

# The Metropolitan Water District of Southern California

# Agenda

The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

## **PWSCRC Committee**

M. Camacho, Chair  
J. Morris, Vice Chair  
D. Alvarez  
A. Fellow  
L. Fong-Sakai  
R. Lefevre  
M. Luna  
J. McMillan  
K. Seckel  
T. Smith

## **Subcommittee on Pure Water Southern California and Regional Conveyance**

Meeting with Board of Directors \*

**June 25, 2024**

**9:30 a.m.**

**Tuesday, June 25, 2024  
Meeting Schedule**

**09:30 a.m. PWSCRC  
12:00 p.m. Break  
12:30 p.m. Exec**

Agendas, live streaming, meeting schedules, and other board materials are available here: <https://mwdh2o.legistar.com/Calendar.aspx>. Written public comments received by 5:00 p.m. (business days) before the meeting is scheduled will be posted under the Submitted Items and Responses tab available here: <https://mwdh2o.legistar.com/Legislation.aspx>. If you have technical difficulties with the live streaming page, a listen-only phone line is available at 1-877-853-5257; enter meeting ID: 891 1613 4145. Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or <https://us06web.zoom.us/j/81520664276?pwd=a1RTQWh6V3h3ckFhNmDsUWpKR1c2Zz09>

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MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012

Teleconference Locations:

3008 W. 82nd Place • Inglewood, CA 90305  
1368 Highland Oaks Drive • Arcadia, CA 91006  
13 Pumphouse Road • Garden Valley, ID 83622  
525 Via La Selva • Redondo Beach, CA 90277

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\* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee will not vote on matters before this Committee.

- 1. Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))**

**\*\* CONSENT CALENDAR ITEMS -- ACTION \*\***

- 2. CONSENT CALENDAR OTHER ITEMS - ACTION**

- A. Approval of the Minutes of the Subcommittee on Pure Water Southern California and Regional Conveyance Meeting for March 26, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions) [21-3495](#)

**Attachments:** [06252024 PWSCRC 2A \(03262024\) Minutes](#)

**\*\* END OF CONSENT CALENDAR ITEMS\*\***

**3. SUBCOMMITTEE ITEMS**

- a. Update on the Moulton Niguel Water District's OASIS Direct Potable Reuse Program [21-3496](#)

**Attachments:** [06252024 PWSCRC 3a Presentation](#)

- b. Pure Water Southern California Quarterly Update [21-3499](#)

**Attachments:** [06252024 PWSCRC 3b Presentation](#)

- c. Update on Pure Water Southern California Partner Agreements [21-3498](#)

**Attachments:** [06252024 PWSCRC 3c Presentation](#)

- d. State Water Project Dependent Areas Drought Mitigation Update [21-3497](#)

**Attachments:** [06252024 PWSCRC 3d Presentation \(revised\)](#)

**4. FOLLOW-UP ITEMS**

NONE

**5. FUTURE AGENDA ITEMS**

**6. ADJOURNMENT**

**NOTE:** This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Committee agendas may be obtained on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site <https://mwdh2o.legistar.com/Calendar.aspx>.

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

**THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA**

**MINUTES**

**SUBCOMMITTEE ON PURE WATER SOUTHERN CALIFORNIA AND REGIONAL  
CONVEYANCE**

**March 26, 2024**

Chair Camacho called the meeting to order at 2:30 p.m.

Members present: Directors Alvarez, Camacho, Fellow, Fong-Sakai, Lefevre (teleconference location posted), Luna, McMillan, Morris, Peterson, and Seckel.

Members absent: Directors Gaultieri and Smith.

Other Board members present: Directors Armstrong, Bryant, Dick, Douglas (teleconference location posted) Erdman, Gray (teleconference location posted), Kurtz, and Miller.

Committee staff present: Bednarski, Chapman, Collins, Hagekhalil, Lahouti, Quilizapa, Schlotterbeck and Upadhyay.

**1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE  
ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION**

None

**CONSENT CALENDAR ITEMS – ACTION**

**2. CONSENT CALENDAR OTHER ITEMS - ACTION**

- A.** Approval of the Minutes of the Subcommittee on Pure Water Southern California and Regional Conveyance for January 23, 2024 (Copies have been submitted to each Director, any additions, corrections, or omissions)

Director Peterson made a motion, seconded by Director Morris, to approve the consent calendar consisting of item 2A.

The vote was:

Ayes: Directors Alvarez, Camacho, Fellow, Fong-Sakai, Lefevre, Luna, McMillan, Morris, Peterson, Seckel.  
Noes: None  
Abstentions: None  
Absent: Directors Gaultieri and Smith.

The motion for Item 2a passed by a vote of 10 ayes, 0 noes, 0 abstentions, and 2 absent.

**END OF CONSENT CALENDAR ITEMS**

### 3. SUBCOMMITTEE ITEMS

- a.           Subject:           Pure Water Southern California Cost Recovery Alternatives Update
- Presented by:       Arnout Van den Berg, Section Manager - Revenue and Budget, Finance Group; and John Mastracchio, Consultant, Raftelis Professionals (via Zoom)
- Ms. Katano Kasaine introduced Mr. Van den Berg and Mr. Mastracchio. Mr. Van den Berg and Mr. Mastracchio reported on the following:
- An update on the functional allocations for each of the cost recovery alternatives.
  - Projection of overall rate impacts associated with each cost recovery option.
  - .
  - Examples of cost recovery approaches from other water agencies.
  - Attributes of cost recovery Alternative 6 proposed by the FAIP Committee Chair.

The following Directors provided comments or asked questions.

1. Miller
2. Fong-Sakai
3. Peterson
4. Seckel

Staff responded to Directors questions and comments.

- b.           Subject:           Pure Water Southern California Quarterly Update
- Presented by:       Bruce Chalmers, Program Manager-PWSC, Engineering Services Group

Mr. John Bednarski introduced Mr. Chalmers. Mr. Chalmers reported on the following:

- Pure Water Southern California independent review of regional reuse programs.
- Program outreach events.
- Pure Water Southern California Program schedule.
- Stakeholder agreements.
- Program costs and grants.
- Potential alternative approaches to Program phasing.

The following Directors provided comments or asked questions.

1. Seckel
2. Miller
3. Fong-Sakai
4. Lefevre
5. Erdman
6. Alvarez

Staff responded to Directors questions and comments.

- c.                    Subject:            Pure Water Southern California Demonstration Testing and Activities Update

Presented by:    Joyce Lehman, Team Manager, Treatment & Water Quality Group

Ms. Heather Collins introduced Ms. Lehman. Ms. Lehman reported on the following:

- Recent Pure Water Southern California Program demonstration testing and related activities.
- Role of Demonstration Testing.
- Science Advisory Panel workshop.
- Demonstration testing activities.
- Direct Potable Reuse (DPR) Update.
- Next steps.

- d.                    Subject:            Pure Water Southern California Demand Projections

Presented by:    Matt Hacker, Senior Resource Specialist, Water Resource Management Group

Mr. John Bednarski introduced Mr. Hacker. Mr. Hacker reported on the following:

- Pure Water Southern California Program demand objectives and projections.
- Other considerations taken into account for Program's water deliveries.
- Demand projections in Phase 1 of Program.
- Pure Water Southern California service connections and maintaining deliveries during wet periods.
- Program options and next steps.

The following Directors provided comments or asked questions.

1. Morris
2. Peterson
3. Dick

Staff responded to Directors questions and comments.

- e. Subject: State Water Project Dependent Areas Drought Mitigation Update  
Item deferred.

**4. FOLLOW-UP ITEMS**

NONE

**5. FUTURE AGENDA ITEMS**

NONE

**6. ADJOURNMENT**

The next meeting will be held on June 25, 2024.

Meeting adjourned at 4:55 p.m.

