Subcommittee on Pure Water Southern California and Regional Conveyance

Pure Water Southern California Quarterly Update

Item 3b

March 26, 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

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PURE WATER SOUTHERN CALIFORNIA

Agenda

- Independent review of regional reuse programs
- Program outreach events
- Program schedule
- Stakeholder agreements
- Program costs and grants
- Alternative approaches to Program phasing

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Address Director Questions

- Respond to questions raised at previous meetings
  - Environmental assessment of treated water augmentation
  - Status of Program agreements
  - Program re-phasing alternatives
  - Summary of program's projected demands
  - Additional discussion of cost methodology

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Purpose: How to maximize wastewater recycling projects in the Los Angeles region while minimizing cost and negative environmental and community impacts.

Independent Review of Regional Reuse Programs

- Technical Advisory Committee (TAC) workshop
- Agencies: MWD, LACSD, City of LA, WBMWD, Las Virgenes MWD
- TAC: Universities, agencies/GMs, NGOs
- Introduction: February 9, 2024
- Summary: February 22, 2024
- Technical information provided for review
- Summary report to be provided

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Key Themes for Regional Reuse Review

- Overall system design to maximize benefits while minimizing impacts
- Cost affordability of the programs
- Potential to reduce negative ecological impacts
- Opportunities to ensure safe drinking water
- Ensuring community engagement
- Governance and agency coordination

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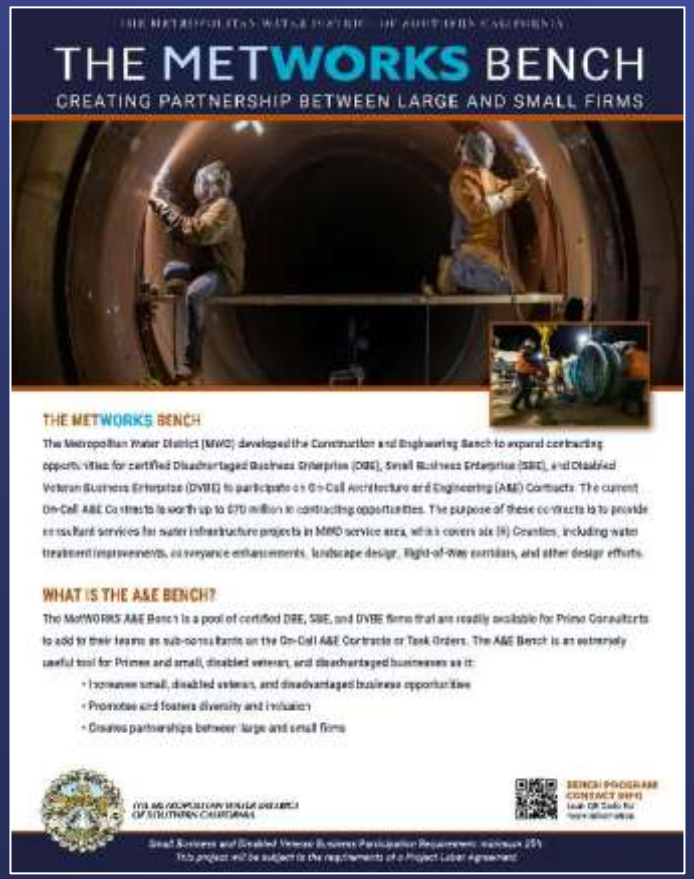
Program Outreach Events & Tours

- Continued Napolitano Innovation Center tours
- Research on attitudes and awareness of the PWSC and DPR
- Community Benefits research & development

