



Engineering, Operations, & Technology Committee

Pure Water Southern California Preliminary Design of Conveyance Reaches 1 & 2

Item 7-3

March 13, 2023

Pure Water Southern California Conveyance Reaches 1 & 2

Current Action

- Authorize agreement with Black & Veatch Corporation, Inc. in an amount not to exceed \$8 million for preliminary design of conveyance Reach 1
- Authorize agreement with HDR Engineering, Inc. in an amount not to exceed \$9 million for preliminary design of conveyance Reach 2
- Adopt a resolution to support a grant application to the U.S. Bureau of Reclamation for water recycling & desalination planning & authorize the General Manager to accept the grant if awarded

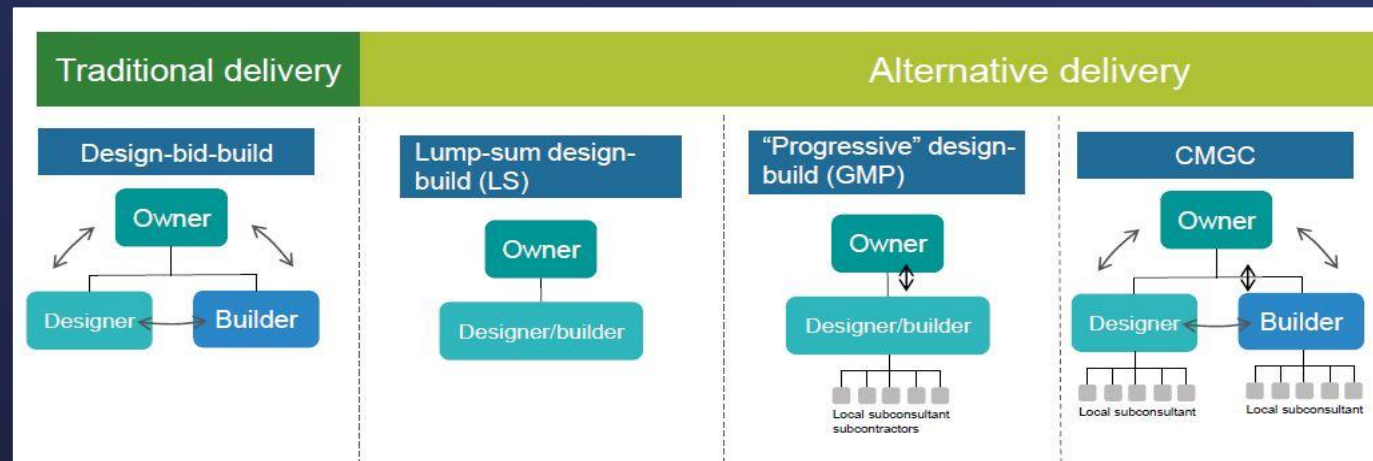
Pure Water Southern California Conveyance Reaches 1 & 2

