

#### MWDOC/OCWD Joint Planning Committee

## Bay-Delta Regulatory Update

Item 1 January 25, 2023

### Bay-Delta Regulatory Update

#### Agenda

- Overview and Current Operations
- Long-Term Operations
- Voluntary Agreements

## Regulatory Overview

# Background: Regulatory Overview Key Permits and Standards Governing Project Operations

Federal 2019 Biological Opinions (ESA) **State**Water Rights
Decision 1641

State Water Project State 2020 Incidental Take Permit (CESA)

ESA = Endangered Species Act CESA = California Endangered Species Act

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Shasta Reservoir
Temperature Management Temperature Management

## Bay-Delta Regulatory Framework

**Summer Flow** 

Winter/Spring X2

Summer/Fall Habitat Actions
Summer/Fall Habitat Actions

**Export/Inflow Ratio** 

**Agriculture/Urban Salinity** 

Fish and Wildlife Flows

Old and Middle River Reverse Flows

Old and Middle River Reverse Flows

**Inflow/Export Ratio** 

Banks (SWP)

Jones (CVP)

2019 Biological Opinions (ESA)

Incidental Take Permit (CESA)

Permit/Water Quality Control Plan

Cross Channel Gates Cross Channel Gates

> San Joaquin River Inflow/Export Ratio

#### Current Bay Delta Operations 3 Day Average Freeport Flows ≥ **Turbidity** and 25.000 cfs > 50 NTŬ Export/Inflow Ratio Early Winter 01/03-01/16 Pulse Protection RIVET Delta Cross "First Flush" **Channel Gates** Suisun Marsh River Turbidity Bridge **Emmaton** 01/17-Present Avoidance San Joaquin **Turbidity** Old River at ≥ 12 NTŬ **Bacon Island** Old and Middle River Standards Reverse Flow (OMR) -2,000 cfs for 5 days 2019 Biological Opinions (ESA) Clifton -3,500 cfs Court Incidental Take Permit (CESA) Banks Jones (SWP) (CVP) Bethany

### Regulation of Water Operations Alignment is Foundational

**State**Water Quality
Control Plan

Voluntary Agreements Federal
Biological
Opinions
(ESA)

State
Incidental Take
Permit
(CESA)

### Reinitiation of Consultation Long-Term Operation of the CVP and SWP

### Timeline to Date

Reinitiation of Consultation on Long-Term Operations



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### Remaining Milestones\*

Reinitiation of Consultation on Long-Term Operations



### Key Areas of Interest

- Consistency between State and Federal Permits
- Appropriate attribution of CVP and SWP obligations
- Incorporation of Voluntary Agreement commitments