Public Tour on Feb. 24

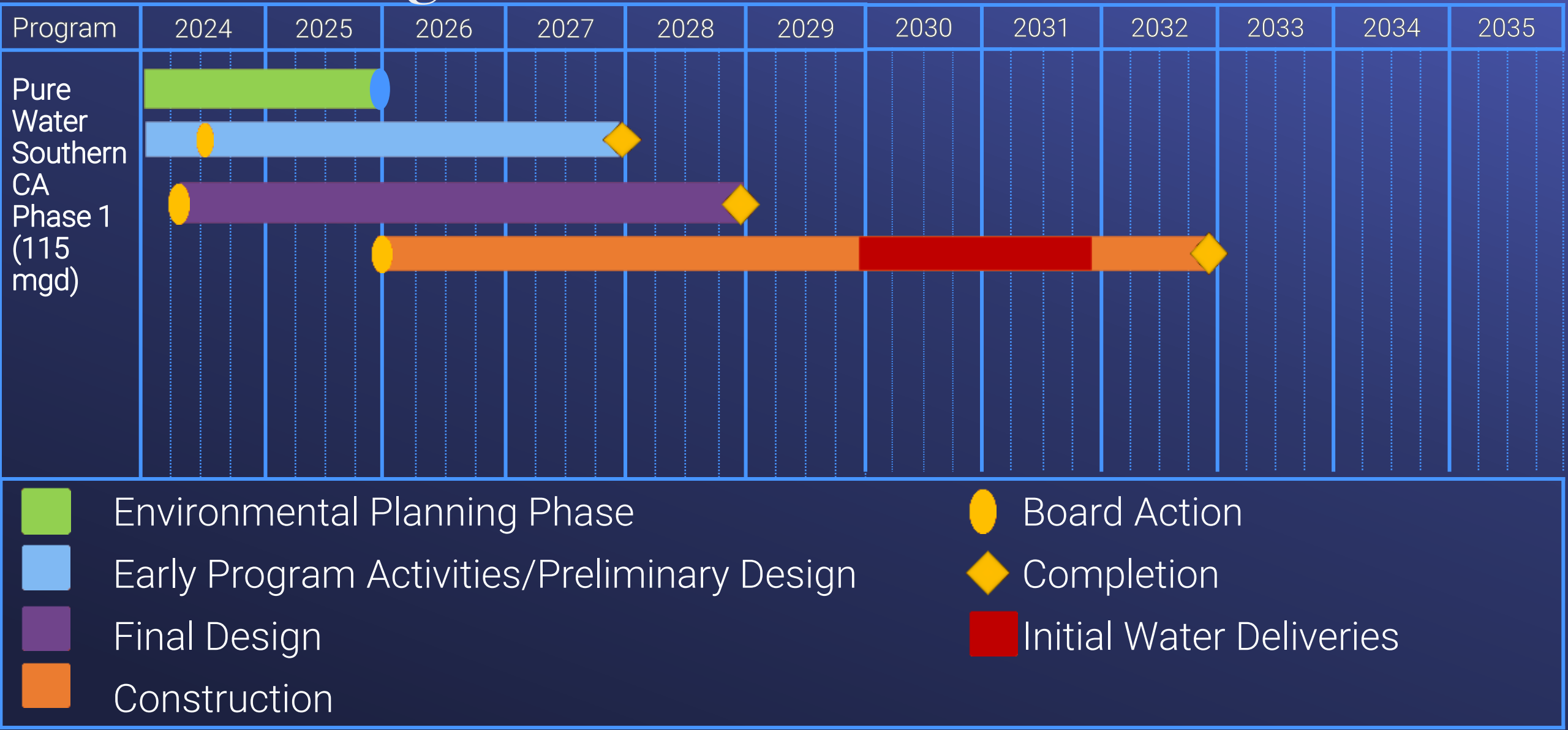
MetWorks Event on March 7

Industry Outreach & Networking Event



- Held March 7, 2024 @ Carson Events Center
- MetWorks Outreach/Networking: >600 participants
- Construction Career Fair: approximately 100 participants

Current Program Schedule



Environmental Planning Schedule

- Most facilities at detailed EIR level
- DPR/recharge facilities at Program level
- Sections 1-4 currently being reviewed

Notice of Preparation	Scoping Phase	PEIR/EIR
Distributed September 30, 2022 **COMPLETED**	Occurred between September 30, 2022, to November 14, 2022 **COMPLETED**	Draft Environmental Impact Report **4th Quarter 2024** Final Environmental Impact Report **4th Quarter 2025**

→ **Technical Studies Continuing** →

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PWSC Agreements

- Agreements are needed to provide a foundation for implementing the PWSC
- Letters of Intent completed in 2022
- LACSD: Warren Facility/MBR participation
- Member Agency Agreements
  - Term sheets this summer
  - MOUs by end of 2024 or early 2025
  - Potential term to include:
    - demands, delivery schedules, cost & payment

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Program Agreements

LOS ANGELES COUNTY SANITATION DISTRICTS
Converting Waste Into Resources

Metropolitan Member Agencies

Upper San Gabriel Valley Municipal Water District
Central Basin Municipal Water District
West Basin Municipal Water District
City of Long Beach Incorporated 1897
A Balanced City · Industrial · Residential · Commercial · Torrance
Three Valleys MWD
LA DWP