Background

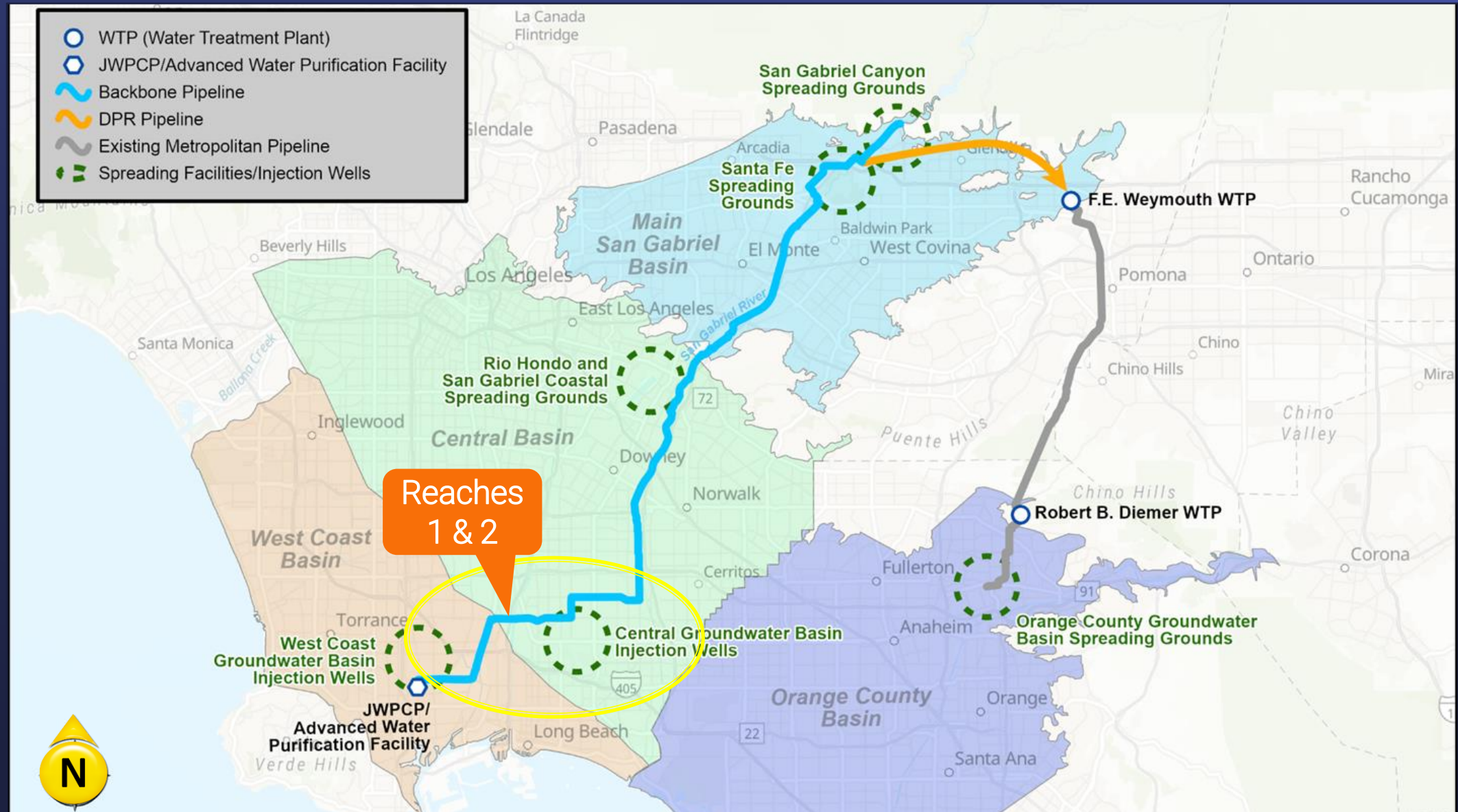
- November 2020 – Board authorized preparation of environmental documentation & technical studies
- December 2022 – Board authorized use of \$80 million in State funding for key activities
 - Initiation of program management team
 - Designs of initial pipeline reaches
 - Source of matching funds for USBR grant
- January 2023 – Board authorized agreement with joint venture of AECOM & Brown & Caldwell for program management services

Approaches to Project Delivery for Pure Water

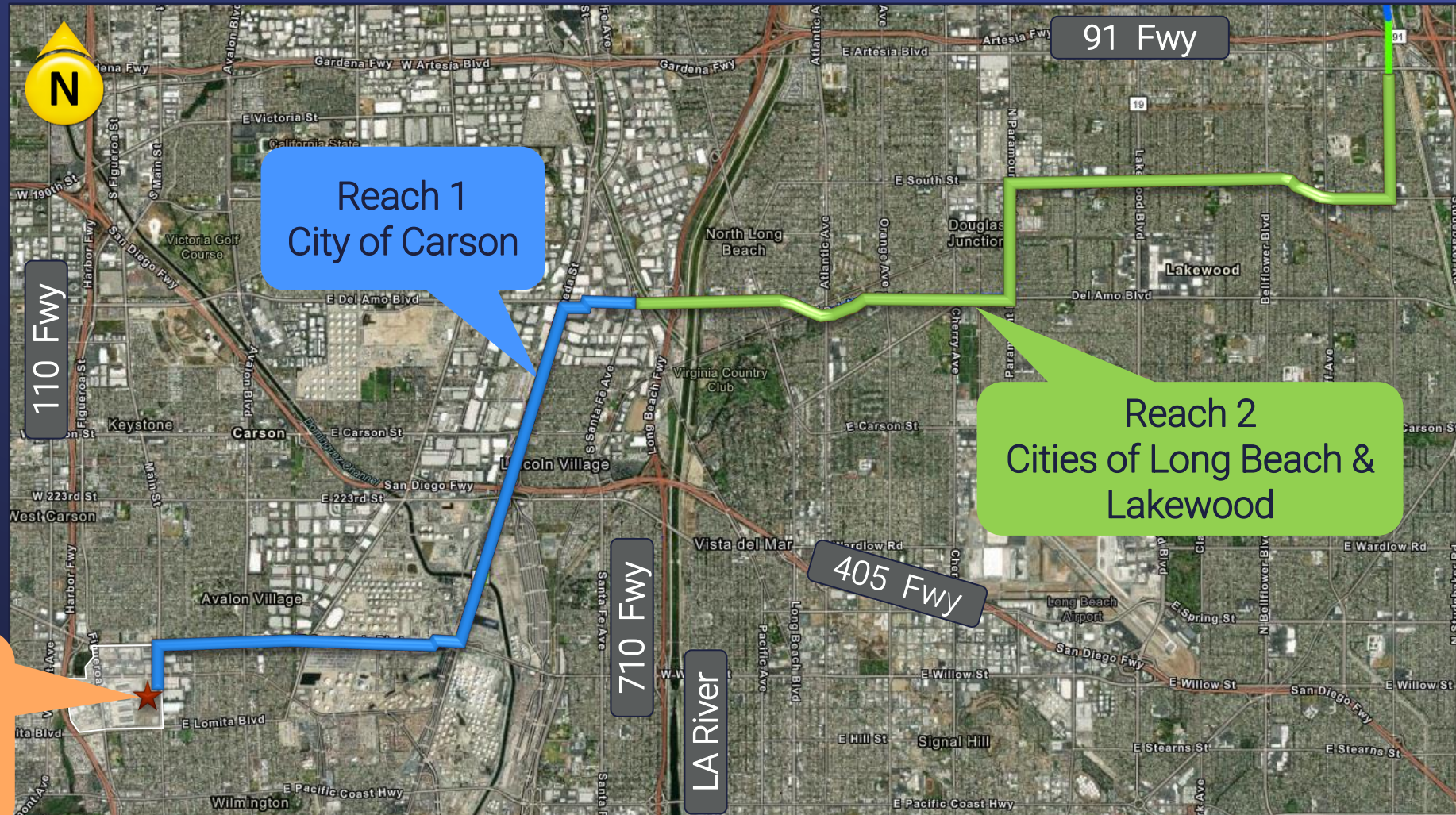
- Traditional project delivery approach
 - Design-Bid-Build
- Additional project delivery methods – available January 1, 2023
 - Design Build (DB)
 - Progressive Design Build (PDB)
 - Construction Manager / General Contractor (CM/GC)



