



Long Beach Water Department

Update on Delta Conveyance Draft EIR

November 10, 2022

Update on Delta Conveyance Project Draft EIR

Agenda

- Project Overview
- Water Supply Reliability and Resiliency
- One Water and Delta Conveyance

Proposed Delta Conveyance Project Project Overview

The Project Purposes

	CLIMATE RESILIENCY	Addresses climate change, extreme weather and rising sea-levels in the Delta for the SWP
	SEISMIC RESILIENCY	Minimizes health/safety risk to public from earthquake-caused reductions in water delivery quality and quantity from the SWP
	WATER SUPPLY RELIABILITY	Restores and protects ability to deliver SWP water in compliance with regulatory and contractual constraints
	OPERATIONAL FLEXIBILITY	Provides SWP operational flexibility to improve aquatic conditions and manage risks of additional future constraints

Project Alignments

Three Alignment Options

- Central
- Eastern
- **Bethany – Proposed Project**

Four Capacity Options

- 3,000 cfs
- 4,500 cfs
- **6,000 cfs – Proposed Project**
- 7,500 cfs

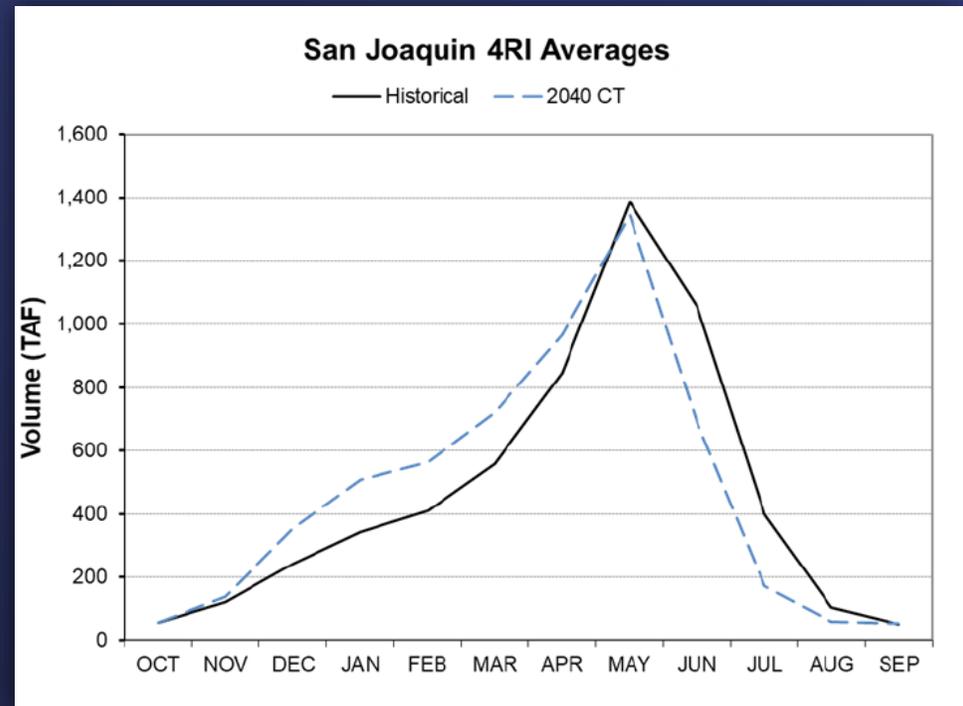
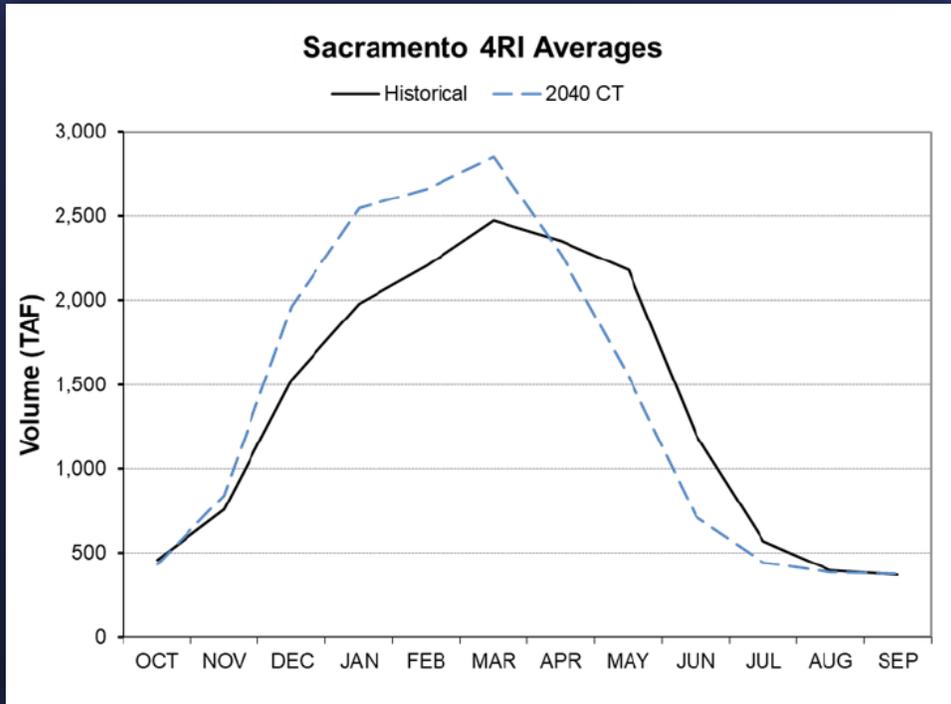


