

DIRECTOR AB 1234 REPORT

Director Name: B. J. Atkins

Meeting Attended: ACWA Groundwater Committee

Date of Meeting: 2/21/19

Board Meeting to Be Presented At: 3/5/19

Points of Interest: Meeting took place at ACWA Office in Sacramento and was attended by nearly 50 members from Water Agencies across CA. Also in attendance were several regulatory agency staff members (i.e. USGS, DWR, SWRCB etc.) legislative analysts and several ACWA staff. An ACWA Ag Committee activity update was followed by a drinking water update, water quality update, groundwater legislation update and information on the upcoming DWR SGMA activities.

An interesting presentation on the Flood-MAR (managed aquifer recharge) program then took place. A groundwater monitoring well presentation followed with a subsequent discussion on this committee's workplan and conference program topics. Tim Parker gave an update on the activities and plans for the Groundwater Resources Association. John Woodling, ACWA GW Committee Chair then gave a brief update on the NWRA GW Caucus and GW Task Force.

Next meeting will be at the ACWA conference 5/7/19.

Committee Agenda, GRA planned events and other fascinating items are attached for Board Member review.



AGENDA

ACWA Groundwater Committee	
February 21, 2019 • 10:00 AM – 2:00 PM	ACWA Boardroom, 910 K Street, Suite 100, Sacramento
Chair, John Woodling	Vice-Chair, Eric Averett
ACWA Staff Liaisons: Dave Bolland and Melissa Sparks-Kranz	
GoToMeeting: https://global.gotomeeting.com/join/558473677 Phone Number: 1 (224) 501-3412 Access Code: 558-473-677	

REVISED 2-20-19

1. **Welcome & Self-Introductions** (15 mins).....John Woodling, Chair
2. **Committee Election Process** (10 mins).....Ana Javaid, ACWA staff
3. **ACWA Agriculture Committee Updates** (5 mins).....Bill Diedrich, Agriculture Committee Chair
4. **Drinking Water Update** (5 mins).....Dave Bolland, ACWA staff
5. **Water Quality Updates** (5 mins).....Adam Borchard, ACWA staff
 - a. CV Salts
 - b. 123-TCP
 - c. Irrigated Lands Program
6. **Groundwater Legislation Updates** (10 mins).....Adam Quinonez, ACWA staff
7. **Upcoming DWR SGMA Activities** (55 mins).....DWR SGMA staff
8. **Flood-MAR Program Update** (30 mins).....Jim Wieking and Ajay Goyal, DWR staff

- Lunch Break (30 mins)*Provided by ACWA for in-person attendees*12:25pm - 12:55pm**

9. **Groundwater Well Monitoring Presentation** (30 mins).....Miranda Fram, USGS staff
10. **Committee Work Plan Review & Conference Program Topics** (20 mins)...All Committee members
11. **Groundwater Resources Association Updates** (5 mins).....Tim Parker, GRA staff
12. **NWRA GW Caucus/GW Task Force Update** (5 mins).....John Woodling, Chair
13. **Closing** (5 mins).....John Woodling, Chair

Upcoming GWC Meetings:

- May 7, 2019 from 10:00am–11:45am at ACWA Spring Conference, Monterey, CA
- August 8, 2019 Committee Meeting (To be confirmed), Location TBD
- December 3, 2019 from 10:00am–11:45am at ACWA Fall Conference, San Diego, CA



Groundwater Resources Association of California

GRA EVENTS



CONFERENCES

2019 Legislative Symposium

March 27, 2019

Sacramento, CA

Second Annual Groundwater Sustainability Agency Summit

June 5-6, 2019

Fresno, CA

Second Annual Groundwater Congress

September 17-19, 2019

Sacramento, CA

Optimization of Remediation Systems and Long-Term Monitoring

November 13-14, 2019

Santa Ana, CA



GROUNDWATER RESOURCES ASSOCIATION
BRANCH MEETINGS



SACRAMENTO BRANCH MEETING – March 13th – CSUS 6000 J Street
Resilience From Below: Proactively Managing Groundwater To Sustain Communities And Nature In An Uncertain Future

SOUTHERN CALIFORNIA BRANCH – March 13th – Dave & Busters, 20 City Blvd West, Orange
How to Use (and Abuse) Environmental Lawyers to get Projects Done (and Make More Money Doing So)

www.grac.org

Lynne Plambeck
ACWA Groundwater Committee
2-21-19 Sacramento
Attended by Webinar

I did not attend this meeting in person because it was on the same night as the Outreach Committee on which I am a member, and I would have not made it back in time to attend that meeting. However I did attend via webinar.

I am not requesting a stipend for this meeting, because it was the same day as my committee meeting. I am merely reporting my attendance. I have attached the agenda and can provide additional information on various items to anyone interested.

I was especially interested in the FloodMAR presentation my DWR. This is a proposal for capturing flood flows and releases in the central valley, then recharging the ground water through infiltration at various locations. If this works, it would allow dam releases for flooding while still capturing flood flows without adding new expensive dams or capacity. (presentation attached)

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Flood-MAR

Using Floodwater for
Managed Aquifer Recharge

ACWA Groundwater
Committee

February 21, 2019



CALIFORNIA DEPARTMENT OF

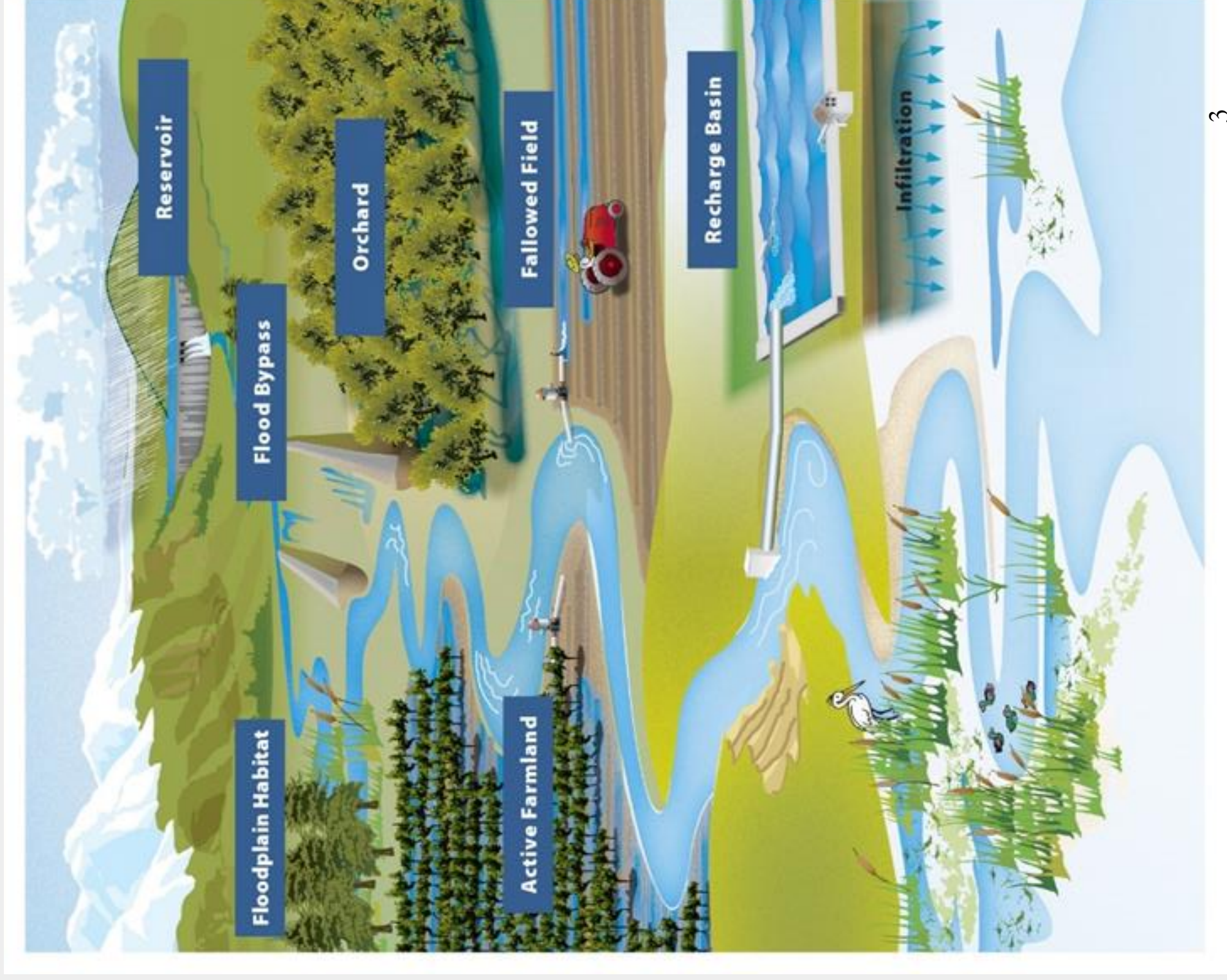
water resources

Flood-MAR for ACWA GW

FLOOD-MAR OVERVIEW

What is Flood-MAR?