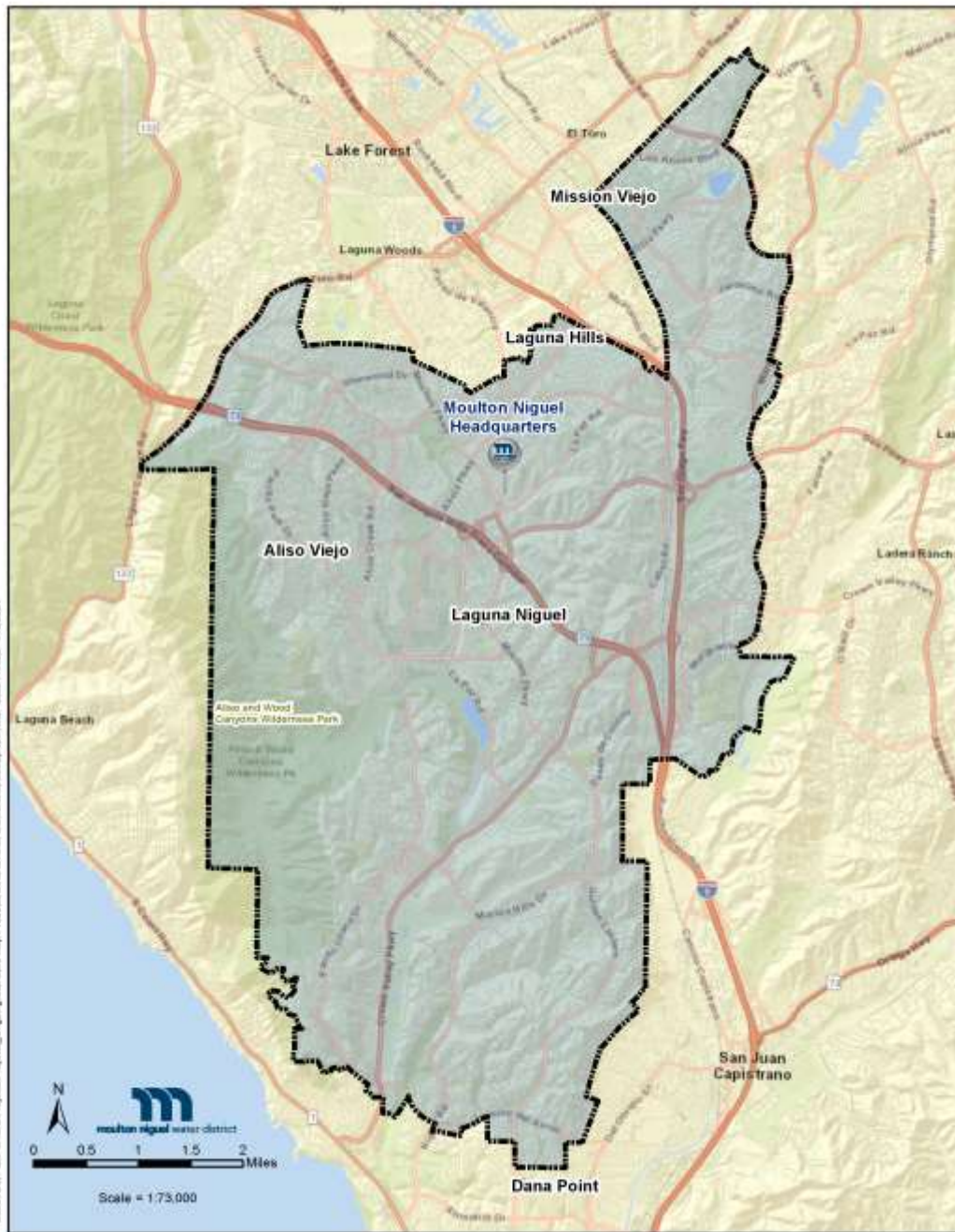
Michael Camacho  
Chair



# Building Regionally Through Innovation & Partnerships



# ABOUT MOULTON NIGUEL



**Drinking Water, Recycled Water, and Wastewater Treatment**



**Serve 170,000+ Customers in Six Cities in South Orange County**



**Seven - Member Board of Directors**



**180 Employees**



**AAA Credit Rating from Fitch and S&P Global**



**Top Workplace OC & USA**



**Recognized Statewide and Nationally for Innovation, Environmental Stewardship, and Customer Service**



# PROVEN TRACK RECORD



Data Driven

Innovative Partnerships

Statewide Model

Leader in Reuse

Regional Collaboration

# ALIGNMENT OF OPPORTUNITIES TO PARTNER



**Support  
Regional  
Solutions**

**Data  
Analytics**

**Interagency  
Collaboration**

**Resiliency  
Planning**

# RELIABILITY AND RESILIENCY OUTLOOK



Optimized | Adaptive | Sustainable | Integrated | Supply



San Diego County Water Authority



Emergency Interconnection



Data Engagement/ CADC

# INNOVATIVE REUSE



Optimized | Adaptive | Sustainable | Integrated | Supply



Water Resource Center



**Stakeholder Outreach & Regional Partnerships**



**Local & Sustainable Water Supplies**



**Watershed Health & Drought Resilience**



**Watershed Education Center**



**Infrastructure Resilience**



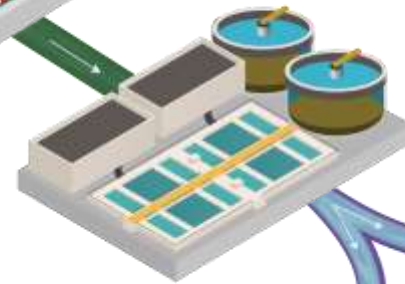
# CURRENT REUSE PROGRAM



Houses and Businesses



Regional Water Reclamation Plant



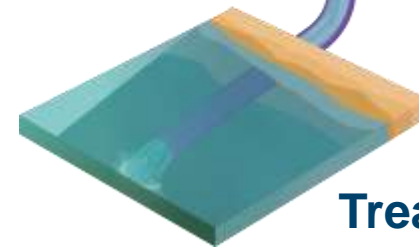
Recycled Water Distribution



AWT Facility



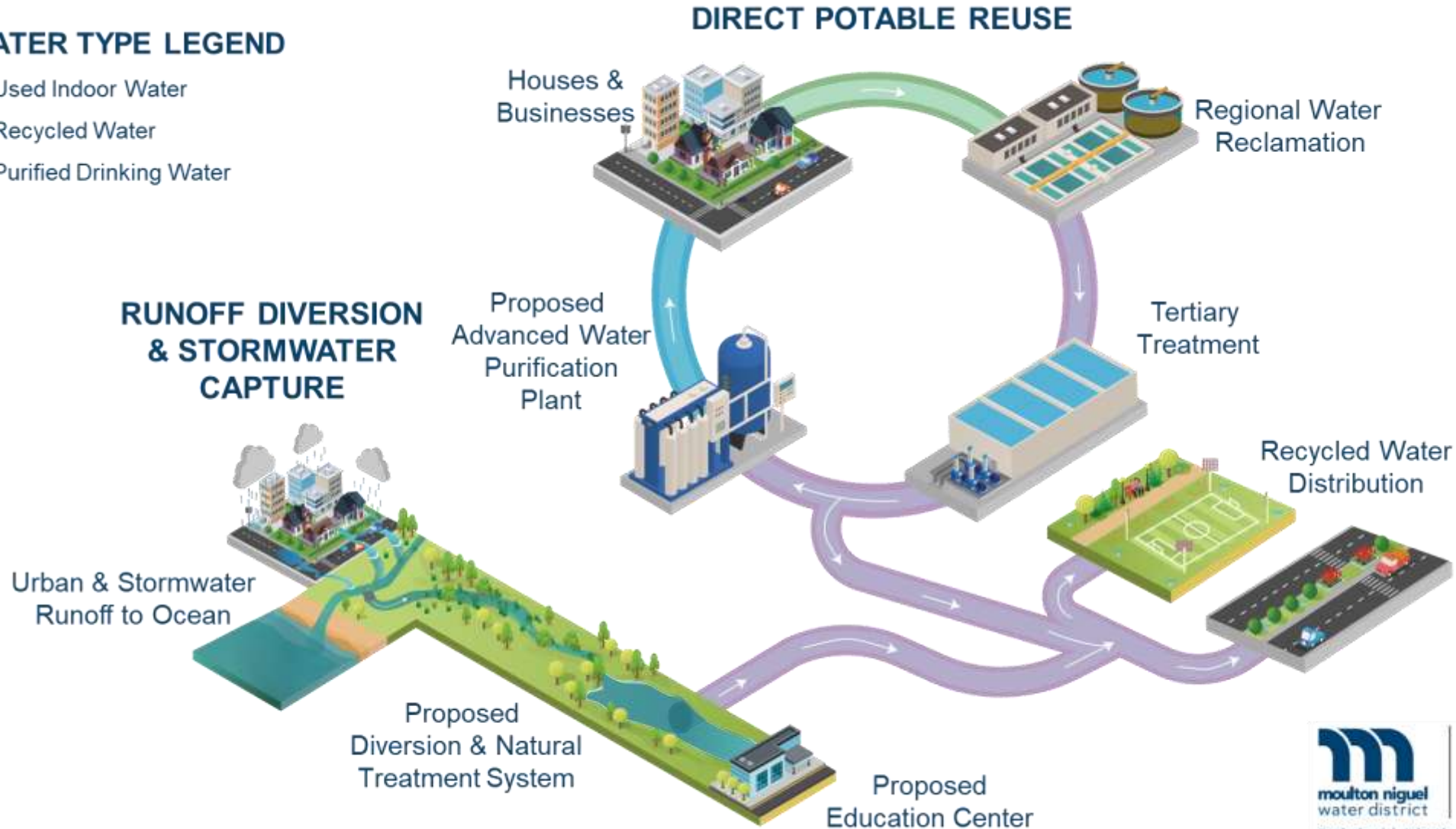
Treated Water Discharge



# INTEGRATED SYSTEM

## WATER TYPE LEGEND

- Used Indoor Water
- Recycled Water
- Purified Drinking Water



# PARTNERSHIP IN RELIABILITY



**San Diego County  
Water Authority**



**Emergency Reliability**

**History of Innovative Partnerships**

**Regional Resilience**

**Sustainable Water Supplies**

**Community and Environmental Focus**

# CaDC Potential Support for CAMP4W



## INNOVATION NETWORK

- Access to technology thought leaders

## AGILE SOFTWARE

- Lightning fast tool development

## PROJECTS

- Customized tools, data analysis, and support

## PEOPLE FIRST

- CaDC membership helps provide context



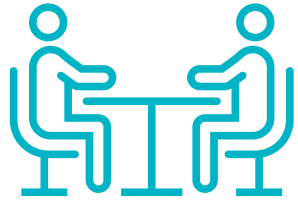
June 25, 2024

Subcommittee on Pure Water Southern California and Regional Conveyance

Item 3a Slide 10







**OASIS  
Partnering  
Opportunities**

**Transfers and  
Interconnections**



**MWD and CaDC  
Data  
Engagement**

# NEXT STEPS

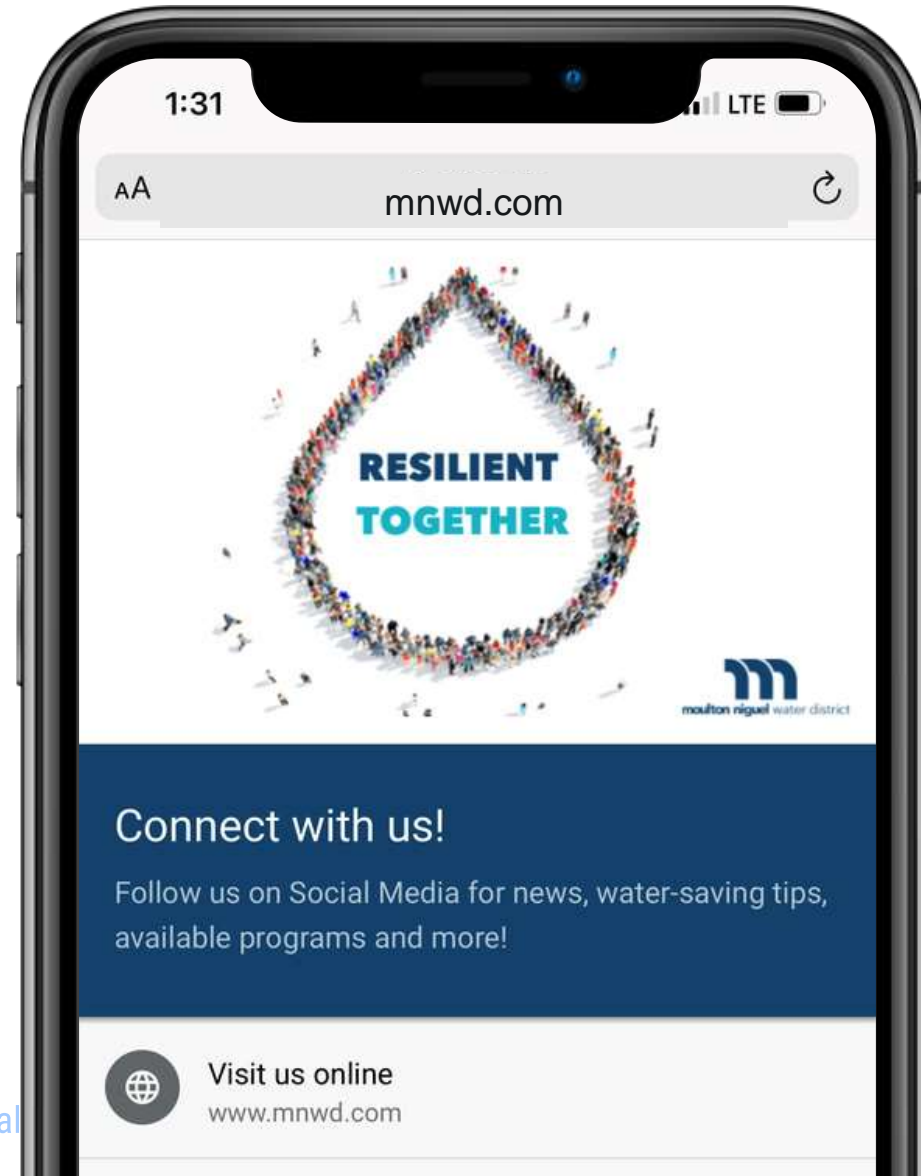


Optimized | Adaptive | Sustainable | Integrated | Supply

# CONNECT WITH US!

**Joone Kim-Lopez**  
*CEO & General Manager*  