Proposed Delta Conveyance Project *Water Supply Reliability and Resiliency*

Modeling California's Water Supply

Significant Changes in Runoff Timing and Quantity Projected in 2040

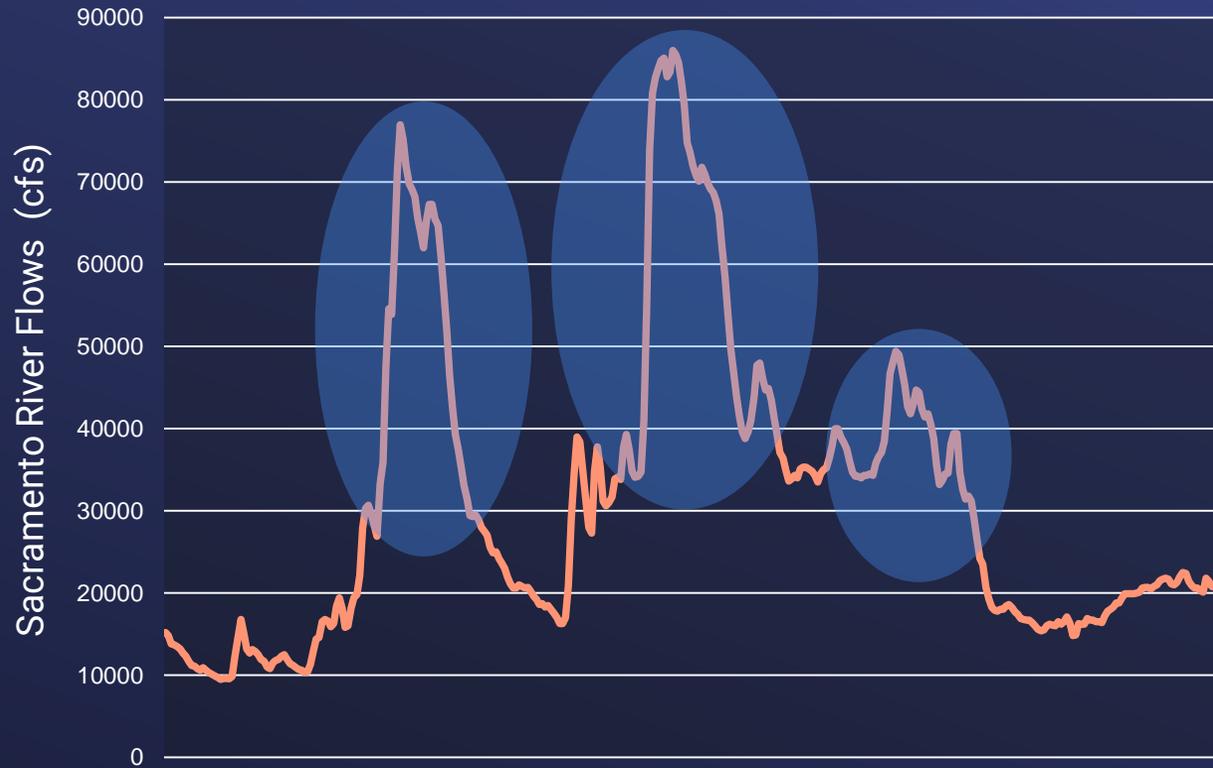
Delta Watersheds Projected to Be Wetter
Average Precipitation Increases of 2.7-4.8%¹