Using high flows from,
or in anticipation of,
rainfall or snowmelt,
for managed aquifer
recharge on
agricultural lands,
working landscapes,
and natural managed
lands



Flood-MAR is also...

- ... an integrated & voluntary management strategy to improve water resources sustainability & climate resiliency
- ... multi-sector (flood, surface & groundwater, ecosystem, quality)
- ... scalable (farm, GSA, basin, region, watershed)
- ... multi-faceted (reoperation, conveyance, storage, recharge, banking, transfers, cultivation, restoration, etc.)
- ... an untapped part of California's water portfolio

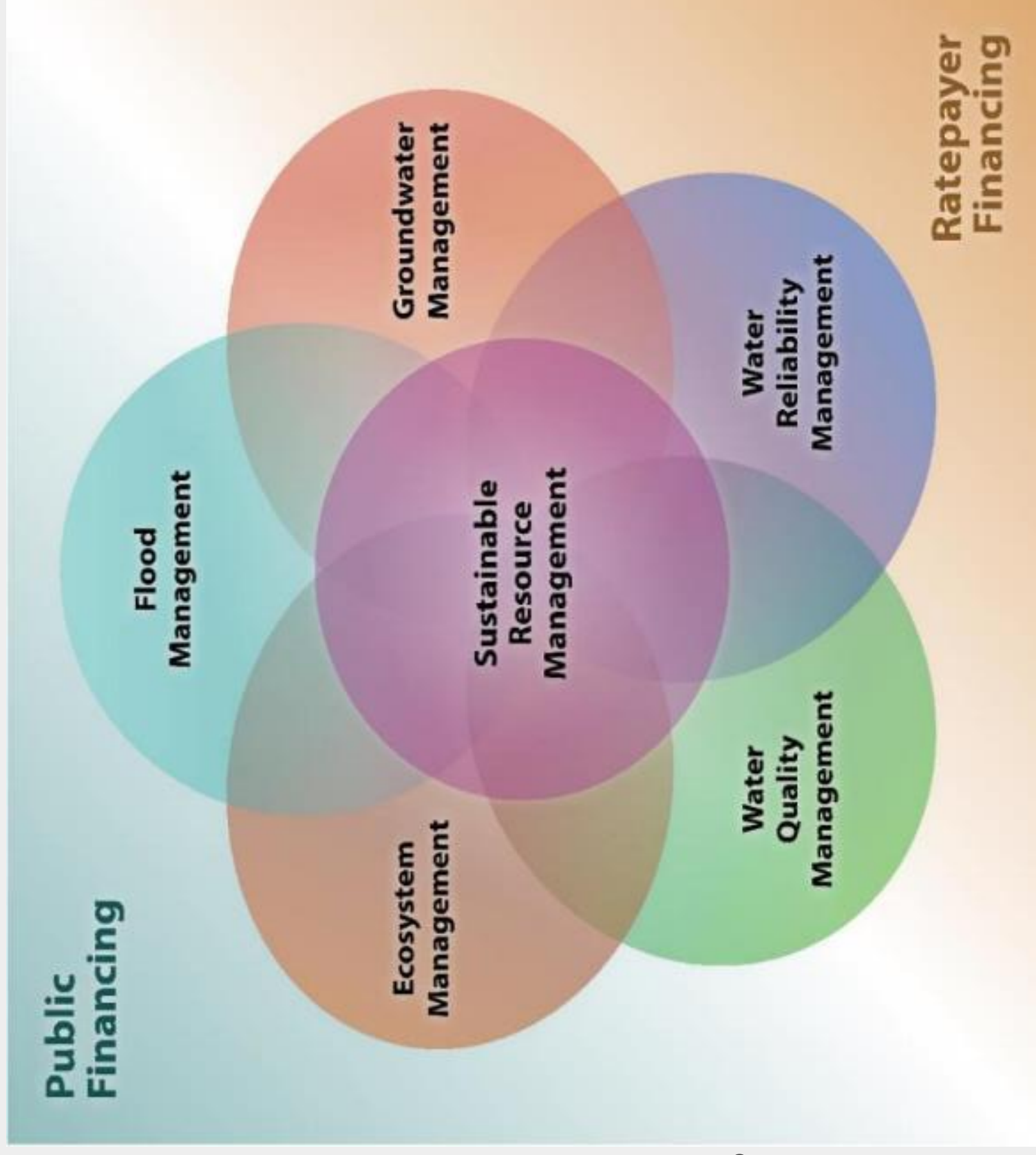


Flood-MAR is a Valuable Tool for Integrated and Sustainable Water Management

Flood-MAR Projects

Promote:

- Multi-Sector Collaboration
- Multi-Discipline Planning
- Multi-Fund Investments
- Multiple Benefits



Is Flood-MAR a New Strategy?

- Yes & No – it involves new levels of cooperation and time-tested water management actions
- Flood-MAR strives to link familiar actions on a system scale for broader benefits, such as:
 - Conjunctive use
 - Transitory storage
 - Reservoir reoperation & forecast-informed operations
 - Floodplain and flood bypass expansion
 - Diverting flood flows to ag lands
 - Aquifer recharge
 - Climate change adaptation
 - Working landscape preservation
 - Subsidence mitigation



Forecast-Informed Reservoir
Operations

Reservoir Recharge Pool

New/Expanded Reservoir

Outlet Works

New/Expanded Conveyance

to Recharge Areas

New/Expanded Flood

Bypasses/Floodplains

Suitable Recharge Areas, such
as some agricultural lands or
other working landscapes

Landowner

Compensation/Recharge

Credits


Suitable Recharge Methods

Suitable Aquifers

Ecosystem Enhancement
Features

Example Components of Flood-MAR Projects

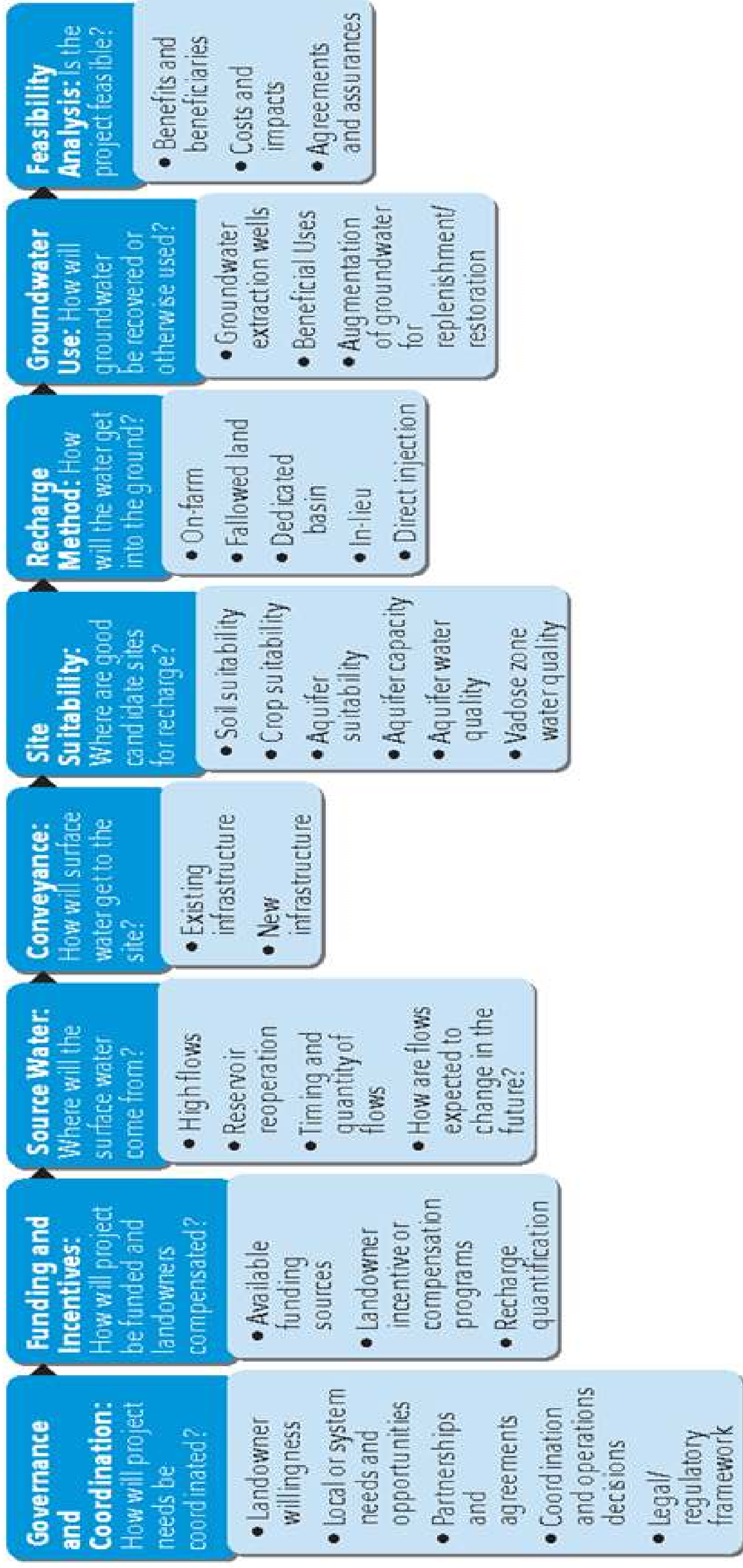
Public Benefits of Flood-MAR

- Flood risk reduction★
- Drought preparedness★
- Aquifer replenishment  Green Infrastructure
- Ecosystem enhancement★
- Groundwater remediation/water quality★
- Working landscape preservation and stewardship
- Climate change adaptation
- Recreation and aesthetics★

