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
D. Alvarez
J. Crawford
A. Fellow
L. Fong-Sakai
R. Lefevre
M. Luna
J. McMillan
K. Seckel

Subcommittee on Pure Water Southern California and Regional Conveyance

Wednesday, January 22, 2025

09:00 a.m. PWSCRC

Meeting with Board of Directors *

January 22, 2025

9:00 a.m.

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. the 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: 873 4767 0235.

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: 876 9484 9772 or to join by computer click here.

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012
Teleconference Locations:
3024 Fairview Drive • Vista, CA 92084
30378 Canyon Trail Court • Menifee, CA 92584
Western MWD • 14205 Meridian Parkway • Riverside, CA 92518

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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))

US2-145

**** 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 September 24, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions) **21-4172**

Attachments: 01222025 PWSCRC 2A (09242024) Minutes

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

3. SUBCOMMITTEE ITEMS

a. Pure Water Southern California Quarterly Update **21-2951**

Attachments: 01222025 PWSCRC 3a Presentation

b. Regional Benefits of Pure Water Southern California **21-4173**

Attachments: 01222025 PWSCRC 3b Presentation

c. Pure Water Southern California - Update on Staging Options **21-4174**

Attachments: 01222025 PWSCRC 3c Presentation

d. Surface Water Storage Study **21-4175**

Attachments: 01222025 PWSCRC 3d Presentation

e. State Water Project Dependent Areas Drought Mitigation Update **21-4176**

Attachments: 01222025 PWSCRC 3e Presentation

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

September 24, 2024

Chair Camacho called the meeting to order at 9:00 a.m.

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

Members absent: Directors Crawford and Luna.

Other Board members present: Directors Ackerman, Bryant, Dennstedt, Dick, Erdman, Garza, Gold, Goldberg, Gray (teleconference location posted), Kurtz, Lewitt, McCoy, Miller, Ortega, Quinn, and Sutley.

Committee staff present: Bednarski, Chapman, Chaudhuri, Hattar, Martinez, and Schlotterbeck

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

David Pedersen, General Manager, Las Virgenes Municipal Water District – Support item 3d

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 June 25, 2024.

Director Seckel made a motion, seconded by Director Fellow, to approve the consent calendar consisting of item 2a.

The vote was:

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

The motion for Item 2a passed by a vote of 9 ayes, 0 noes, 0 abstentions, and 2 absent.

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

3. SUBCOMMITTEE ITEMS

a. Subject: Pure Water Southern California Quarterly Update

Presented by: Kim Wilson, Team Manager – Program Management, Engineering Services Group

Ms. Wilson reported on the following:

- Summary of Work Completed
- Conveyance Reaches 1 & 2 Updates
- Potential Pure Water Southern California (PWSC) Deliveries
- Large-Scale Water Recycling Program Grant Updates
- Demonstration Testing Updates
- Outreach Updates

The following Directors provided comments or asked questions.

1. Smith
2. Gold

Staff responded to the Directors' questions and comments.

b. Subject: White Paper on Direct Potable Reuse Roadmap for Pure Water Southern California

Presented by: Joyce Lehman, Team Manager, Water Reuse and Process Development

Ms. Lehman reported on the following:

- Described considerations for implementing Direct Potable Reuse (DPR) for PWSC
- Evolution of DPR in the PWSC program
- Regulatory requirements and implications
- Other DPR initiatives
- Metropolitan's research approach
- Benefits and challenges with DPR
- Operational and workforce readiness

The following Directors provided comments or asked questions.

1. Seckel
2. Gold
3. Smith
4. Sutley
5. Dick
6. Miller

Staff responded to the Directors' questions and comments.

c. Subject: Pure Water Phasing Alternatives

Presented by: Bruce Chalmers, Program Manager – Pure Water Southern California, Engineering Services Group

Mr. Chalmers reported on the following:

- Provided an update on PWSC alternative phasing opportunities including background, identification of alternative phasing pathways, cost considerations, and next steps.

The following Directors provided comments or asked questions.

1. Dick
2. Miller
3. Seckel
4. Sutley
5. Alvarez
6. Smith

Staff responded to the Directors' questions and comments.

d. Subject: State Water Project Dependent Areas Drought Mitigation Update

Presented by: Winston Chai, Unit Manager, Engineering Services Group

Mr. Chai reported on the following:

- Provided an update on the progress of recommended drought mitigation actions
- Continuing implementation of projects that will provide timely drought relief to State Water Project Dependent Areas
- Continuing development of other projects to be evaluated in the CAMP4W process

The following Directors provided comments or asked questions.

1. Lewitt
2. Sutley

Staff responded to the Directors' questions and comments.

4. FOLLOW-UP ITEMS

None

5. FUTURE AGENDA ITEMS

None

The next meeting will be held in January 2025.

Meeting adjourned at 11:33 a.m.

Michael Camacho
Chair

Subcommittee on Pure Water Southern California and Regional Conveyance

Pure Water Southern California Program Quarterly Update

Item 3a

January 22, 2025

Item 3a
PWSC
Quarterly
Update

Agenda

- Partnership & Agreements
- Environmental Planning
- Advanced Water Treatment
- Conveyance System
- Upcoming Program Milestones
- Next Steps

Item 3a
PWSC
Quarterly
Update

Partnership & Agreements

- Member Agencies
  - Discussed terms for water delivery
- Southern Nevada Water Authority
  - Discussed terms for investment in PWSC
- United States Bureau of Reclamation
  - Entered into agreement for LSWRP grant funding
    - Grant Total: $125,472,855
    - Initial release: $ 55 M
    - Pre-award start date: April 6, 2020
    - Agreement start date: January 10, 2025
    - Agreement duration: 3 years

Large-Scale Water Recycling Program Scope of Work

Planning & Design Activities

- Procure Membrane Bioreactor (MBR) & Advanced Water Treatment (AWT) Progressive Design-Build (PDB) entities to start AWPF design
- Continue Sanitation District's design of centrate pre-treatment process
- Continue design of pipeline reaches
- Procure alternative delivery entities for conveyance
- Evaluate treated water augmentation opportunities
- Continue program management & outreach
- Continue demonstration testing & research

PWSC
Environmental
Planning

EIR Updates

- EIR preparation on-going
- Next Steps
  - Public review draft EIR: May – June 2025
  - Response to comments: Mid – Late 2025
  - Final EIR certification: Early 2026
- Pursuing SB 149 CEQA Litigation Streamlining

Napolitano Innovation Center Demonstration Testing Update

Recent Accomplishments

- Treatment validation testing with chemical spiking
- Draft Secondary MBR testing report
- Collaborated with LACSD on testing for ocean discharge evaluation

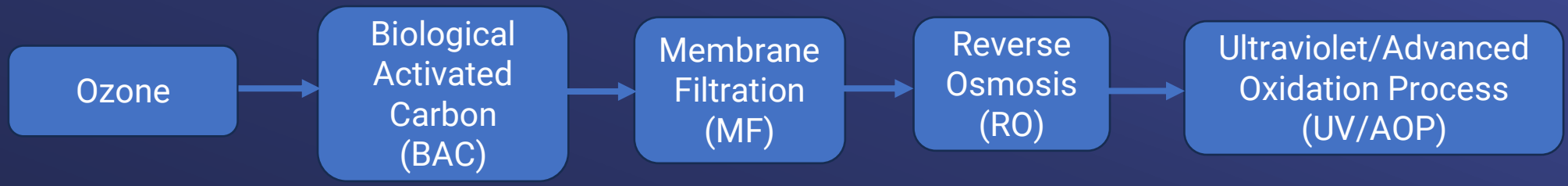
Upcoming Activities

- Independent Science Advisory Panel meeting
- Complete nitrification-denitrification testing
- Transition to nitrifying-only tertiary MBR testing
- Plan evaluations of DPR treatment alternatives

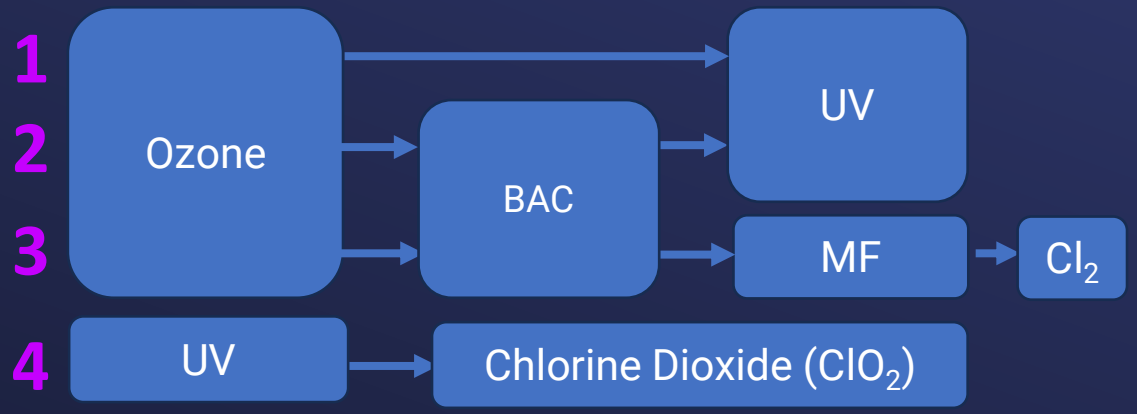
DPR Demonstration Testing – Facility Planning

- DPR Treatment Trains

Default Train (full-size MF/RO modules)



Alternative Trains (pilot skids)



- Improvements to Existing Facilities

Direct PR via TWA Feasibility Evaluation

TWA Feasibility Evaluation Approach

- Establish potential TWA infrastructure
- Identify demands & operational constraints of nearby feeders
- Conduct hydraulic analyses
- Establish offsite facility requirements
- Evaluate water quality impact on existing feeders
- Estimate facility costs
- Evaluate alternatives for implementation
- Refine permitting & implementation schedules

Conveyance System

- Presented to Pico Rivera City Council
- Received conditional approval of pipeline alignment from city of Azusa
- Initiated coupon testing for pipeline lining & coating materials at Metropolitan's corrosion lab in La Verne
- Conducted soil resistivity testing along backbone pipeline alignment within SCE rights of way
- Continued utility investigations & coordination with property owners

Corrosion Testing Coupons

Testing for Coatings & Linings

PWSC Public Outreach Update

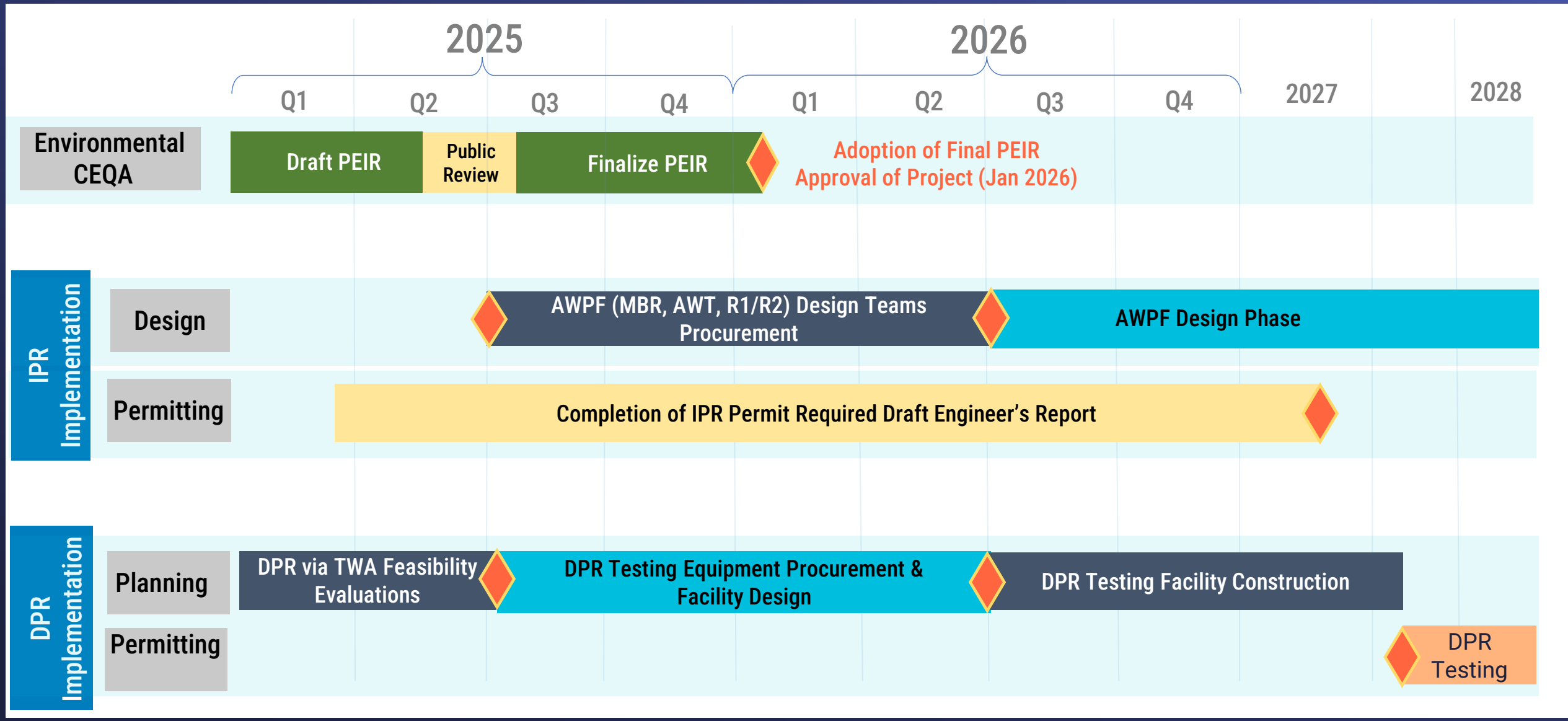
Mayor Karen Bass' Staff Tour

Assembly Member Tina McKinnor Tour

West Basin Water Harvest

Wate(R)evolution Symposium

Program Near-Term Schedule



Next Steps

- Prepare remainder of chapters for EIR & issue first admin draft
- Continue program phasing evaluation for implementation
- Continue planning for DPR demonstration testing
- Complete evaluation of program implementation with TWA options
- Conduct market sounding for conveyance projects
- Continue preparation of RFQs for AWPF PDB, and CM/GC for Reaches 1 & 2