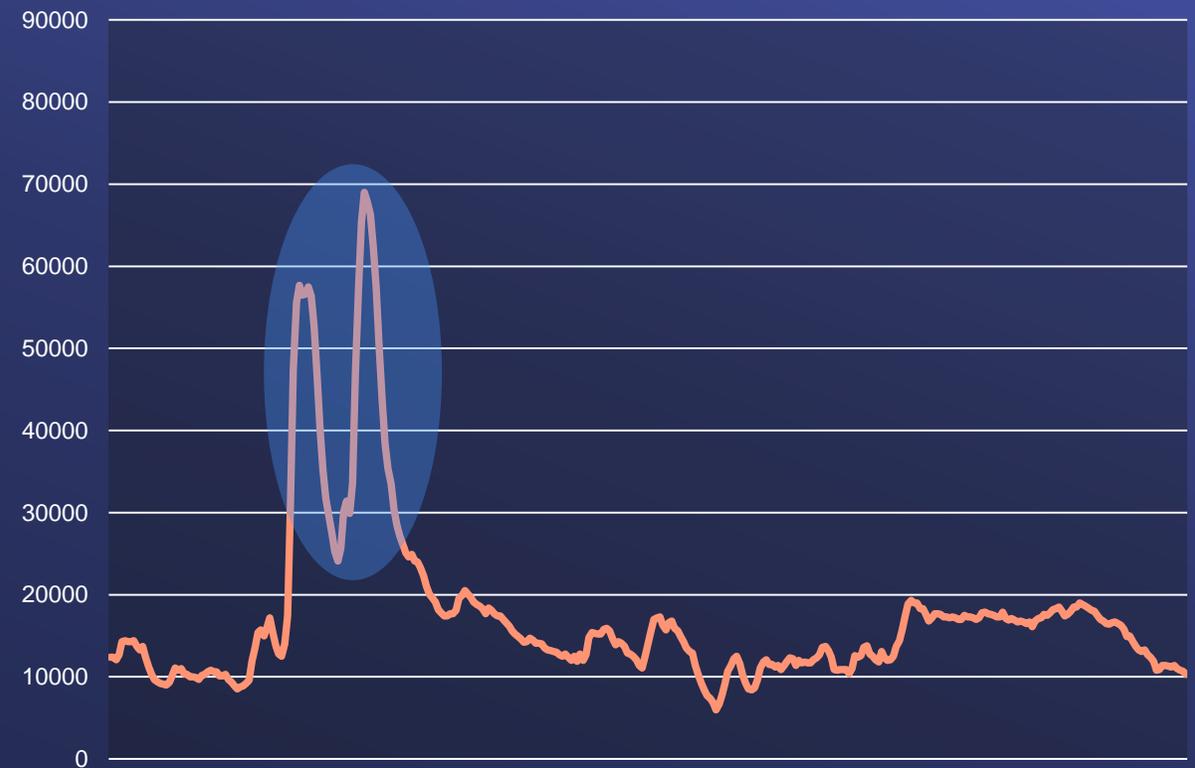
¹DCP Draft EIR Appendix 5A, Section B – Figure 5A-B4.3

Flashier Storm Events Present Risks and Opportunities

High Flow Events Occur in Various Water Year Types



Wet Year
(2011 Water Year)