★ Public benefits defined
in Proposition 1



Flood-MAR Implementation Factors



Potential Barriers to Flood-MAR Implementation

- **Cooperation and Governance – trust, sector coordination, operations agreements**
- **Legal – water rights, regulations, permitting**
- **Policy – public benefit, beneficial use, landowner compensation/incentives**
- **Implementation – land use, recharge/recovery suitability, conveyance, reservoir operations, economics, funding**

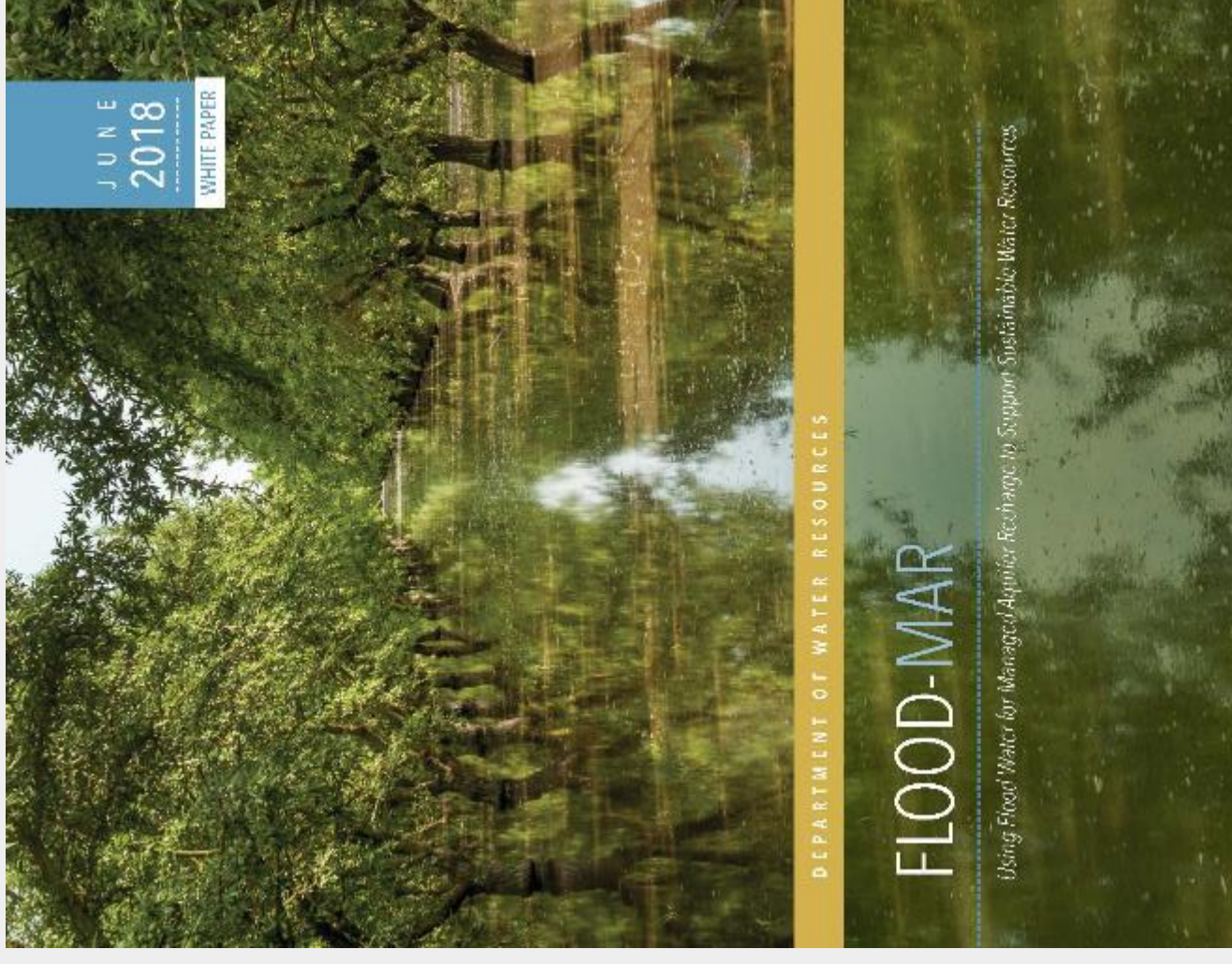


Flood-MAR for ACWA GW

DWR FLOOD-MAR ACTIVITIES

DWR Documents and Activities

- Fact Sheet
- White Paper
- Research & Data Development
- Research Advisory Committee
- Merced River Basin Reconnaissance Study
- Tuolumne River Climate Vulnerability and Adaptive Project



Next Steps

- Continue Flood-MAR Research Advisory Committee (RAC) along with 13 sub-committees
- Develop a Research & Data Development Plan
- Continue investigation of concepts identified in the White Paper
- Evaluate Flood-MAR opportunities in other river basins, coastal, mountain, desert, etc.
- Provide planning and implementation guidance
- Support implementation of Flood-MAR
- Continue stakeholder outreach



DWR Program Funding

- DWR has early funding for:
 - Conducting reconnaissance and pilot studies
 - Providing technical assistance
 - Convening potential partners and stakeholders
 - Framing research and data needs
 - Coordinating across State programs



DWR Financial Assistance Programs

- Flood-MAR Pilot Project Implementation
- Funding – Program under development
- Central Valley Tributaries Program – Applications due February 12
- Flood Corridor Program
- SGMA Implementation Grants
- IRWM Implementation Grants



Venues for Stakeholder Coordination

- Join listserv
- Comment on program documents
- Join a RAC Subcommittee
- Follow DWR on social media
- Coordinate with DWR on future studies
- Work with DWR to develop projects and strategize to overcome obstacles
- Participate in future meetings



Flood-MAR for ACWA GW

RESEARCH AND DATA DEVELOPMENT

Research Advisory Committee and R&D Plan

- Release of the Draft Research and Data Development Framework (June 2018)
- **Convening a Flood-MAR Research Advisory Committee along 13 research theme subcommittees**
- **Develop a research and data plan (R&D Plan)**

- Identify and compile existing Research, Data, and Tools
 - Identify gaps
 - Establish priority listing
 - Develop a general strategy
- Support Flood-MAR implementation and practitioners



Research Themes:

1. Hydrology Observation and Prediction
2. Reservoir Operations
3. Infrastructure Conveyance and Hydraulics
4. Crop Suitability
5. Soil Suitability, Geology, and Aquifer Characterization
6. Land Use Management
7. Water Quality
8. Recharge and Extraction Methods and Measurements
9. Environment (Aquatic, Riparian and Terrestrial)
10. People and Water
11. Economic Analysis
12. Local, State, Federal Policies and Legal
13. Tool and Application Development



Activities of the Research Advisory Committee include:

- Develop living library of knowledge
- Provide guidance to develop and support technical and scientific activities, plans, and programs
- Oversee and provide independent, transparent, credible, and competent recommendations to technical and policy-informing studies
- Lead and develop an integrated training and education program