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928

Subcommittee on Pure Water Southern California and Regional Conveyance

Regional Benefits of Pure Water Southern California

Item 3b

January 22, 2025

Item 3b
Regional Benefits of Pure Water Southern California

Subject

Regional Benefits of Pure Water Southern California

Purpose

Inform the committee about the need, regional benefits, and alignment of supply and demand for Pure Water Southern California

Next Steps

Continue planning and design efforts to determine program demands and regional benefits

Need for Pure Water Southern California

Risk of Shortage & Water Supply Allocation Plan (WSAP)

- Up to 1.22 MAF of net shortage by 2045
  - Would require up to 650 TAF of additional core supply
  - Needs primarily in the SWP-dependent areas
- Net Shortage of up to 66% of the time
  - 2% chance that storage would go below 1 MAF

Declining Groundwater Levels

- Despite favorable hydrologic conditions the past 2 years, 48 percent of the groundwater basins are still below their established operating ranges
- Loss of groundwater production by as much as 10 percent by 2040

Slow Development of Local Supplies

- Despite significant investment in local supplies, the potential shortfall in development remains at ~ 400,000 AF

Regional Benefits of Pure Water

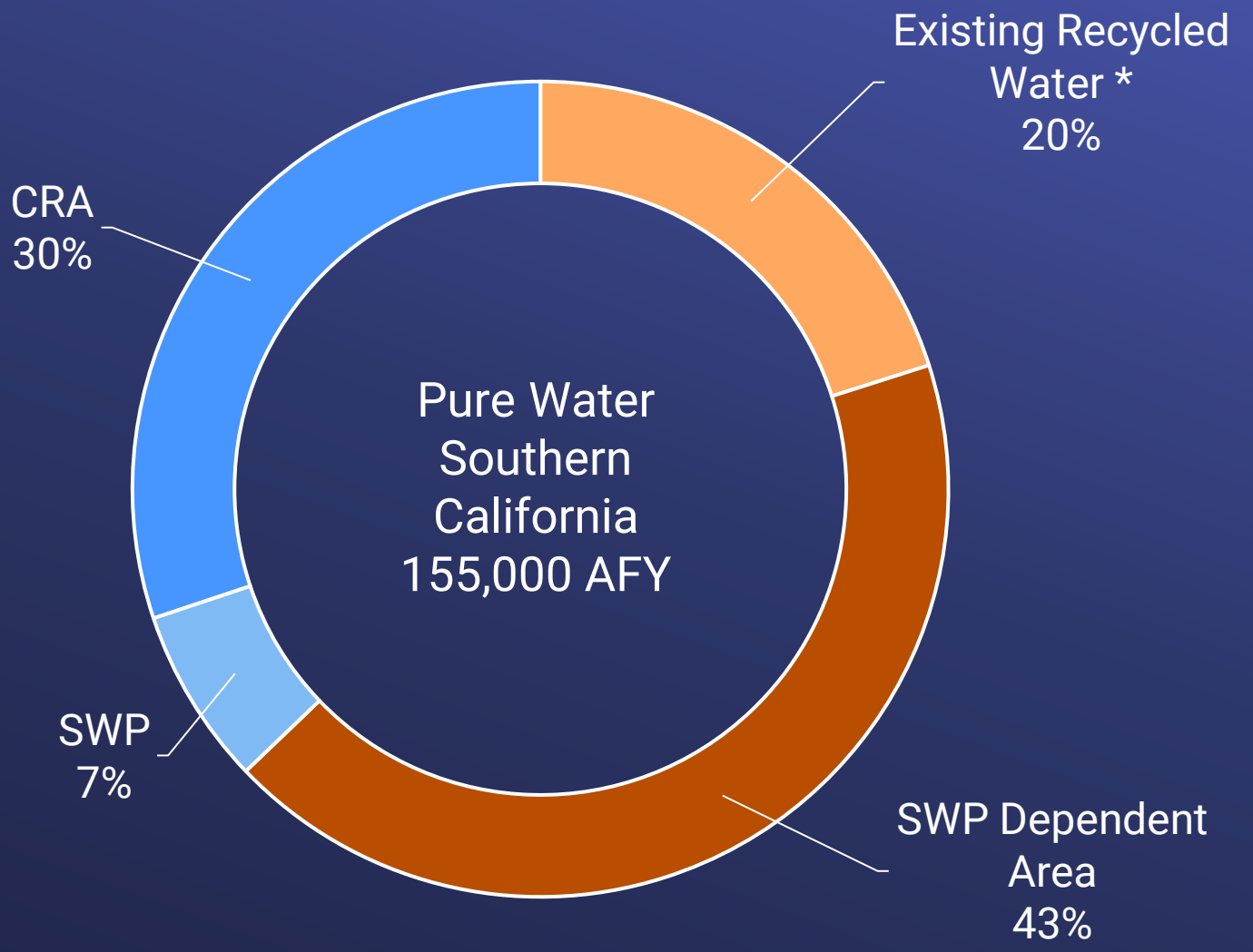
- Reduces Risk of Net Shortage by up to 14%
- Reduces Risk of WSAP by up to 50%
- Reduces Reliance on SWP and Colorado River
- Improves Groundwater Sustainability
- Improves Local Supply Development
- Increases Available Supply During Seismic Emergency by 15%
- Increases Operational Flexibility
- Generates up to 50,000 New Jobs

Pure Water Southern California Offsets SWP and CRA

Pure Water Southern California production reduces reliance on imported water sources:

- 80% of PWSC reduces reliance on SWP & CRA
- 20% of PWSC replaces existing recycled water use

* The existing West Basin recycled water may be used by the City of Los Angeles to reduce reliance on SWPDA



Member Agency Discussions

Meetings (April-December 2024)

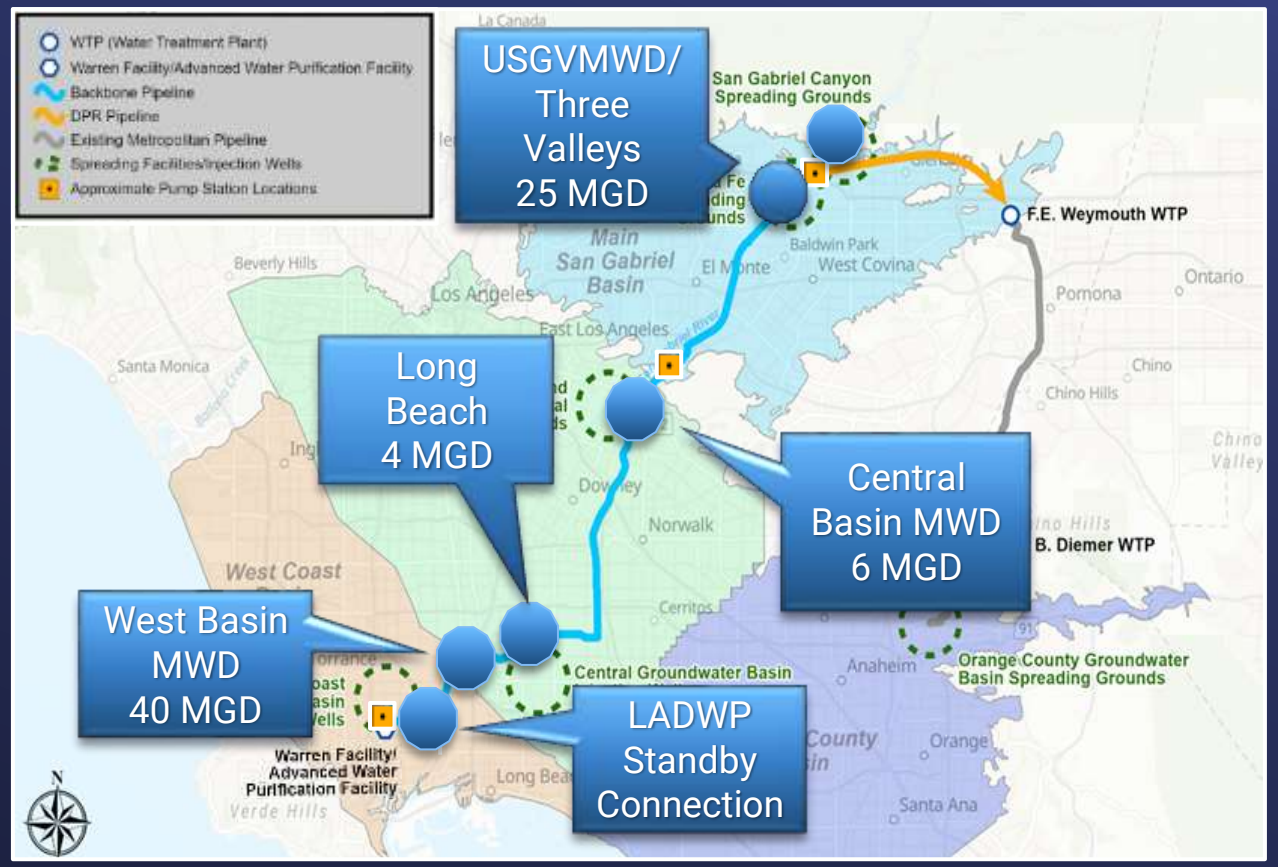
Refinement of MA Demands

Development of Preliminary Term Sheets for Purchase and Delivery of Pure Water

Potential Demand: ~45 mgd

Member Agency	Average Demand	Existing or New Demand
LACSD	<1 mgd	Existing effluent
LADWP	Standby	Existing recycled water
West Basin	40 mgd	Existing recycled / imported
Long Beach	4 mgd	New augmentation
Total	**~45 mgd**	—

Potential Demand: ~75 mgd



* Meets minimum demand for Main San Gabriel Basin.

Member Agency	Average Demand	Existing or New Demand
LACSD	<1 mgd	Existing effluent
LADWP	Standby	Existing recycled water
West Basin	40 mgd	Existing recycled / imported
Long Beach	4 mgd	New augmentation
Central Basin	6 mgd	Existing imported
USGVMWD	21 mgd *	Existing imported
Three Valleys	4 mgd *	New augmentation
Total	**75 mgd**	—

Alignment of Supply and Demand Goals

Ability to meet production goals without storage (2019-2023 Daily Hydrology)