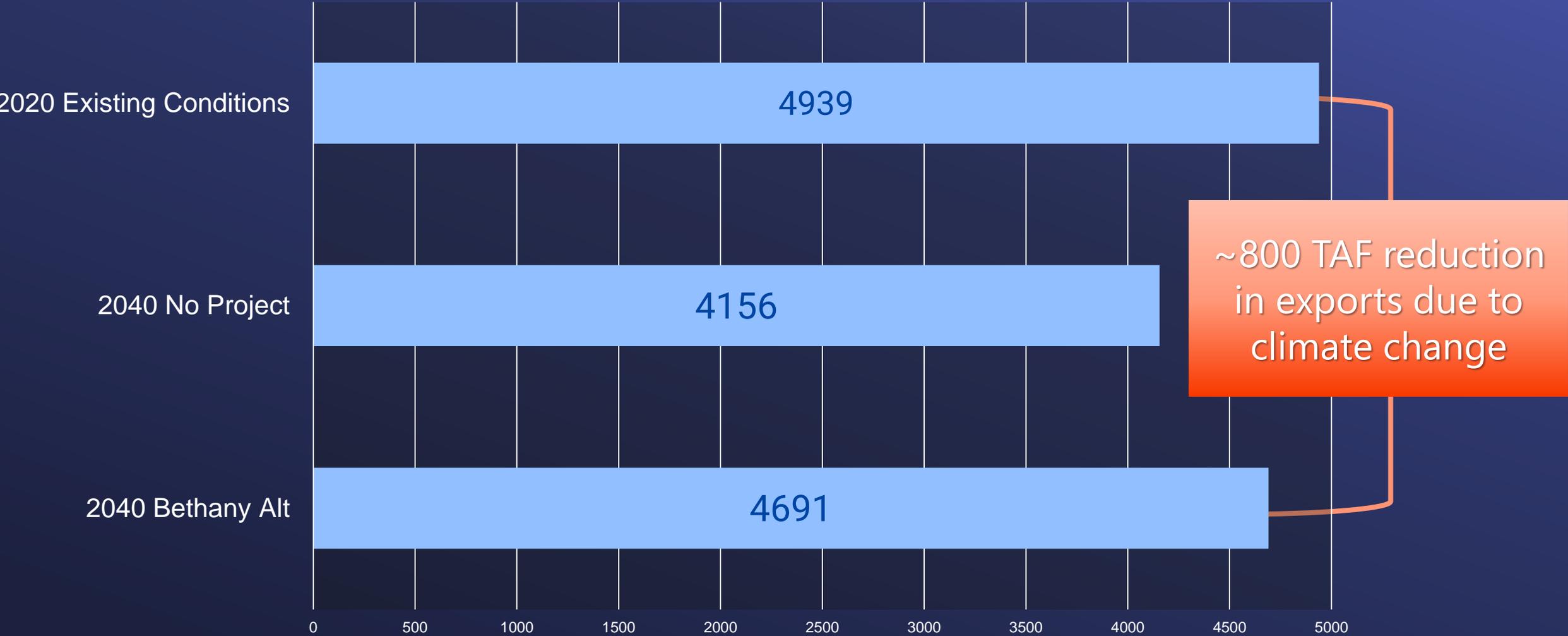


Dry Year
(2013 Water Year)

Source: Department of Water Resources Dayflow data <https://data.ca.gov/dataset/dayflow>