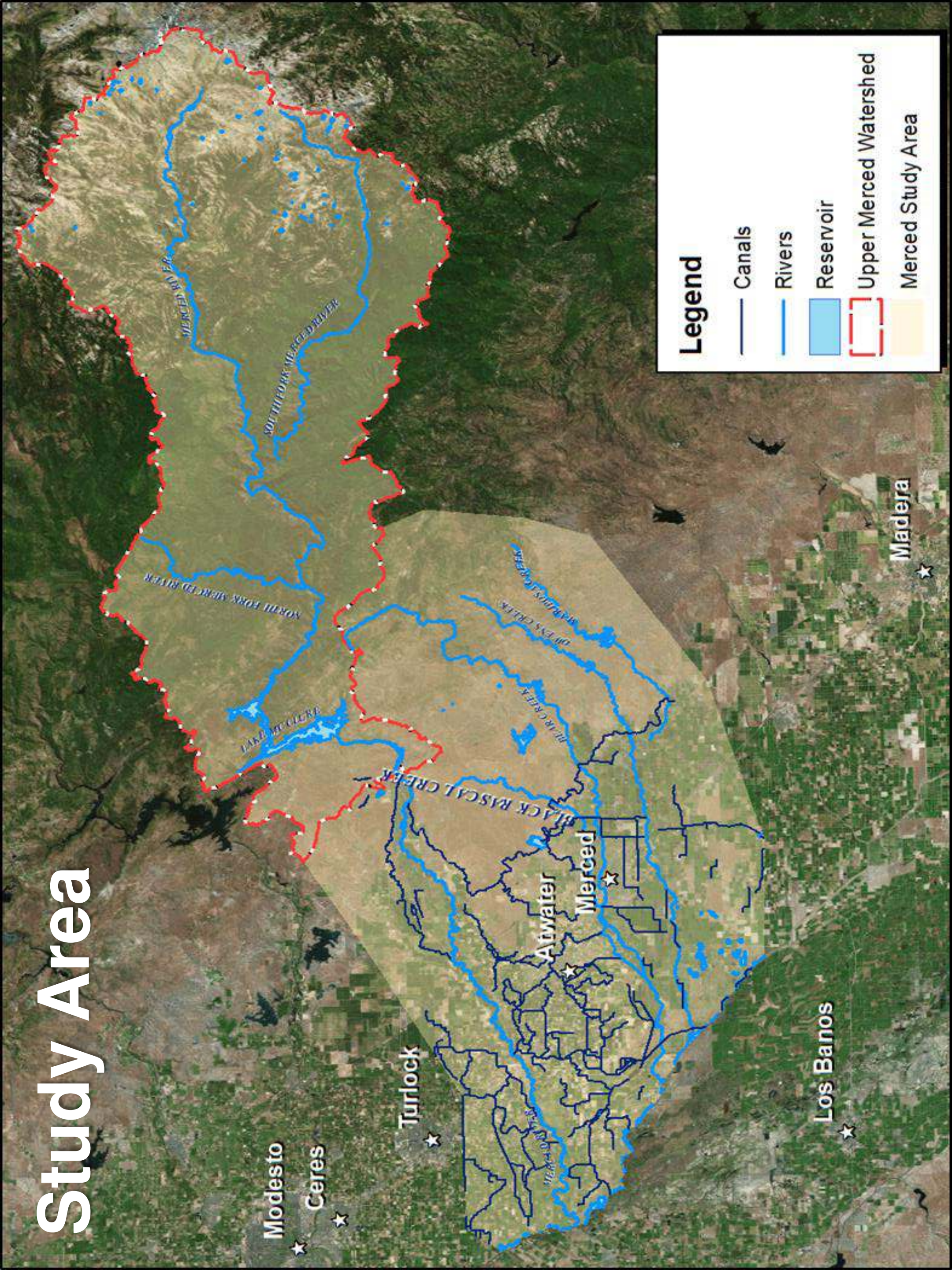


Flood-MAR Research Advisory Committee Members Kris Tjernell (DWR) - Executive Sponsor		
Romain Maendly (DWR) and Daniel Mountjoy (Sustainable Conservation) - RAC Co-Coordinators		
Themes	Theme Co-Chairs	
	State	Non-State
1. Hydrology Observation and Prediction	Michael Anderson (DWR)	Lorraine Flint (USGS)
2. Reservoir Operation	Boone Lek (DWR)	Jay Lund (UC Davis)
3. Infrastructure Conveyance and Hydraulics	Yiguo Liang (DWR)	Shyamal Chowdhury (USACE)
4. Crop Suitability	Ami Gunasekara (CDFA)	Doug Parker (UC ANR)
5. Soils, Geology and Aquifer Characterization	Tim Godwin (DWR)	Graham Fogg (UC Davis)
6. Land Use Management	Elizabeth Patterson (DWR)	Pete Parkinson (APA CA)
7. Water Quality	Scott Seyfried (SWRCB)	Thomas Harter (UC Davis))
8. Recharge and Extraction Methods and Measurements	Mark Nordberg (DWR)	Jon Parker (Kern Water Bank Authority)
9a. Environment - Terrestrial	Nat Seavy (Point Blue)	Joshua Viers (UC Merced)
9b. Environment - Riparian/Aquatic	Marc Commandatore (DWR)	Rene Henery (Trout Unlimited)
10. People and Water	Jose Alarcon (DWR)	Mike Antos (Santa Ana Watershed Project)
11. Economic Analysis	Emmanuel Asinas (DWR)	Josué Medellin-Azuara (UC Merced)
12. Local, State, Federal Policies and other Legal	Kelly Briggs (DWR)	Stacey Sullivan (Sustainable Conservation)
13. Tool and Application Development	Rich Juricich (DWR)	Samuel Sandoval (UC Davis)

Flood-MAR for ACWA GW

MERCED RIVER RECONNAISSANCE STUDY

Study Area



Legend

- Canals
- Rivers
- Reservoir
- Upper Merced Watershed
- Merced Study Area

Merced Study Purposes & Goals

- Investigate the Flood-MAR concepts & implementation factors
- Identify, discuss, and develop strategies to overcome barriers and constraints
- Integrate surface and groundwater analyses
- Assess multi-benefits and economics
- Document the process of planning, modeling, and analyzing a Flood-MAR project of this scale
- Provide template and guidance for future studies



Study Approach

- Outreach and coordination with local water interests
- Analyze a potential range of assumptions
 - How much surface water is available?
 - How will surface water get to recharge areas?
 - What are good candidate sites for recharge?
- Analysis of results: What do they tell us about implementation factors and barriers?

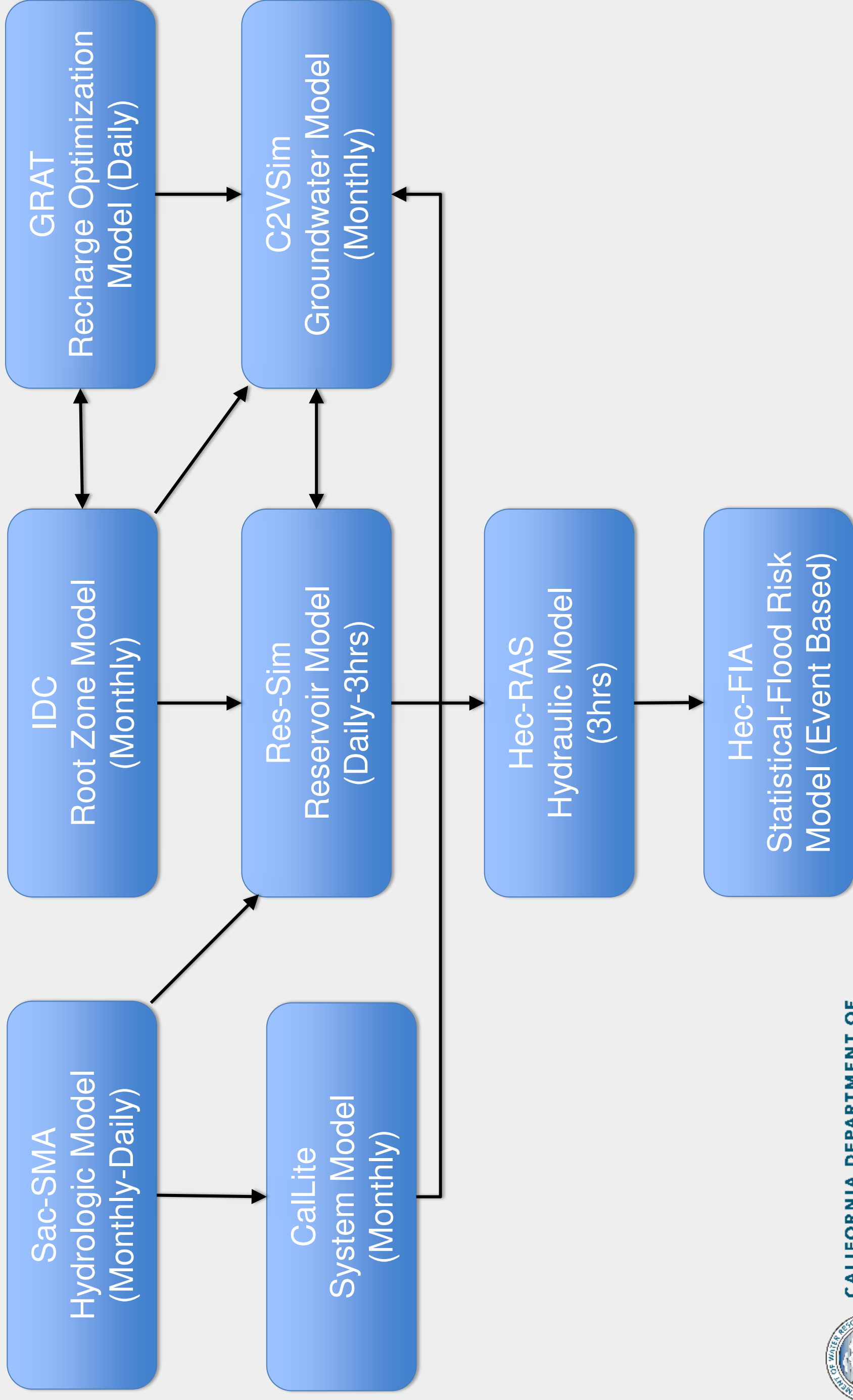


Analytical Procedure

- Analyze scalable scenarios within three progressive levels of Flood-MAR implementation
 - Level 1 – Existing Operations / Existing Infrastructure
 - Level 2 – Revised Operations / Existing Infrastructure
 - Level 3 – Revised Operations / New and Expanded Infrastructure
- Analyze climate change using a vulnerability assessment (decision scaling) methodology