[jlopez@mnwd.com](mailto:jlopez@mnwd.com)  
949-444-6994

**Matt Collings**  
*Assistant General Manager*  
[mcollings@mnwd.com](mailto:mcollings@mnwd.com)  
949-795-8428





Subcommittee on Pure Water Southern California  
and Regional Conveyance

# Pure Water Southern California Quarterly Update

Item 3b  
June 25, 2024

**Item 3b**  
PWSC  
Quarterly  
Update

**Subject**

Pure Water Southern California Quarterly Program Update

**Purpose**

To provide an update on the PWSC recent program tasks and accomplishments

**Next Steps**

Continue planning and design efforts and work to meet the Program goals and objectives

Item 3b  
PWSC  
Quarterly  
Update

## Agenda

- Grant update
- Program phasing
- DPR Roadmap and evaluations
- Environmental planning update
- Independent review of Regional Reuse Programs
- Next Steps



# Grant Update



## USBR Grant Award Overview

- LSWR Grant Program
  - Requested \$125M
  - Received \$99,199,096
  - All federal grants have a 3x match requirement
  - At request of USBR, a second application has been submitted for remainder of original request (\$26M)
- Metropolitan will share approximately 25 percent of the grant with LACSD for MBR facilities
- Awards ceremony held on May 28, 2024

# USBR Grant Award Ceremony

May 28, 2024

## Grant Recipients

- Metropolitan/LACSD: PWSC
- City of LA: LA Groundwater Replenishment Project
- City of Ventura: VenturaWaterPure Program
- Washington County Water Conservancy District, Utah: Regional Reuse System



Grace F. Napolitano PWSC Innovation Center

Timeframe  
to Spend  
Grant Funds  
Nov. 2026

# Scope of Work for Grant and Match Funds

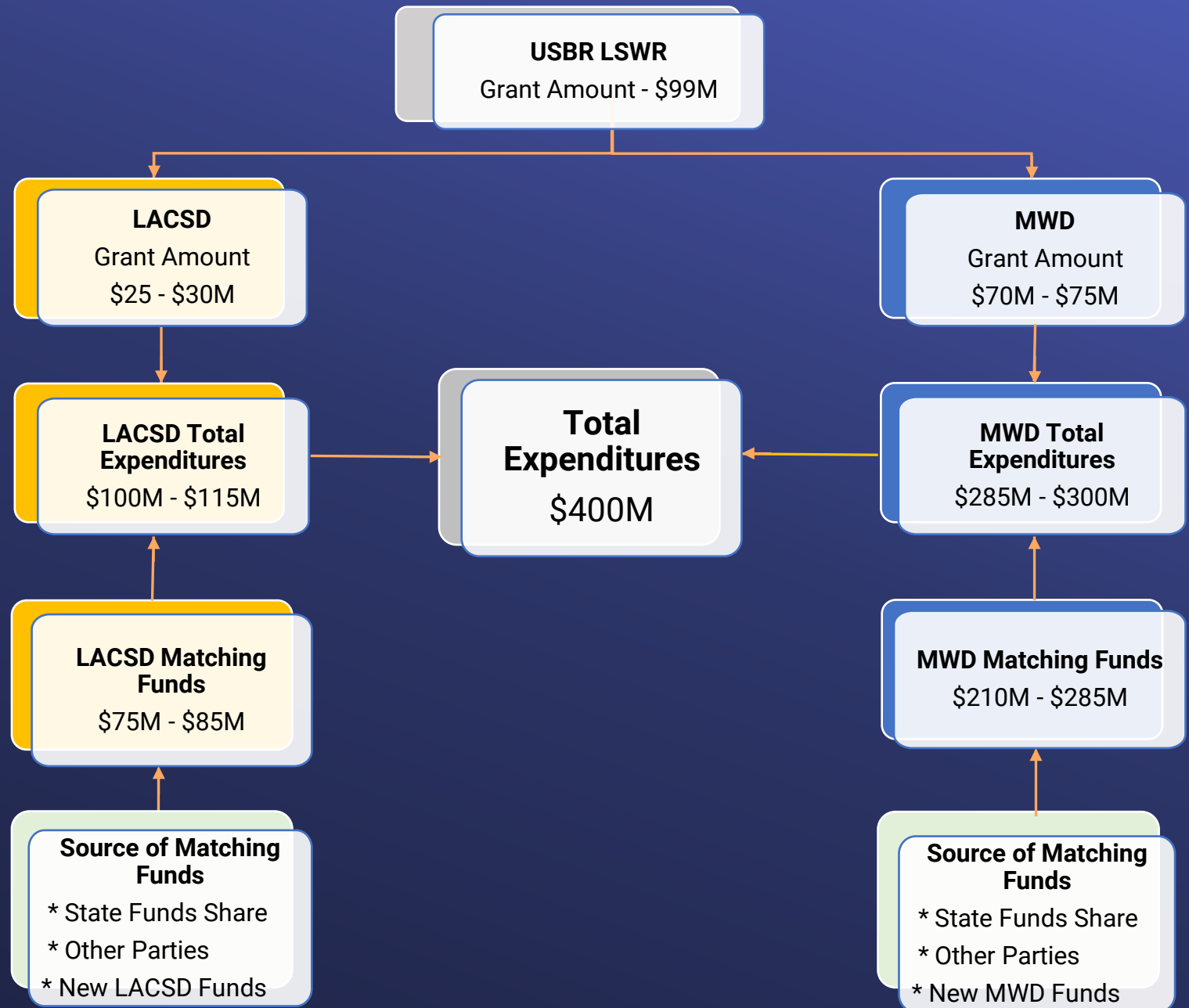
- Planned scope of work to match funding
  - On-board treatment plant design-build team
  - Progress treatment plant design up to 60%
  - Complete pipeline designs for Reaches 1 & 2
  - Begin acquisition of rights-of-way
  - Continue program management & public outreach
  - Conduct Demo Plant testing/research
- Continue to work with LACSD to prepare an agreement amendment to share PWSC AWPf responsibilities and grant funding



# Grant Update Potential Expenditures and Funding Sources

## NOTE

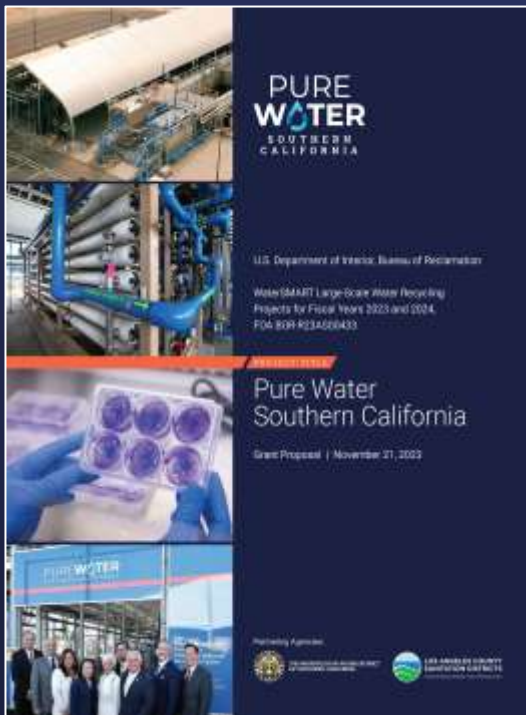
All numbers are preliminary and subject to negotiation and update



# Finalize Grant Planning

## Upcoming Activities

- Negotiate agreement with USBR for receipt of grant
- Finalize negotiations with LACSD
- Prepare cost loaded schedule and finalize work/spending plan for the grant
- August 2024, informational item on upcoming actions
- September 2024, Board authorization to:
  - accept grant award
  - commitment of matching funds
  - approve LACSD agreement amendment