Exports Decline due to Climate Change, Even with Project

Total Delta Exports, Long-Term Average (TAF)^{1,2,3,4}

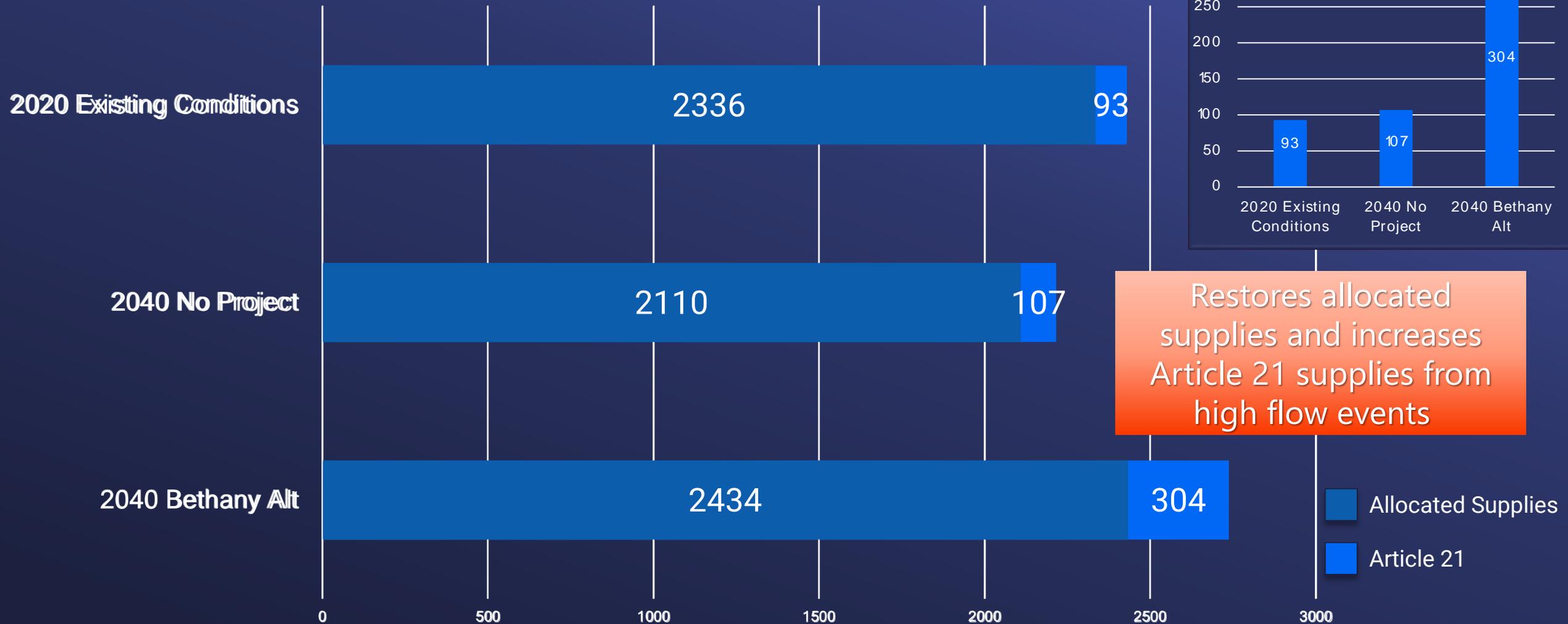


¹2040 scenarios discussed include No Project and Proposed Project (Bethany Alternative), ²H++ corresponds to OPC's extreme scenario resulting from loss of West Antarctic ice sheet

³Total Delta Exports includes both State Water Project and Central Valley Project water exports, ⁴Source: Table 6A-3 of DCP Draft EIR

Adapting to High Flow Events Amid Climate Change

SWP Deliveries, Long Term Average (TAF)^{1,2,3}



¹2040 scenarios discussed included No Project and Proposed Project (Bethany Alternative), ²H++ corresponds to OPC's extreme scenario resulting from loss of West Antarctic ice sheet

