



Paradise Cut Bypass Expansion and Multi-Benefit Project

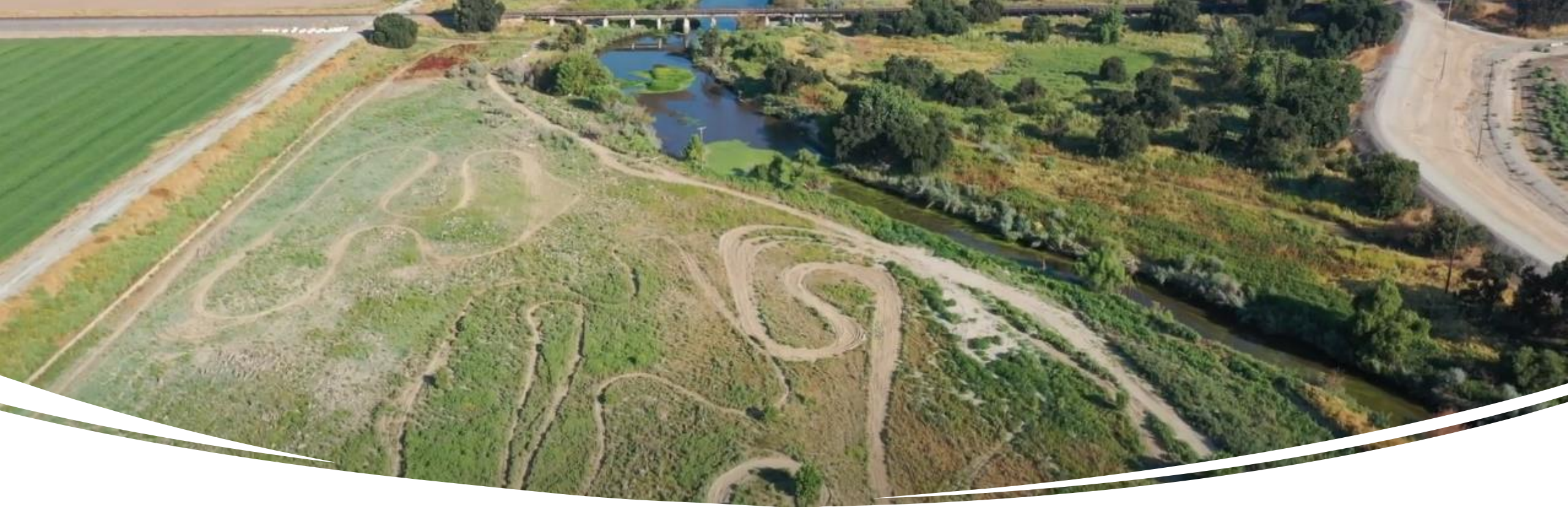
**Advisory Committee Meeting
December 2, 2024
11.30 am – 1.00 pm**