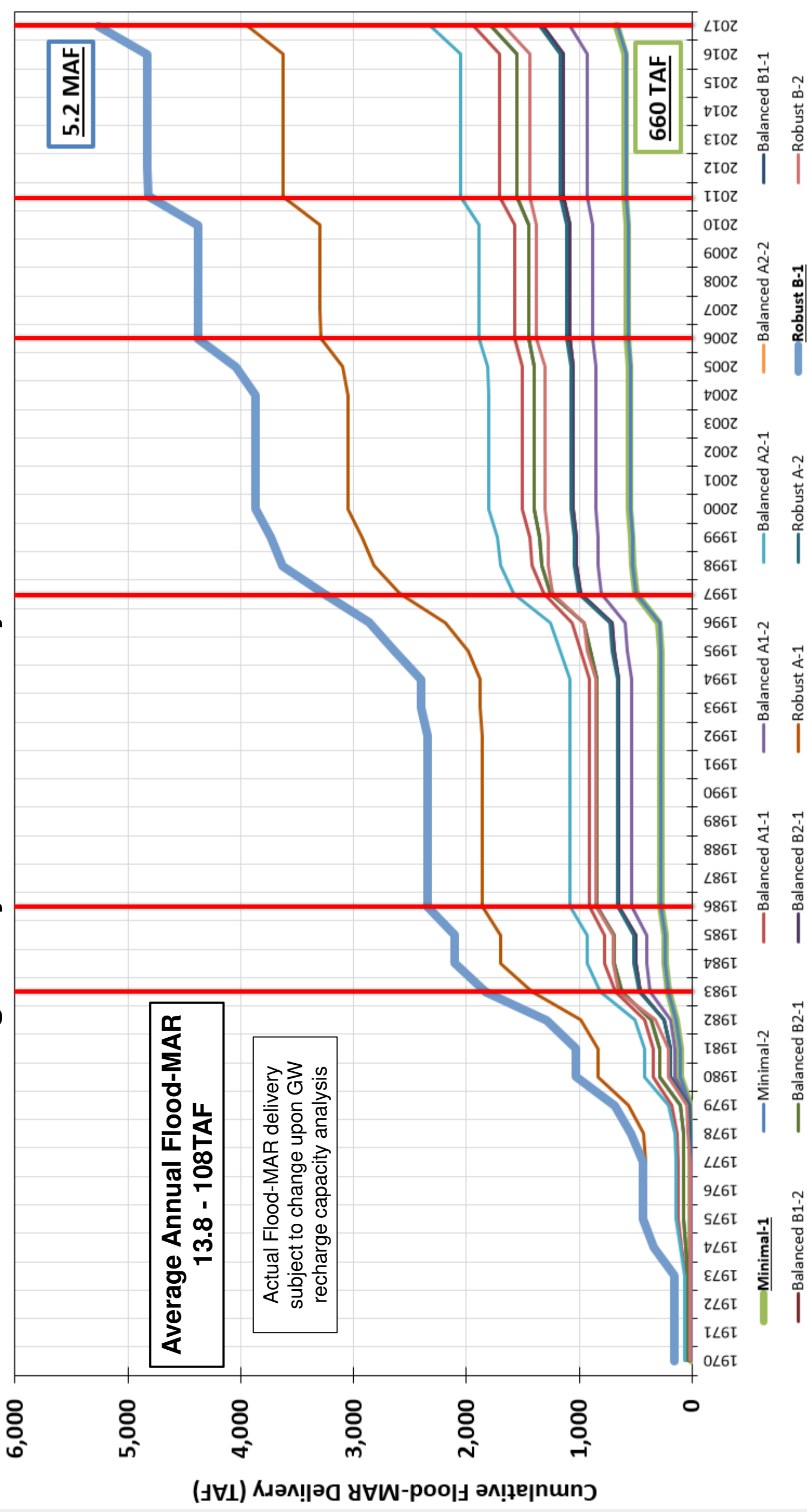


Models



Example Screening Results

Level 1 Screening Analysis – Potentially Available Water for Flood-MAR



Program Contact Information

Jim Wieking: jwieking@water.ca.gov 916-651-9279

Email: FloodMAR@water.ca.gov

Website: <https://www.water.ca.gov/Programs/All-Programs/Flood-MAR>

Flood MAR Listserv:

[https://listservice.cnra.ca.gov/scripts/wa.exe?SUBED1=DWR_FLOOD
MAR&A=1](https://listservice.cnra.ca.gov/scripts/wa.exe?SUBED1=DWR_FLOOD&MAR&A=1)



DIRECTOR AB 1234 REPORT

Director Name: Maria Gutzeit

Meeting Attended: Congresswoman Hill Briefing

Date of Meeting: 2/20/19

Board Meeting to Be Presented At: 3/5/19

Points Of Interest: President Cooper and I, along with SCV Water staff, met with two staff people from Congresswoman Hill's office to provide an overview of the agency and local issues. The Congresswoman was ill and sent her regrets.

DIRECTOR AB 1234 REPORT

Director Name: Maria Gutzeit

Meeting Attended: Assemblywoman Smith Briefing

Date of Meeting: 2/22/19

Board Meeting to Be Presented At: 3/5/19

Points Of Interest: Vice President Martin and I, along with SCV Water staff, met with Assemblywoman Smith and a staff to provide an overview of the agency and local issues.

DIRECTOR AB 1234 REPORT

Director Name: B. J. Atkins

Meeting Attended: Urban Water Institute Spring Conference

Date of Meeting: 2/27/19 – 3/1/13

Board Meeting to Be Presented At: 3/5/19

Points of Interest: Conference took place at the Palm Springs Hilton was attended by nearly 150 Water Agency Board members and staff from across CA. Also in attendance were several regulatory agency staff members (i.e. DWR, SWRCB, CFG, CSDLAC, SacRSD, LA County DPW, USBR and DC Water, etc.), and several UWI staff. Presentations were terrific and informative generally.

Of particular interest was the Keynote talk by Mr. George Hawkins, for CEO of DC Water. As a former USEPA Attorney and regulator, he has acquired a profound appreciation for unique creativity and innovation exhibited by water agency staff across the USA. I agree wholeheartedly with his assessment: “Daily these water warriors take on the challenges presented by aging infrastructure etc., (which he characterized with an apt automobile analogy). He called them “systems made up of Model T parts here, and Tesla parts there. You can’t see the problem, but you are to figure out where it is and fix it within a tight time and dollar budget. You cannot be wrong, you MUST be correct – ALWAYS and you cannot fail because public health is at risk”. He warned not to estimate future costs on what has been done in the past, but recognize the suite of technologies and tools available for use by water agencies is changing constantly. He is developing a set of water project modules, where new technologies will be captured, documented (lessons learned) so a task sheet can be created to assist water managers across the nation.

Next Conference is in August in San Diego.

Conference Program is attached for Board Member review.



**Urban Water Institute's Spring Conference • February 27–March 1, 2019
Hilton Palm Springs Hotel • Palm Springs • California**

3:30 p.m. –Networking Break –Coachella Valley Water District

3:45 p.m. –Now What? Post Elections Update
Recent elections bring new faces and some changes in the political landscape for California. Our panel of experts will share their perspectives on Washington's and California's 2018 election results and potential impacts on the California water community.

- Ane Deister, Executive Director, Urban Water Institute, Moderator
- Eric Sapirstein, President, ENS Resources
- Michael Boccadoro, President, West Coast Advisors
- John Withers, Partner, California Strategies, LLC

4:45 p.m. –Adjourn

5:00 p.m. –6:30 p.m. –Chairman's Reception – Sponsored by DUDEK (Plaza Ballroom)

6:30 p.m. –Dinner On Your Own

Friday, March 1, 2019

7:45 a.m. –Registration, Networking, Exhibits, & Buffet Breakfast –Sponsored by Western Municipal Water District (Horizon Ballroom)

Chairman's Drawing: Don't miss out on your opportunity to win an Apple Watch. Please pick up your raffle ticket at the registration desk.

8:30 a.m. –Opening Remarks

- Ane Deister, Executive Director, Urban Water Institute

8:45 a.m.–Keynote Speaker: George Hawkins (Former CEO, DC Water)

Many lament estimates of costs to upgrade the nation's infrastructure measuring in the hundreds of billions per year. For water utilities, however, these estimates are generally incorrect because they are founded on cost estimates based on past practices. Today, innovative approaches can enable utilities to improve services at a lower cost – saving ratepayer funds and providing flexibility for new investments. George Hawkins will highlight practical examples that achieve the Moonshot of a "better, faster, cheaper" outcome. He will then explore why these approaches have not been adopted more readily and conclude with practical steps for any organization to achieve their Moonshot.

- The Bumpy Road to the Utility of the Future: The Water Industry's Moonshot

Maintaining systems made up of Model T

9:45 a.m. –SGMA –Is the Dream Still Alive?

The Sustainable Groundwater Management Act (SGMA) was passed by our state legislature in 2014. The SGMA empowers local agencies to manage groundwater basins in a sustainable manner over a long-term horizon. This panel will provide an update to the implementation of the act and some of the challenges in forming GSAs and developing GSPs, and present some implementation and water allocation strategies along with compliance in an unadjudicated basin.