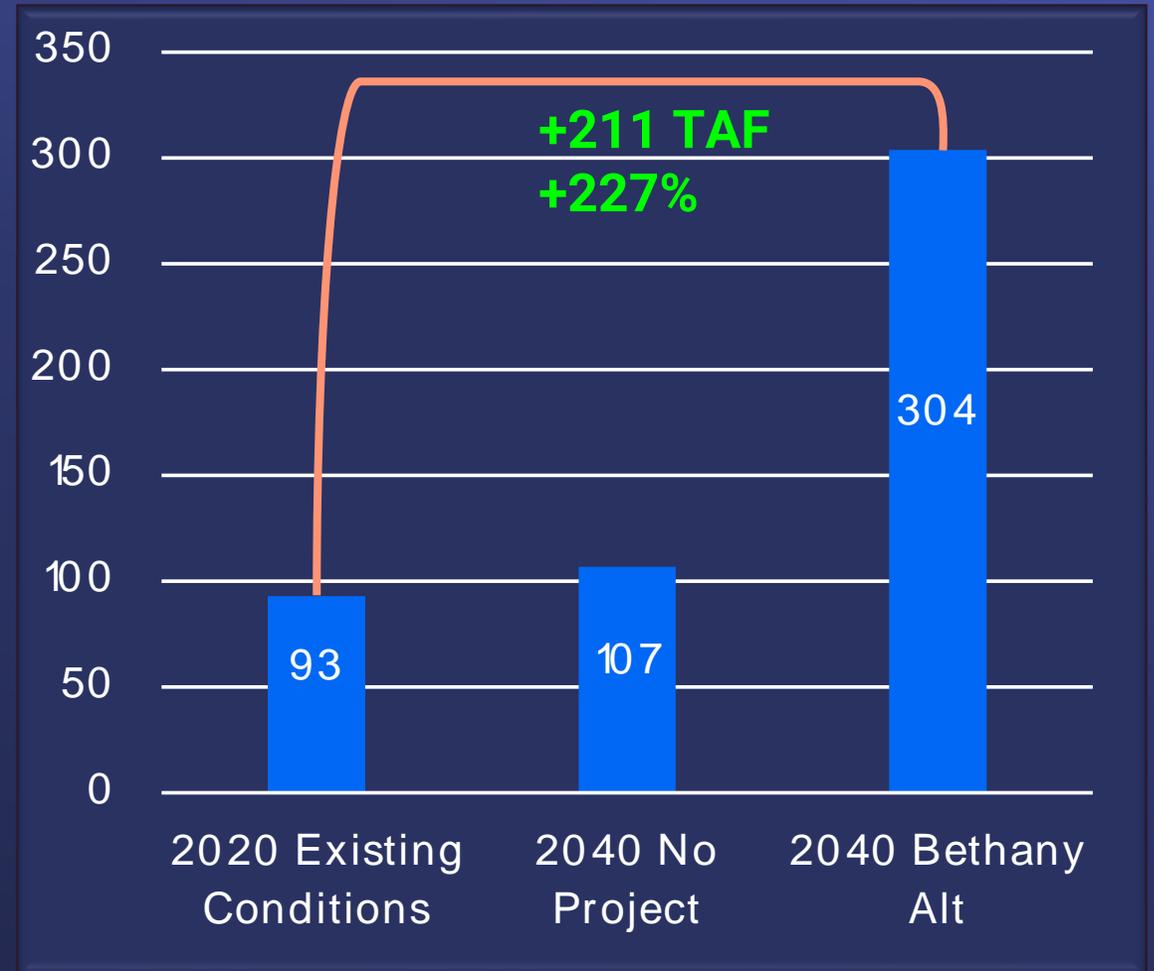
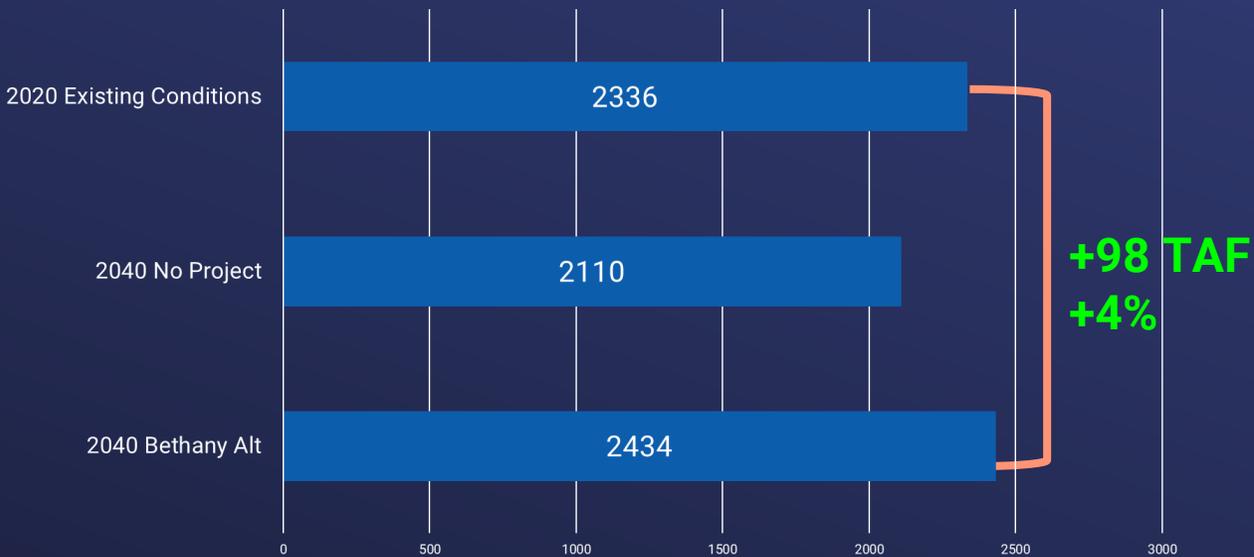
³Allocated supplies include Table A and Article 56 Carryover supplies as shown in Table 6A-1 of the DCP Draft EIR.