# Potential Phasing Alternatives

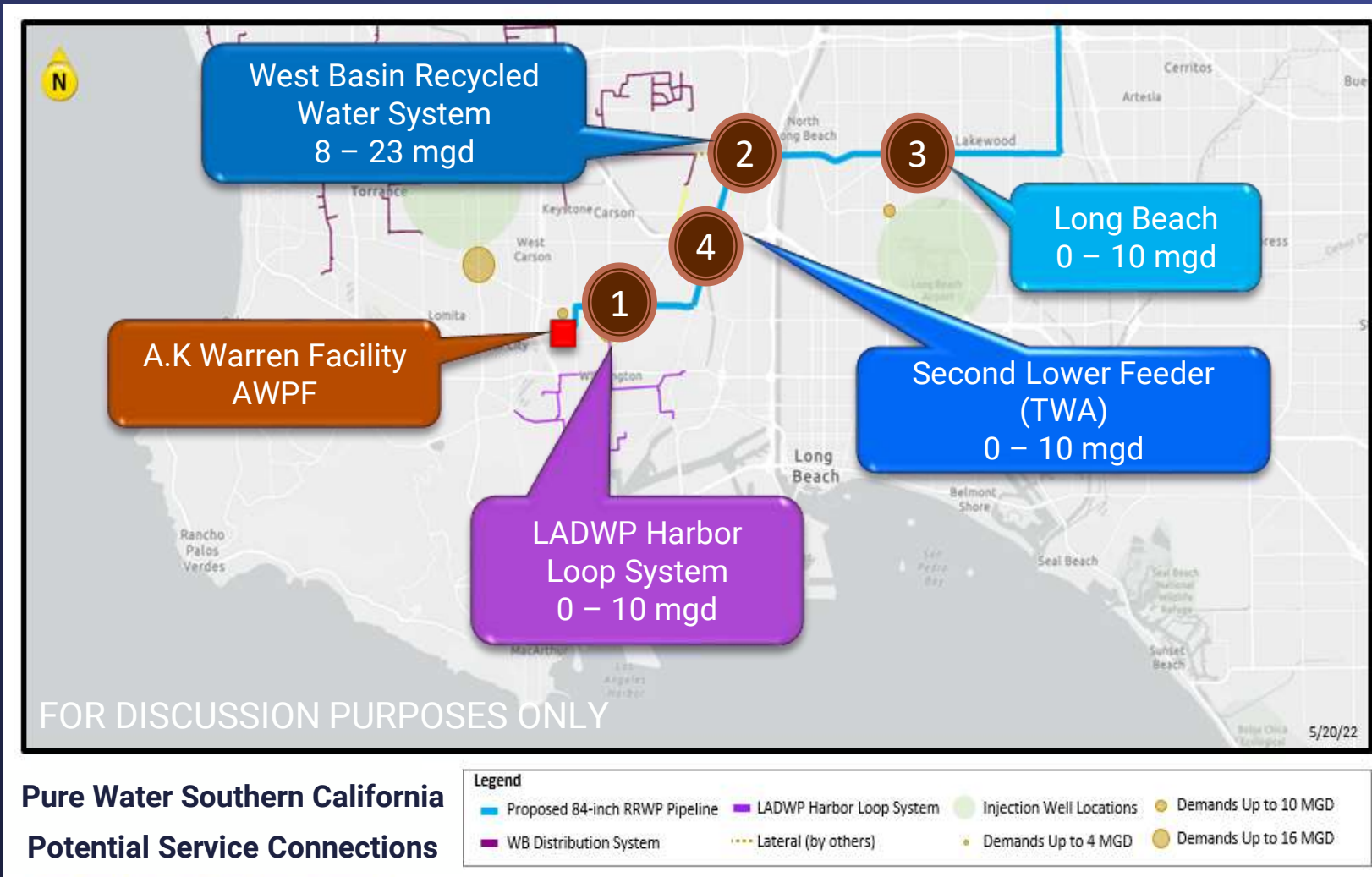
## Development of Alternatives

- Concept introduced at the March 2024 Subcommittee
- Investigate alternative approaches to program phasing
  - Reduce initial scope and costs of Phase 1
  - Large enough capacity to achieve viability
- Alternative phasing discussions have focused on:
  - Coordination with Carson area demands
  - Smaller treatment plant and shortened conveyance
  - Potential incorporation of DPR
- Multiple alternatives to be developed
  - For consideration and discussion by Board



Example from March 2024

# Potential 30 MGD Phase I Alternative



## Key Components

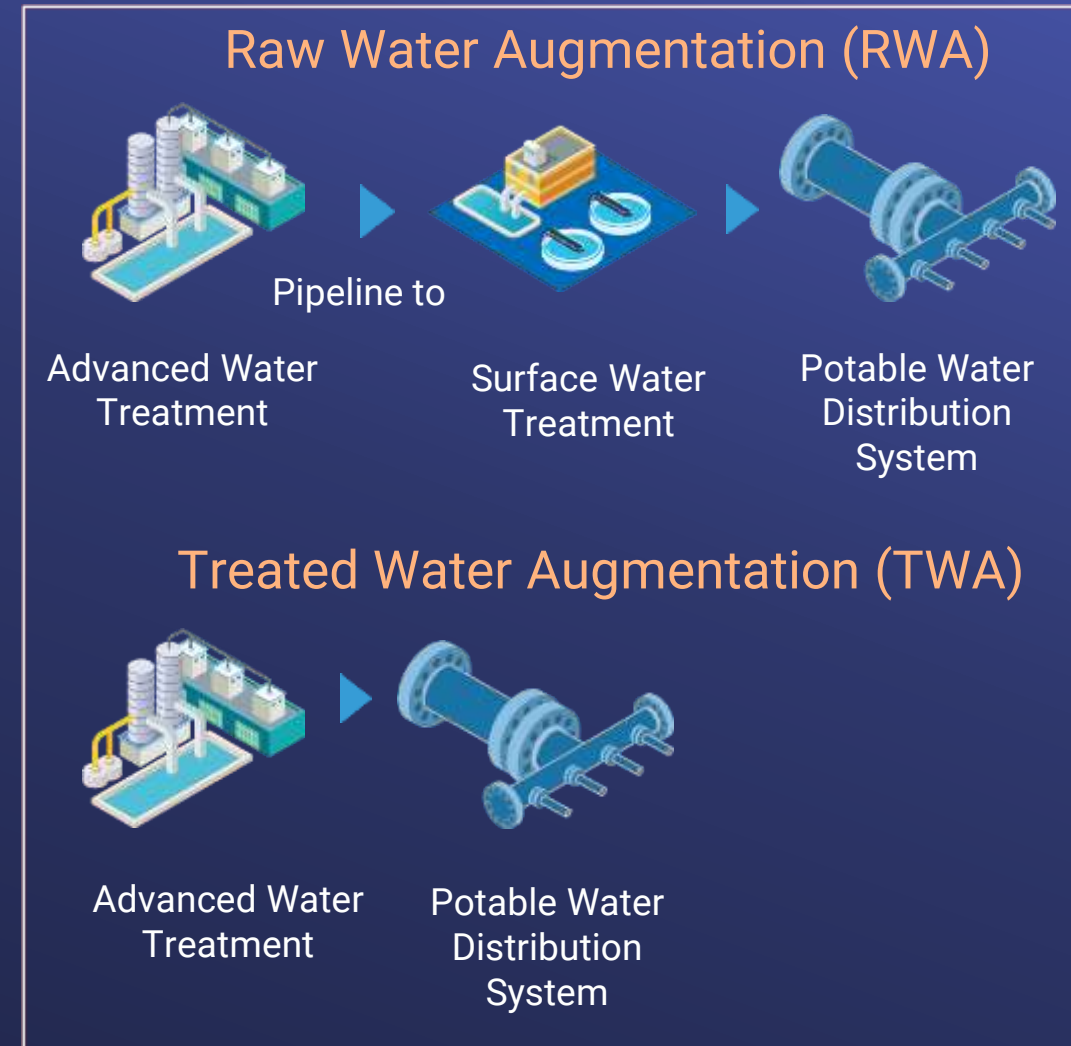
- **±30 MGD AWTF**
- **± 10 miles of conveyance pipeline (Carson to Long Beach)**
- **Initially provides IPR supply to multiple service connections**
- **Future Opportunity for DPR (TWA) at Second Lower Feeder**

# Develop a Phased Program to Match Demands and Available Funding

- Consistent approach to other Metropolitan mega-projects (e.g., ozone retrofits at WTPs)
- Benefits of a smaller initial phase to program
  - Reduces initial complexity of program
  - Allows staff to gain operational knowledge before expanding
  - Reduces near-term cost impacts
  - Spreads out overall rate impacts
- Pursue property/ROW for full program where it makes sense
- CEQA, permitting, etc. would continue for the full program to minimize impacts on future phases

# Direct Potable Reuse (DPR) Regulations

- State Water Board DPR regulatory development
  - Mandated by SB918 and SB322
  - 2016 - 2019: Feasibility and Framework documents
  - Initially focused on RWA
- December 2023: Regulations adopted
  - Effective by Fall 2024
  - Regulations provide opportunity to consider implementing TWA



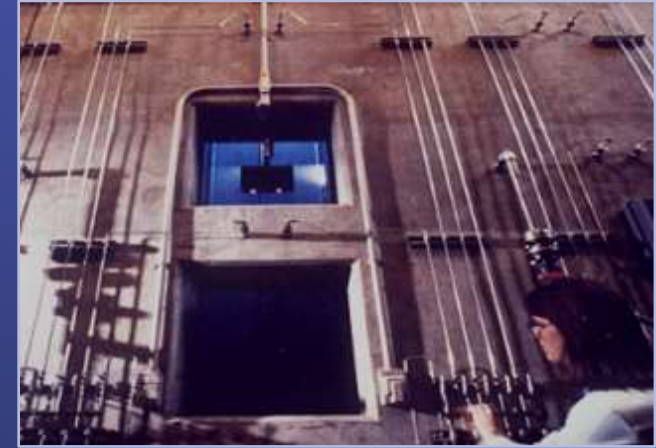
Path to  
Implementing  
DPR  
  
White Paper

# Expanding DPR Assessment to Include RWA and TWA

- **Purpose**
  - Provide an overview of considerations for implementing RWA and TWA in PWSC program
- **Scope**
  - PWSC program evolution and regulatory requirements
  - Comparison of RWA and TWA
  - Key information and data gaps
  - Considerations for integration into system operations
  - Next steps and research needs
- **Schedule**
  - Complete assessment over summer and present at upcoming PWSCRC subcommittee meeting

# DPR Research Roadmap

- DPR research will be similar to prior Metropolitan programs to investigate alternative treatment processes
  - Extensive research on ozone prior to implementation
  - IPR research began in 2010 and demo testing started in 2019
- DPR research program to address both RWA and TWA
  - Contaminants and treatment strategies
  - Monitoring and response time
  - Water quality and distribution system impacts
  - Hydraulics and system integration
- DPR Research Plan to be developed in summer/fall 2024
- Additional treatment processes to be added at demo plant for DPR testing
  - Ozone, GAC, UV, Microfiltration, Chlorine dioxide