**Location: City of Lathrop City Council Chamber
390 Towne Centre Drive | Lathrop, California 95330**



Advisory Committee Agenda

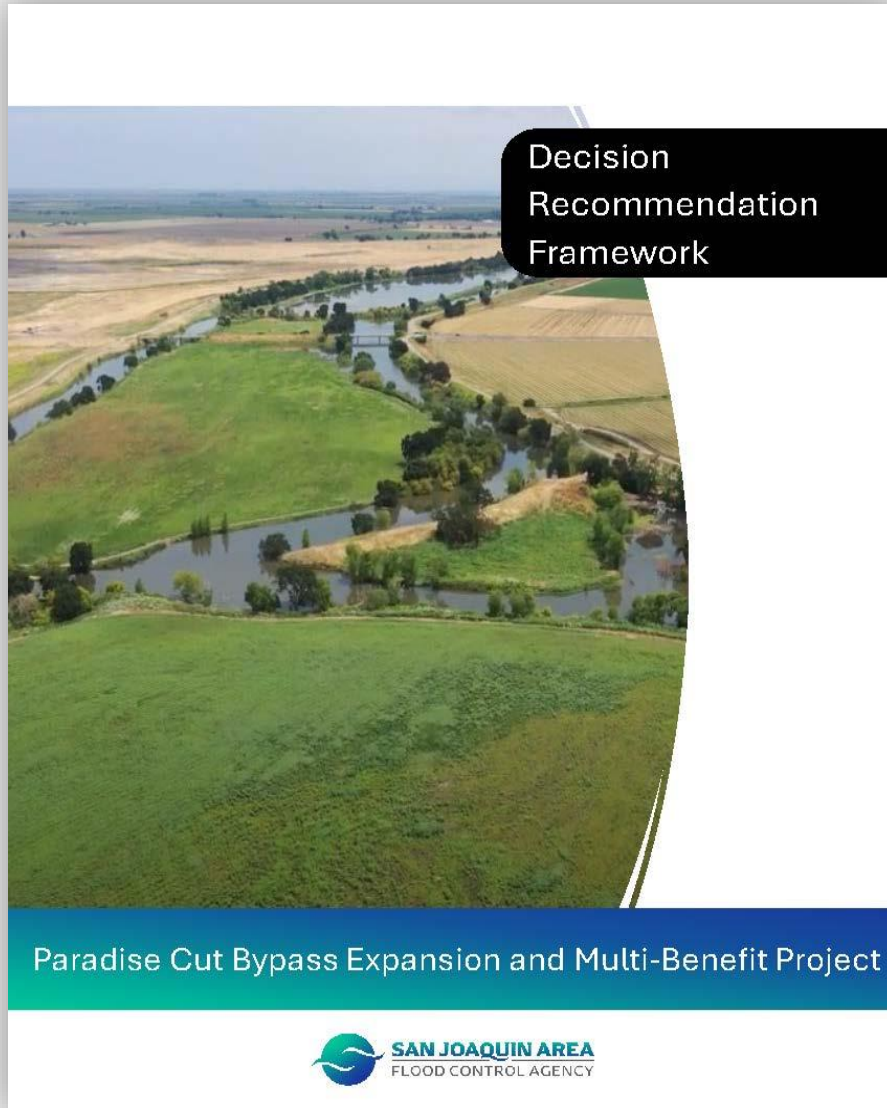
1. Administrative Matters (Consero Solutions)
 - A. Roll Call
 - B. Approve of 10/15 Meeting Summary **[Possible Action]**
2. Receive and File Final Decision Recommendation Framework (LWA/SJAFCA)
3. Public Outreach Update (Consero Solutions)
 - A. Primary Audience Meetings
 - B. Draft FAQs
 - C. Recommend public outreach schedule and budget to SJACFA Board of Directors **[Possible Action]**
4. Feasibility Study Update (Wood Rodgers/LWA)
 - A. Upcoming Deliverables
 - B. Climate Change Modeling Approach
 - C. Modeling Exercise Focused on Avoiding Modification to Railroad
5. SJAFCA Update (SJAFCA)
6. DWR, CVFPB, and Sacramento – San Joaquin Delta Conservancy Updates (DWR, CVFPB, Sacramento – San Joaquin Delta Conservancy)
7. Advisory Committee Comments
8. Public Comment
9. 2025 Advisory Committee Meetings
10. Adjournment



Administrative Matters

- Roll call
- Approve 10/15 Meeting Summary (Attachment A) [Possible Action]

Decision Recommendation Framework



Receive and File Final Decision Recommendation Framework (Attachment B)

Public Outreach Update

Public outreach update

- **Primary Audience Meetings**



- **11/13/24:** RD engineer meeting
- **11/18/24:** Delta Conservancy
- **12/4/24:** California State Water Resources Control Board



- **Frequently Asked Questions (Attachment C)**

Gold standard public outreach schedule (Att D)