Adapting to High Flow Events Amid Climate Change

SWP Deliveries, Long Term Average (TAF)^{1,2,3}

Article 21 Supplies

Allocated Supplies



Capturing high flow events restores and protects water supply reliability

¹2040 scenarios discussed included No Project and Proposed Project (Bethany Alternative), ²H++ corresponds to OPC's extreme scenario resulting from loss of West Antarctic ice sheet

³Allocated supplies include Table A and Article 56 Carryover supplies as shown in Table 6A-1 of the DCP Draft EIR.

Delta Conveyance Project

One Water and Delta Conveyance

One Water and Delta Conveyance Putting the Pieces Together

Southern California's Resource Portfolio An "All of the Above" Strategy for Reliability



One Water and Delta Conveyance

Delta Conveyance Project aims to protect and restore SWP water reliability

Vital To Metropolitan

- The SWP is a core component of Metropolitan's supply portfolio
- Metropolitan's infrastructure is designed and built to benefit from the SWP

Surface Storage

- San Luis Reservoir Carryover
- Flexible Storage
- Diamond Valley Lake

SWP Groundwater Banking

- Central Valley Programs
- High Desert Water Bank

Develop New Local Supplies

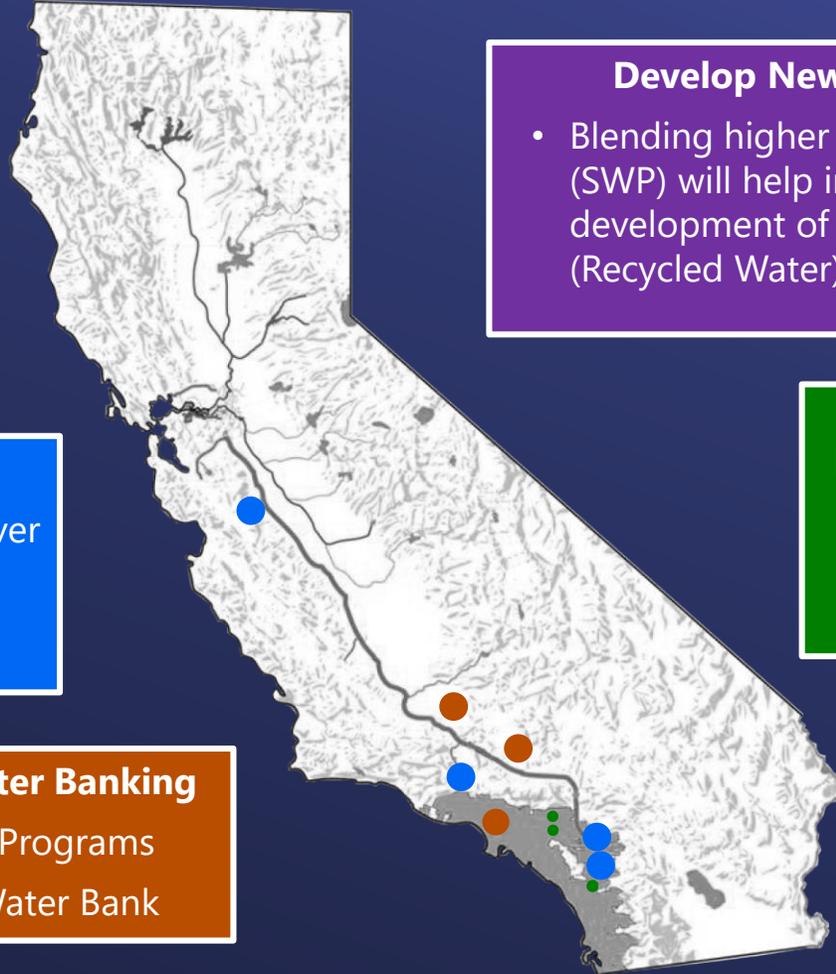
- Blending higher quality source water (SWP) will help in maintenance and development of local supplies (Recycled Water)