- John Thornton, Water Resource Consultant, Hunt Thornton Resources Strategies, LLC, Moderator
- Taryn Ravazzini, Deputy Director, California Department of Water Resources
- Trevor Joseph, Hydrogeology Practice Lead, Stantec Consulting Services, Inc.
- Eric Averett, General Manager, Rosedale-Rio Bravo Water Storage District
- Roy Herndon, Chief Hydrologist, Orange County Water District

11:00 a.m. –Communicating with the Public: What to do, What NOT to Do, and Why

While the media (social and otherwise) changes every day, the need to communicate with the public is unwavering. Our panel explores the agency's perspective on what works and what doesn't, while also providing insight on how people learn and what makes messages stick.

- Beth Beeman, Director Public Affairs, Irvine Ranch Water District, Moderator *Kent and Janet*
- Janet Yamaguchi, Vice President, Education, Discovery Cube (Ret.) *ear-thel one!*
- Phil Rosentrater, General Manager/Executive Director, Salton Sea Authority *7-11 7-14 2014*
- Ron Wildermuth, (Ret.)

12:00 p.m. –Chairman's Raffle!

Conference Adjourns

Thank You For Joining Us!

Historic Steps to Revitalize the Salton Sea

T and Tesla parts under budget constraints



**Urban Water Institute's Spring Conference • February 27-March 1, 2019
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9:30 a.m. - Tapping into the World of Possibilities for the Largest Potable Reuse Project in the World

The 150-mgd Regional Recycled Water Program being considered by the Metropolitan Water District and the Sanitation Districts of Los Angeles County is a multi-agency undertaking requiring close collaboration and coordination among Metropolitan, the Sanitation Districts, Metropolitan member agencies, groundwater basin managers, and others. This panel provides a candid discussion of the implementation challenges and opportunities ahead for this ambitious program. It explores the unique perspectives of three of those agencies: (1) the Sanitation Districts, (2) Metropolitan, and (3) the Upper San Gabriel Valley Municipal Water District - one of the potential recipients of the project's purified water.

- Paul Brown, Consultant, Moderator
- Deven Upadhyay, Assistant General Manager, Metropolitan Water District
- Tom Love, General Manager, Upper San Gabriel Valley Municipal Water District
- Ray Tremblay, Facilities Planning Director, Sanitation Districts of Los Angeles County

10:30 a.m. - Proposition 1 - Storage Project Grants - Success Stories

Irvine Ranch Water District and Rosedale-Rio Bravo Water Storage District successfully secured \$67.5 million in conditional Water Storage Investment Program (WSIP) funding for the Kern Fan Groundwater Storage District. This innovative storage project's expected benefit and how the two districts and four consulting firms collaborated in navigating the complex WSIP application and selection process, will be described. The Sacramento Regional San District will receive \$280.5 million in Proposition 1 grant funding to help make the South County Ag Program a reality for the Sacramento region that will deliver highly treated recycled water for agricultural irrigation in the southern portion of Sacramento County, reducing the groundwater pumping. Nearly \$1 Million in Proposition 1 funds will be awarded for the Sites reservoir project on the northwest side of the Sacramento Valley that provides operational flexibility, achieves co-equal goals, dedicates water for fish, mitigates climate change and contributes to renewal energy goals.

- Mary Aileen Matheis, Vice President, Irvine Ranch Water District, Moderator
- ① Paul Weghorst, Executive Director for Water Policy, Irvine Ranch Water District
- Prabhakar Somavarapu, District Engineer, Sac Regional Sanitation District
- Jim Watson, General Manager, SITES Project

① ED of Water Policy IRWD
(949) 453-5632
weghorst@irwd.com

② RRBV - WSD GM Eric Pierrett
(925) 589-6645
pierrett@rrbwsd.com

11:30 a.m. - Networking Break - Irvine Ranch Water District

11:45 a.m. - The Story Behind Passage of the Future Water Measure in Los Angeles County - Measure W

Los Angeles County voters approved Measure W in November 2018 to improve and protect water quality; capture stormwater to increase safe drinking water supplies and prepare for future drought; and protect public health and marine life by reducing pollution, trash, toxins, and plastics entering LA County waterways. Known as the Safe, Clean Water Program, the measure established a parcel tax of 2.5¢ per square foot of impermeable area, raising approximately \$300 million annually, exempting low-income seniors and requiring independent audits, oversight and local control.

- Mark Pestrella, Director, Los Angeles County Department of Public Works

12:30 p.m. - Conference Luncheon - Sponsored by Meyers Nave (Plaza Ballroom)

1:30 p.m. - Living with the Colorado River Shortage: Drought Contingency Plan

The panel will describe the process and progress associated with the development of the Colorado River Basin Drought Contingency Plans, with a primary focus on the Lower Basin Drought Contingency Plan. What is the plan intended to accomplish, and specifically how will the plan affect users in the Lower Basin states?

- Chris Harris, Executive Director, Colorado River Board, Moderator
- Chuck Cullom, Manager, Colorado River Programs for the Central Arizona Project
- Bill Hasencamp, Manager, Colorado River Resources for the Metropolitan Water District
- Tina Shields, Water Department Manager, Imperial Irrigation District
- Jack Simes, Planning Officer, US Bureau of Reclamation

2:45 p.m. - Troubled Waters: Tribal Challenges and Solutions to Allocation in the 21st Century

The dispute in Agua Caliente v. Desert Water Agency has gained national attention given its potential impact on tribal nation and water agency management of ground water assets. The panel will address the status of the lawsuit and will discuss possible options for resolving allocation and ownership disputes.

- Greg Newmark, Principal, Meyers Nave, Moderator
- Heather Welles, Legal Counsel, Coachella Valley Water District, O'Melveny & Myers
- Catherine Munson, Legal Counsel, Agua Caliente, Kilpatrick Townsend



Urban Water Institute's Spring Conference • February 27–March 1, 2019 Hilton Palm Springs Hotel • Palm Springs • California

Wednesday, February 27, 2019

12:00 p.m. –Registration, Networking, & Exhibits (Horizon Ballroom)

1:00 p.m. –Opening Remarks & Introduction

- Greg Quist, Chairman, Urban Water Institute

1:15 p.m. –Welcome to Palm Springs

- Mayor Robert Moon, City of Palm Springs

1:30 p.m. –Bay Delta –Where are we, NOW?

Despite a hard push at the end of his term, Governor Brown is leaving unfinished water business. Brown's endorsed twin tunnels still need key state permits. Governor Newsom has declared support for a single tunnel option. The water board is in the midst of adopting new flow standards for the Sacramento-San Joaquin Delta and the rivers that feed it. Water project operators, regulators and stakeholders cobbled together a voluntary agreement approach that the State Board will be considering for many of the tributaries. Federal agencies are revising Endangered Species Act protections in the Bay Delta and now, the new Governor, Gavin Newsom will set the course for the State on all of those initiatives.

- Larry Dick, Board Member, Metropolitan Water District, Moderator
- Kris Tjernell, Deputy Director, Department of Water Resources Integrated Watershed Management Program
- E. Joaquin Esquivel, Chairman, State Water Resources Control Board
- Jennifer Pierre, General Manager, State Water Contractors
- Steve Rothert, California Regional Director, American Rivers

2:30 p.m. –The Unintended Consequences of Water Conservation and How to Fix Them

Is there a dark side to saving water? We're all familiar with the unintended financial consequences of water conservation (falling revenue, increasing rates), but there are engineering and operational issues for both water and wastewater agencies that are significant, important to understand, and also have current and future financial impacts. Our panel members are experts in these unintended consequences and will provide strategies for identifying and mitigating them.

- Lisa Ohlund, General Manager, East Orange County Water District, Moderator
- Bhavani Yerrapotu, Deputy Operating Officer, Santa Clara Valley Water District
- Kurt Schwabe, Professor, University of California, Riverside

3:15 p.m. –Networking Break –Sponsored by Upper San Gabriel Valley Municipal Water District

3:30 p.m. –Myth Busting the Water Myths

Does the South really steal water from the North? Do Ag users really waste water? SoCal residents really enjoy their swimming pools and carelessly use water. True or not true? Come and find the truth or dare!

- Rich Nagel, Vice President, Jacobs Engineering
- Ken Weinberg, Delta Stewardship Council
- Charlie Wilson, Executive Director, Southern California Water Coalition

4:45 p.m. –Adjourn

5:00 p.m. –6:30 p.m. –Welcome Reception –Sponsored by Carollo Engineers, Inc. (Poolside)

6:30 p.m. –Dinner On Your Own

Thursday, February 28, 2019

7:45 a.m. –Registration, Networking, Exhibits & Continental Breakfast –Sponsored by Santa Clarita Valley Water Agency (Horizon Ballroom)

8:15 a.m. –Opening Remarks/Get to Know Our Exhibitors

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8:30 a.m. –To Flow or Not to Flow –How Sanitation Water Should be Allocated: Ecosystems vs. Recycling

Existing law requires the State Water Resources Control Board must find changes in stream flow for recycled water projects will not injure other legal users of water, will not unreasonably harm in stream uses, and is in the public interest. Within the last few years the SWRCB and California Fish and Wildlife have placed renewed regulatory focus on the wastewater change petition process (required by Water Code 1211). Join a policy level discussion about compliance with the newly adopted Recycled Water Policy, and requirements and challenges agencies are facing to advance California recycled water projects in this new regulatory framework.