Oct – Dec 2024	FAQs; interim deliverable letter; primary audience meetings: 12/2 Advisory Committee meeting
Jan – March 2025	Virtual newsletter; interim deliverable letter; primary audience meetings
April – July 2025	10-day review period and primary audience meetings to review Draft Alternative Formulation and Screening Technical Memorandum; 4/21 Advisory Committee meeting; virtual newsletter
Aug – Oct 2025	10-day review period and primary audience meetings to review final Evaluation and Comparison of Alternatives Memo; 8/25 Advisory Committee meeting; 9/22 Advisory Committee meeting to receive preliminary Draft Feasibility Report; public workshop #1
Nov – Dec 2025	10-day review period and primary audience meetings to review Draft Feasibility Report; 12/15 Advisory Committee meeting; public workshop #2; third virtual newsletter

Silver standard public outreach schedule and budget (Att D)

Budget Concerns

- Engagement Strategy is \$25,000 over budget for Consero Solutions' work (new meetings added by Project Team)
- Wood Rodgers needs \$30,000 for participation

Proposed Solution

1. South Delta Water Agency and SJAFCA will partner to complete any engagement needed on the Draft Feasibility Report in Nov/Dec 2025.
2. Reduced consultant effort to secure feedback on Draft Feasibility Report in Nov/Dec 2025:
 - No RD meeting assistance (\$6,000)
 - No newsletter (\$3,000)
 - No public workshop assistance (\$11,000)
3. \$5,000 donation from Consero Solutions
4. Wood Rodgers funds from Project contingency (amount TBD)

**Recommend public outreach
schedule and budget to SJAFCA
Board of Directors (Attachment D)
[Possible ACTION]**

Feasibility Study Update

Chapters 1 - 4

This report is structured around each step of the feasibility study planning process identified in *Guidance for Development of a State-led Feasibility Study* (DWR 2014).

Feasibility Study Chapters

1) Introduction

Project Setting, Project Background/History, Project Description, Other Related Studies and Reports, Interested Parties Engagement and Report Organization

