



Bay-Delta Conveyance

Special Committee on Bay-Delta

Board Item 4b

July 27, 2010



Presentation Overview

- Conveyance Options
- Benefits & Effects Analysis
- Cost Analysis
- Key Decisions & Timelines



Bay-Delta Conservation Plan

Dual-Conveyance – Alignment Options





Bay-Delta Conservation Plan

Dual-Conveyance – Capacity & Sizing



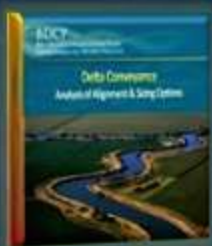
Capacity	2 Tunnels @
3,000 cfs	18 ft.
6,000 cfs	23 ft.
9,000 cfs	26 ft.
12,000 cfs	29 ft.
15,000 cfs	33 ft.



Delta Conveyance

Initial Sizing Analysis

- Conveyance Scenarios
 - Proposed Bay-Delta Steering Committee operations
 - More restrictive south Delta operations
 - Fully isolated, no south Delta diversion
- Components Analyzed
 - Water supply
 - Water quality
 - Environmental

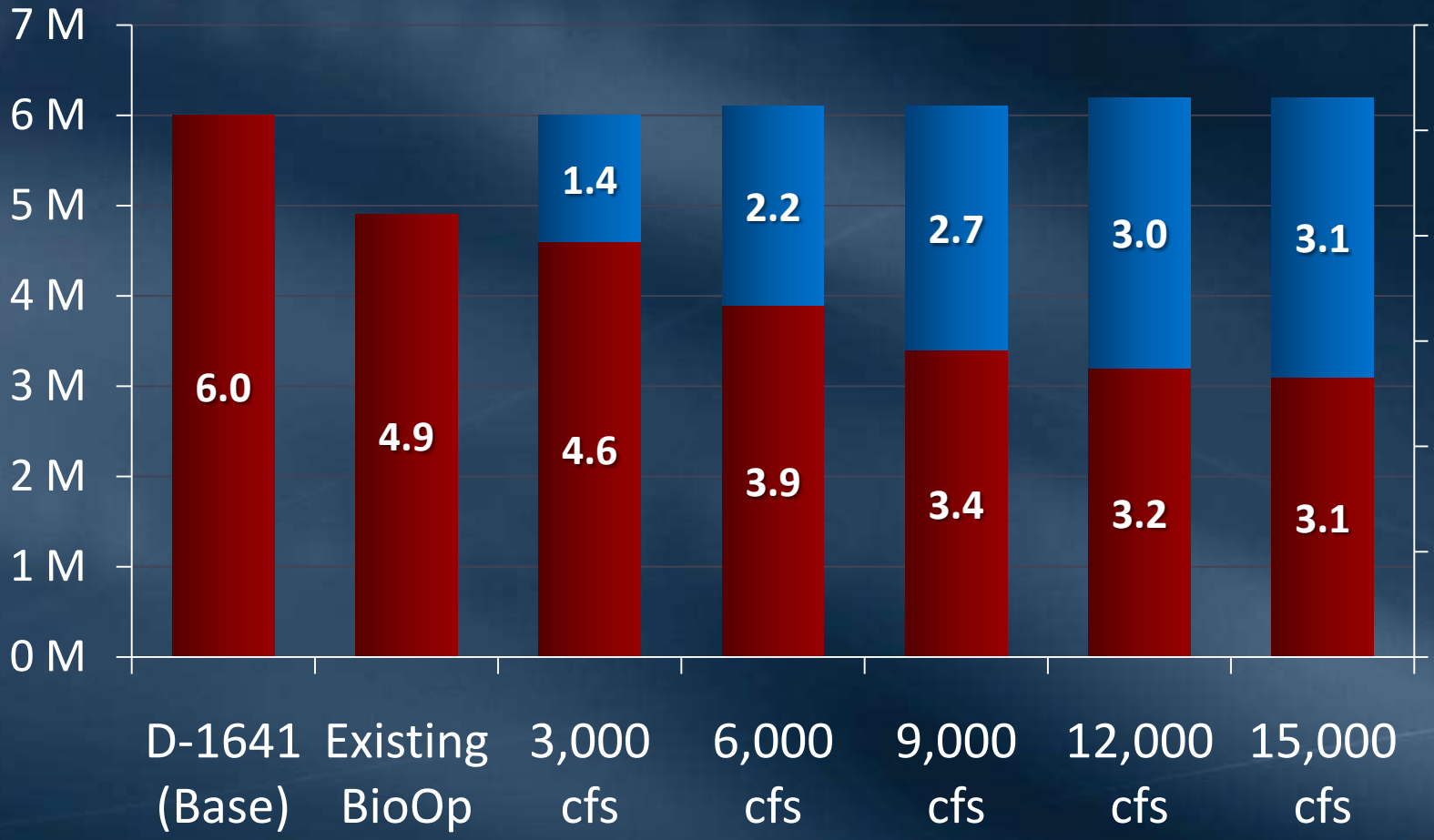


Delta Conveyance

Scenario 1 – BDCP Proposed Ops

Southern Diversions **Northern Diversions**

SWP-CVP Avg. Exports (AF)