- Jennifer West, Managing Director, CA WateReuse, Moderator
- Erinn Wilson, Program Manager, California Fish and Wildlife
- Mary Ngo, Senior Environmental Scientist, California Fish and Wildlife
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- Paul Prestia, Division Engineer, Sanitation Districts of Los Angeles County
- Evelyn Cortez-Davis, Assistant Director of Water Resources, Los Angeles Department of Water & Power

DIRECTOR AB 1234 REPORT

Director Name: Maria Gutzeit

Meeting Attended: Urban Water Institute

Date of Meeting: 2/27/19-3/1/19

Board Meeting to Be Presented At: 3/5/19

Points Of Interest: I found this to be a very good conference. Agenda is attached.

Of note, the speakers were universally good. I had the opportunity to meet Jennifer Pierre, GM for the State Water Contractors. Ms. Pierre and Joaquin Esquivel, new Chairman of the SWRCB opened the meeting with a focus on science and openness.

Thursday featured a very good session on San District flow allocation, as well as commentary from state, local, and federal lobbyists.

Friday started with a dynamic speaker, George Hawkins formerly with DC Water, and closed with an excellent session on communication with the public.

The speakers were top notch and the single session format enabled networking and camaraderie among water professionals, many of them local to southern California.



**Urban Water Institute's Spring Conference • February 27–March 1, 2019
Hilton Palm Springs Hotel • Palm Springs • California**

Wednesday, February 27, 2019

12:00 p.m. –Registration, Networking, & Exhibits (Horizon Ballroom)

1:00 p.m. –Opening Remarks & Introduction

- Greg Quist, Chairman, Urban Water Institute

1:15 p.m. –Welcome to Palm Springs

- Mayor Robert Moon, City of Palm Springs

1:30 p.m. –Bay Delta –Where are we, NOW?

Despite a hard push at the end of his term, Governor Brown is leaving unfinished water business. Brown's endorsed twin tunnels still need key state permits. Governor Newsom has declared support for a single tunnel option. The water board is in the midst of adopting new flow standards for the Sacramento-San Joaquin Delta and the rivers that feed it. Water project operators, regulators and stakeholders cobbled together a voluntary agreement approach that the State Board will be considering for many of the tributaries. Federal agencies are revising Endangered Species Act protections in the Bay Delta and now, the new Governor, Gavin Newsom will set the course for the State on all of those initiatives.

- Larry Dick, Board Member, Metropolitan Water District, Moderator
- Kris Tjernell, Deputy Director, Department of Water Resources Integrated Watershed Management Program
- E. Joaquin Esquivel, Chairman, State Water Resources Control Board
- Jennifer Pierre, General Manager, State Water Contractors
- Steve Rothert, California Regional Director, American Rivers

2:30 p.m. –The Unintended Consequences of Water Conservation and How to Fix Them

Is there a dark side to saving water? We're all familiar with the unintended financial consequences of water conservation (falling revenue, increasing rates), but there are engineering and operational issues for both water and wastewater agencies that are significant, important to understand, and also have current and future financial impacts. Our panel members are experts in these unintended consequences and will provide strategies for identifying and mitigating them.

- Lisa Ohlund, General Manager, East Orange County Water District, Moderator
- Bhavani Yerrapotu, Deputy Operating Officer, Santa Clara Valley Water District
- Kurt Schwabe, Professor, University of California, Riverside

3:15 p.m. –Networking Break –Sponsored by Upper San Gabriel Valley Municipal Water District

3:30 p.m. –Myth Busting the Water Myths

Does the South really steal water from the North? Do Ag users really waste water? SoCal residents really enjoy their swimming pools and carelessly use water. True or not true? Come and find the truth or dare!

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9:30 a.m. - Tapping into the World of Possibilities for the Largest Potable Reuse Project in the World

The 150-mgd Regional Recycled Water Program being considered by the Metropolitan Water District and the Sanitation Districts of Los Angeles County is a multi-agency undertaking requiring close collaboration and coordination among Metropolitan, the Sanitation Districts, Metropolitan member agencies, groundwater basin managers, and others. This panel provides a candid discussion of the implementation challenges and opportunities ahead for this ambitious program. It explores the unique perspectives of three of those agencies: (1) the Sanitation Districts, (2) Metropolitan, and (3) the Upper San Gabriel Valley Municipal Water District - one of the potential recipients of the project's purified water.

- Paul Brown, Consultant, Moderator
- Deven Upadhyay, Assistant General Manager, Metropolitan Water District
- Tom Love, General Manager, Upper San Gabriel Valley Municipal Water District
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- Mary Aileen Matheis, Vice President, Irvine Ranch Water District, Moderator
- Paul Weghorst, Executive Director for Water Policy, Irvine Ranch Water District
- Prabhakar Somavarapu, District Engineer, Sacramento Regional Sanitation District
- Jim Watson, General Manager, SITES Project

11:30 a.m. - Networking Break - Irvine Ranch Water District

11:45 a.m. - The Story Behind Passage of the Future Water Measure in Los Angeles County - Measure W

Los Angeles County voters approved Measure W in November 2018 to improve and protect water quality; capture stormwater to increase safe drinking water supplies and prepare for future drought; and protect public health and marine life by reducing pollution, trash, toxins, and plastics entering LA County waterways. Known as the Safe, Clean Water Program, the measure established a parcel tax of 2.5¢ per square foot of impermeable area, raising approximately \$300 million annually, exempting low-income seniors and requiring independent audits, oversight and local control.

- Mark Pestrella, Director, Los Angeles County Department of Public Works

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1:30 p.m. - Living with the Colorado River Shortage: Drought Contingency Plan

The panel will describe the process and progress associated with the development of the Colorado River Basin Drought Contingency Plans, with a primary focus on the Lower Basin Drought Contingency Plan. What is the plan intended to accomplish, and specifically how will the plan affect users in the Lower Basin states?

- Chris Harris, Executive Director, Colorado River Board, Moderator
- Chuck Cullom, Manager, Colorado River Programs for the Central Arizona Project
- Bill Hasencamp, Manager, Colorado River Resources for the Metropolitan Water District
- Tina Shields, Water Department Manager, Imperial Irrigation District
- Jack Simes, Planning Officer, US Bureau of Reclamation

2:45 p.m. - Troubled Waters: Tribal Challenges and Solutions to Allocation in the 21st Century

The dispute in *Agua Caliente v. Desert Water Agency* has gained national attention given its potential impact on tribal nation and water agency management of ground water assets. The panel will address the status of the lawsuit and will discuss possible options for resolving allocation and ownership disputes.

- Greg Newmark, Principal, Meyers Nave, Moderator
- Heather Welles, Legal Counsel, Coachella Valley Water District, O'Melveny & Myers
- Catherine Munson, Legal Counsel, Agua Caliente, Kilpatrick Townsend



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3:30 p.m. –Networking Break –Coachella Valley Water District

3:45 p.m. –Now What? Post Elections Update
Recent elections bring new faces and some changes in the political landscape for California. Our panel of experts will share their perspectives on Washington's and California's 2018 election results and potential impacts on the California water community.

- Ane Deister, Executive Director, Urban Water Institute, Moderator
- Eric Sapirstein, President, ENS Resources
- Michael Boccadoro, President, West Coast Advisors
- John Withers, Partner, California Strategies, LLC

4:45 p.m. –Adjourn

5:00 p.m. –6:30 p.m. –Chairman's Reception – Sponsored by DUDEK (Plaza Ballroom)

6:30 p.m. –Dinner On Your Own

Friday, March 1, 2019

7:45 a.m. –Registration, Networking, Exhibits, & Buffet Breakfast –Sponsored by Western Municipal Water District (Horizon Ballroom)

Chairman's Drawing: Don't miss out on your opportunity to win an Apple Watch. Please pick up your raffle ticket at the registration desk.

8:30 a.m. –Opening Remarks

- Ane Deister, Executive Director, Urban Water Institute

8:45 a.m.–Keynote Speaker: George Hawkins (Former CEO, DC Water)

Many lament estimates of costs to upgrade the nation's infrastructure measuring in the hundreds of billions per year. For water utilities, however, these estimates are generally incorrect because they are founded on cost estimates based on past practices. Today, innovative approaches can enable utilities to improve services at a lower cost – saving ratepayer funds and providing flexibility for new investments. George Hawkins will highlight practical examples that achieve the Moonshot of a "better, faster, cheaper" outcome. He will then explore why these approaches have not been adopted more readily and conclude with practical steps for any organization to achieve their Moonshot.

- The Bumpy Road to the Utility of the Future: The Water Industry's Moonshot

9:45 a.m. –SGMA –Is the Dream Still Alive?