2) Inventory and Forecast

Present Conditions and Future Without-Project Conditions

3) Problems and Opportunities

4) Goals & Objectives

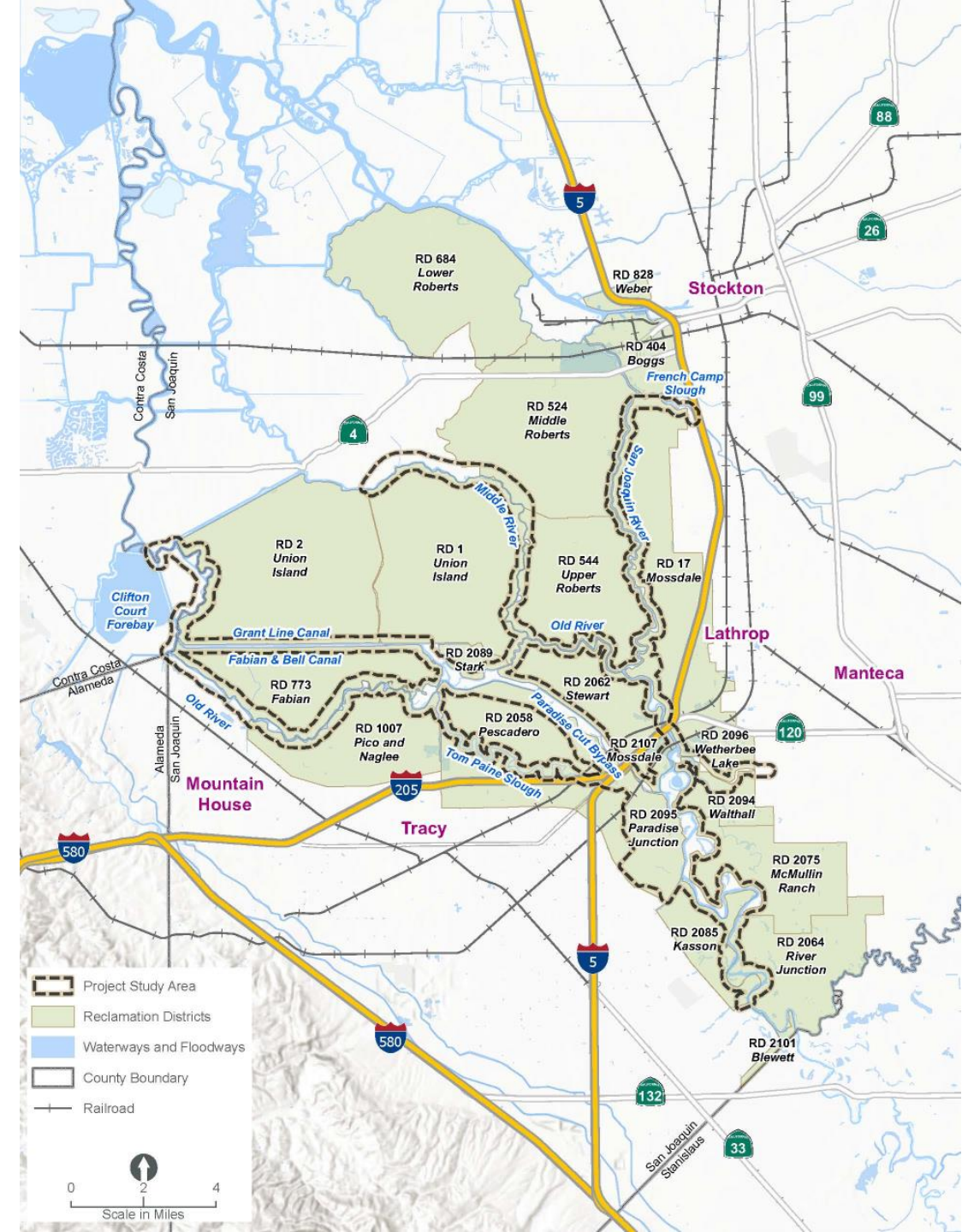
Constraints and Other Considerations

5) Formulation of Preliminary Alternatives

6) Evaluation and Comparison of Final Array of Alternatives

7) Recommendation and Implementation

Project Financial Plan and Recommended Next Steps



Chapter 1 - Introduction

- **Purpose and Scope**
 - Purpose: To evaluate the feasibility of a range of alternatives to expand the Paradise Cut Bypass.
 - Scope: To advance the study beyond previous phases and establish a foundation for environmental compliance and design development in future phases of work.
- **Phase 3 Study Area**
 - Presented 8/1 and 8/22 PCMT Meetings and 8/26 AC Meeting
- **Background and History**
- **Related Studies**
- **Engagement**



Chapter 2 – Inventory and Forecast

- An inventory and forecast of critical resources (physical, demographic, economic, social, etc.) to set the context for the problems and opportunities under consideration in the planning area.
 - **Existing Conditions**
 - 2022 Conditions (Consistent with the 2022 Central Valley Flood Protection Plan (CVFPP))
 - **Future Without-Project Conditions** – Provides the basis to assess the benefits and impacts of the proposed alternative plans.
 - Planning Horizon set to 2072 for consistency with future climate change and sea level rise assumptions from 2022 CVFPP