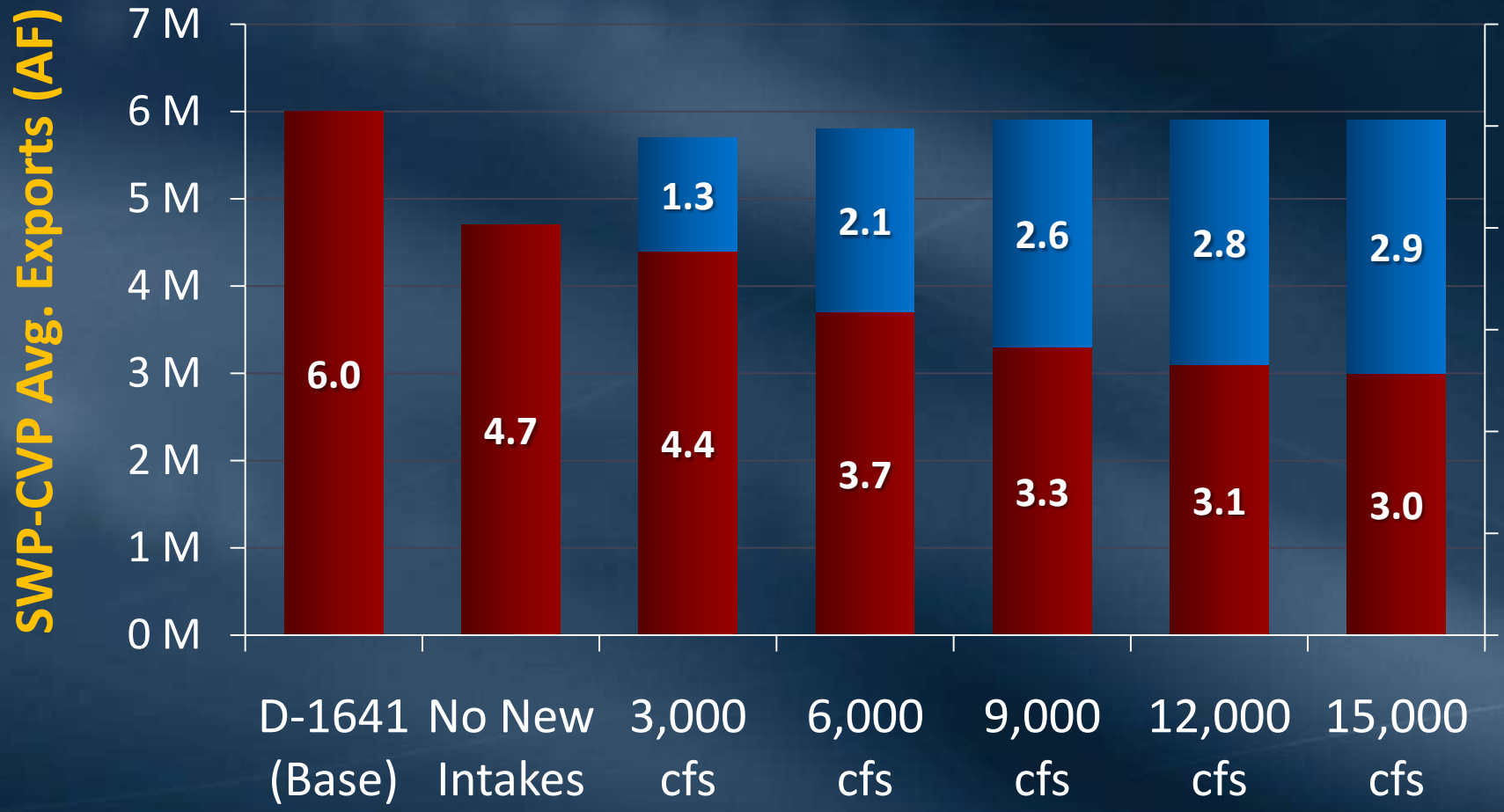
Preliminary Subject to Revision



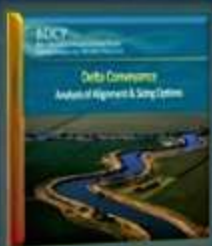
Delta Conveyance

Scenario 2 – BDCP Proposed Ops in 2025

Southern Diversions **Northern Diversions**