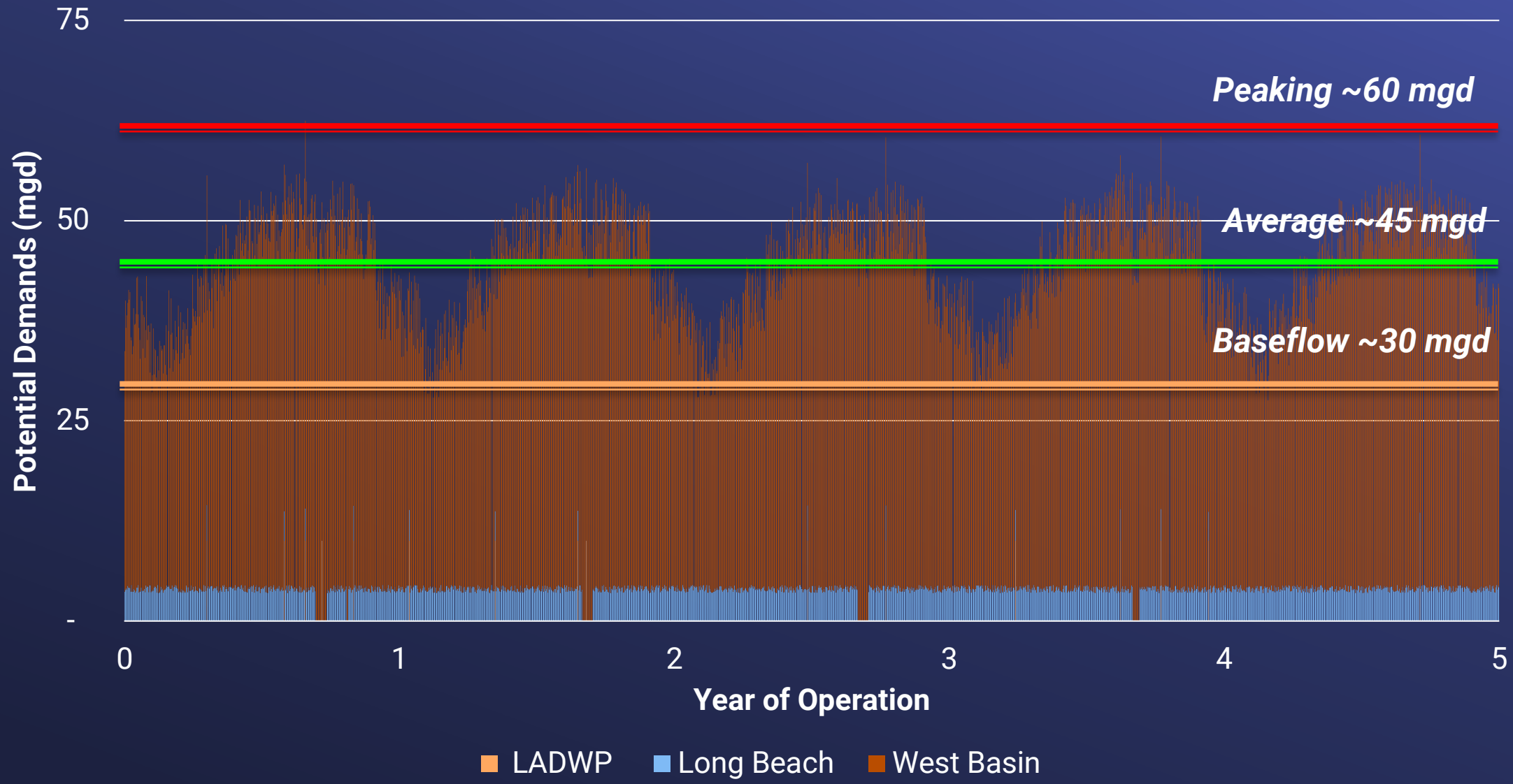
Account for downtime and maintenance

Account for spreading basin availability in Central and Main San Gabriel Basin

Account for range in expected demand (diurnal, peaking, and average demand)

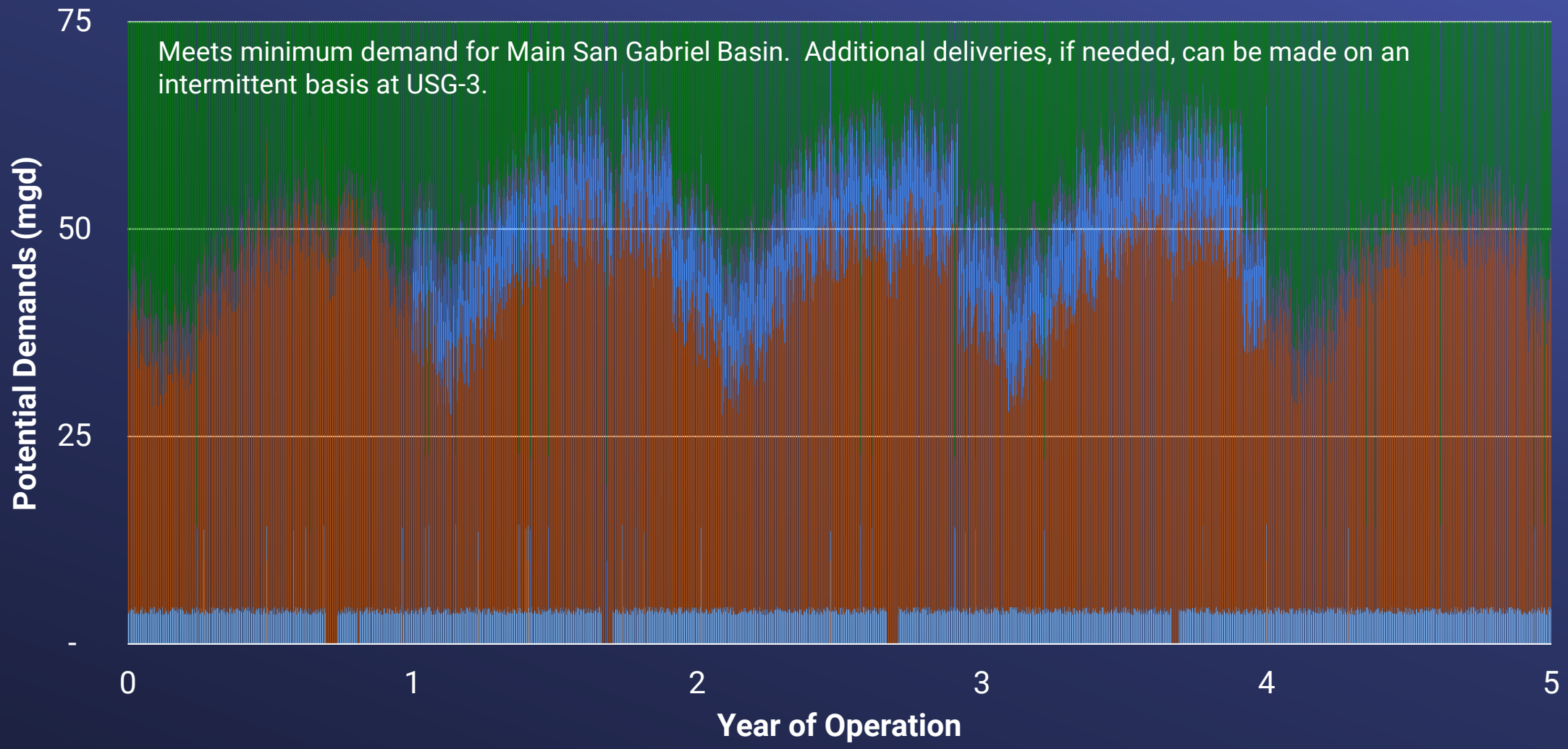
Daily Demands Vary Significantly with an Initial Delivery of ~45 mgd

Significant Member Agency Storage Likely Required



Daily Deliveries Vary Less with an Initial Delivery of 75 mgd

Dedicated Recharge in Main San Gabriel Basin Helps Control Demand Variability



Summary of Demand Assessment

45 mgd

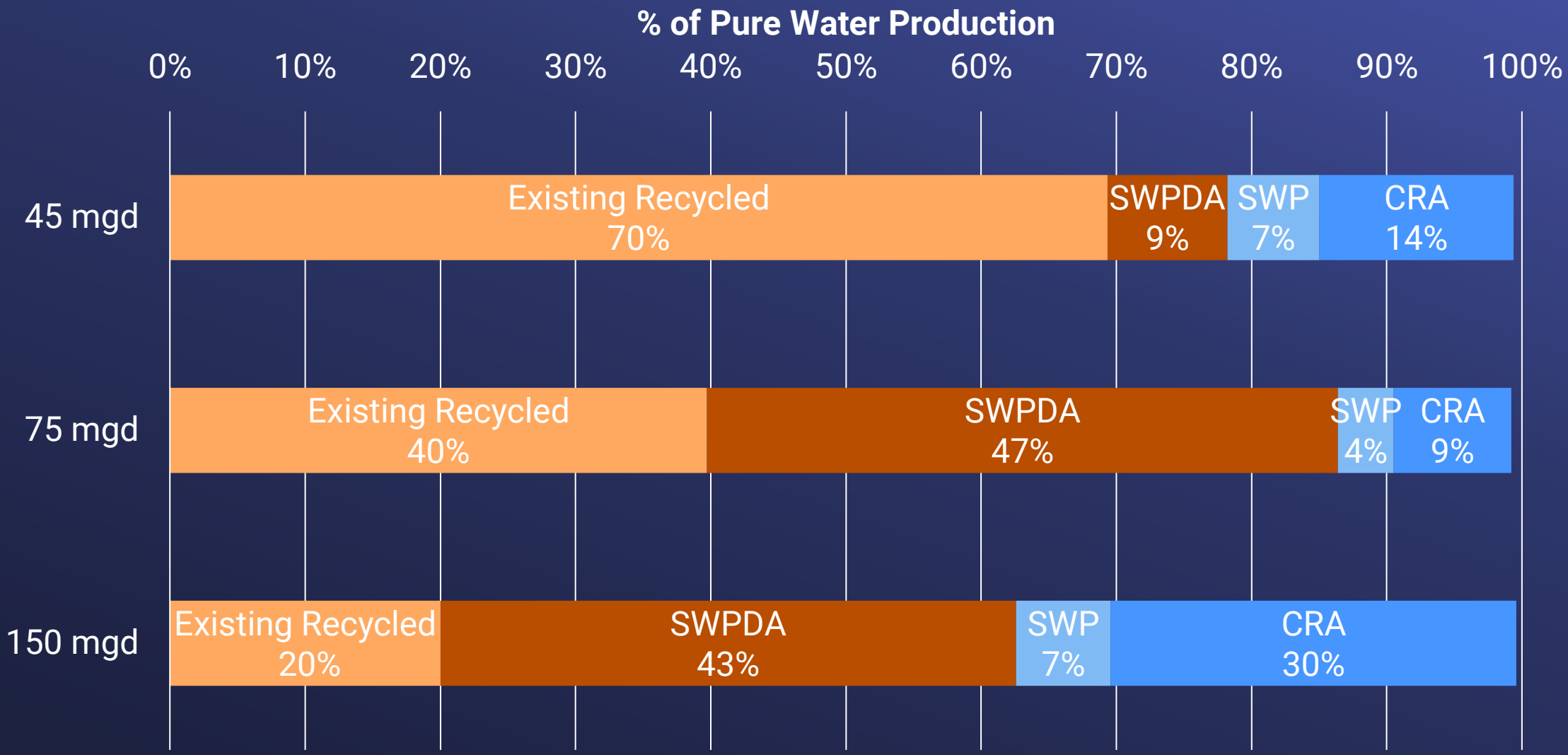
- Smaller initial construction package
- Demands vary significantly
- May require significant member agency storage to handle peaking & meet Metropolitan's goals

75 mgd

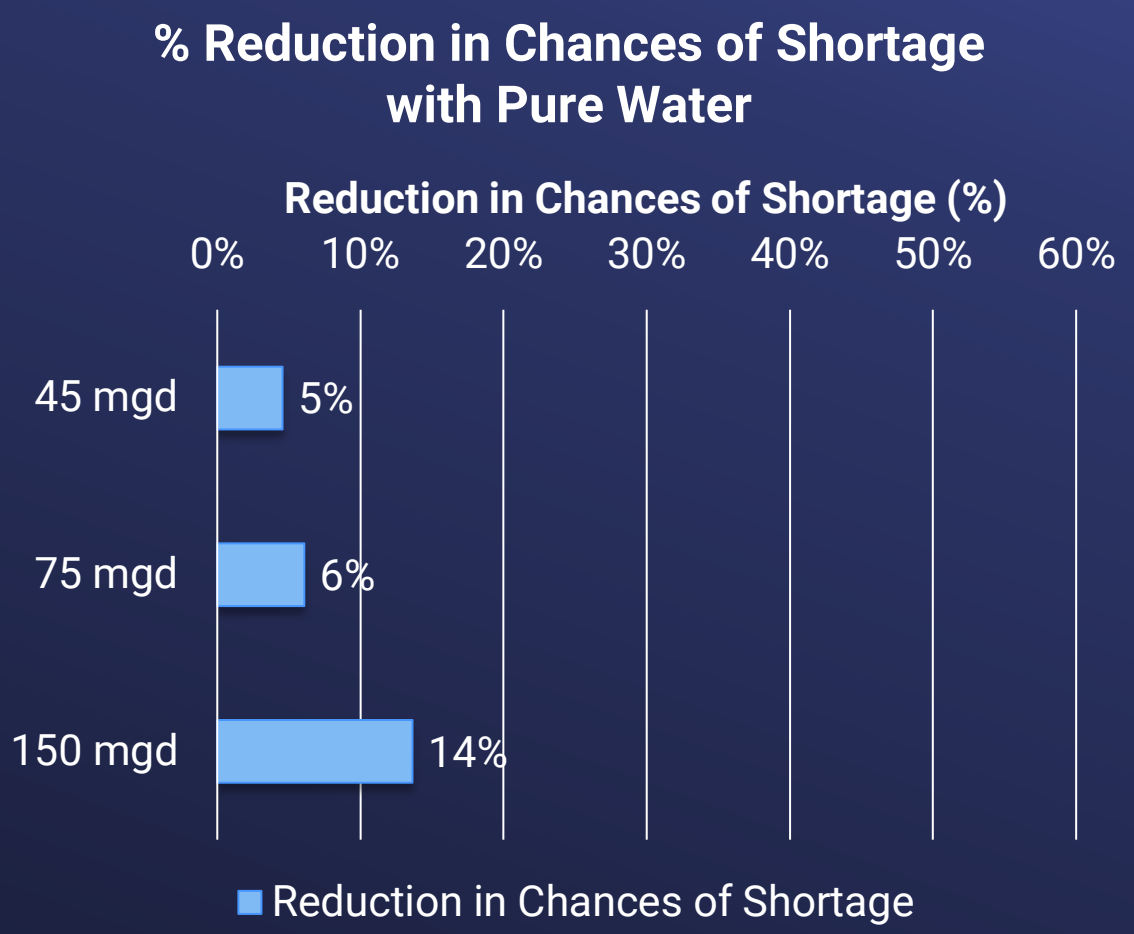
- Meets most of the IPR demand
- Addresses storage/peaking issues
- Will need to decide on backbone upsizing earlier