Program Overview



Background



Pure Water
Southern
California
Conveyance
Reaches 1 & 2

Planned Work Under Agreements

- Preliminary Design Activities
 - Performing field geotechnical exploration, utility investigations & potholing
 - Developing the final pipeline alignment
 - Establishing design criteria
 - Developing preliminary traffic control plans & construction permit requirements
 - Performing hydraulic & surge analyses

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Reaches 1 & 2

Planned Work (continued)

- Preliminary Design Activities
 - Developing control schematics, system descriptions, & SCADA coordination
 - Providing material selection & design of coating & cathodic protection systems
 - Delivering preliminary design report & design drawings

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Reach 1

Black & Veatch Corporation, Inc. - New Agreement

- Selected under Request for Proposal No. 1334
- Scope of work
 - Preliminary design of Reach 1 (6 miles)
- NTE amount: \$8,000,000
- SBE participation level: 25%

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Reach 2

HDR Engineering, Inc. - New Agreement

- Selected under Request for Proposal No. 1334
- Scope of work
 - Preliminary design of Reach 2 (8 miles)
- NTE amount: \$9,000,000
- SBE participation level: 25%

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Reaches 1 & 2

Alternatives Considered - Staffing

- Utilize Metropolitan staff to perform all work
 - Assess current staff workload & availability
 - Use project-specific professional services agreements as required
- Selected Option
 - Utilize professional service agreements for subject design
 - Use two consulting firms to complete the work for timely completion of milestones

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Conveyance
Reaches 1 & 2

Metropolitan Scope

- Technical oversight & review of consultant's work
- Input into the development of detailed design criteria
- Survey & mapping
- Project management
- Permitting
- Right-of-way support
- Regulatory agency coordination

Pure Water Southern California Federal Grant Funding

WaterSMART: Water Recycling & Desalination Planning Grant

- Federal grant application for up to \$5 million from the U.S. Bureau of Reclamation (USBR)
 - \$4 million to Metropolitan, \$1 million to Los Angeles County Sanitation Districts, with \$15 million match required
- Planned use of grant funds include:
 - Completion of feasibility study to support future grants
 - Preliminary design of initial pipeline reaches
 - Preliminary design of Pure Water treatment facilities
- Funding period is October 2023 to October 2025

Allocation of Funds

Preliminary Design of Conveyance Reaches 1 & 2 for Pure Water Southern California

Metropolitan Labor

Studies & Investigations (tech. oversight, surveying, mapping, etc.)	\$ 6,800,000
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Owners Costs (proj. mgmt., permitting, etc.)	2,800,000
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Professional/Technical Services

