

An Initial Assessment of Dual Delta Water Conveyance

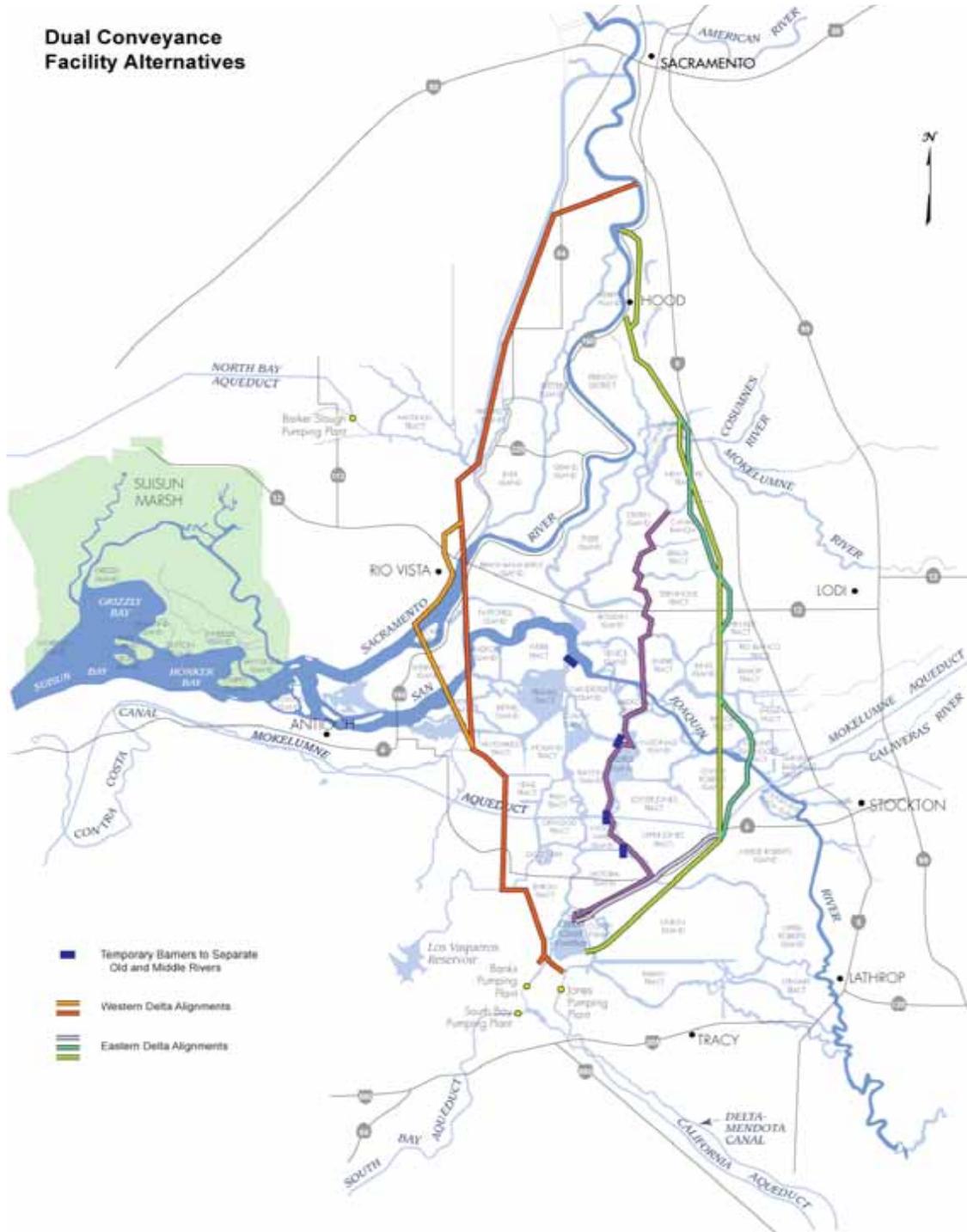
Requested by the
Delta Vision Task Force
Prepared by DWR
April 2008



Dual Conveyance

- Flexible, capable of improving water supply reliability, and provides significant opportunities for the health of Delta species.
- We examined four configurations
 - *Western Alignment with and without through-Delta Improvements*
 - *Eastern Alignment with and without through-Delta Improvements*