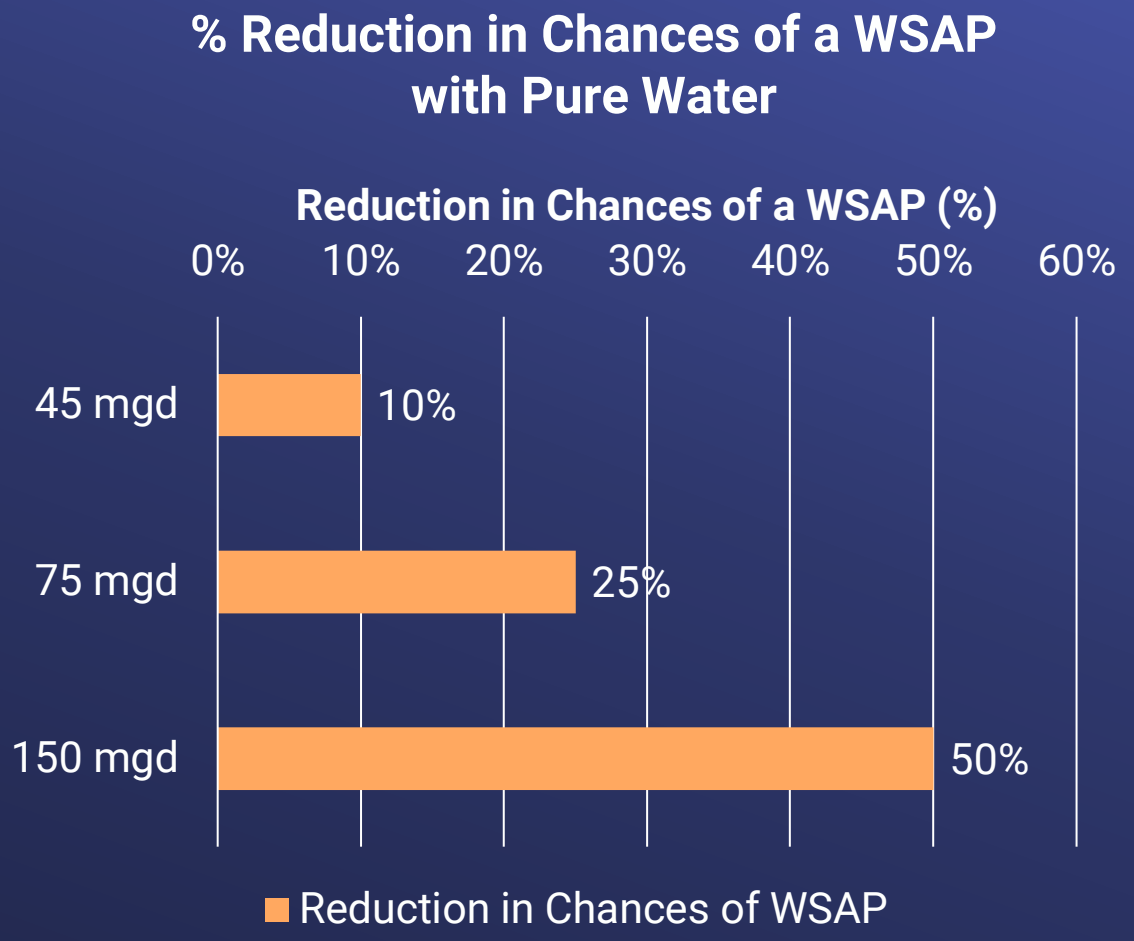
Regional Benefits of Pure Water

Reduces Reliance on SWP & CRA



Regional Benefits of Pure Water
Reduces Chances of Shortage and WSAP





Summary

Need for Pure Water

- Risk of shortage and WSAP
- Declining groundwater levels
- Slow development of local supplies

Regional Benefits of Pure Water

- Reduces risk of shortage and WSAP
- Reduces reliance on SWP and Colorado River
- Improves groundwater sustainability and local supply development
- Increases operational and emergency flexibility
- Generates new jobs

Demands

- 45 mgd: Operationally challenging to implement & doesn't meet Metropolitan goals.
- 75 mgd: Demand variations can be handled with new dedicated recharge in Main San Gabriel Basin.


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928

Subcommittee on Pure Water Southern California and Regional Conveyance

Pure Water Southern California – Update on Staging Options

Item 3c

January 22, 2025

Item 3c
PWSC Update on Staging Options

Subject

Pure Water Southern California (PWSC) Staging Options Update

Purpose

To provide an update on the PWSC staging opportunities

Next Steps

Continue planning & design efforts to determine program staging options

Item 3c
PWSC Initial Phase Update

PURE WATER SOUTHERN CALIFORNIA

Agenda

- Program goals and objectives
- Review of previous staging discussions
- Evaluation of staging options
- Comparison of options
- Staging coordination with the Sanitation Districts

Summary of PWSC Program Goals

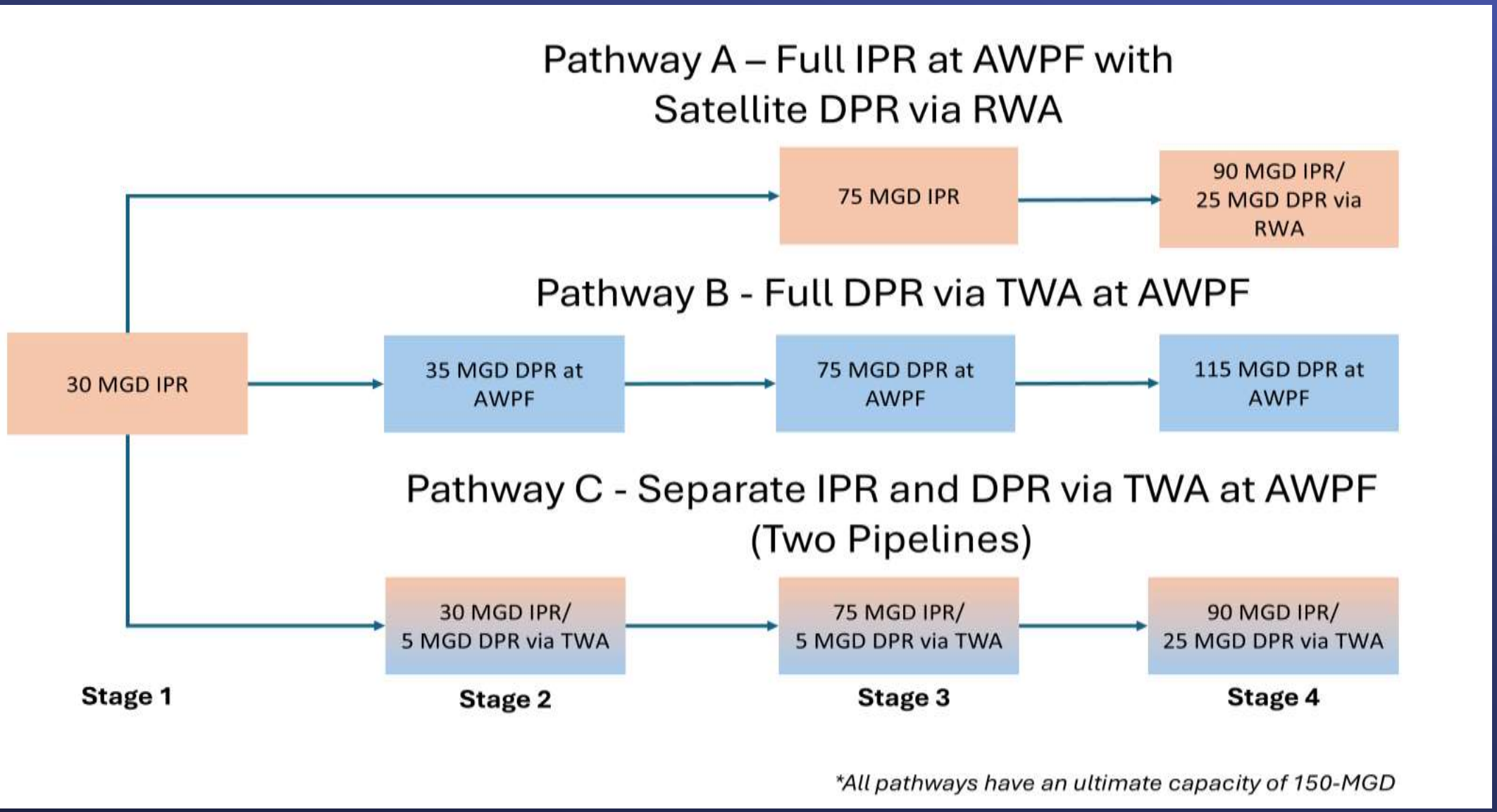
- Provide a new high-quality local water source that cost-effectively meets demands
- Diversify Metropolitan's water supply & increase operational flexibility
- Improve water supply resiliency & groundwater water quality
- Provide purification to maximize beneficial reuse of wastewater
- Reduce reliance on imported water
- Provide greater resilience to local water supplies

Potential Staging Considerations

Objectives for Staging Option Analysis

- Phasing in the EIR
  - Phase 1 – 115 mgd
  - Phase 2 – 150 mgd
- Investigate approaches to refine program staging
  - Reduce initial scope & cost of Phase 1 (115 MGD)
  - Investigate potential to incorporate Treated Water Augmentation (TWA)
  - Develop & evaluate multiple staging options
  - Prepare conceptual costs & schedules for each of the options

Potential Pathways with Stages



Efforts since September Subcommittee Meeting

- Continued coordination of demands with member agencies
- Evaluated flexibility to meet demand variability
- Continued DPR via TWA investigations
- Revised program schedule
- Refined program costs
- Coordinated with LACSD
- Compared the options with the program goals