Groundwater Basin Managers

WRD Water Replenishment District
Main San Gabriel Basin Watermaster

Colorado River Partners

Southern Nevada Water Authority
Arizona Department of Water Resources
CAP Central Arizona Project

Other Key Partners

San Gabriel Valley Municipal Water District
US Army Corps of Engineers
Southern California Edison Energy for What's Ahead
Public Works Los Angeles County

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Grant Updates

- WaterSMART: awarded $5M, SOW being finalized
- LSWR: requested $125M
  - April 2023 notification of acceptance & amount
  - All federal grants have a 3x match requirement
  - Scope of work would be modified to match award amount
- Agency contributions and other grants could reduce Metropolitan's share of matching funds
- Staff will return to the Board to authorize acceptance of the award & request a matching funds commitment

2023 PWSC Cost Estimate Phase I

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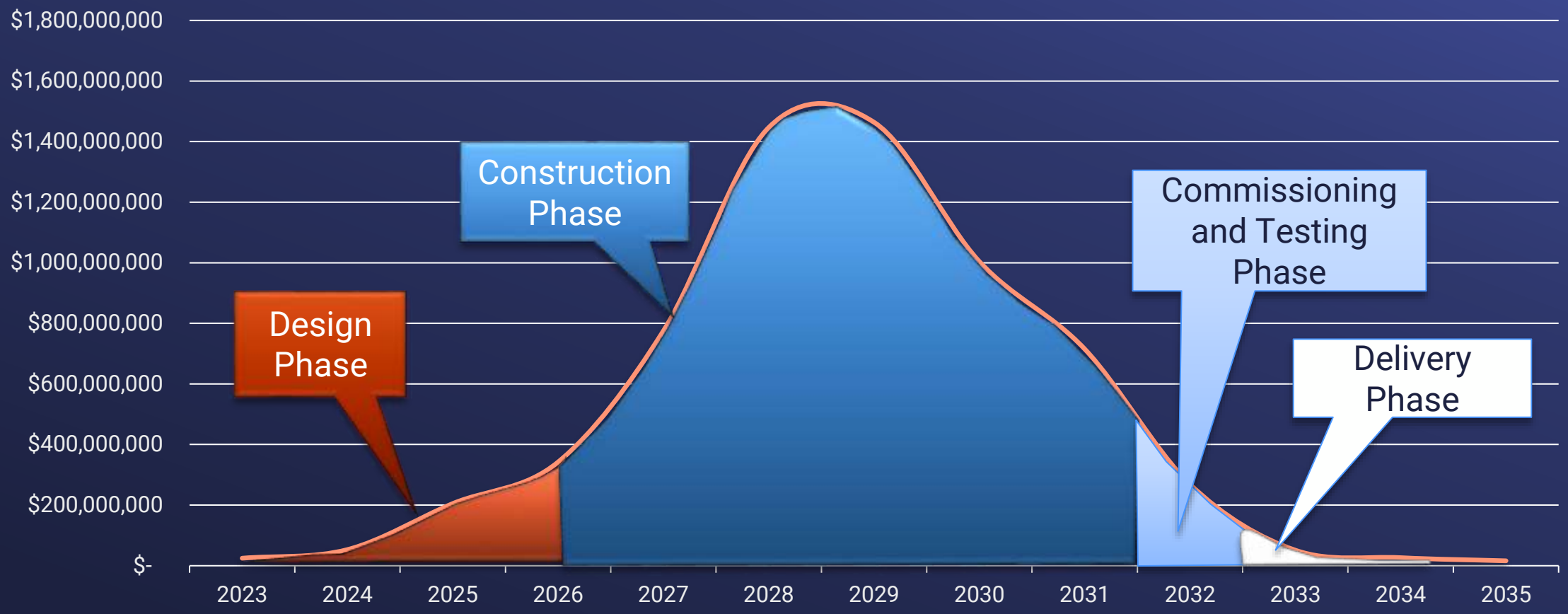
Review and discussion of 2023 cost estimate, originally presented to Subcommittee in January 2024

Description	Cost ($M)[1]
Treatment Facilities	$2,120
Conveyance Facilities	$2,120
Recharge Facilities	$180
DPR Facilities to Weymouth	$140
Subtotal	**$4,560**
Design/CM	$1,370
Property/Permitting	$390
Mitigation Measures/Community Benefits	$70
Total	**$6,390**

[1] Costs are in 2023 dollars and include a 35% contingency and no escalation

PWSC Phase I Cash Flow

- Cashflow: Phase 1 only
- Phase 1 2023 cost estimate: $6.4B
- Escalation: 4% per year to mid 2029
- Phase 1 escalated cost to midpoint of construction: $8.2B



