



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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## 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



UCLA WATER RESOURCES GROUP



UNIVERSITY OF CALIFORNIA  
Agriculture and Natural Resources

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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

## Item 3b PWSC Quarterly Update

# 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

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA  
presents

## METWORKS

PURE WATER SOUTHERN CALIFORNIA  
NETWORKING EVENT

**THURSDAY  
MARCH 7, 2024**  
8:00 a.m. - 12:00 p.m.

**CARSON EVENT CENTER**  
801 E. Carson Street  
Carson, CA 90745



**Learn about:**

- The status, scope, and schedule for a Progressive Design-Build contract opportunity for the Pure Water Southern California Program's Advanced Water Purification Facility (AWPF) RFP.
- How to be successful and a successful contractor for this project.
- How to be successful and a successful contractor for this project.

**Tentative Schedule:**

- 8:00 AM - 8:30 AM Registration
- 8:30 AM - 9:00 AM Breakfast
- 9:00 AM - 10:00 AM Presentation
- 10:00 AM - 11:00 AM Networking
- 11:00 AM - 12:00 PM Lunch

Small Business and Disabled Veteran Business Participation Requirement: minimum 25%. This project will be subject to the requirements of a Project Labor Agreement.





Scan QR Code for more information on METWORKS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

## THE NETWORKS BENCH

CREATING PARTNERSHIP BETWEEN LARGE AND SMALL FIRMS




**THE NETWORKS BENCH**

The Metropolitan Water District (MWD) developed the Construction and Engineering Bench to expand contracting opportunities for certified Disadvantaged Business Enterprise (DBE), Small Business Enterprise (SBE), and Disabled Veteran Business Enterprise (DVBE) to participate on On-Call Architecture and Engineering (A/E) Contracts. The current On-Call A/E Contracts is worth up to \$70 million in contracting opportunities. The purpose of these contracts is to provide essential services for water infrastructure projects in MWD service area, which covers six (6) Counties, including water treatment improvements, sewerage enhancements, landscape design, right-of-way corridors, and other design efforts.

**WHAT IS THE A/E BENCH?**

The MetWORKS A/E Bench is a pool of certified DBE, SBE, and DVBE firms that are readily available for Prime Consultants to add to their teams as sub-contractors on the On-Call A/E Contracts or Task Orders. The A/E Bench is an extremely useful tool for Prime and small, disabled veteran, and disadvantaged businesses as it:


- Increases small, disabled veteran, and disadvantaged business opportunities
- Promotes and fosters diversity and inclusion
- Creates partnerships between large and small firms



Small Business and Disabled Veteran Business Participation Requirement: minimum 25%. This project will be subject to the requirements of a Project Labor Agreement.

Presented by:  
The Metropolitan Water District of Southern California  
in Partnership with  
The City of Carson

## Construction Career & Apprenticeship Resource Fair



**Thursday, March 7, 2024  
2PM to 5PM**


**CARSON EVENT CENTER**  
801 E. Carson Street, Carson, CA 90745

**Learn about:**

- Well-paying careers and employment opportunities in the building and construction trades.
- Speak with apprenticeship readiness programs, trade union apprentice programs and employers.
- Network with industry professionals.

Military Veterans interested in a construction career are encouraged to attend.

Interested in attending this FREE career event? Scan the following QR code to register.