Staging Options to Consider

Option 1

45 MGD

IPR Water Quality

Meets demands to Long Beach

10 miles of pipeline

Industry/groundwater recharge

Option 2

75 MGD

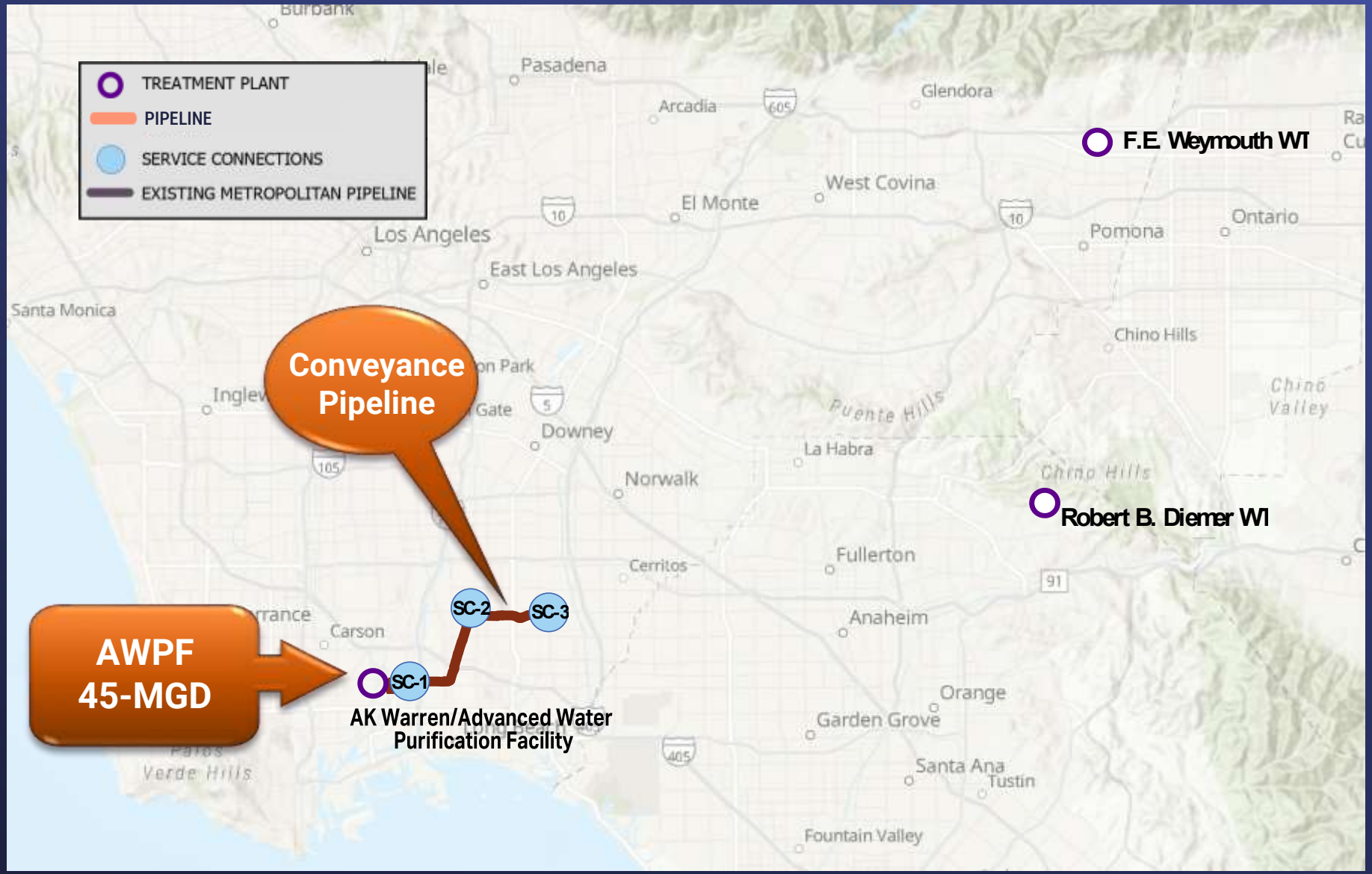
IPR Water Quality

Meets demands to Santa Fe Dam area

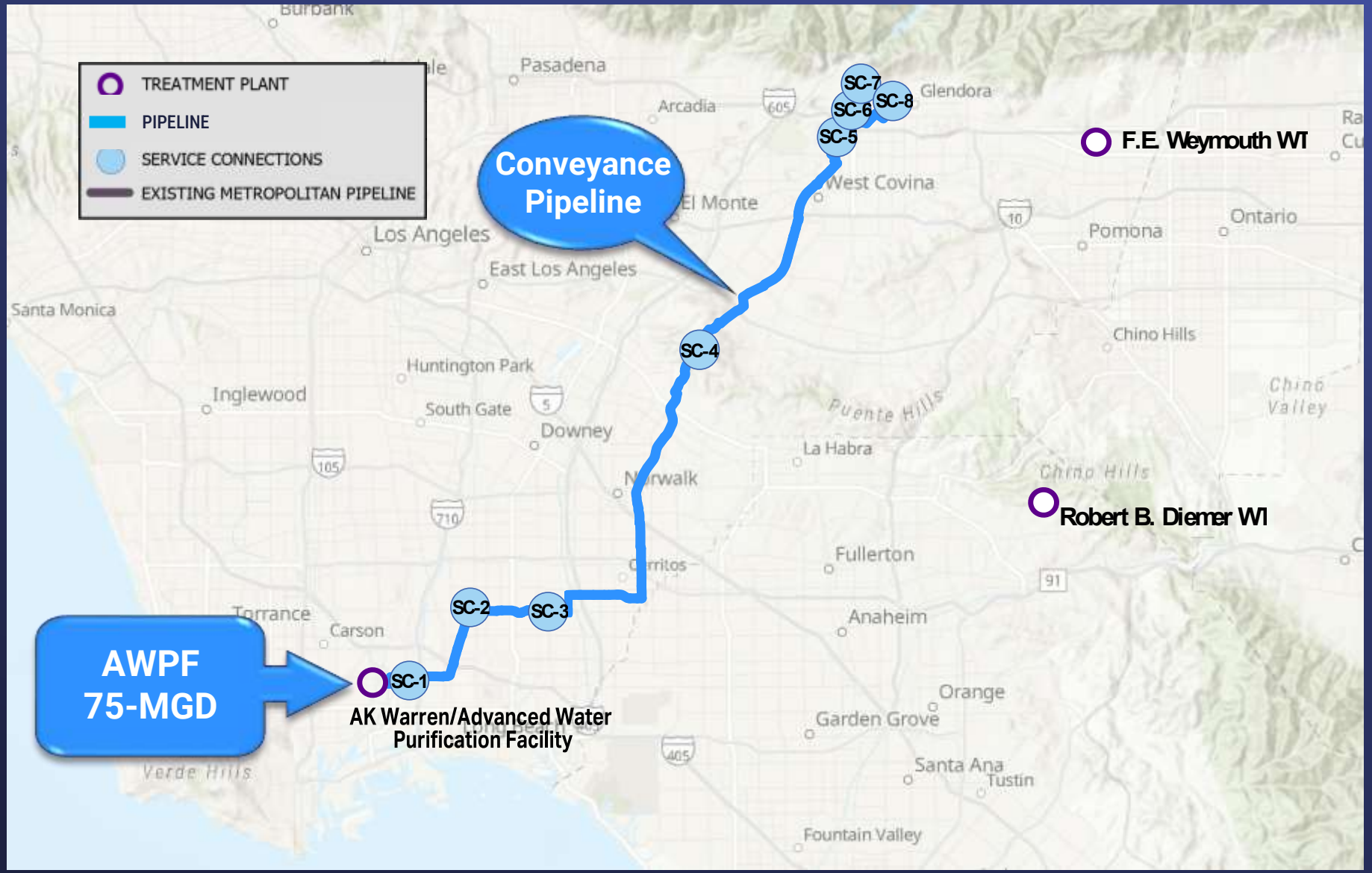
35 miles of pipeline

Industry/additional groundwater recharge

Option 1 – IPR Treatment at AWPF to Long Beach

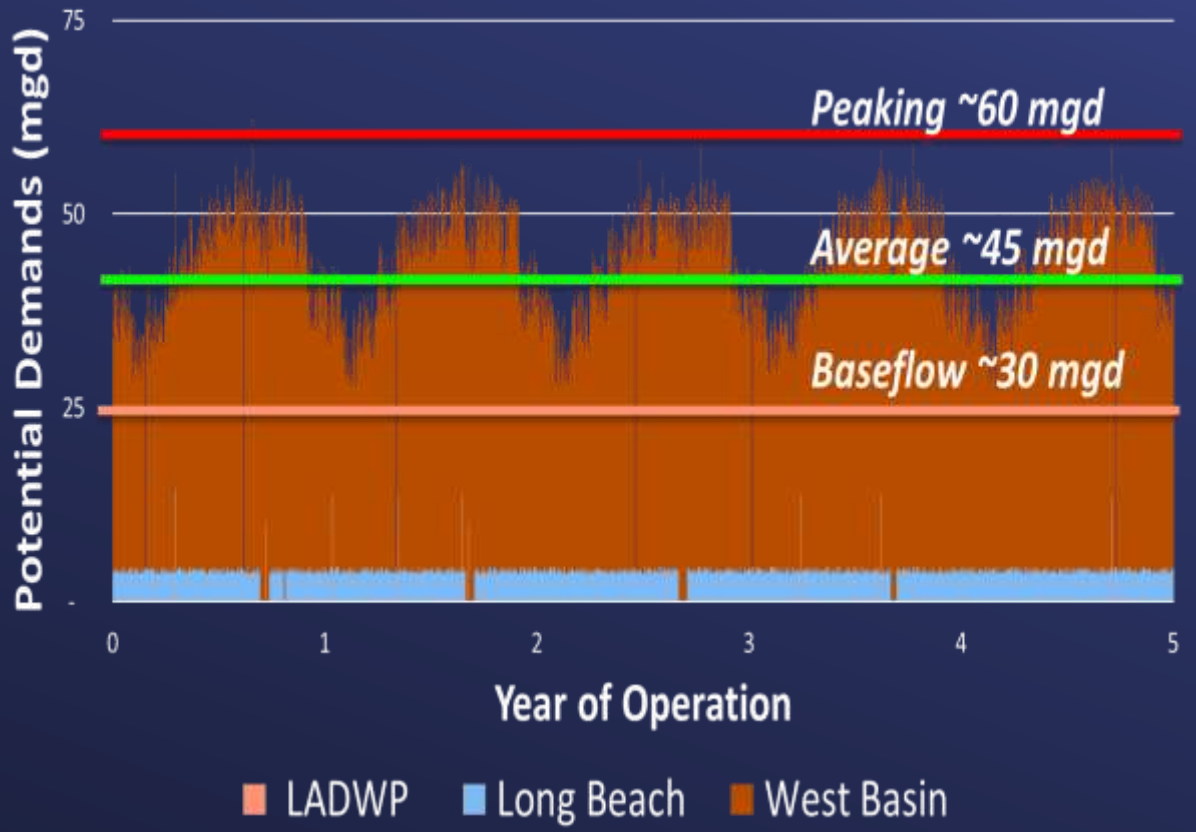


Option 2 – IPR Treatment at AWPF to Santa Fe Dam

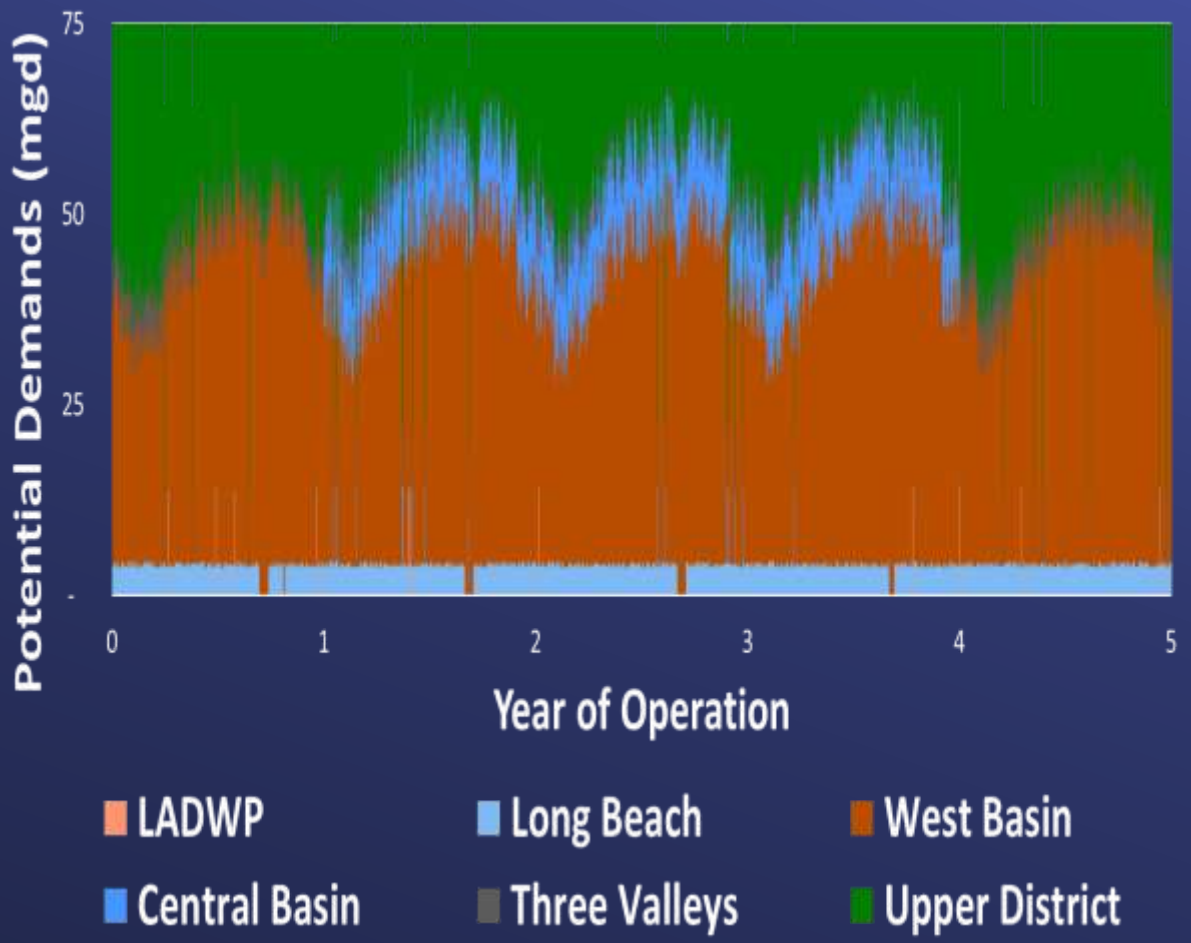


Provide Operational Flexibility & Meet Demand Variability

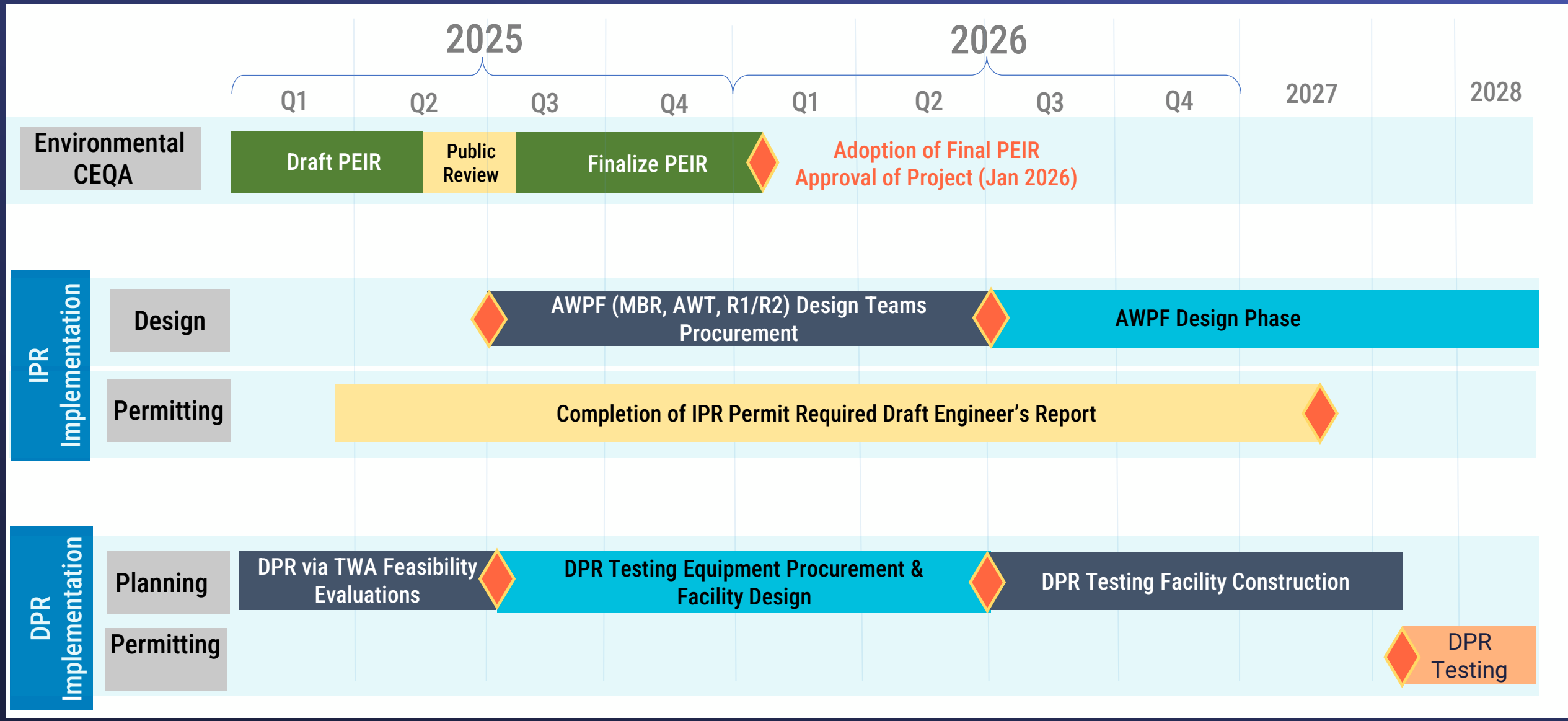
Option 1 - 45 mgd



Option 2 - 75 mgd



Implementation Schedule with DPR Planning and Testing



DPR/TWA Evaluation

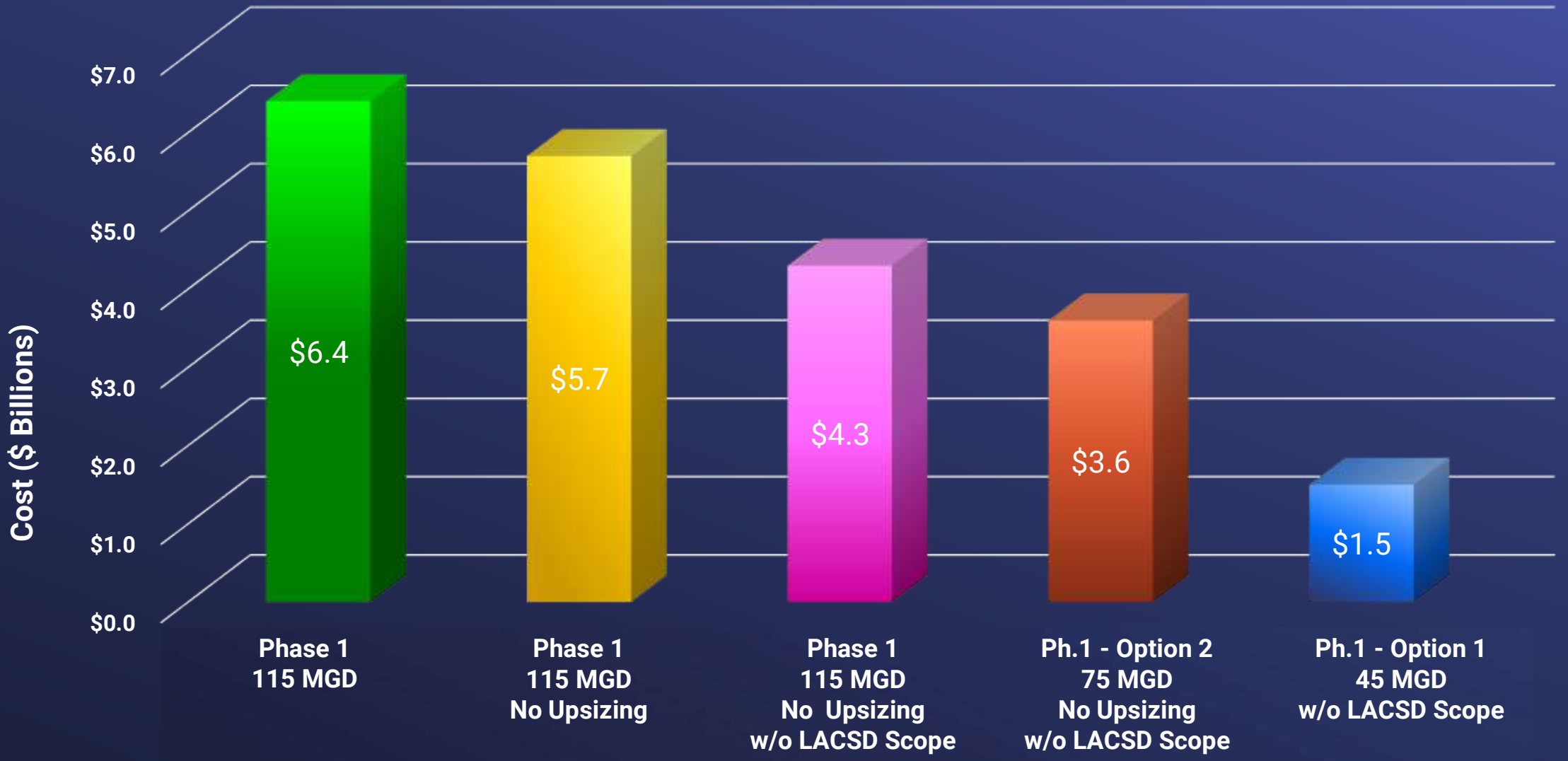
Summary of DPR Considerations

- DPR (RWA and TWA) will take longer to permit and implement than IPR
  - TWA studies are still being evaluated
  - Pilot and demo testing must be completed prior to design of the DPR Facilities
- IPR only implementation for both options is recommended for the initial construction
- Flexibility to implement DPR into the PWSC after evaluations and demo testing is completed

Overview of Updated Program Costs

- Based on program costs presented in November 2023
  - Phase 1 – 115 MGD
  - Upsized pipeline for LADWP PWLA Program
  - All treatment facilities – MBR, RO, UV-AOP, etc.
- Modifications since 2023
  - Agreement with LACSD assigns construction costs of pre-treatment facilities (MBR etc.) to LACSD

Metropolitan Staging Cost Comparisons



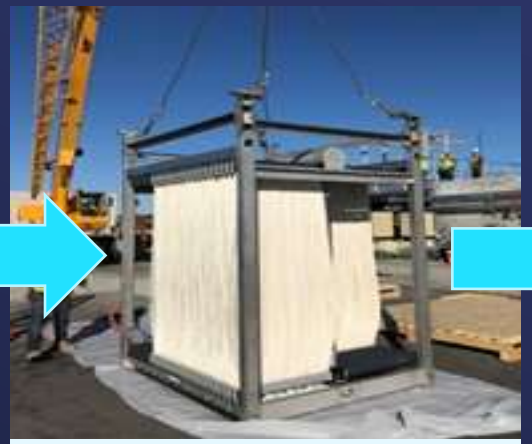
Comparison of Staging Options

Parameter	Option 1	Option 2
AWPF Capacity (mgd)	45	75
Water Quality	IPR	IPR
Ability to Meet Production Goals w/o New Storage or Stranded Assets	No	Yes
Maximizes Beneficial Reuse of Recycled Water	Low	High
Agencies Served	WBMWD, Long Beach	WBMWD, Long Beach, CBMWD, Upper District, 3 Valleys MWD
Requires Dedicated Recharge Basin	No	Yes
Year of Operation	2033	2034
Metropolitan Estimated Cost	$1.5 billion	$3.6 billion

Update from the Sanitation Districts