Ozone Demonstration Testing, 1990s



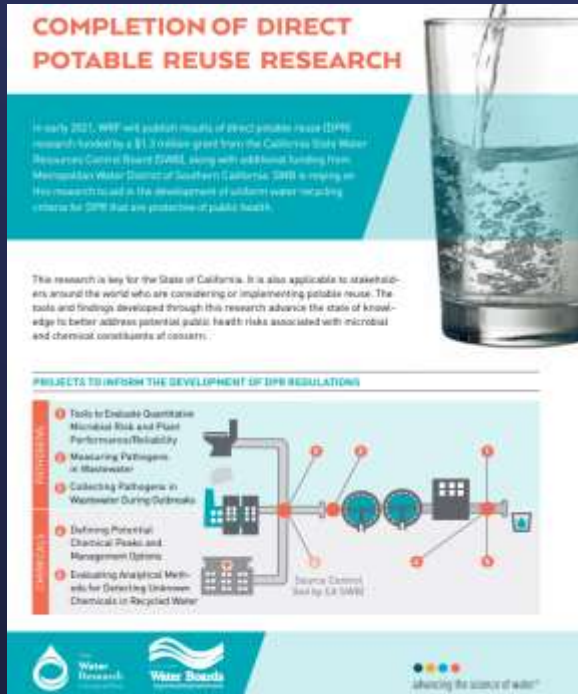
PWSC Demonstration Testing, 2019 - present



# DPR Research

## Leadership and Coordination

- Consider funding opportunities to advance DPR research
  - Metropolitan provided \$975,000 to Water Research Foundation to co-fund several research projects to inform California DPR regulatory development
- Regional collaboration and technical exchange with partners on water reuse
- Engagement with Independent Science Advisory Panel and regulators on approach to DPR
- Public opinion research on DPR



### Metropolitan-Funded DPR Research

# Environmental Planning Efforts

- Continue to prepare technical reports & studies, writing/reviewing EIR sections
- Developing an approach to utilize SB 149 for PWSC
  - SB 149 legislation passed in July 2023
  - Sites Reservoir first to receive certification
  - Begin discussions with State on approach for PWSC
- Potential benefits include
  - Streamlined CEQA litigation process
  - Designation of program as a critical water infrastructure
  - Potential benefit to future funding opportunities
- Requires early preparation of Administrative Record
- EIR cost and schedule impacts are to be determined

## PEIR/EIR

### Draft EIR

1<sup>st</sup> or 2<sup>nd</sup>  
Quarter 2025

### Final EIR

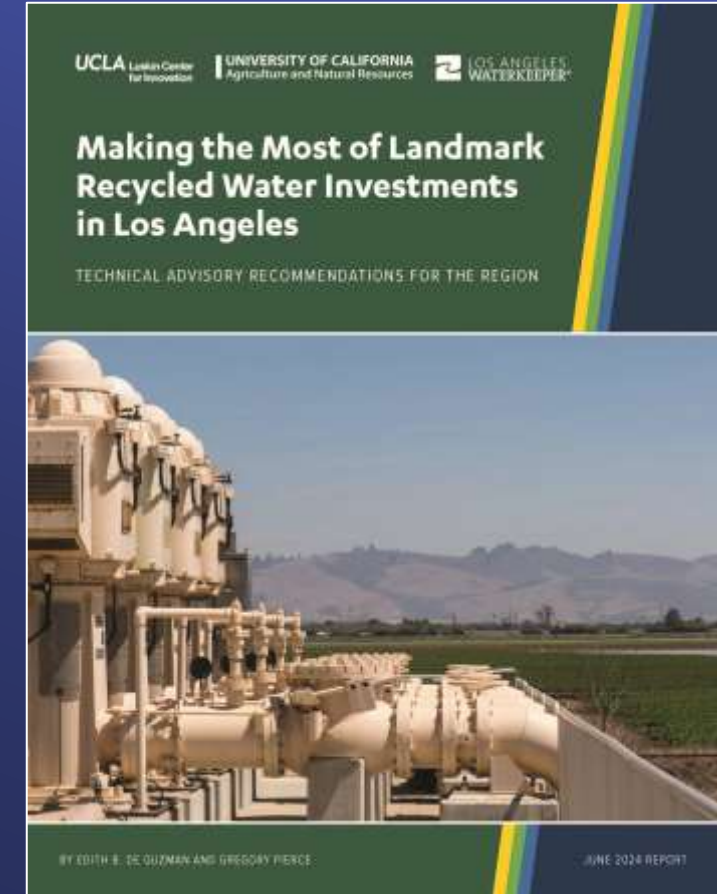
4<sup>th</sup> Quarter 2025  
or  
1<sup>st</sup> Quarter 2026



# Independent Review of Regional Reuse Programs

## TAC Independent Review

- Technical Advisory Committee (TAC) workshop (Feb. 2024)
- TAC: Universities, agencies/GMs, NGOs
- Agencies: MWD, LACSD, City of LA, WBMWD, Las Virgenes MWD
- Summary Report (June 2024)



Item 3b  
PWSC  
Quarterly  
Update

## Next Steps

- Continue alternative phasing investigations
- Plan for LSWR grant implementation
- Continue work on agreements
- Board schedule
  - August Board – informational item to EO&T Committee
  - September Board actions
    - Accept LSWR grant
    - Authorize matching funds
    - Authorize LACSD agreement amendment





Subcommittee on Pure Water Southern California  
and Regional Conveyance

# Update on Pure Water Southern California Partner Agreements

Item 3c  
June 25, 2024

Item 3c  
Update on  
PWSC Partner  
Agreements

Subject

Update on Pure Water Southern California Partner Agreements

Purpose

To provide an update on the development of PWSC agreements

Next Steps

Continue efforts to reach agency agreements to support the Program goals and objectives

Item 3c  
Update on  
PWSC  
Partner  
Agreements

## Agenda

- LACSD Agreement Amendment No. 2
- Member Agency term sheets/memorandum of agreement
- Agreements with other agencies







Subcommittee on Pure Water Southern California  
and Regional Conveyance

# LACSD Agreement Amendment No. 2

**Item 3c**  
Original  
MWD/LACSD  
Agreement

## Obligations of Both Parties

- Authorized by both boards in 2015
  - **Demonstration Plant**
    - Metropolitan to design/construct/operate
    - LACSD to provide site, and supply source water/take residuals
  - **Future Full-Scale Plant**
    - Majority of treatment facilities provided by Metropolitan
    - LACSD will provide site, and supply source water/take residuals
    - Agencies will jointly pursue grant funding and share prorate based on respective responsibilities

Item 3c  
Amendment  
No. 1

## Revisions Focused on Environmental Planning Process

- Authorized in November 2020
  - Added cost sharing for environmental planning process
  - Collaboration on conceptual design of full-scale treatment facilities

**Item 3c**  
Focus of  
Current  
Negotiations

## Development of Key Terms for Amendment

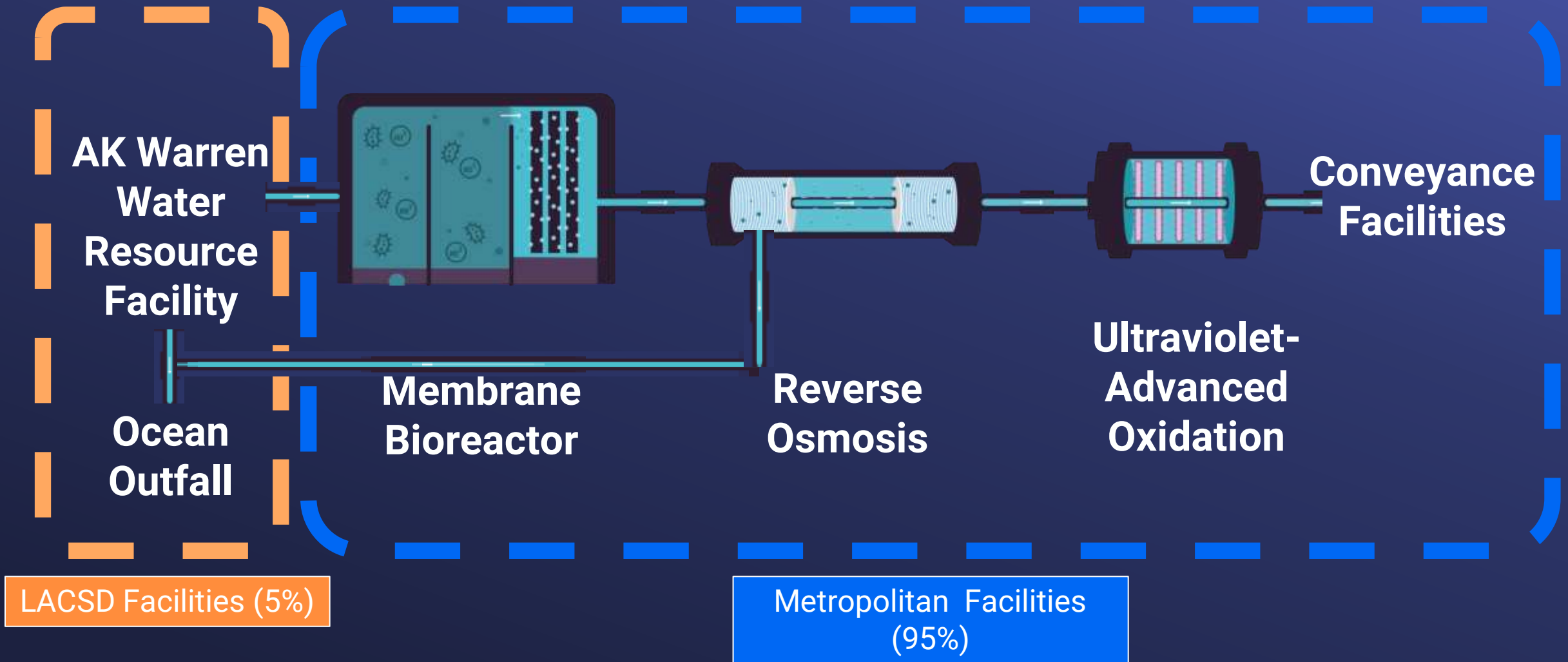
- Amending current agreement facilitates expediting receipt of, and use of grants
- Metropolitan and LACSD staff are currently negotiating agency responsibilities for the full-scale Program
- Potential shared responsibility for design, construction and operation of treatment facilities
- Focus of the negotiations:
  - AWPf Pretreatment/MBR
  - Demonstration plant operation
  - Program cost sharing
  - Approach to sharing of grants