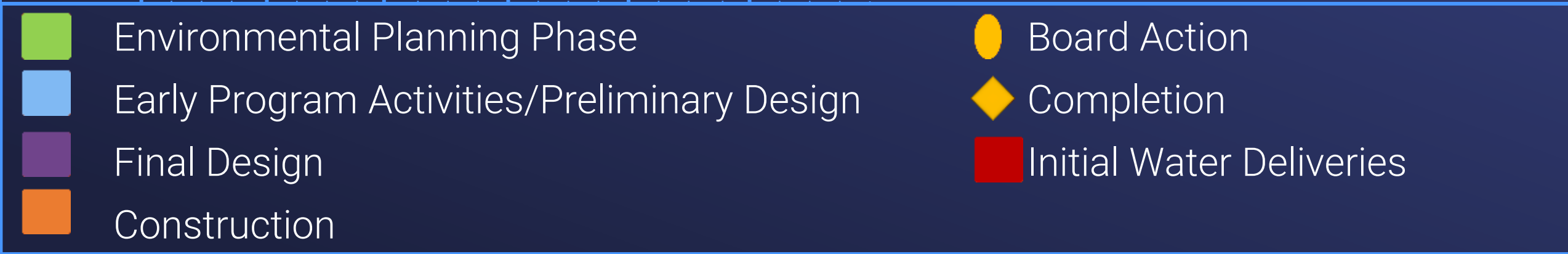
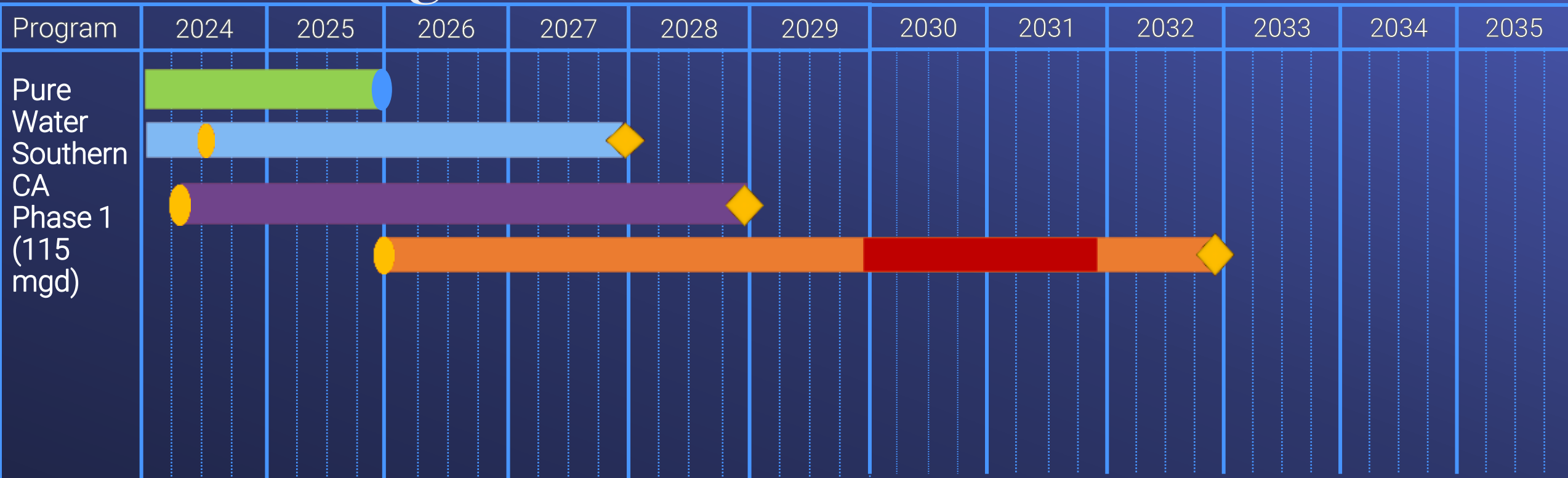


Registration is encouraged but not required to attend.

- 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



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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



THE METROPOLITAN WATER DISTRICT  
OF SOUTHERN CALIFORNIA

# Program Agreements



LOS ANGELES COUNTY  
SANITATION DISTRICTS  
*Converting Waste Into Resources*

## Metropolitan Member Agencies



## Groundwater Basin Managers



## Colorado River Partners



## Other Key Partners



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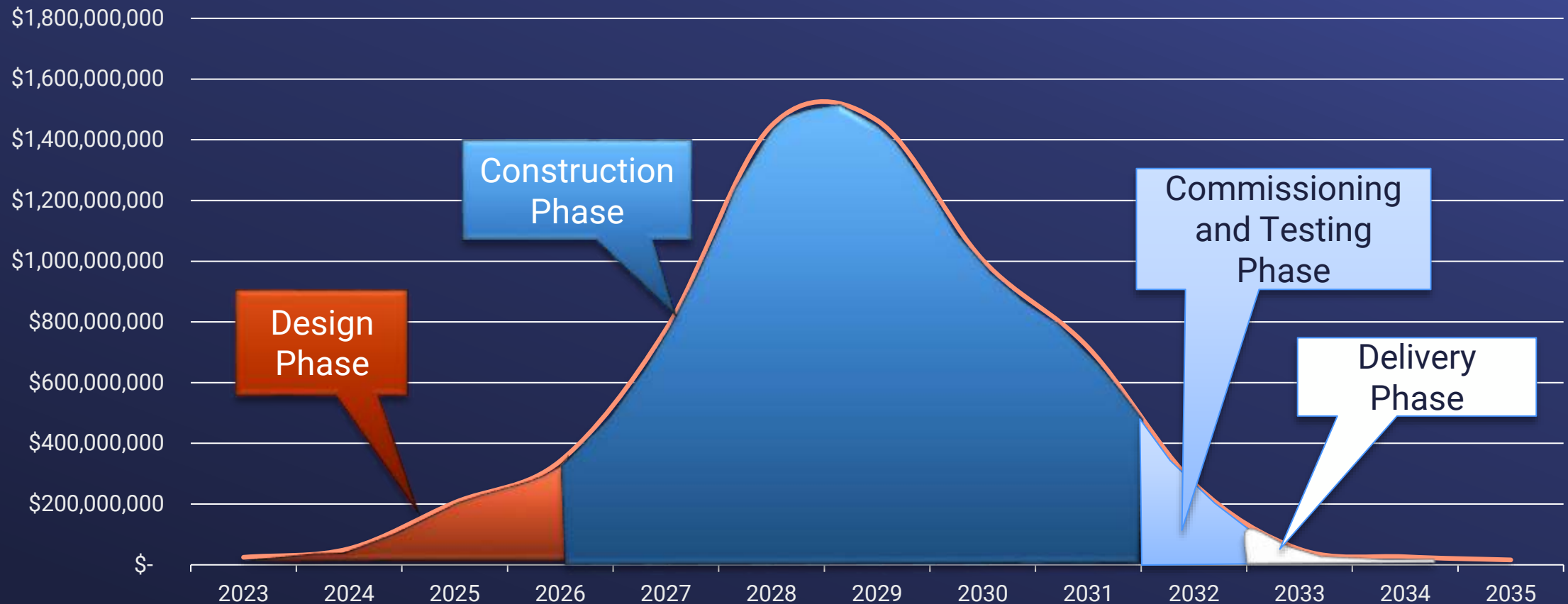
Review and discussion of 2023 cost estimate, originally presented to Subcommittee in January 2024