- Preparing procurement documents for MBR Progressive Design-Build
- Supporting Metropolitan on CEQA
- Research studies and supporting operations and testing at Grace F. Napolitano Innovation Center
- General Manager briefing Board today on PWSC Program efforts
- Considering the Program's rate impacts

A.K. Warren Water Resource Facility



MBR Pre-treatment

Advanced Water Treatment

Staging Coordination with the Sanitation Districts

The Sanitation Districts supports staging options that:

- Maximize the beneficial reuse of recycled water
- Fully meet the PWSC Program Goals
- Are cost effective today and reduce future implementation costs
- Are 75 MGD (or larger) with a pipeline to Irwindale to recharge the Main San Gabriel Valley Groundwater Basin

Recharge Facilities


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928

Pure Water Southern California and Regional Conveyance Subcommittee

Surface Water Storage Study Update

Item 3d

January 22, 2025

Item 3d
Surface Water Storage Study Update

Subject

Update on the feasibility of new surface water storage facilities

Purpose

To share the study's progress and findings while gathering feedback on the proposed next steps

Next Steps

- Complete the Phase 2 study to narrow down potential sites
- Proceed to site-specific assessments (Phase 3)
- Inform One Water and Stewardship Committee & CAMP4W Task Force on findings & recommendations

Drivers, Objectives, & Approach

- **Drivers**
  - Fluctuated SWP supply conditions
  - Challenges to mitigate severe droughts and manage excessive surplus
  - Core supply identified as a time-bound target in CAMP4W annual report
- **Objectives**
  - Improve SWP supply reliability
  - Enhance regional resilience
  - Incorporate climate adaptation to align with CAMP4W objectives
- **Study Approach**
  - Phase 1 – inventory & screening
  - Phase 2 – comprehensive evaluation
  - Phase 3 – site-specific assessment

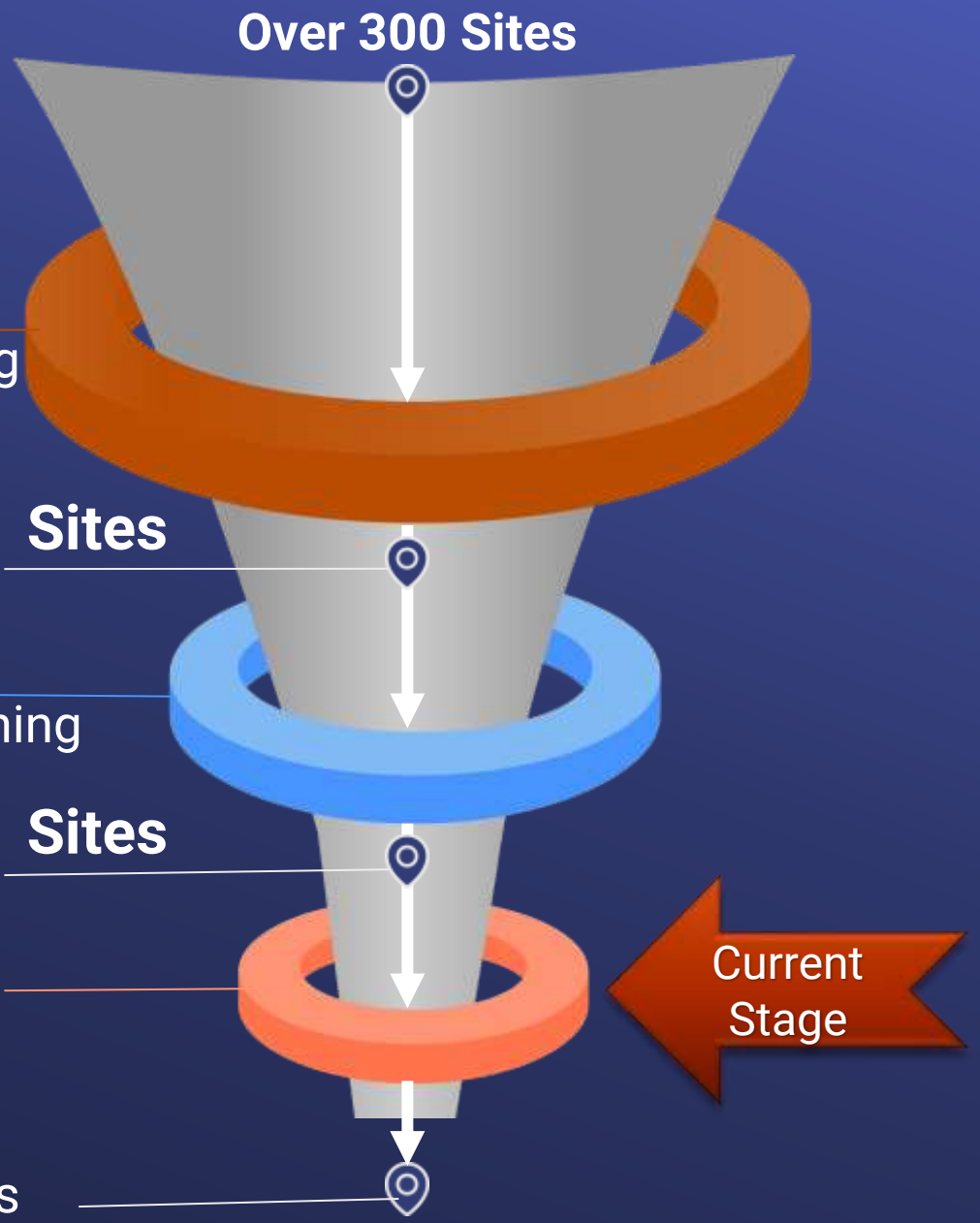
Evaluation of Potential Sites

PHASE 1 Criteria

- Location
- Storage capacity (minimum of 30 TAF)
- General geological/geotechnical
- Institutional constraints
- Environmental protections