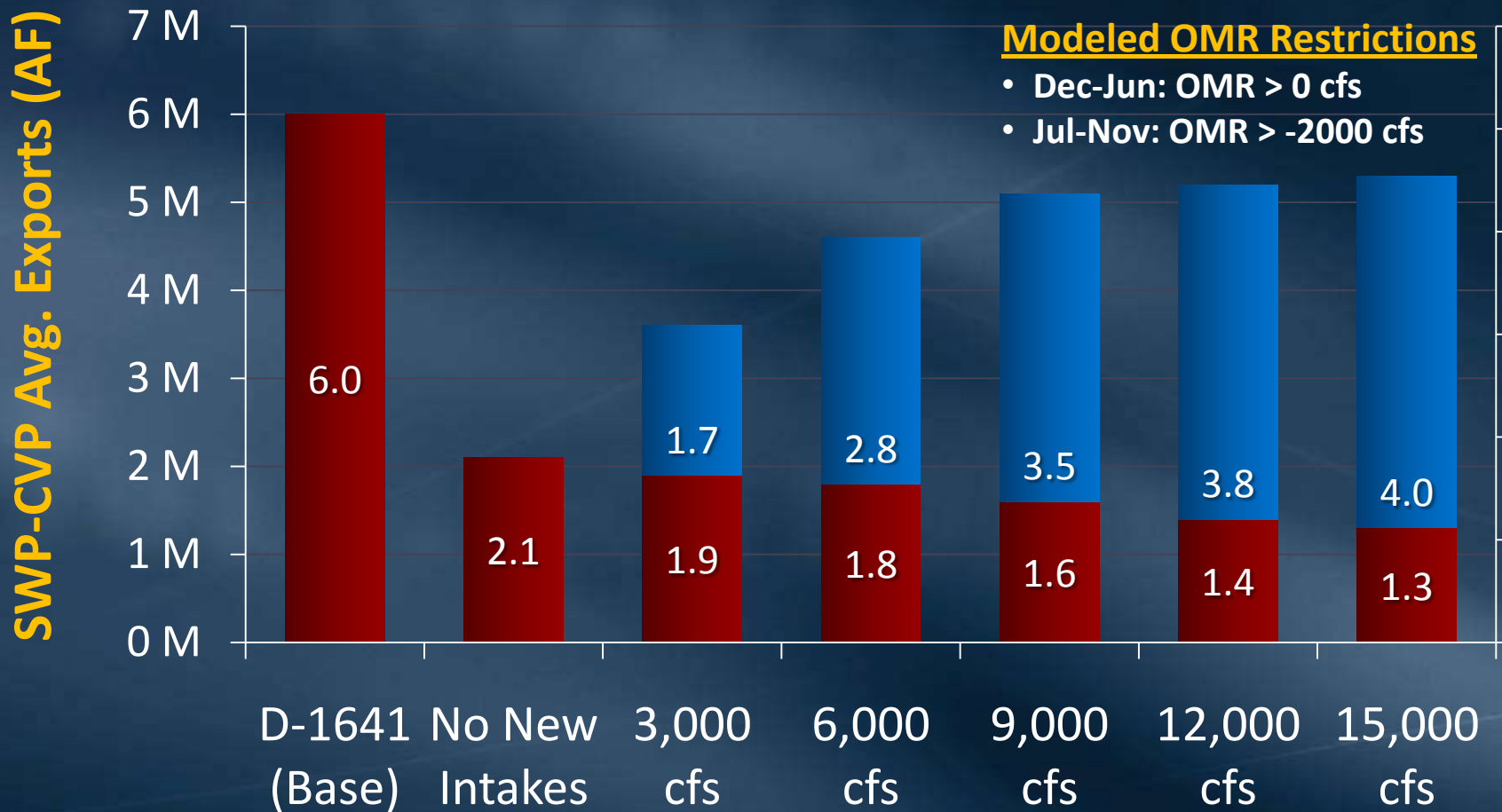
Preliminary Subject to Revision



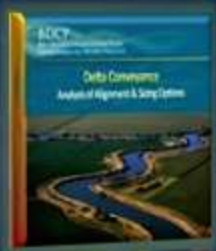
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Scenario 3 – More Restrictive South Delta Ops