Item 3c  
Proposed  
Scope of  
Amendment  
No. 2

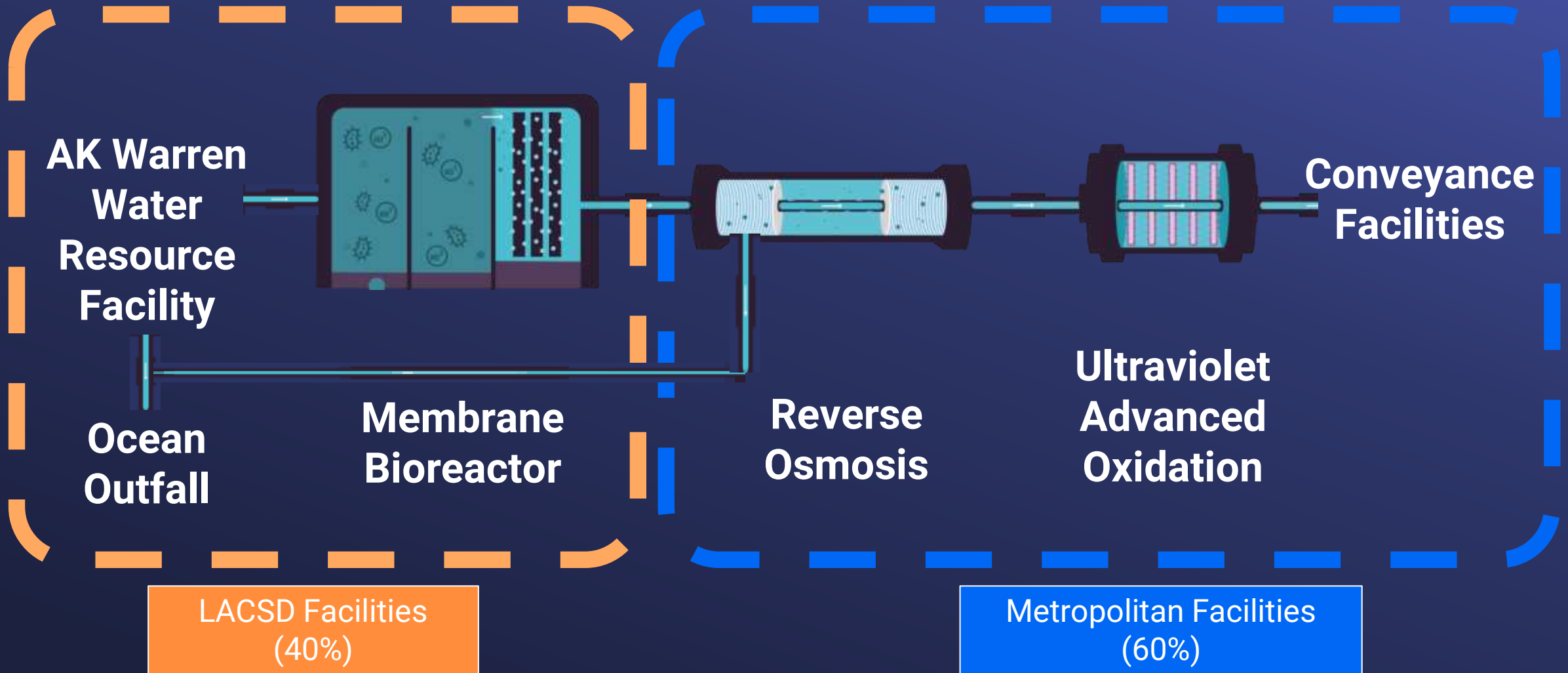
## Shared Responsibilities for PWSC Treatment Processes

- LACSD
  - Pre-treatment processes/systems ahead of reverse osmosis, including the Membrane Bio Reactor (MBR) & residuals processing/disposal
- Metropolitan
  - Remainder of on-site treatment processes, off-site pipelines, and recharge facilities
- Metropolitan and LACSD will share:
  - Outside funding and grants
  - Operational workforce development efforts
  - Demonstration plant operation

# Original PWSC Treatment Process Responsibilities



# Proposed PWSC Treatment Process Responsibilities



Item 3c  
MWD/LACSD  
Amendment  
No. 2

## Proposed Board Schedules

- Metropolitan
  - Informational letter: August 2024
  - Board Authorization: September 2024
- Sanitation Districts
  - Joint Outfall District Board Briefings: June 2024
  - District No. 2 approval: October 2024
- Long-term Program governance agreement
  - New agreement
  - To follow Board certification of PWSC PEIR
  - Anticipated late-2025





Subcommittee on Pure Water Southern California  
and Regional Conveyance

Update and Request for Input  
on Effort to Advance  
Member Agency and  
Colorado River Partnerships

# Initial Focus

LOIs  
2018-2022

- Separate documents signed by each potential partners

Term Sheets  
Sept. 2024

- Tentative approach on critical deal points

Memorandum  
of Agreement  
Early 2025

- Short-term provisions

# Context for Advancing Partnerships

## Rough Schedule



# Proposed Term Sheet Structure

## Recitals

- Value of Pure Water
- Operational Principles
- Price Term
- Collaboration and Coordination

## Terms

- Intent
- Expectations
- Performance

# Proposed Term Sheet - Recitals

## Value of Pure Water

- Improve long-term, regional reliability
- Reduce region's reliance on imported water
- Provide water for multiple, beneficial uses
- Further statewide goals of increasing the use of recycled water

## Operational Principles

- Define and ensure coordination of schedules and responsibilities
- Enhance operational flexibility
- Align quantity, quality, and timing of demands with supply

# Proposed Term Sheet - Recitals

## Price Term

- Reflective of regional benefits
- Reflective of benefits – to member agencies, as well as to Metropolitan

## Collaboration

- Emphasize principles of affordability and equity

## Coordination

- Pursue external funding
- Support permitting and construction
- Maximize the value of research and development efforts

# Proposed Term Sheet - Terms

- Intent
- Provide “new” water and at new service connections
  - Provide regional resiliency benefits
  - Allow Pure Water to operate and avoid interruptions

# Proposed Term Sheet - Terms

## Expectations

### **Metropolitan**

- Pure Water financing, construction, O&M
- Delivery of water (including price term)
- Pure Water environmental compliance and permitting

### **Each Member Agency**

- Integration with Pure Water
- Behind the meter:
  - construction and O&M
  - environmental compliance and permitting

### **Shared**

- Coordination and collaboration
- Service connections
- Certain permitting and reporting



# Proposed Term Sheet - Terms

## Performance

### **Metropolitan**

- Supply of water, on schedule
- Quality of water

### **Member Agencies**

- Demand for water, on schedule
- Payment for water

# Next Steps

1. Further Colorado River partnerships
2. Continue to develop member agency term sheets, consistent with input provided today
3. Return in August/September timeframe for additional input/direction





Subcommittee on Pure Water Southern California  
and Regional Conveyance

# State Water Project Dependent Areas Drought Mitigation Update

Item 3d  
June 25, 2024

**Item 3d**  
State Water  
Project  
Dependent  
Areas  
Drought  
Mitigation  
Update

**Subject**

State Water Project Dependent Areas Drought Mitigation Update

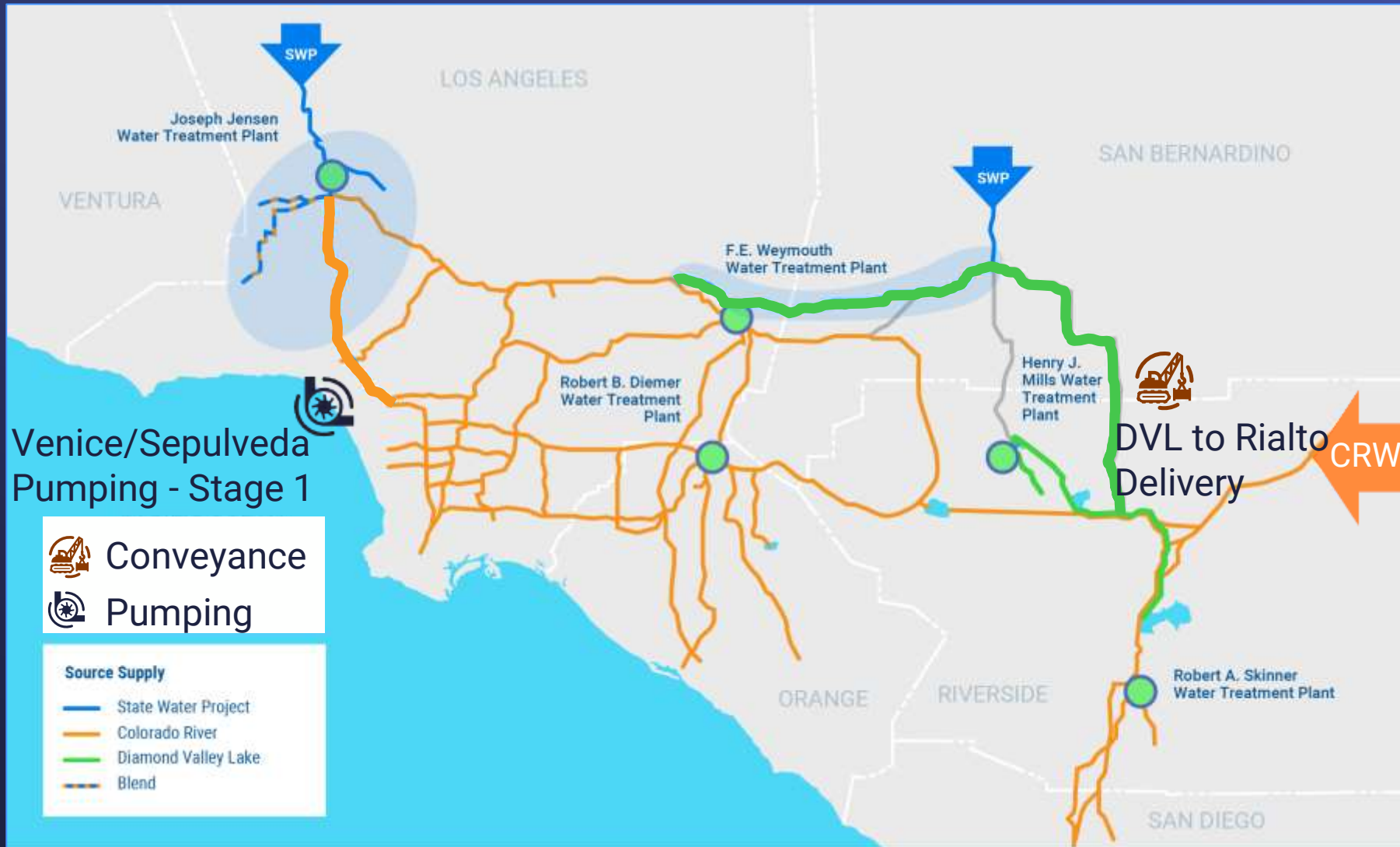
**Purpose**

To provide an update on the implementation status of near-term projects in the drought mitigation actions portfolio