Water Quality at Existing Metropolitan Treatment Facilities

- Blending with Colorado River Supplies at Weymouth, Diemer, and Skinner Treatment Plants

Local Groundwater Recharge

- Supply for In-Service Area Groundwater Basins
- Conjunctive Use Programs



Key Takeaways Supply Reliability

Significant Changes in Runoff - Timing and Quantity¹

High Flow Events Occur in Various Water Year Types²

Without the Project, Exports Decline ~800 TAF³ by 2040

Flashier Storm Events Present Risks & Opportunities

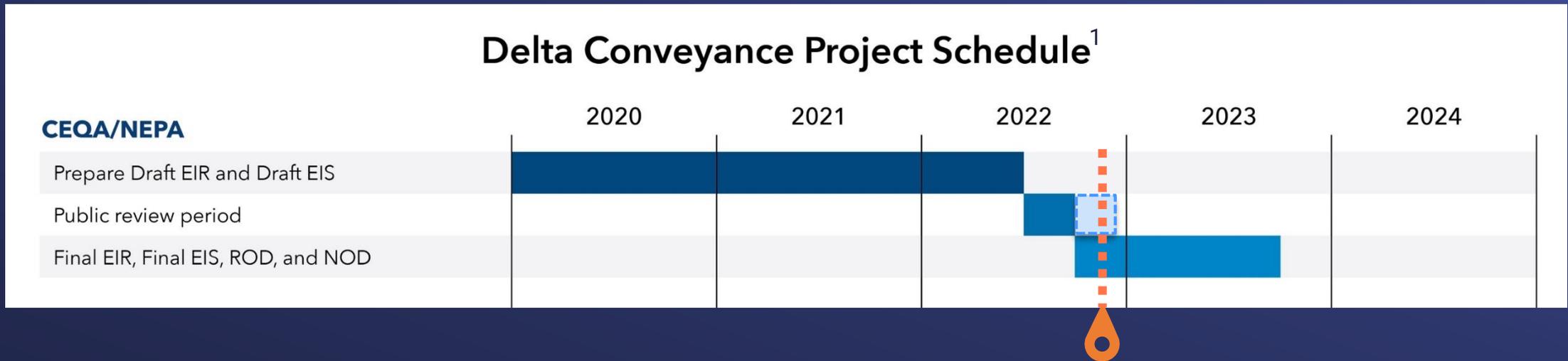
Capturing high flow events restores and protects water supply reliability⁴

¹Draft EIR Appendix 5A, Section B.6.1 ²Source: Department of Water Resources Dayflow data <https://data.ca.gov/dataset/dayflow> ³Total Delta Exports including both State Water Project and Central Valley Project water exports in Existing Conditions and 2040 scenarios as modeled in Chapter 5 and Appendix 5A of DCP Draft EIR and shown in Table 6A-3 ⁴2040 scenarios discussed include No Project and Proposed Project (Bethany Alternative), H++ corresponds to OPC's extreme scenario resulting from loss of West Antarctic ice sheet and allocated supplies include Table A and Article 56 Carryover supplies as shown in Table 6A-1 of the DCP Draft EIR.



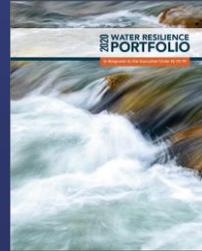
Back-up Slides

Delta Conveyance Project Planning Timeline



¹Department of Water Resources (DWR) extended Draft Environmental Impact Report (DEIR) public review period of 90 days with an end date of October 27, 2022 to December 16, 2022, light blue shaded box captures this timeline modification. Proposed Delta Conveyance Project timeline is subject to change.

Delta Conveyance Timeline



Jul 2017
DWR
Approved
CA WaterFix

May 2019
DWR
Rescinded
approvals of
CA WaterFix

Jul 2020
Water
Resilience
Portfolio

Dec 2022
Draft EIR Public
Comment Period
Closes



Project Scoping and Planning

Continuing Outreach

Feb 2019
Gov. Newsom
State of the
State Address

Jan 2020
DWR Released
Delta Conveyance
NOP

Jul 2022
DWR Released
Delta Conveyance
Draft EIR