Alternative Approaches to Program Phasing

Basis for Re-phasing the PWSC

- Purpose: Provide an example of an alternative to current Phase 1 scope and costs
- Approach:
  - Develop multiple sub-phases within current Phase 1
  - Identify logical groupings of phased water deliveries
  - Build out treatment and pipelines facilities to clustered groupings of potential delivery locations
  - Construction of sub-phases are sequential to one another
- Conclusions:
  - Reduces initial expenditures on program while ensuring water deliveries
  - Increases overall cost and duration of Phase 1
  - Additional alternatives can be developed

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Current Approach to Program Phasing

Phase 1: 115 MGD
Phase 2: 35 MGD
Total Program: 150 MGD

Example of Potential Approach to Program Re-phasing

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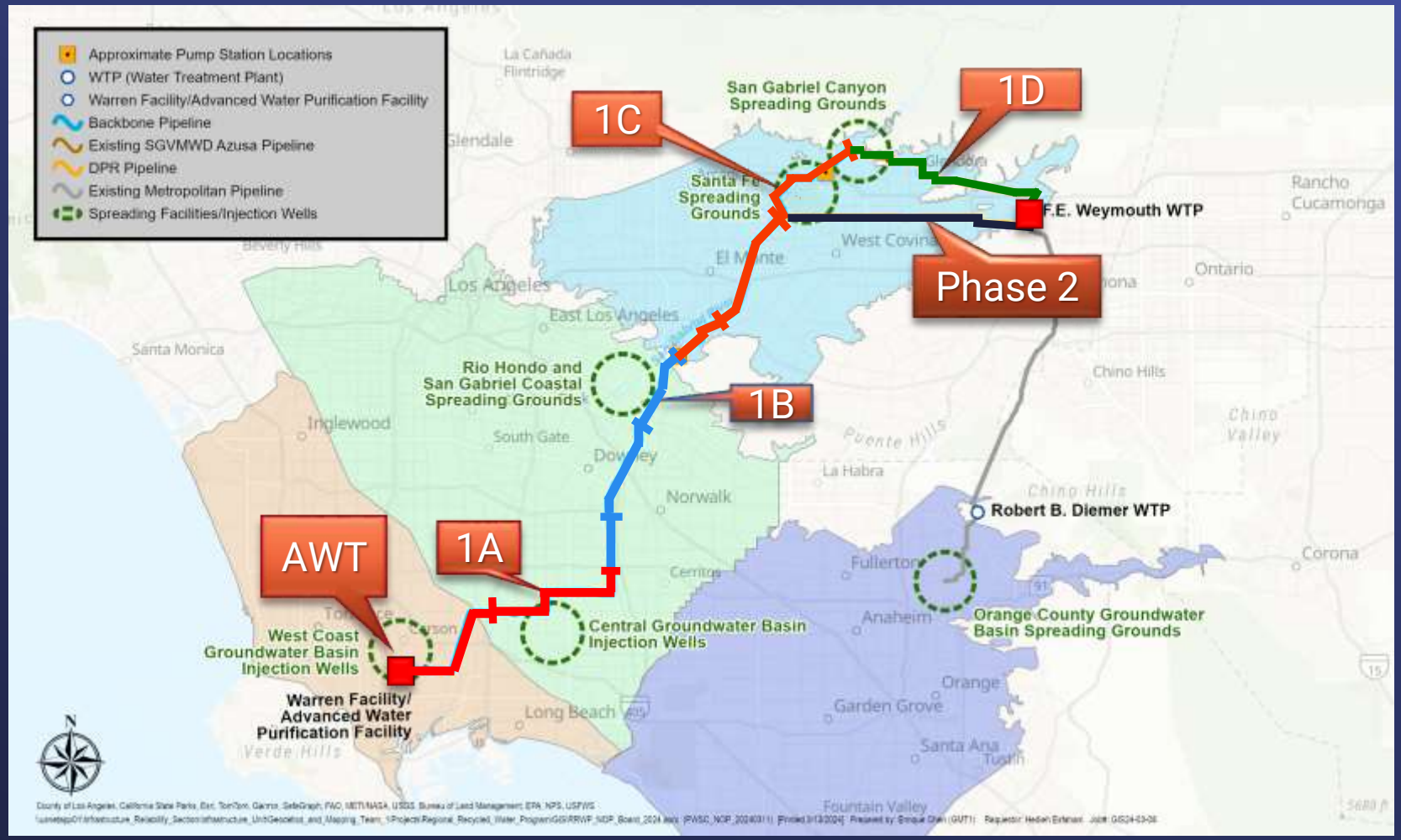
Phase 1A: 30 MGD
Phase 1B: 10 MGD
Phase 1C: 50 MGD
Phase 1D: 25 MGD
Phase 2: 35 MGD
Total Program: 150 MGD