**Next Steps**

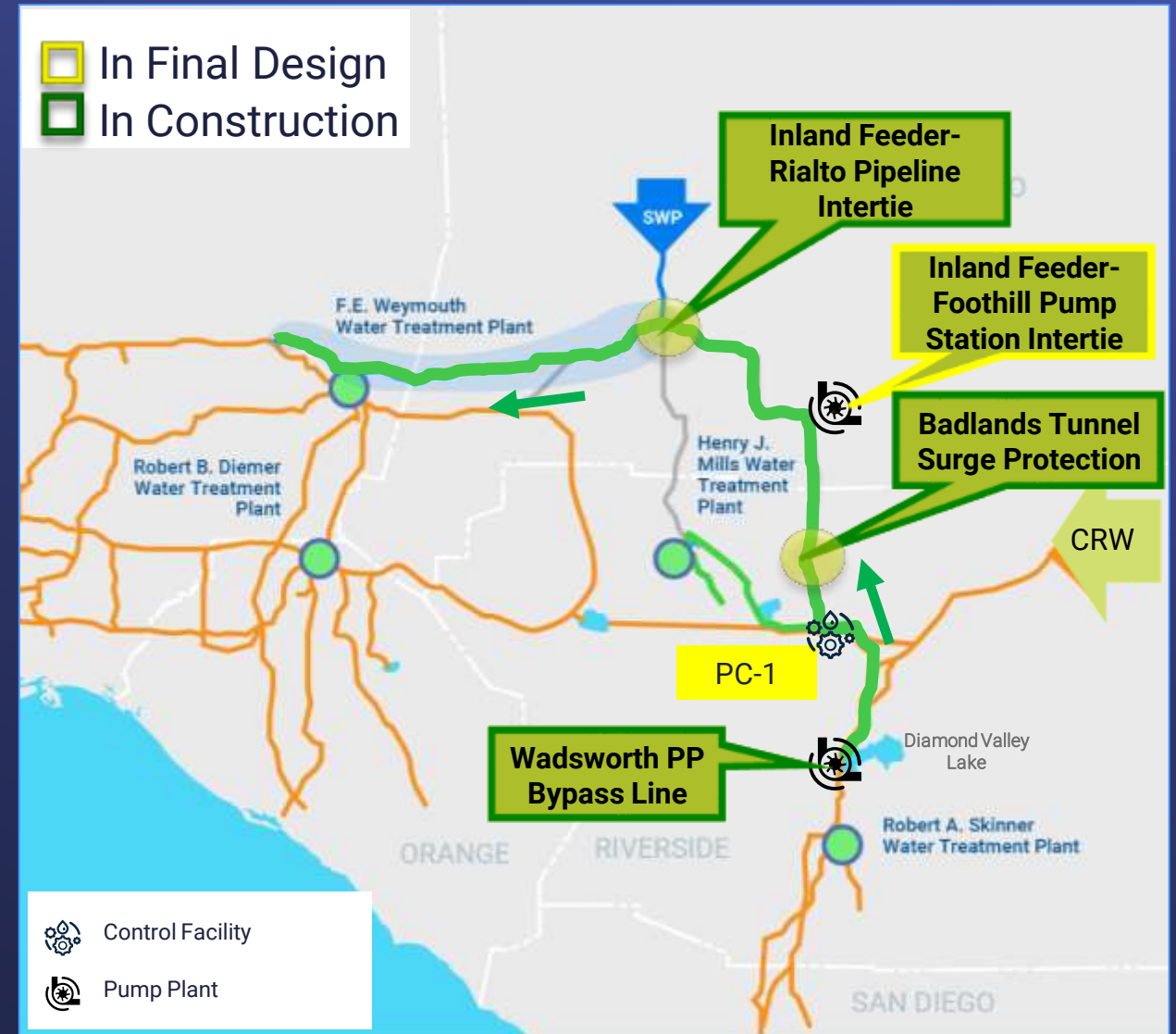
Continue implementation of near-term projects  
Long-term projects under evaluation by CAMP4W

# Near-Term Drought Mitigation Projects



# DVL to Rialto Pipeline Delivery

- **Summary of program scope**
  - Four inter-related projects
  - Maximizes use of existing infrastructure
  - Up to 120 cfs with full build-out
- **Program status**
  - Three projects in construction
  - One project in final design & permitting
  - Estimated completion in late 2027
  - \$50M State grant
    - Invoiced State \$11.6M to date



# DVL to Rialto Construction

- **Wadsworth Pump Plant Bypass Line**
  - Construct 600 feet of 96-inch diameter bypass pipeline & isolation valve
  - Allows continuous pumping operation
- **Badlands Tunnel Surge Protection**
  - Install passive surge protection system
  - Protects Inland Feeder from surge pressure shocks due to pump trips
- **Inland Feeder/Rialto Pipeline Intertie**
  - Construct 250 feet of 96-inch diameter steel intertie pipeline & isolation valve
  - Provides direct connection between Inland Feeder & Rialto Pipeline



Wadsworth Bypass Shutdown work



# Wadsworth Pump Plant Bypass Line

- **Contract Details**

- Amount: \$14,820,500
- Contractor: Steve P. Rados Inc.
- Award Date: Jan. 2023
- Planned Completion: Summer 2025

- **Current Status**

- 85% complete
- All tie-in work completed in April 2024
- Delay in completion for long-lead equipment

- **Upcoming Milestone**

- Consider change order to add needed valve installation in Aug. 2024



# Badlands Tunnel Surge Protection

- **Contract Details**
  - Amount: \$18,840,000
  - Contractor: Steve P. Rados Inc.
  - Award Date: Nov. 2023
  - Scheduled Completion: Summer 2025
- **Current Status**
  - 9% complete
  - Completed valve vault & surge tank foundation excavation
- **Upcoming Milestone**
  - Placement of valve vault & surge tank slabs



Installation of formwork and rebar at project site

# Inland Feeder-Rialto Pipeline Intertie

- **Contract Details**
  - Amount: \$15,681,000
  - Contractor: Steve P. Rados Inc.
  - Award Date: Sep. 2023
  - Scheduled Completion: Summer 2025
- **Current Status**
  - 12% complete
  - Valve vault construction underway
- **Upcoming Milestone**
  - Form valve vault foundation slab



Preparation of Valve Vault Foundation

# DVL to Rialto Pipeline Valve Procurement

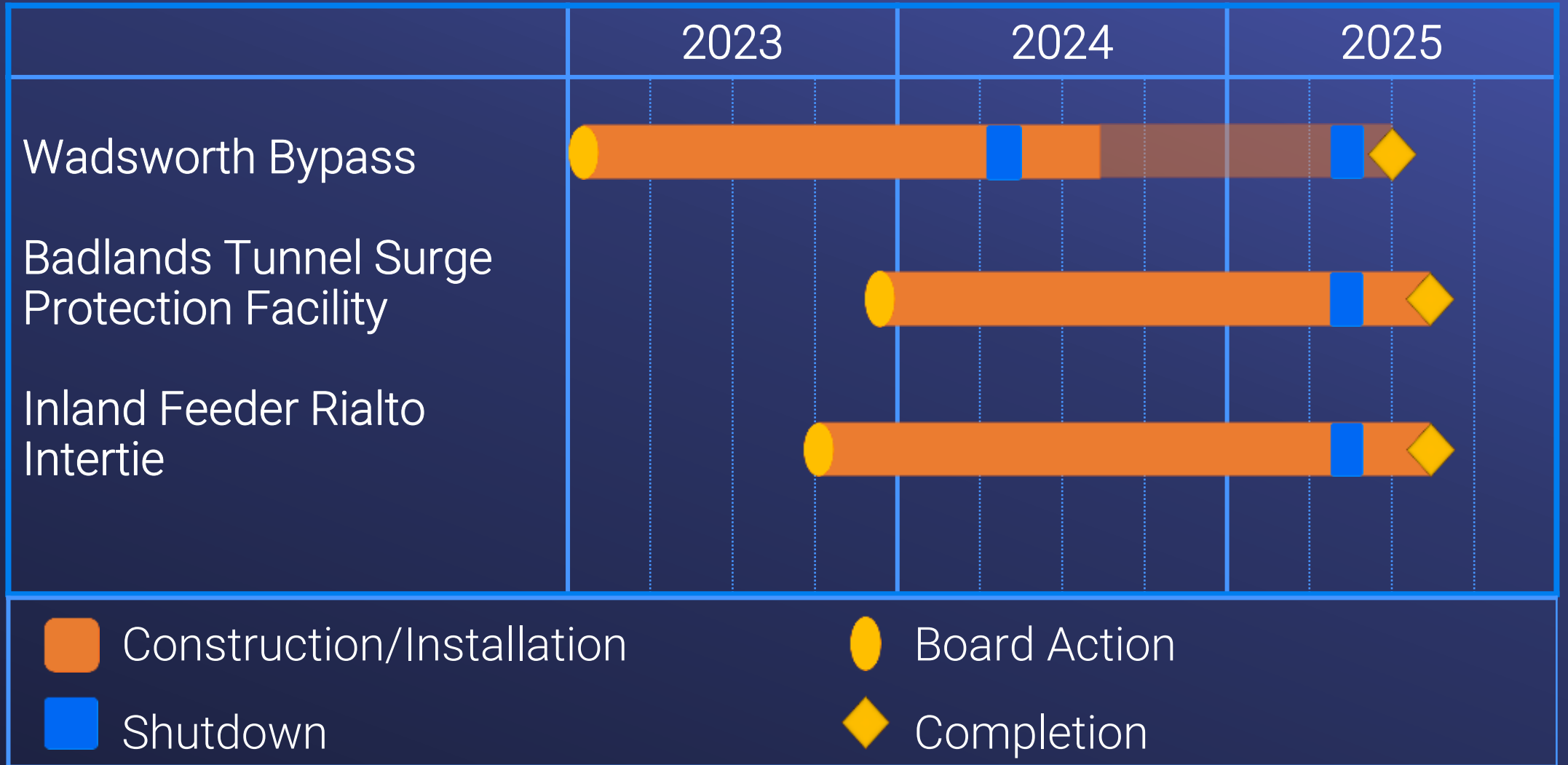
- Butterfly Valves for Wadsworth Bypass Pipeline, Inland Feeder – Rialto Pipeline Intertie, and Badlands Tunnel Surge Protection
  - Three 84-inch diameter valves
  - Amount: \$5,647,405
  - Contractor: Sojitz Machinery Corp of America
  - Award Date: Aug. 2022
- **Current Status**
  - Valves shipped from Port of Osaka, Japan
- **Upcoming Milestone**
  - Valve delivery anticipated early July 2024



