance (several billion dollars).



How the Task Force Started

- From 1995 to 2003, local water agencies funded watershed-wide studies to review the salt and nutrient-related water quality objectives in the 1995 Basin Plan.
- Their work led to a Basin Plan Amendment in 2004.
- As part of the 2004 amendment, water quality objectives were updated, and new monitoring tasks were added.
 - The individual agencies (which became the Basin Monitoring Task Force) were identified as responsible for certain monitoring-related tasks.



Why the Task Force Started

- Because new monitoring-related tasks were included in the 2004 Basin Plan Amendment, and Task Force members were named as responsible for some of these tasks.
- And more broadly to -
 - Assist individual dischargers (i.e. task force agencies with treatment plants and water recycling projects) with their regulatory permit requirements*.
 - Assist the Regional Board with watershed-wide collaboration and water quality reporting.

*Specifically, their water quality regulatory requirements for two pollutants – salt and nutrients.





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Major Monitoring Related Tasks

Deliverable/Task	Description/Purpose	Timeline for Completion
Ambient Water Quality Update	Analysis of salt* and nutrients** in Santa Ana River Watershed's 35 groundwater management zones (over 4,000 wells).	Performed every three years (going forward it will be done every five years).
Annual Report of SAR Water Quality	Preparation of Santa Ana River surface water quality report.	Performed 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.

*Salt is more specifically regulated as the broader pollutant category of total dissolved solids (TDS). **Nutrients are regulated as Total Inorganic Nitrogen (TIN).

Current Task Force Members

Beaumont Cherry Valley Water District*	Elsinore Valley Municipal Water D
Chino Basin Watermaster	Inland Empire Utilities Agency
City of Banning*	Irvine Ranch Water District
City of Beaumont	Jurupa Community Services Distri
City of Corona	Orange County Water District
City of Redlands	San Bernardino Valley Municipal
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 Co Regional W Authority/Western Municipal Wat
Eastern Municipal Water District	Yucaipa Valley Water District

- Four new agencies added in 2015 (noted with *)
- Santa Ana Regional Board also a non-funding task force agency

District fict Water District*

*

astewater ter District





Major Accomplishments of the Task Force

- 1) Twelve Annual Reports of SAR Water Quality
- 2) Five Ambient Groundwater Updates
- 3) Two Wasteload Allocation Model Updates
- 4) Dozens of Discharge Permit Renewals
- 5) Four Basin Plan Amendments
- 6) Prevented 303(d) Listings
- 7) <u>ZERO</u> Litigation





Recent Task Force Activities

- Updates to monitoring works plans for surface and ground water,
- Analysis of potential groundwater monitoring gaps in the watershed,
- New monitoring sites managed by the Task Force, and
- Draft versions of regulatory documents:
 - Declaration of Conformance with 2019 Recycled Water Policy, and
 - 2024 Basin Plan Amendment.



Ground and Surface Water Work Plans

- Recommendations for Future Groundwater Work (Example):
 - Update the storage models for groundwater management zones (GMZs) where new or improved understanding is available.
 - Pilot the new groundwater monitoring calculation method prior to selection.
- Recommendations for Future Surface Water Work Plans (Example):
 - Develop and perform a "Special Study" to address data gaps in Santa Ana River Reach 3 to better quantify the magnitude and quality of rising groundwater and streambed recharge.





hitoringTF_2023\SAR_Surface_Monitoring_lan.mxd SW-3174

Santa Ana River Reaches

Monitoring Across the Watershed

- The Task Force is dedicated to using the best science and relies on over 4,000 wells for TDS and Nitrogen groundwater monitoring data,
- The surface water monitoring involves 13 sites along reaches 2 through 5 for the Santa Ana River. Several agencies currently collect this data:
 - Basin Monitoring Task Force (Beginning in 2024)
 - Orange County Water District
 - Regional Board
 - U.S. Geological Survey





Potential Groundwater Data Gaps

- As a requirement of the 2019 Recycled Water Policy, the Task Force develop a data gap report that included the following:
- 1. Identified the potential data gaps in each of the 35 groundwater management zones (GMZ),
- 2. Defined the criteria to prioritize the timeframe for resolving potential data gaps, and
- 3. Recommended the agencies to resolve potential gaps in each GMZ.



Canyon GMZ (Example)

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Next Steps for Task Force

- Provide Regional Board with draft Basin Plan amendment package for their April 2024 Board Meeting
 - Basin Plan amendment package will include text that modifies some of the calculations for surface water and groundwater monitoring per the recent work plans.
- Implement surface water and groundwater work plans,
- Address data gaps over the next five years, and
- Implement "Special Study" over the next several years.

Questions?

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Thank You

Ian Achimore Santa Ana Watershed Project Authority Office (951) 354-4233 iachimore@sawpa.org sawpa.org







OWOW STEERING COMMITTEE MEMORANDUM NO. 2023.10

DATE:	November 16, 2023
то:	OWOW Steering Committee
SUBJECT:	Integrated Climate Adaptation and Resiliency Program Regional Resilience Planning and Implementation Grant Program
PREPARED BY:	Rachel Gray, Water Resource and Planning Manager

RECOMMENDATION

Receive and file.

DISCUSSION

This informational item has been developed to inform the One Water One Watershed (OWOW) Steering Committee of a grant opportunity available through the Governor's Office of Planning and Research Integrated Climate Adaptation and Resiliency Program's (ICARP) Regional Resilience Planning and Implementation Grant Program (RRGP). The RRGP will invest funding into regions advancing resilience and responding to their regions' greatest climate risks through three major activities: capacity building, planning (including identifying climate resilience priorities), and project implementation.

The first grant cycle will invest \$9.4 million for regions planning for climate adaptation and developing action plans that prioritize projects or actions addressing the greatest climate risks facing a region, particularly in the most vulnerable communities.

SAWPA submitted a grant application to the Governor's Office of Planning and Research to develop a regional Climate Adaptation and Resilience Plan for the Santa Ana River Watershed. A determination on successful grant application is anticipated in November 2023.

SAWPA's experience performing integrated watershed management would pivot to defining watershed-scale climate risks, development of watershed-wide climate adaptation strategies that highlight the planned and potential resiliency projects and strengthen broad-based partnerships that advance shared interests across the region. The vision is to advance the implementation of watershed resilience in the Santa Ana River watershed through the development of a Regional Climate Adaptation and Resilience Plan.

A decision on the grant application is expected mid-December, 2023.

CRITICAL SUCCESS FACTORS

- Leverage existing information for the benefit of SAWPA, its members, and other stakeholders.
- Active participation of a diverse group of stakeholders representing counties, cities, and water districts, as well as the tribal communities and the regulatory, community-based, and environmental justice communities who integrate the different interests in the watershed beyond political boundaries. Ensuring all perspectives are heard and valued during the development of the regional climate adaptation and resilience plan.

- SAWPA has a strong reputation and sufficient capacity within SAWPA staff for strategic facilitation, planning, communication, leadership and community engagement.
- Supplement the OWOW Plan with the Regional Climate Adaptation and Resilience Plan.

RESOURCE IMPACTS

The application effort cost to respond to the grant program is covered by the existing Planning Department's budget.