Southern Diversions **Northern Diversions**



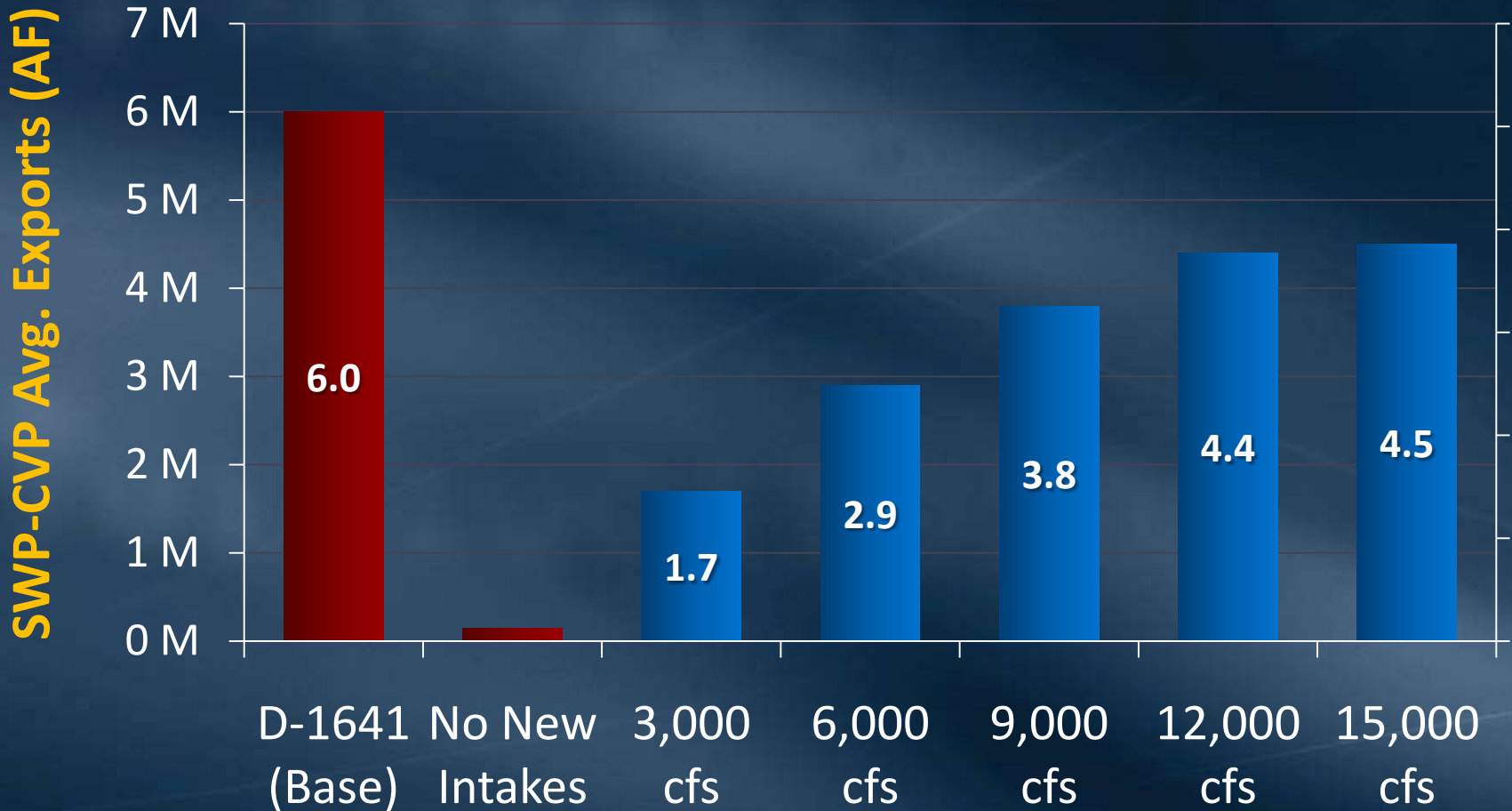
Preliminary Subject to Revision



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Scenario 4 – No South Delta Diversions