The Sustainable Groundwater Management Act (SGMA) was passed by our state legislature in 2014. The SGMA empowers local agencies to manage groundwater basins in a sustainable manner over a long-term horizon. This panel will provide an update to the implementation of the act and some of the challenges in forming GSAs and developing GSPs, and present some implementation and water allocation strategies along with compliance in an adjudicated basin.

- John Thornton, Water Resource Consultant, Hunt Thornton Resources Strategies, LLC, Moderator
- Taryn Ravazzini, Deputy Director, California Department of Water Resources
- Trevor Joseph, Hydrogeology Practice Lead, Stantec Consulting Services, Inc.
- Eric Averett, General Manager, Rosedale-Rio Bravo Water Storage District
- Roy Herndon, Chief Hydrologist, Orange County Water District

11:00 a.m. –Communicating with the Public: What to do, What NOT to Do, and Why

While the media (social and otherwise) changes every day, the need to communicate with the public is unwavering. Our panel explores the agency's perspective on what works and what doesn't, while also providing insight on how people learn and what makes messages stick.

- Beth Beeman, Director Public Affairs, Irvine Ranch Water District, Moderator
- Janet Yamaguchi, Vice President, Education, Discovery Cube (Ret.)
- Phil Rosentrater, General Manager/Executive Director, Salton Sea Authority
- Ron Wildermuth, (Ret.)

12:00 p.m. –Chairman's Raffle!

**Conference Adjourns
Thank You For Joining Us!**

Director name: Gary Martin
Meeting attended: Urban Water Institute Spring Conference
Date of meeting: February 27 – March 1, 2019
Location: Palm Springs, CA
SCV Water Board meeting to be presented at: March 5, 2019

The following is a listing of the sessions held at the conference;

1. Opening remarks, welcome and Introductions
2. Bay Delta – Where are we, Now?
3. The Unintended Consequences of Conservation and How to Fix Them
4. Myth Busting the Water Myths
5. To Flow or Not to Flow; How Sanitation Water Should be Allocated: Ecosystems or Recycling
6. Tapping into the World of Possibilities for the Largest Potable Reuse Project in the World
7. Proposition 1 – Storage Project Grants – Success Stories
8. The Story Behind Passage of the Future Water Measure in Los Angeles County – Measure W
9. Living with the Colorado River Shortage: Drought Contingency Plan
10. Troubled Waters; Tribal Challenges and Solutions to Allocation in the 21st Century
11. Now What? Post Elections Update
12. Friday Breakfast Key Note Speaker: George Hawkins, Former CEO of DC Water
13. SGMA – Is the Dream Still Alive?
14. Communicating with the Public; What to do and What Not to Do, and Why

Points of Interest:

1. The opening session on Bay Delta was a great way to open the conference. The panel was excellent and provided an overview of what each organization's role is in the Bay Delta effort. E. Joaquin Esquivel, Chairman of the State Water Resources Control Board, explained what the board does and the status of Water Quality Control Plan. Jennifer Pierre, GM of the State Water Contractors described their goals as improving the use of science and flexibility in regulatory actions; improving environmental conditions; and improving water supply reliability. Ms. Pierre described the SWC's vision for decision making under the new Bay-Delta WQ Control Plan as being based on developed and tested science. The prevailing thought seemed to be that final plans for managing WQ in the Bay Delta should be developed in a voluntary and cooperative manner, involving all stakeholders.
2. The panel discussion on how sanitation water should be allocated was excellent and illustrated the complexity of navigating the "1211 process." Two points stood out to me; 1) the expanded statutory reach of CDFW as the "trustee agency" under CEQA, and 2) legal definitions of "source water" when considering what water is available for recycling, including natural, imported, foreign, contract and groundwater. Another interesting part of the panel discussion was a presentation of the SWRCB LA River Flow Study. The study is scheduled to be complete by December, 2020, and could provide a prototype for future evaluations and decisions based on balancing beneficial use and local water supply.
3. The presentation on Prop 1 storage project grant success emphasized some important contributors to winning a grant; develop and follow an aggressive timeline for application submittal; define, quantify and monetize public benefits; incorporate climate change effects; and establish beneficial relationships.



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12:00 p.m. –Chairman's Raffle!

Conference Adjourns
Thank You For Joining Us!

DIRECTOR AB 1234 REPORT

Director Name: B. J. Atkins

Meeting Attended: CSDA Professional Development Committee

Date of Meeting: 2/1/19

Board Meeting to Be Presented At: 3/5/19

Points of Interest: Meeting took place at CSDA Office in Sacramento and was attended by almost 30 members from Special Districts across CA. A review of committee financials, upcoming conference and individual training offerings was provided. This was followed by a discussion of the succession planning pipeline, the CSDA Leadership Academy, Scholarships for same and a staffing plan to support this committee going forward.

A discussion of the Annual Conference (9/25-27 in Anaheim), Legislative Days, plus the popular "So you want to be a GM" trainings and upcoming GM Summit then took place. The meeting concluded with a discussion regarding the planned Board Secretary / Clerk Conference, along with a status report on the CSDA Leadership Foundation.

Next meeting will be a conference call scheduled for June 5th, 2019.

Please Attach Agenda or Brochure if Available.



PROFESSIONAL DEVELOPMENT COMMITTEE
1112 I Street, Suite 380, Sacramento, California
February 1, 2019
12:00– 2:00 PM
CALL IN # 571-297-3003 PIN 746113

Item 1: Welcome

- a. Introductions
- b. Professional Development Committee Roster INFORMATION Page 2

Item 2: Consent Calendar

- a. Approval of November 1, 2018 minutes ACTION Page 10

Item 3: Review of 2018 Attendance & Financials

- a. 2018 Attendance – Workshop, Web, Conferences
 - b. 2018 On-Demand Purchases
 - c. 2018 Financials
- INFO/DISCUSS Page 15

Item 4: 2019 Professional Development Offerings

- a. 2017 – 2019 CSDA Strategic Plan – Pro. Dev.
 - b. 2019 Attendance Tracker
 - c. 2020 – 2022 Strategic & Staffing Plan – Pro. Dev.
- INFO/DISCUSS Page 29

Item 5: CSDA Goal Area: Succession Planning Pipeline

- a. SDA Prep Community
 - b. Special District Emerging Leaders Scholarship
- INFO/DISCUSS Page 40

Item 6: CSDA Annual Conference & Exhibitor Showcase

INFO/DISCUSS Page 45

Item 7: Special District Leadership Academy

- a. 2019 SDLA Brochure (link) *300 file*
- INFO/DISCUSS Page 46

Item 8: 2019 Special Districts Legislative Days

- a. Brochure DRAFT
- INFORMATION Page 47

Item 9: 2019 General Manager Leadership Summit

- a. Schedule DRAFT (at meeting) *300 Mgt's*
- INFO/DISCUSS Page 50

Item 10: 2019 Board Secretary/Clerk Conference

- a. Schedule DRAFT *11/12-14 Monterey*
- INFO/DISCUSS Page 51

Item 11: Special District Leadership Foundation Items

- a. Website Scholarship Application
 - b. Education Allowance Fund Application *look scholarship funds available; SD w/o website*
 - c. Kohnen, SDLA, Scholarship Application
 - d. Yeakley, SDA, Scholarship Application *~50% of SD ≠ website*
- INFORMATION Page 56
- Discount Domain
complaint = target
SB 921*

Item 12: Additional comments

INFORMATION Verbal

Item 13: Adjourn

Next Meeting: June 5, 2019, 10:15 – 11:15 a.m. next full committee meeting via conference call

10/25

AB1234 – Lynne Plambeck
The Southern California Water Dialogue
Feb.27, 2019 12:00-1:30
LACI (LA Cleantech Incubator
Room 401, 525 S. Hewitt St., downtown LA.

ITEM NO. 13.7

Program - A Wave of Change: The Revolution in Big Data for Water Use Efficiency and Water Management

Data for Water Use Efficiency

Patrick Atwater, Applied Research in Government Operations (ARGO) Patrick Atwater and ARGO (Applied Research in Government Operations) with support of the California Data Collaborative have modernized and revolutionized how, when and where water data can be put to use. For example, water usage data gathered from urban meters can instruct pricing, rebates and infrastructure investments and assist in the development of new water use efficiency and conservation tools. At the state level, common real time data regarding fish, water quality (flows, salinity), water temp, turbidity, nutrients is now available at <https://www.baydeltalive.com/>. This meeting will showcase successful case studies and discuss what this means for the future of water management (http://www.socalwater.org/files/california-water-efficiency-leading-the-way-into-the-future-final_50230.pdf).

Described Data Collaborative and its advantages (14 agencies currently participate in data sharing to compare outcomes)

Described the need for measurements to record infiltration so that water supply can be accurately estimated.

Measuring landscapes and reporting which is more efficient

Elizabeth Lovsted, Director, Water Supply Planning, Eastern MWD and Chair, California Data Collaborative Steering Committee

Described how Eastern obtains data for Water Use Efficiency

Outdoor budget based on transevaporation

SIMIS

Automated meter reading

Score card

Indoor v. outdoor

Land use and water supply planning

New uses must meet 50% of ET

Uses GIS to tract new development

Challenges – information overload, storage space, management

Tech proficiency for staff

Making sure data is secure