Black & Veatch Corporation, Inc.	8,000,000
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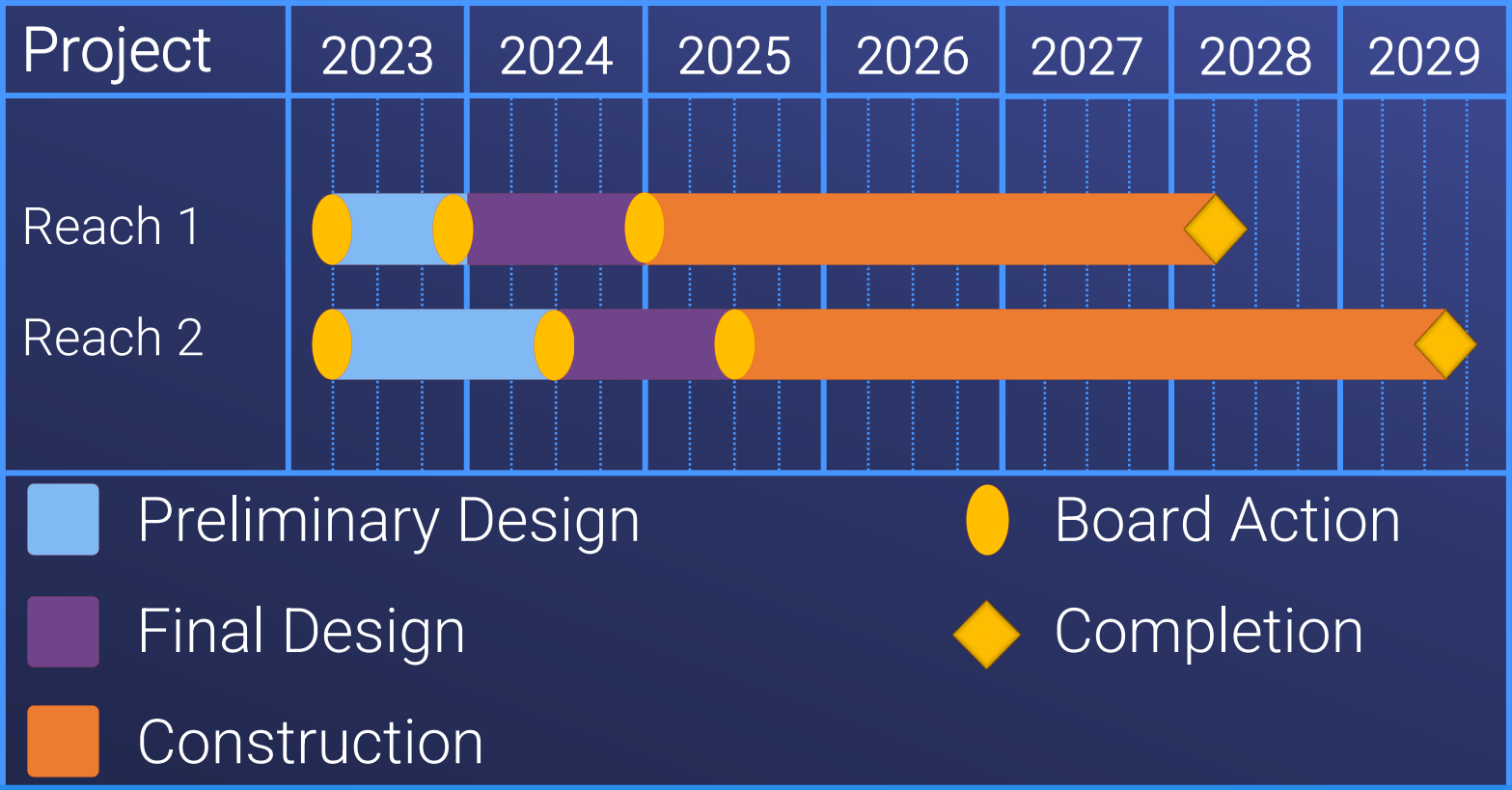
HDR Engineering, Inc.	9,000,000
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Remaining Budget	1,400,000
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Total*	\$ 28,000,000
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*Total funds required for this work will be covered by the \$80 million State funding

Project Schedule



Board Options

- Option #1
 - a. Authorize agreement with Black & Veatch Corporation, Inc. in an amount not to exceed \$8 million for the preliminary design of conveyance Reach 1 of the Pure Water Southern California program.
 - b. Authorize agreement with HDR Engineering, Inc. in an amount not to exceed \$9 million for preliminary design of conveyance Reach 2 of the Pure Water Southern California program.
 - c. Adopt a resolution to support a grant application to the U.S. Bureau of Reclamation for water recycling and desalination planning and authorize the General Manager or a designated representative to accept the grant if awarded.

Board Options

- Option #2
 - a. Choose to proceed or not proceed with one or both of the agreements at this time and/or;
 - b. Choose to support or not support the USBR grant application.

Staff Recommendation

- Option #1