**Dual Conveyance
Facility Alternatives**



Components of Dual Conveyance

- Seismic and Flood Durability

- Cost Estimates:

Western: \$7.4 B

Eastern: \$4.2 B

Thru Delta (Range): \$1.2 B – \$9.8 B

Totals:

Western: \$7.4 B

\$8.6 B

\$17.2 B

Eastern:

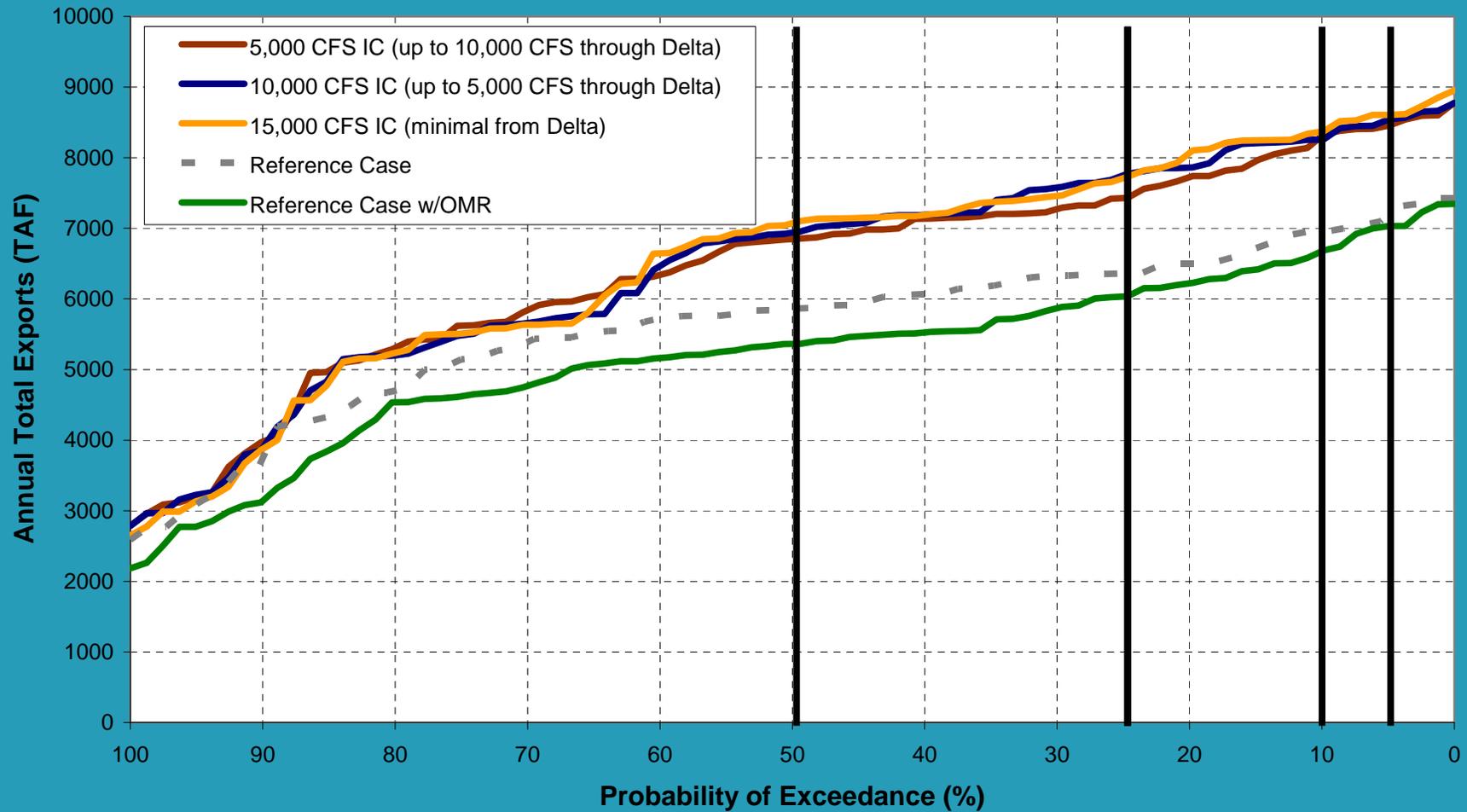
\$4.2 B

\$5.4 B

\$14 B

Water Supply Reliability

Isolated Conveyance Priority Option
Total Delta Exports Exceedance (10,300 Banks)