# DVL to Rialto Pipeline Valve Procurement

- **Butterfly Valves for Foothill Pump Station Intertie**
  - Two 54-inch diameter valves
  - Amount: \$2,601,437
  - Contractor: Sojitz Machinery Corp of America
  - Award Date: May 2023
  - Vendor is procuring materials for fabrication
- **Butterfly Valve for Foothill Pump Station Intertie**
  - One 132-inch diameter valve
  - Amount: \$1,779,174
  - Contractor: Vogt Valves
  - Award Date: Mar. 2024
  - Vendor is preparing submittals for review

# Construction Schedule



# Inland Feeder-Foothill Pump Station Intertie

- **Summary of Project Scope**

- Collaborative effort with San Bernardino Valley MWD (SBVMWD)
- Connect Inland Feeder with SBVMWD's Foothill Pump Station
- Construct supply & discharge pipelines, isolation valves & surge tanks

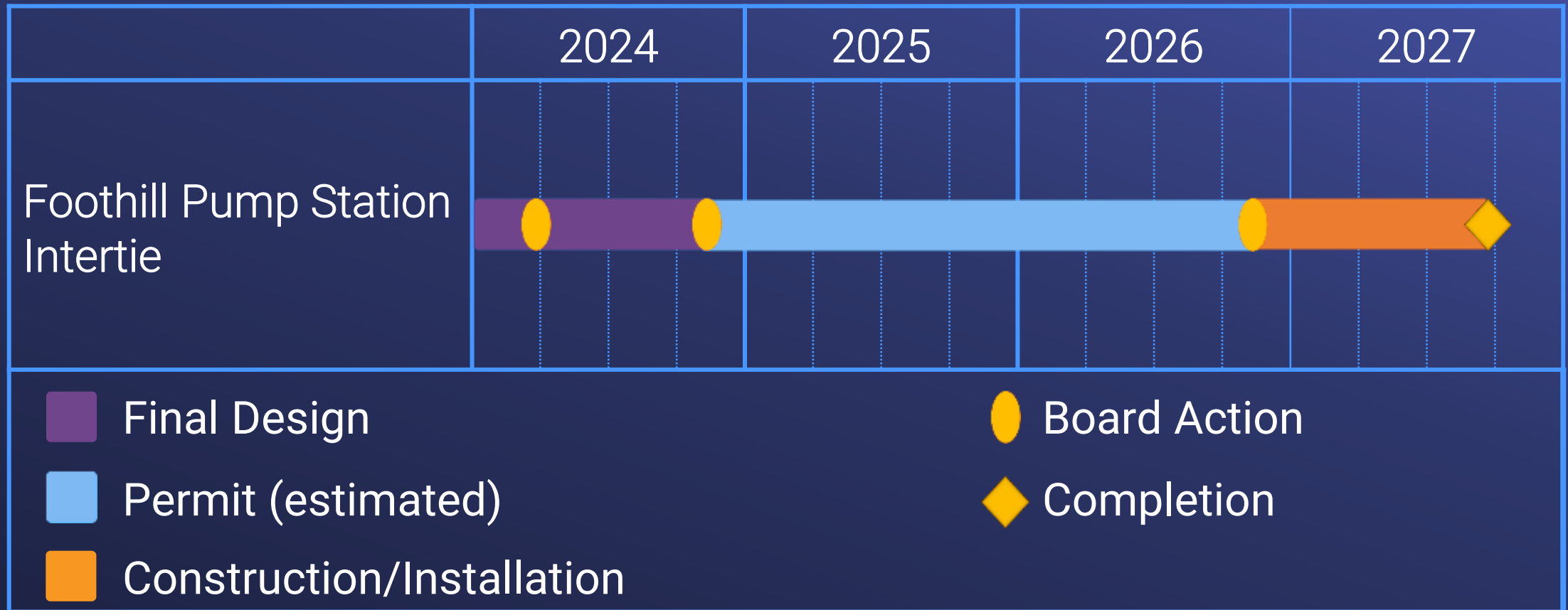
- **Project Status**

- Finalizing CEQA documents - August Board action
- Pending Fish & Wildlife permit & BLM right-of-way acquisition



Existing Foothill Pump Station

# Inland Feeder-Foothill Pump Station Intertie



- The project was originally estimated to be completed by mid-2025
- Completion may be accelerated if Federal nexus on permitting is achieved



# Foothill Pump Station Intertie

## On-going partnership with SBVMWD

- Provides mutual benefits
- Bi-weekly project update meeting with SBVMWD
- Draft Joint Operation Agreement under review
- Biological data shared to benefit both agencies
- Joint coordination with Fish & Wildlife



Virtual Meeting to Discuss Terms of  
Joint Operation Agreement



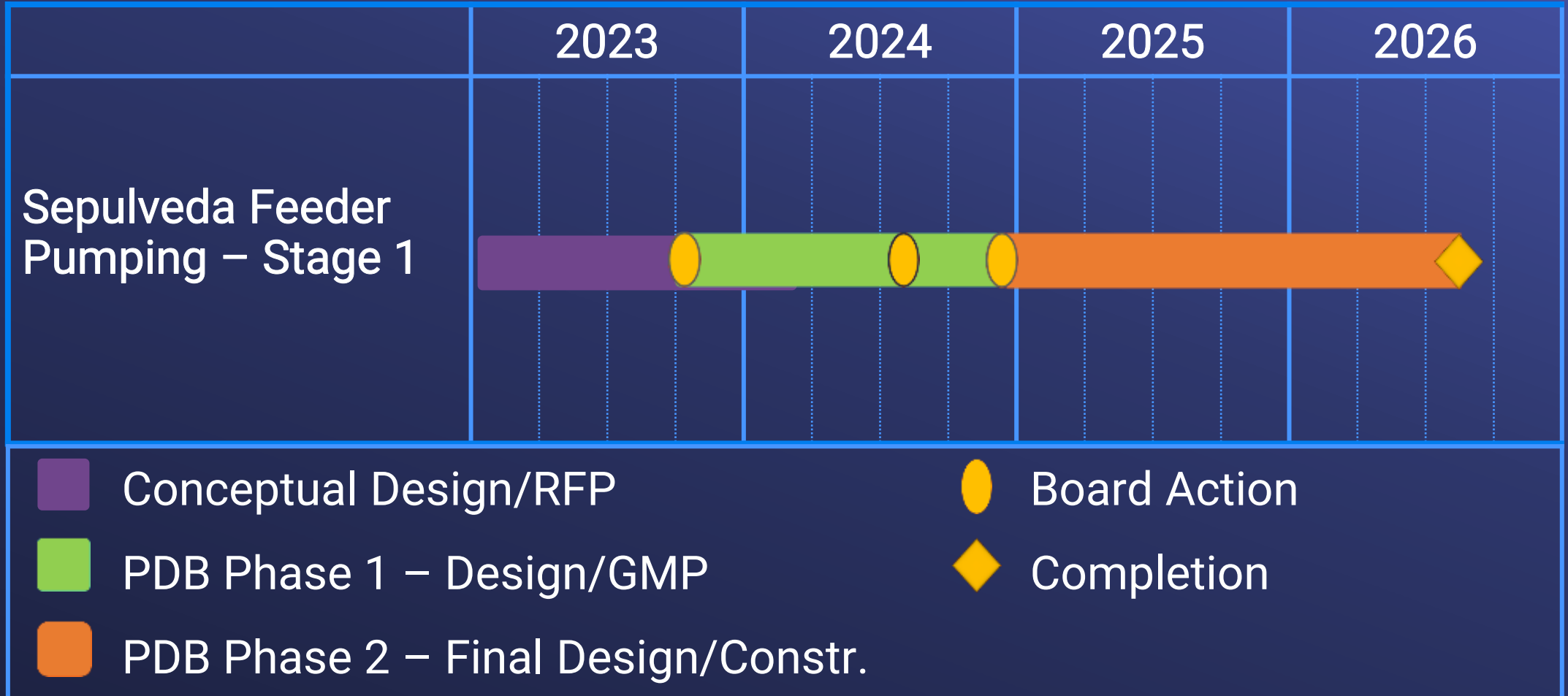
Biological Site Survey with  
SBVMWD Staff

# Sepulveda Feeder Pumping – Stage 1

- **Purpose**
  - Augments existing Greg Ave Pump Station to provide 30 cfs to Jensen exclusive area on west side
- **Project**
  - Reverse flow in the Sepulveda Feeder
  - Install pumping stations at two existing pressure control structures
  - Utilize Progressive Design-Build project delivery model
- **Status**
  - Design ±40% complete
  - Equipment procurement – July 2024



# Sepulveda Feeder Pumping – Stage 1



# Next Steps

- Continue implementation of near-term projects
  - Authorize amendment for Sepulveda Pump Sta. procurement (Jul-24)
  - Certify CEQA documentation & grant agreement for Foothill Pump Sta. (Aug-24)
  - Consider change order to Wadsworth Bypass for valve installation (Aug-24)
  - Quarterly reporting to the subcommittee
- Continue collaboration on member agency projects
  - Burbank B-5 to B-5A Shift
  - TVMWD Miramar Pumpback Upgrade
- Support the CAMP4W process to evaluate mid- and long-term projects
  - Provide periodic updates to the subcommittee