Example of Potential Approach to Program Re-phasing

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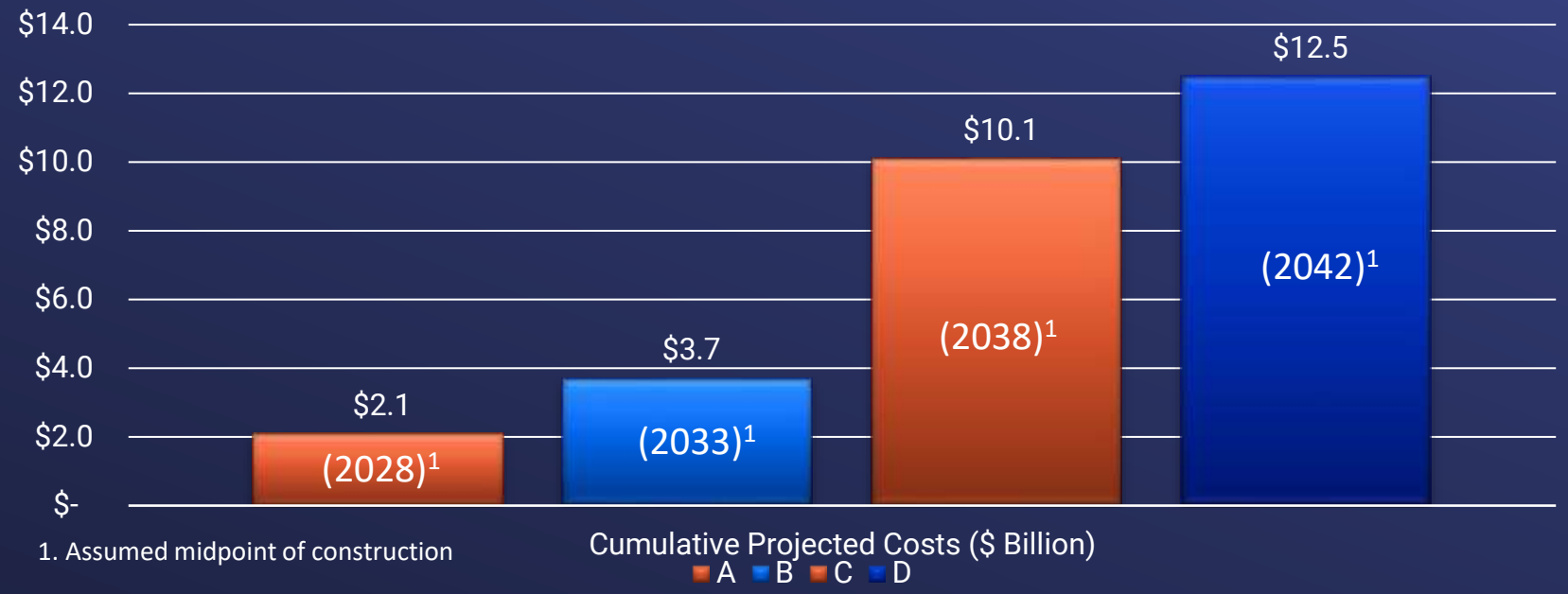
Item	Current Phase 1	Re-phased
Capacity (mgd)	115	up to 115
Length (mi)	53	up to 53
Cost ($B)	$8.2	$12.5
Completion	2032	2043

Phasing Assumptions (Phase 1 only – Escalated dollars)				
Phase	Miles	AWT Capacity	Cost	Completion
1A	14	30	$2.1B	2030
1B	13	10	$1.6B	2036
1C	15	50	$6.4B	2040
1D	11	25	$2.4B	2043



1. Assumed midpoint of construction

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Next Steps

- Complete draft EIR and publish for public comment
- Complete conceptual design of AWT
- Complete development of AWT Request for Qualifications (RFQ)
- Complete White Paper on DPR
- Continue preliminary design of pipeline reaches 1 & 2
- Continue negotiation of stakeholder agreements
- Continue cost recovery discussions with Board
- Develop strategy for acceptance of grant funds, if awarded

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