Southern Diversions **Northern Diversions**

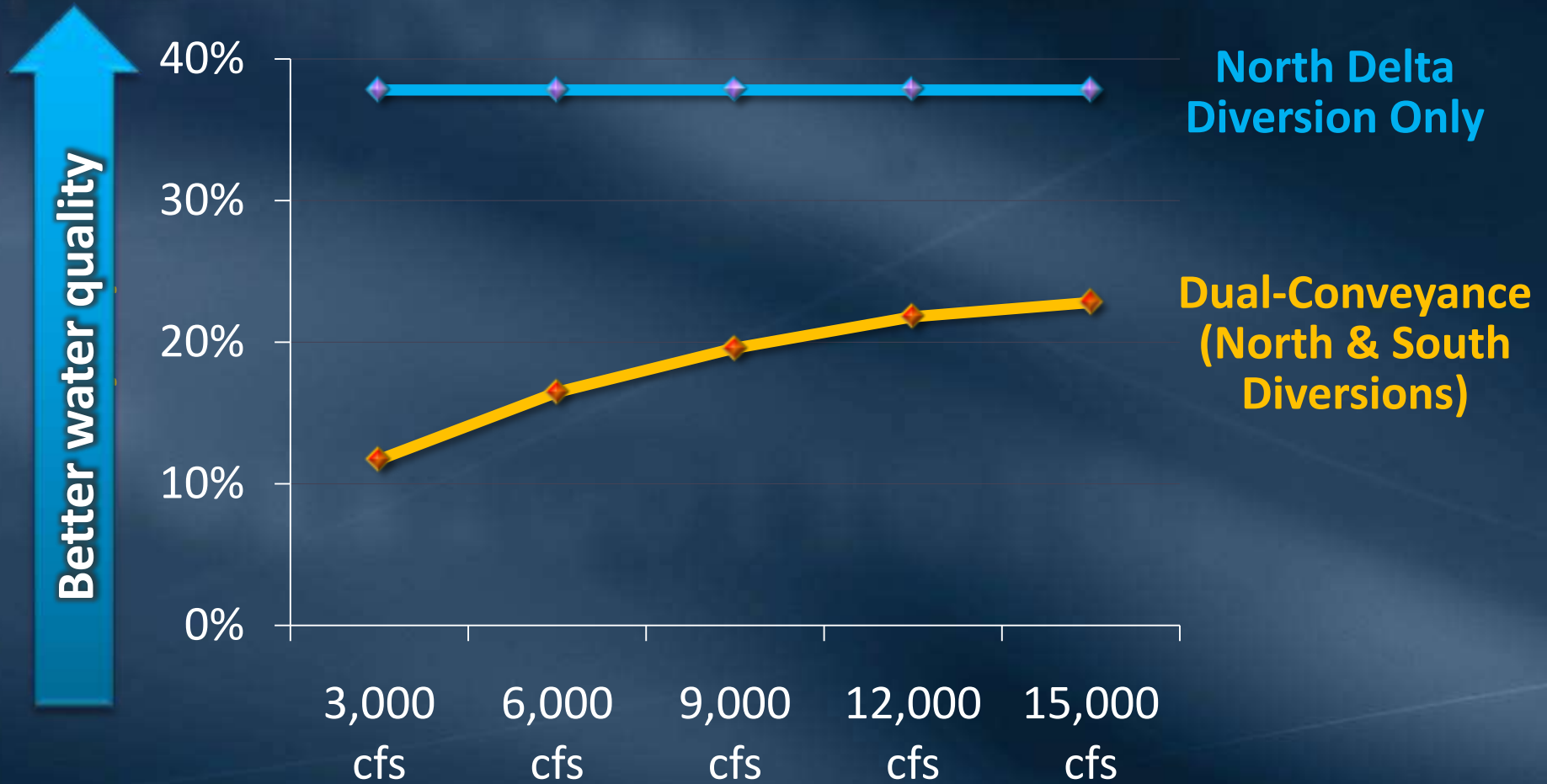


Preliminary Subject to Revision



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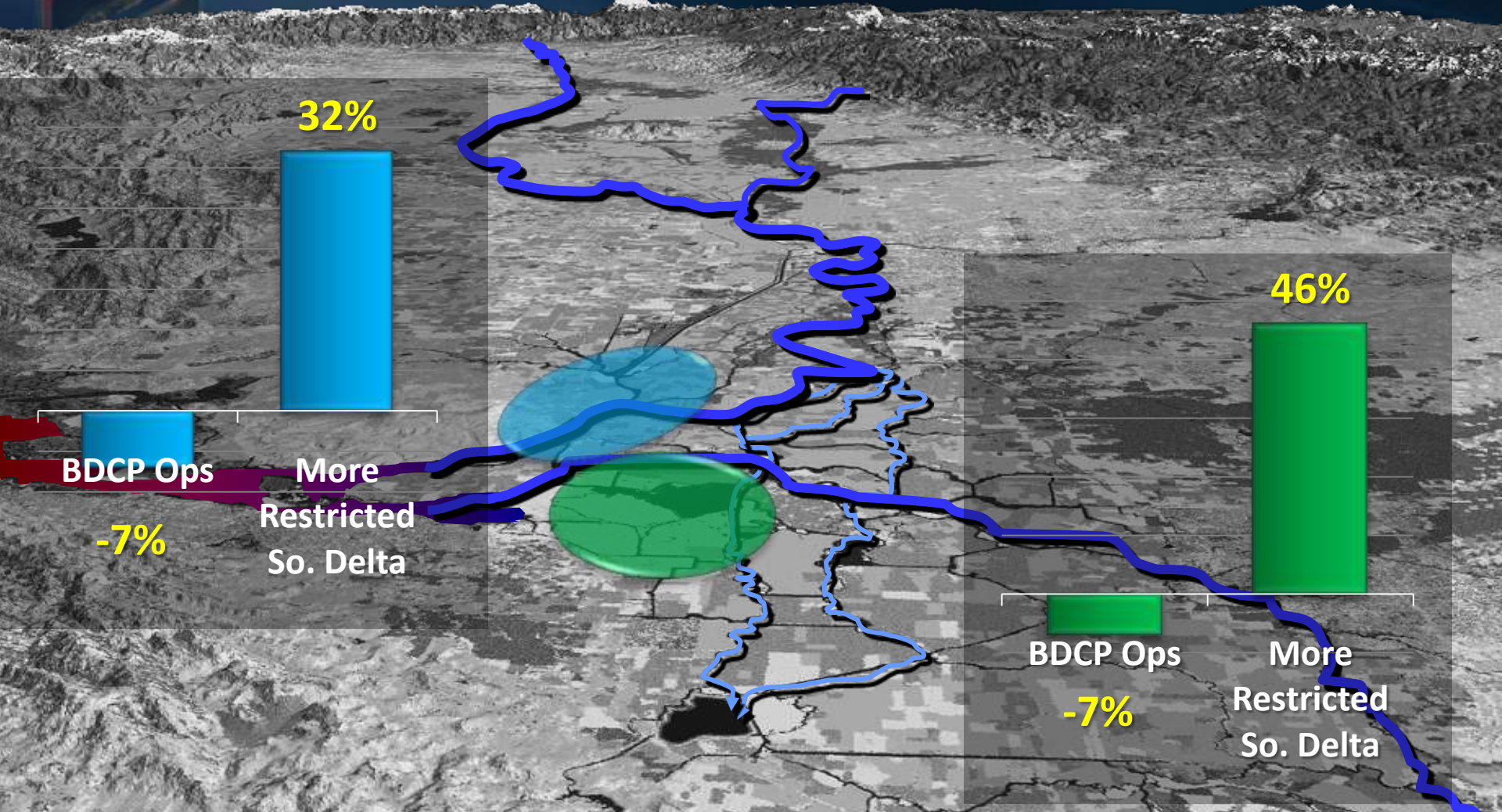
Export Water Quality – Salinity Reduction





Delta Conveyance

In-Delta Water Quality – Salinity Reduction *



* SWRCB water quality standards are still met under both scenarios.