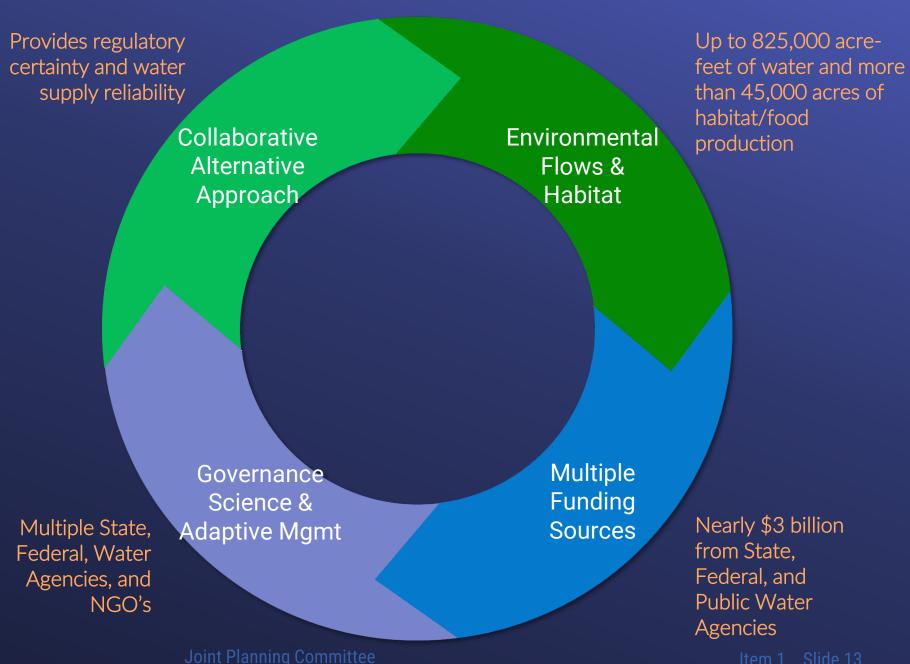


Reinitiation of Consultation on the Long-Term Operation of the CVP and SWP

## Voluntary Agreements

**Voluntary Agreements Summary** 

#### Watershed Wide Approach



#### Voluntary Agreements Nine Additional Signatories Since March 2022

#### March 2022 Initial Signatories

- California Natural Resources Agency
- California Environmental Protection Agency
- Department of Water Resources
- Department of Fish and Wildlife
- U.S. Bureau of Reclamation
   California Great Basin Region
- State Water Contractors
- Metropolitan Water District
- Kern County Water Agency
- Westlands Water District
- Glenn-Colusa Irrigation District
- Yuba Water Agency
- Regional Water Authority
- Western Canal Water District
- River Garden Farms
- Garden Highway Mutual Water Company
- Sutter Mutual Water Company

#### Additional Signatories

#### August 2022

- East Bay Municipal Utility District
- Friant Water Authority
- San Luis Delta Mendota Water Agency
- Tehama Colusa Canal Authority
- Solano County Water Agency

#### September 2022

Contra Costa Water District

#### November 2022

- San Francisco Public Utilities Commission
- Turlock Irrigation District
- Modesto Irrigation District

## Voluntary Agreement Timeline\*



Draft
Scientific
Basis Report &
Public Workshop



Scientific
Basis Report
Submitted for
Peer Review

Public Comment and Peer Review



Board Consideration for Adoption

Q1 2023 Q2 2023 Q3 2023 Q4 2023 Q1 2024 Q2 2024 Q3 2024

Q4 2024

Draft State Board Staff Report



Public Workshop on Draft Staff Report



Response to Comments and Final Board Staff Report



### Bay-Delta Regulatory Update

### Summary and Lookahead

- Voluntary Agreements (ongoing)
- Long Term Operations (ongoing)
- Staff Regulatory Update Q3 2023
- Takeaway Regulatory Alignment is Key

Federal Biological Opinions (ESA) State Incidental Take Permit (CESA)

**State** Water Quality Control Plan

Voluntary Agreements



## Backup Slides

## Theoretical Delta Conveyance Diversions

#### MISSED OPPORTUNITY

If the DCP was operational during the high rain events in the first half of January, we could have moved