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

<sup>1</sup> 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



# Current Approach to Program Phasing

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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

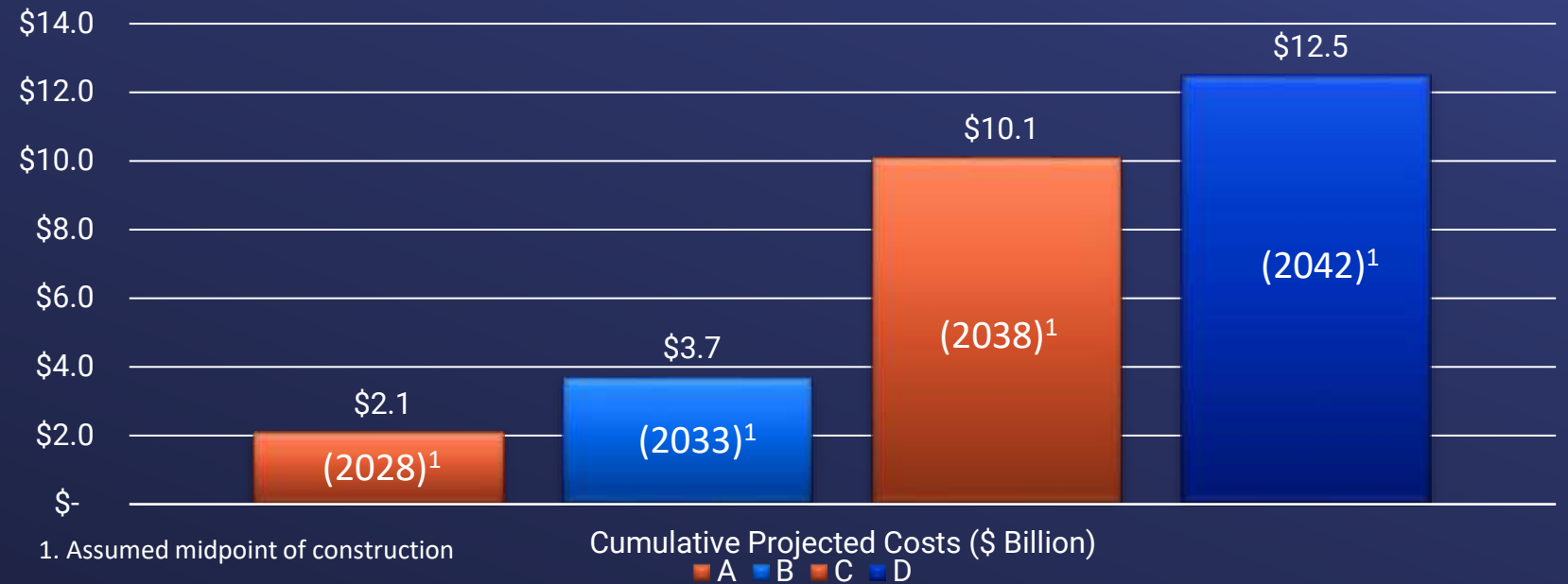


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## Example of Potential Approach to Program Re-phasing

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



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

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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