Delta Conveyance

Environmental – Old & Middle River Flows*



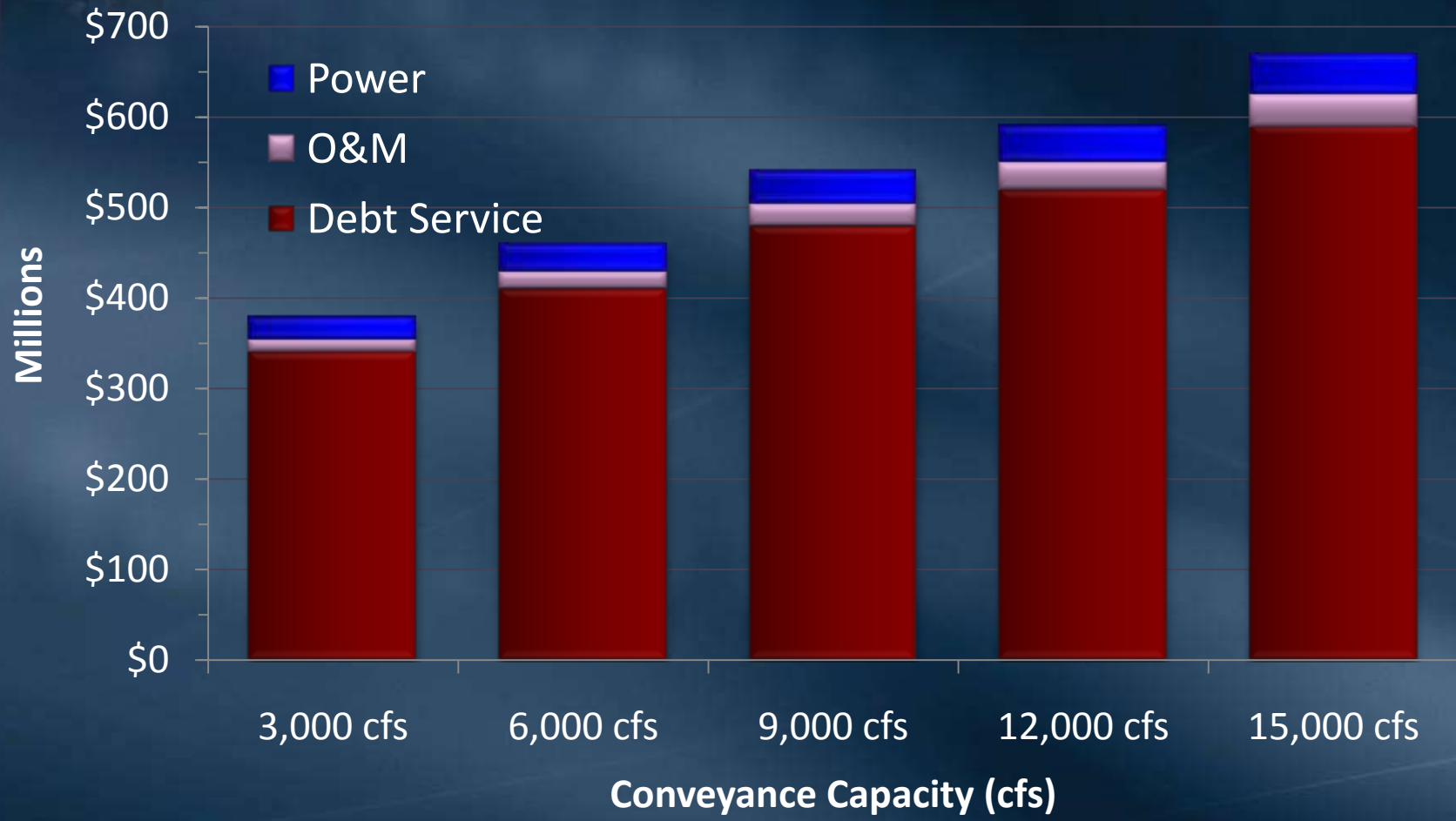
* Average Old & Middle River flows January thru June

Delta Conveyance Options

Cost Analysis



Delta Conveyance Total Annual Costs





Delta Conveyance

Cost per Acre-Feet

Alignment	Repayment based on	
	Incremental New Supplies	Average SWP Deliveries
East (~\$8B)	~\$326/AF	~ \$68/AF
West (~\$10B)	~\$408/AF	~ \$85/AF
Tunnel (~\$12B)	~\$489/AF	~ \$103/AF

SWRCB D-1641 Base Supply ~ 6.0 million AF
Existing Biological Opinions ~ 4.9 million AF
Proposed BDCP Ops ~ 6.2 million AF

BDCP

BAY DELTA CONSERVATION PLAN

PLAN DEVELOPMENT SCHEDULE