PHASE 2a Criteria

- Distance from aqueduct & vertical lift
- Storage capacity (minimum 100 TAF)
- Land ownership and use
- Interference with flood protection
- Potential for partnerships



Sites Retained for Phase 2b Evaluation

Phase 2b Quantitative Evaluation Criteria

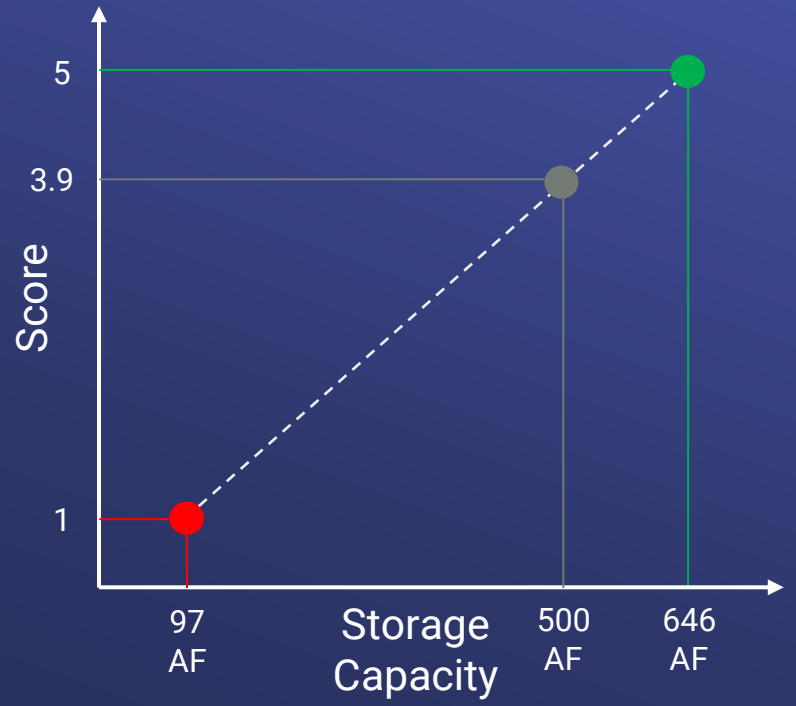
Criteria	Key Metrics
Facility Characteristics	• Storage efficiency and potential for sediment
Water Quality	• Risks of impairment to stored water supplies
System-Wide Considerations	• Contribution to storage objective and effects on SWP
Financial Affordability	• Capital cost per acre-foot of storage capacity
Climate Adaptability and Reliability	• Potential capacity for pumped storage hydropower

Phase 2b Qualitative Evaluation Criteria

Criteria	Key Attributes
Facility Characteristics	• Dam, conveyance system, utility relocations
Water Quality	• Inflow water quality conditions
System-Wide Considerations	• Flexibility to serve Metropolitan service areas, proximity to population centers, potential downstream hazards
Geologic Considerations	• Seismicity, liquefication, landslide risk
Environmental Considerations	• Environmental compliance complexity
Climate Adaptability and Reliability	• Seismic reliability to Metropolitan supply • Site wildfire and heat risks

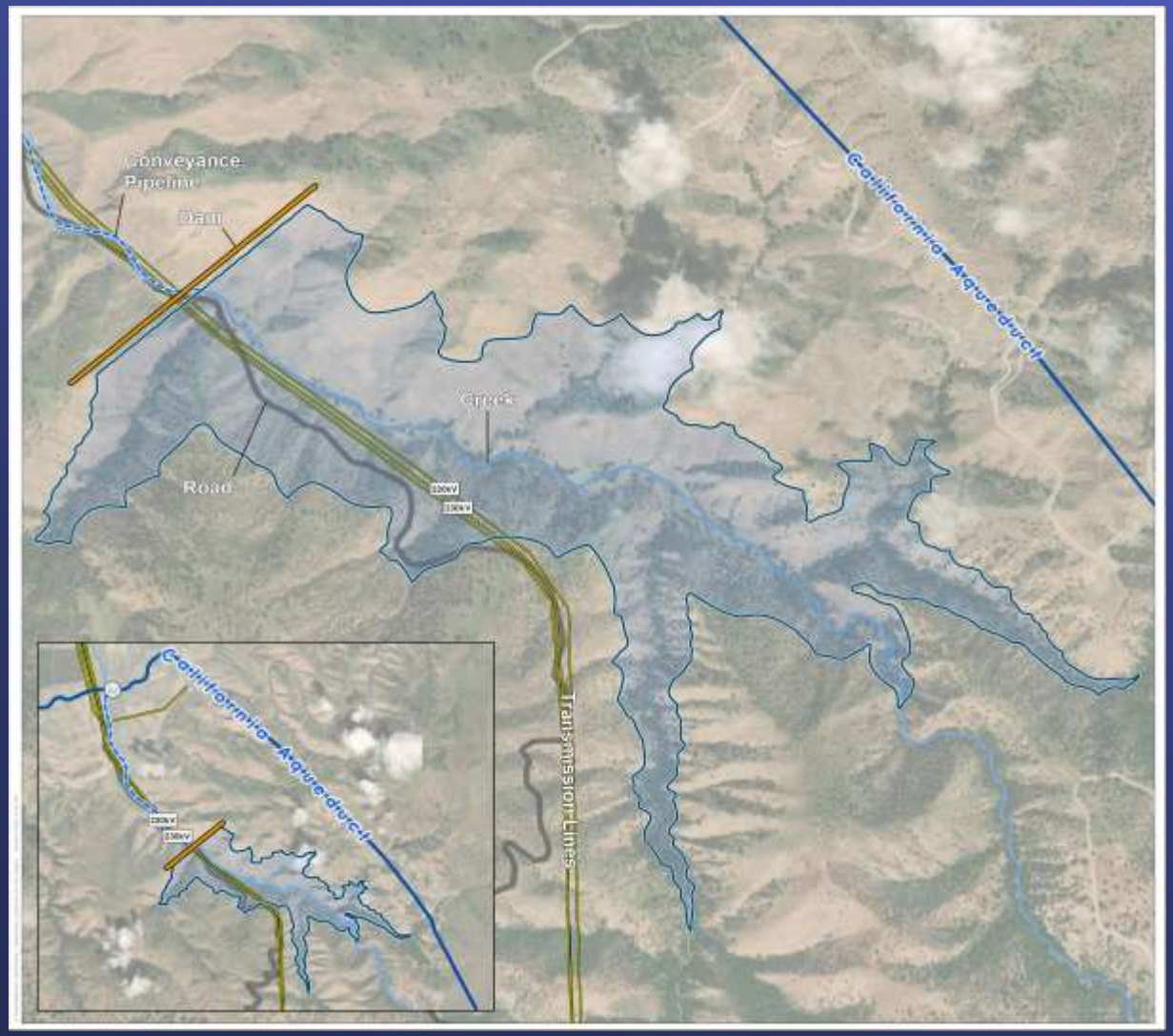
Quantitative Example - Reservoir Storage Capacity

- Larger reservoirs provide greater contributions to Metropolitan's storage objective
- Larger reservoirs provide greater supply reliability
- Scoring Scale:
  - Largest storage capacity scores 5 points
  - Smallest storage capacity scores 1 point



Qualitative Example–Pastoria Creek Reservoir Area Relocations

- Identifying existing utilities/facilities within the reservoir footprint, including:
  - Electrical transmission lines
  - Buried pipelines
  - Railroads
  - Structures
  - Wells
  - Roads
- Evaluating level of complexity and/or general risk involved in the relocations



Most complex/ high-risk relocations required
1

Many relocations required
2

Several relocations needed
3

Some relocations needed
4

No major relocations required
5

Next Steps

- **Complete Phase 2 evaluation**
  - Rank potential sites based on weighted scores
  - Categorize sites into geographical regions
  - Identify high-potential sites for Phase 3 study
- **Initiate Phase 3 study in Q1 2025**
  - Conduct site-specific assessment to recommend preferred sites
    - Additional site-specific criteria
    - Evaluation of co-benefits
    - System integration
  - Develop preferred sites to prepare for potential CEQA analysis
- **Present findings to One Water and Stewardship Committee**
- **Inform CAMP4W process with study findings**


THE METROPOLITAN WATER DISTRICT OF
SOUTHERN CALIFORNIA
1928

Subcommittee on Pure Water Southern California and Regional Conveyance

State Water Project Dependent Areas Drought Mitigation Update

Item 3e

January 22, 2025

Item 3e
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

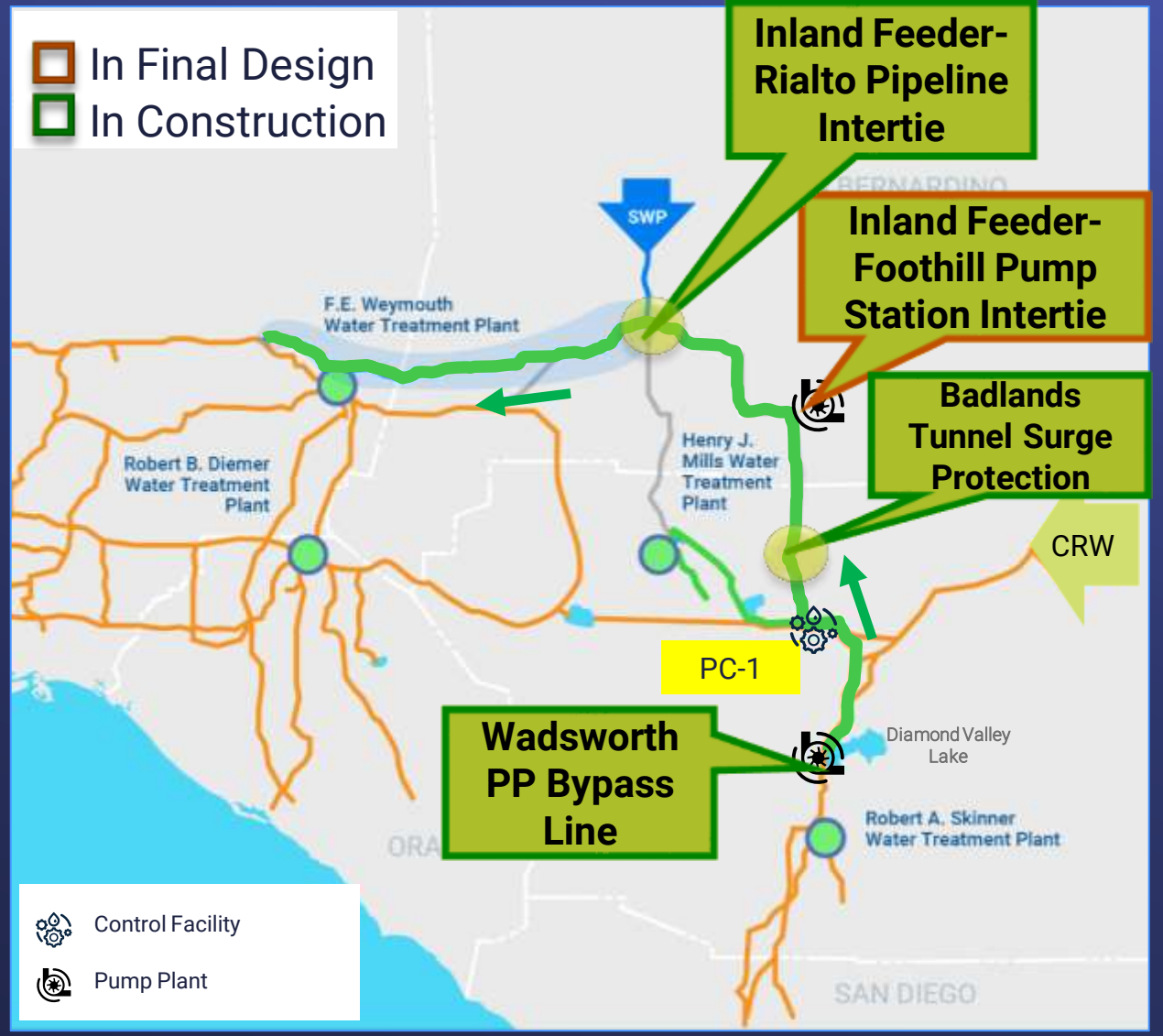
Continue implementation of Category 1 projects

Support Category 2 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 $22.3 M to date



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
  - 95% complete
  - All pipeline tie-in work completed in Apr. 2024
  - Delay in completion for long-lead equipment
  - Added large valve installation by change order in Aug. 2024 board action
- Upcoming Milestone
  - Spring 2025 shutdown for valve installation