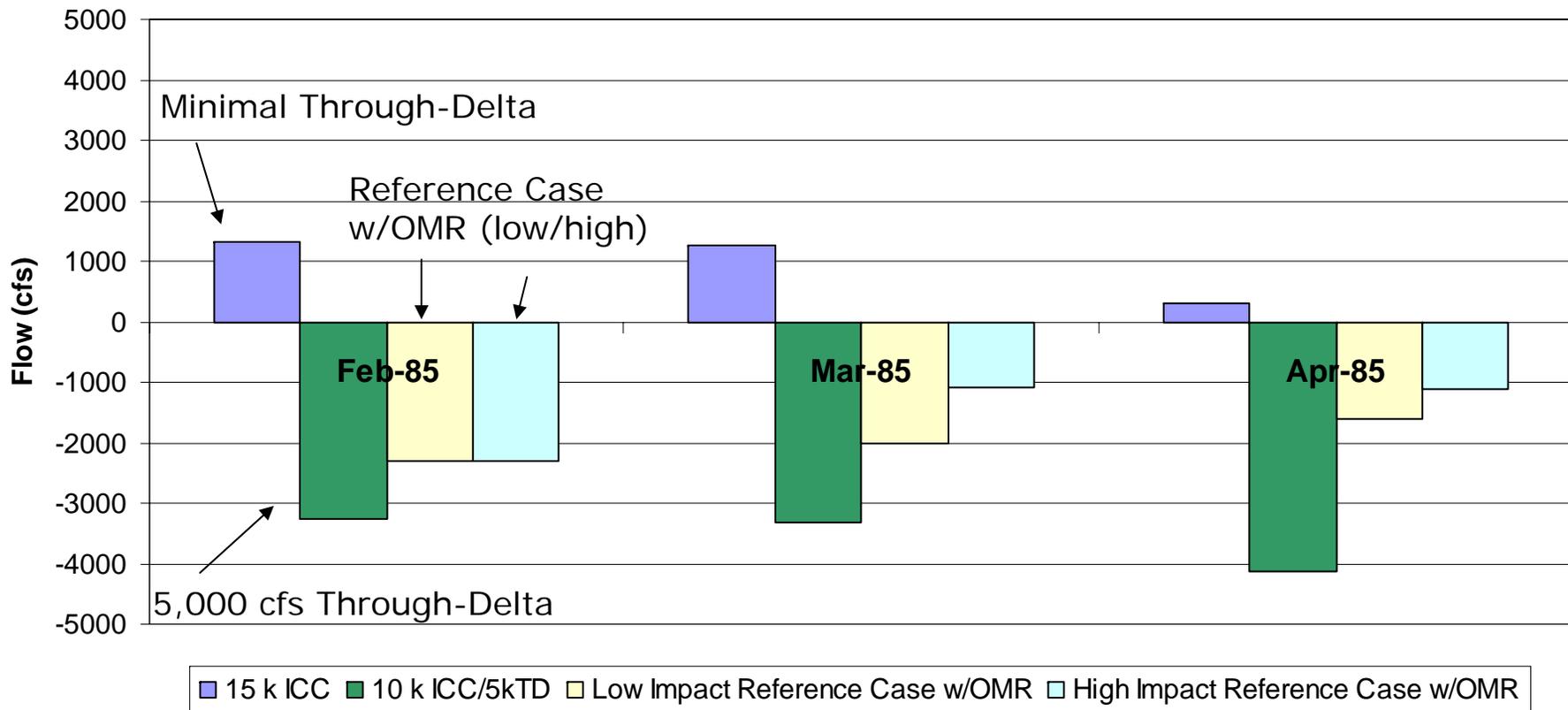


Ecosystem Health and Resilience

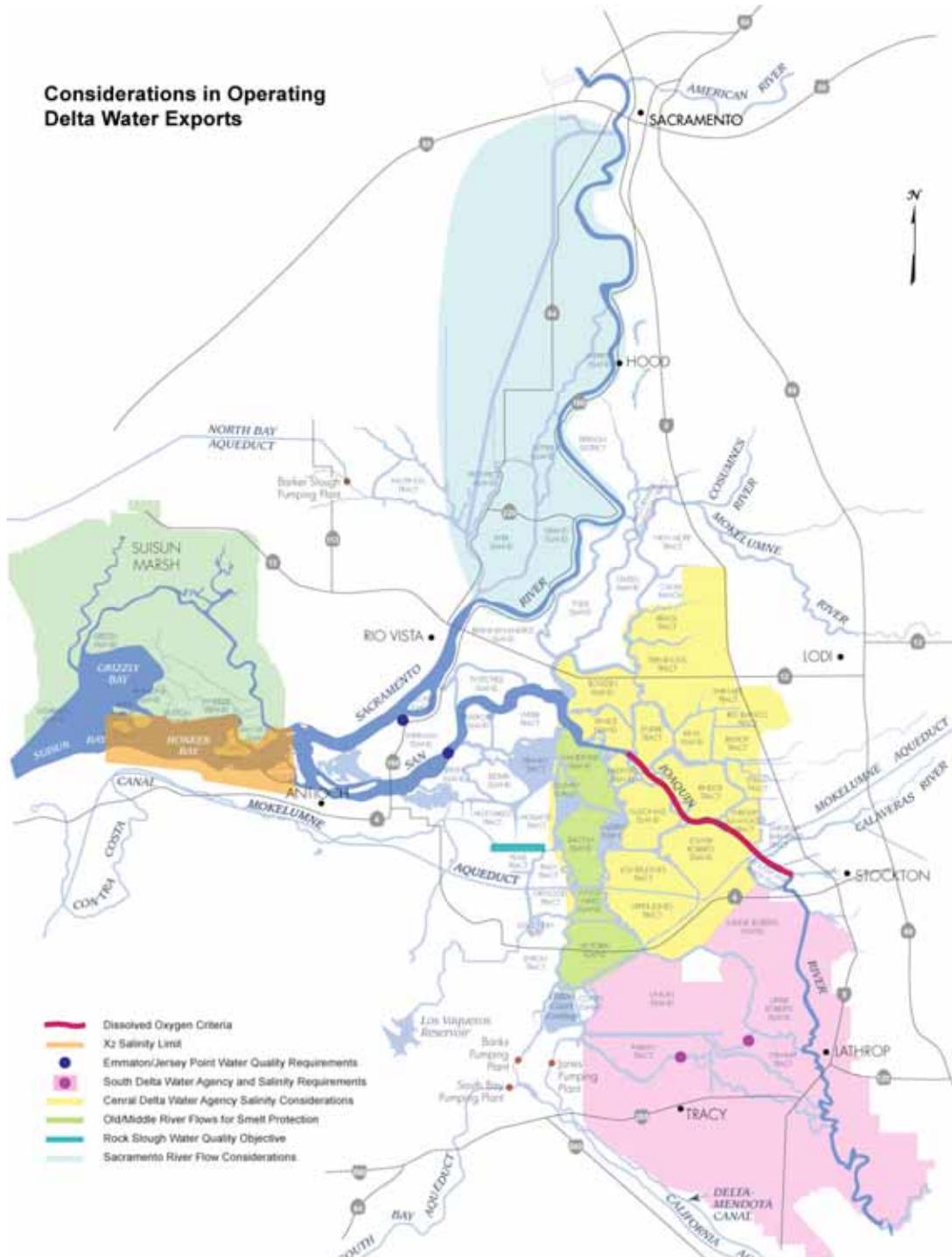
- Improved opportunity to increase:
 - *Smelt spawning/rearing habitat*
 - *Food quantity/quality/availability*
- Improved opportunity to decrease:
 - *Predation by non-natives*
 - *CVP/SWP entrainment*
- Old and Middle River Flows and X2 Position comparison between model simulations

OMR Flows with 5,000 cfs Through-Delta and 10,000 cfs Isolated Conveyance Constraint

Old & Middle River Flow Comparison Feb - April 1985



Considerations in Operating Delta Water Exports



Operational Considerations

Water Quality:

Small Salinity changes in Western Delta

Most significant changes in Central and South Delta when the Through-Delta Component is not used

Operational Flexibility could support different Water Quality regimes

Operations may include water for conservation measures - BDCP

Bay Delta Conservation Plan Schedule

2009	2010	2011	2012 - 16
Draft EIR/EIS	Final EIR/EIS		
		Permitting and Final Design	
			Construction of Dual Conveyance

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