188,000 acre-feet of water into the San Luis Reservoir

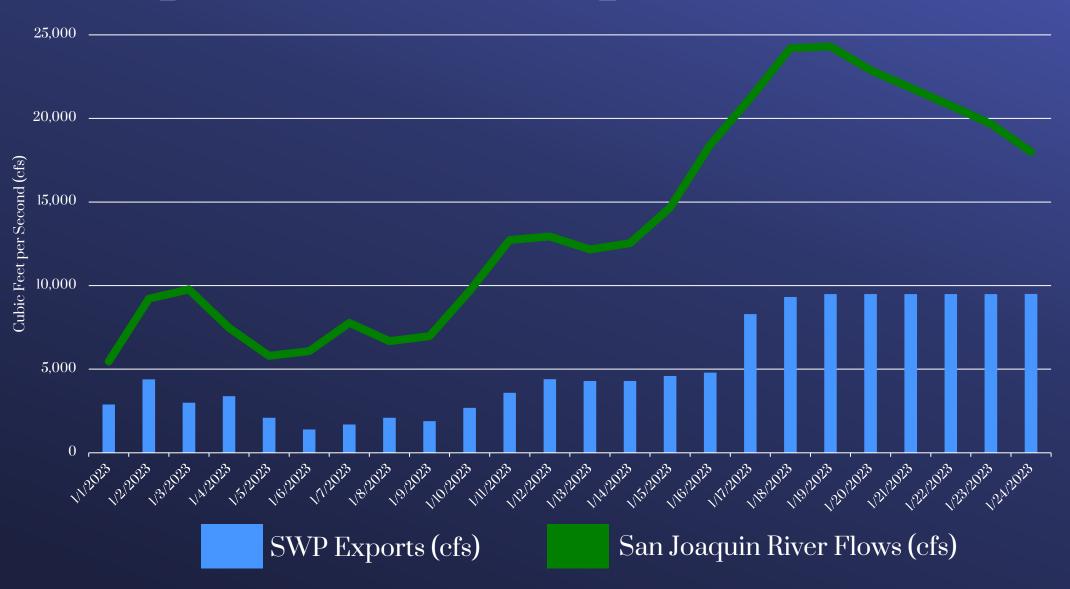
188,000 acre-feet enough water to supply: of water 000000 newoolyee Nearly 660,000 people for one year households for one year

The theoretical DCP diversion of 188,000 acre-feet is about 30% of the total volume exported by the SWP in water year 2022.

| Diversions for Water Year 2023 (Estimates through January 16, 2023) |  |   |   |   |  |  |  |
|---|--|---|---|---|--|--|--|
| Month   | State Water<br>Project Exports*<br>(Acre-Feet) | Central Valley<br>Project Exports*<br>(Acre-Feet) | Theoretical<br>Additional<br>DCP Diversion**<br>(Acre-Feet) | South Delta Export<br>Limiting Factors<br>(days in month) |  |  |  |
| October   | 29,000   | 63,000  |   | WQ (10/1-10/31)   |  |  |  |
| November  | 38,000   | 81,000  |   | WQ (11/1-11/30)   |  |  |  |
| December  | 115,000  | 86,000  |   | WQ (12/1-12/26), E/I (12/27-12/31)                        |  |  |  |
| January   | 102,000  | 116,000   | 188,000   | OMRI-5k (1/1-1/2), IEWPP (1/3-1/16)                       |  |  |  |

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Delta-Conveyance/Public-Information/DCP\_Diversions\_01172023\_Final.pdf

## SWP Exports vs San Joaquin River Flows



### Calculation of the OMR Index

$$Q_{OMR} = A * Q_{Vernalis} + B * Q_{South\ Delta\ Diversions} + C$$

Where:  $Q_{South\ Delta\ Diversions} = Q_{CCF} + Q_{Jones} + Q_{CCWD} + Q_{South\ Delta\ NCD}$ 

| HORB        | GLC Barrier | Vernalis (cfs)  | A     | В      | С            |
|-------------|-------------|-----------------|-------|--------|--------------|
| Out         | Out         | < 16,000        | 0.471 | -0.911 | 83           |
| Out         | Out         | 16,000 - 28,000 | 0.681 | -0.940 | -3008        |
| Out         | Out         | > 28,000        | 0.633 | -0.940 | -1644        |
| Out         | In          | All             | 0.419 | -0.924 | -26          |
| In (Spring) | Out/In      | All             | 0.079 | -0.940 | 69           |
| In (Fall)   | Out/In      | All             | 0.238 | -0.930 | - <b>5</b> l |

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Operations-And-Maintenance/Files/Operations-Control-Office/Delta-Status-And-Operations/Delta-Operations-Daily-Summary.pdf

https://water.ca.gov/Programs/State-Water-Project/Operations-and-Maintenance/Operations-and-Delta-Status

 $\underline{https://www.baydeltalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/Hutton\_2008\_OMR\_Report.pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9ac6fd28b97f694/application/pdf/defletalive.com/assets/588eel8bdb5lefl6l9acfff698eel8bdb5lefl6l9acfff698eel8bdff698eel8bdff698eel8bdfff698eel8bd$ 

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