Electrical Duct Bank

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
  - 50% complete
  - Completed surge tank foundation
  - Completed vault walls conc. placement
  - Installed piping and 84-inch dia. valve
- Upcoming Milestone
  - Feb. 2025 shutdown for tie-in

Surge Tank Foundation

Badlands Tunnel Surge Protection

Valve Vault Pipe Installation

Surge Tank Foundation Pipe Installation

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
  - 70% complete
  - Completed vault wall conc. placement
  - Installed piping and 84-inch dia. valve
  - Pipe encasement work underway
- Upcoming Milestone
  - Feb. 2025 shutdown for tie-in

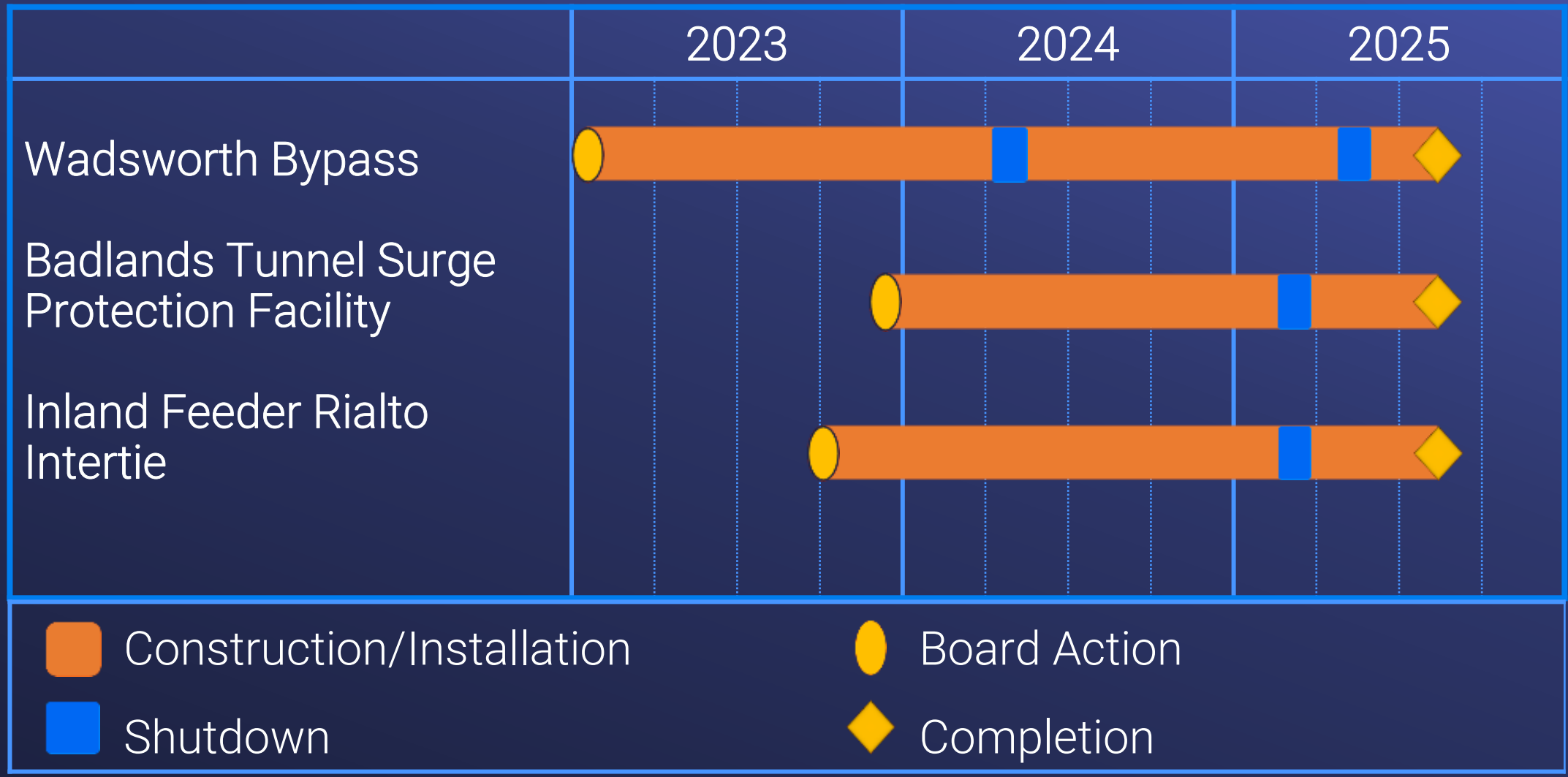
96-Inch Diameter Pipe Installation

Inland Feeder-Rialto Pipeline Intertie

Pipe Reducer Installation

84-Inch Diameter Valve Fit Up

Construction Schedule

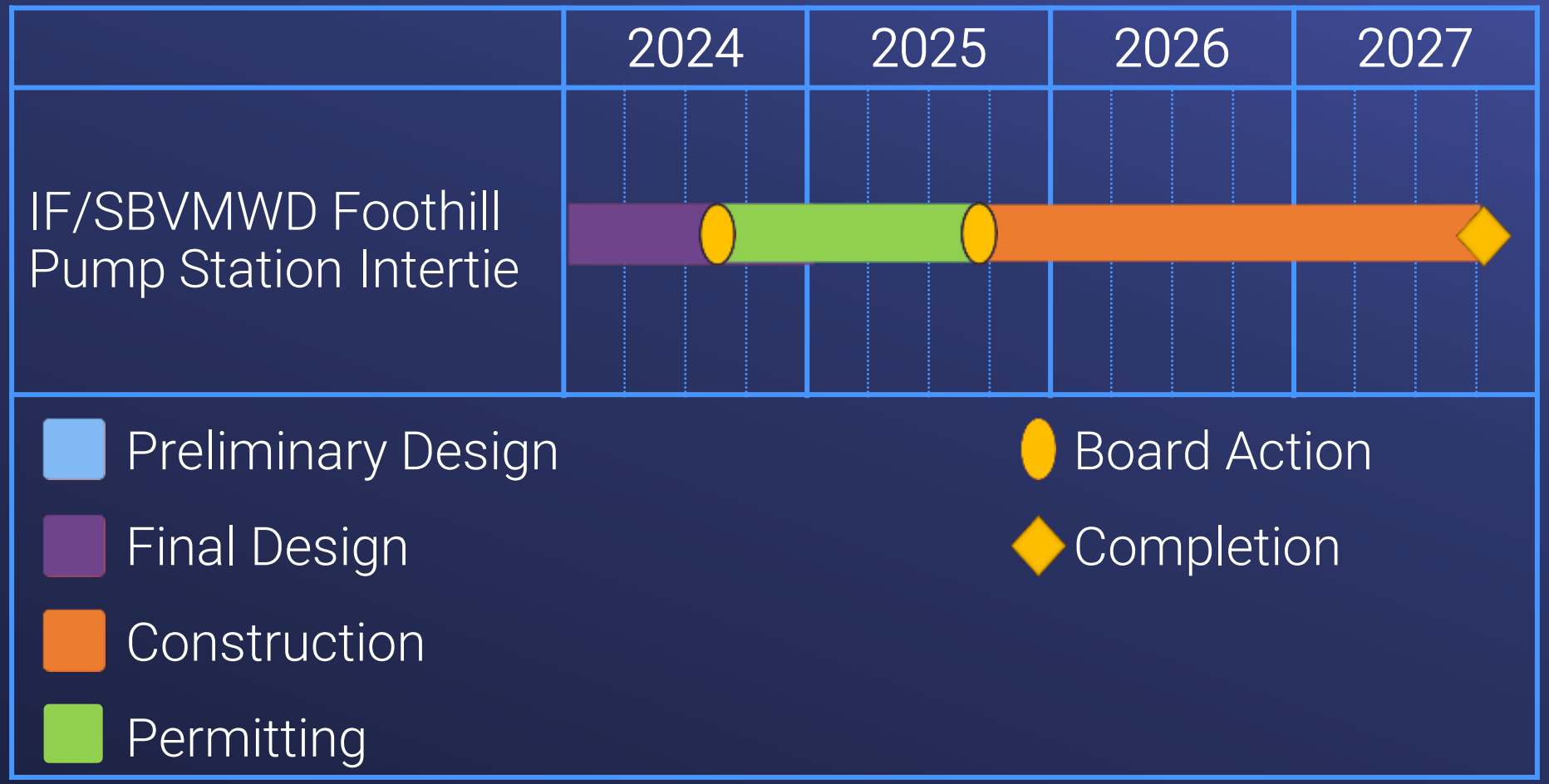


Inland Feeder-Foothill Pump Station Intertie

- 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
  - Pending Fish & Wildlife permit & BLM right-of-way acquisition
  - Awarded $5M USBR WaterSMART grant
  - Section 7 consultation with USF&WS underway

Existing Foothill Pump Station

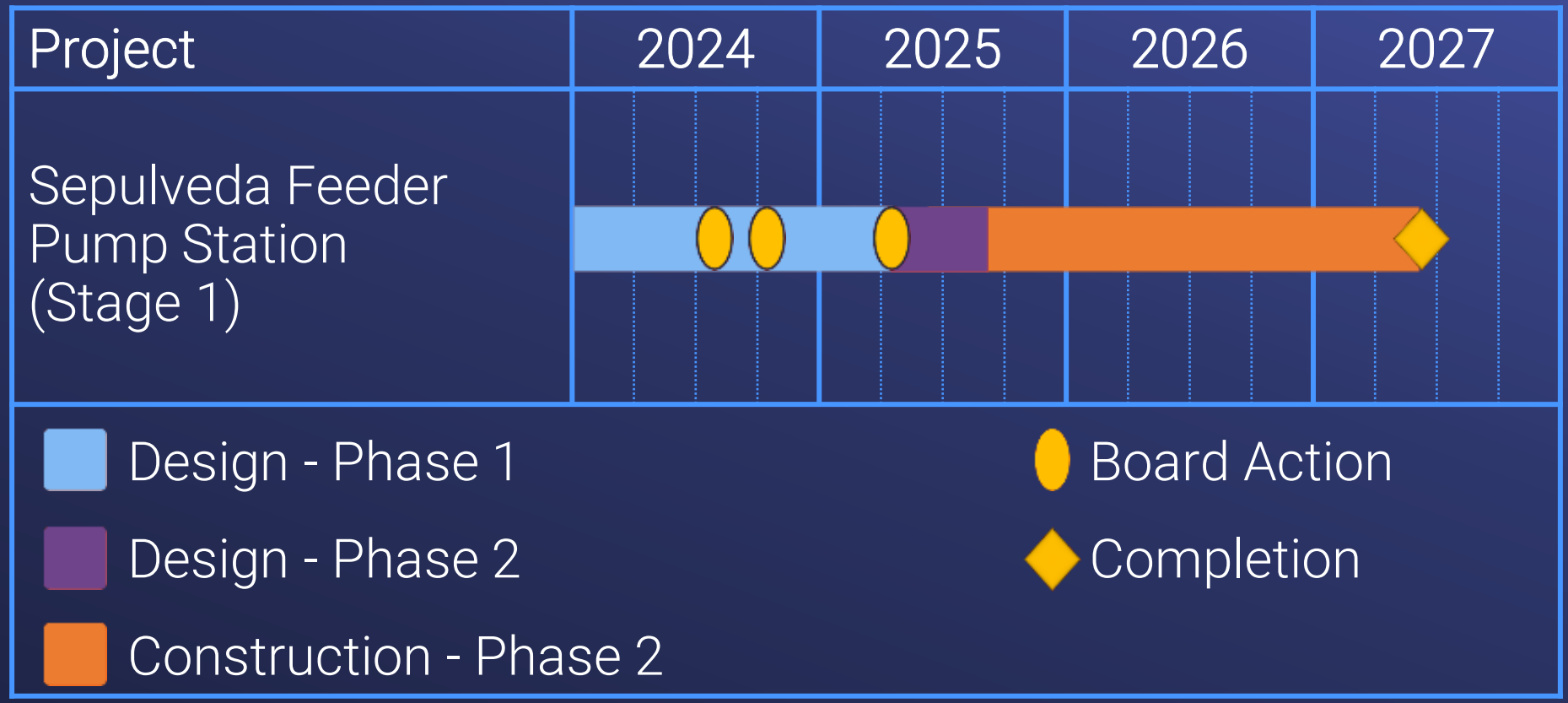
Inland Feeder-Foothill Pump Station Intertie



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 delivery
- Status
  - Design approx. 70% complete
  - Major equipment procured
  - Negotiating GMP for Spring 2025 action

Sepulveda Feeder Pumping – Stage 1



Next Steps

- Continue implementation of projects
  - Award Phase 2 PDB contract including construction of Sepulveda Feeder Pump Stations
  - Award construction contract for SBVMWD Foothill Pump Station intertie
  - Quarterly reporting to the subcommittee
- Inform the CAMP4W process
  - Continue work on precursors for Sepulveda Feeder Pumping Stage 2
    - Improved electrical service for Venice & Sepulveda Cyn. sites
    - Sepulveda Feeder PCCP rehabilitation
    - Detailed surge analysis
    - Inglewood Lateral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