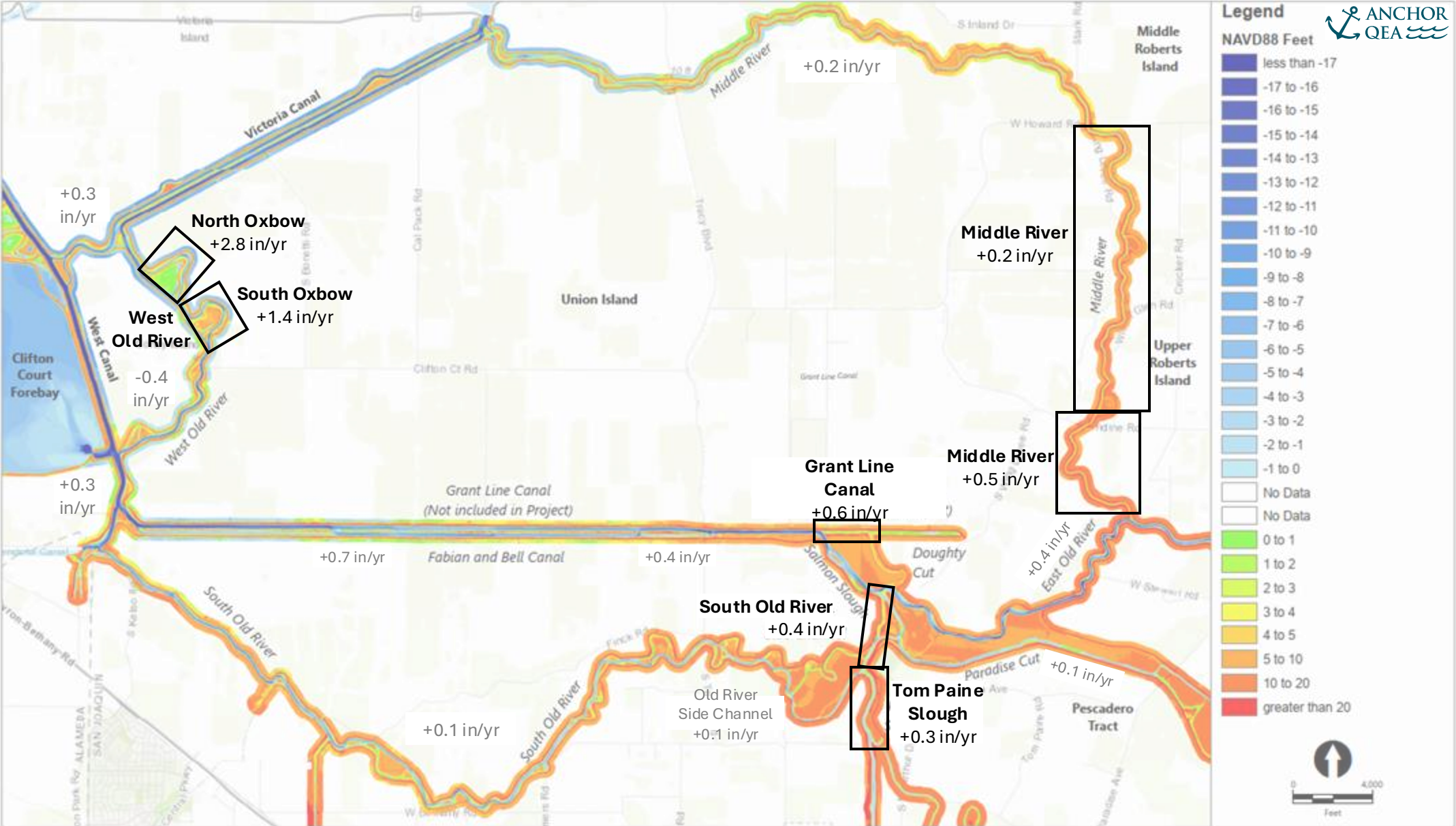
Chapter 3 – Problems and Opportunities

- **Problems – Existing undesirable condition**
 - Flood hazards
 - Loss of habitat and floodplain processes
 - Sedimentation of downstream channels
 - Climate change
- **Opportunities – Chance to create a future desirable condition**
 - Reduce flood stages on San Joaquin River
 - Lands suitable to restore habitat and ecosystem processes
 - Restoration could support regional mitigation needs
 - Beneficial reuse of sediment
 - Agriculture provides multiple benefits and ongoing land stewardship

Chapter 4 – Goals and Objectives

- Presented at 8/1 and 8/22 PCMT Meeting and Approved at 8/26 AC Meeting
- **Goals – Desired end state of the project**
 - Increase flood system resiliency in the South Delta;
 - Restore habitat and ecosystem functions necessary for climate resilience; and
 - Improve water supply reliability and resilience to climate change by supporting more flexible water supply management.
- **Objectives – More specific and narrowly defined ways to achieve goals**
 - Reduce catastrophic flood risk for communities including Lathrop, Manteca, and Stockton;
 - Protect farms from uncontrolled flooding;
 - Restore and improve the quantity, diversity and connectivity of riverine, floodplain, riparian, and wetland habitat for native fish and wildlife; and
 - Improve irrigation intake reliability and waterway navigability.

South Delta Channel Reaches with Threatened Diversions and Relatively High Sedimentation Rates

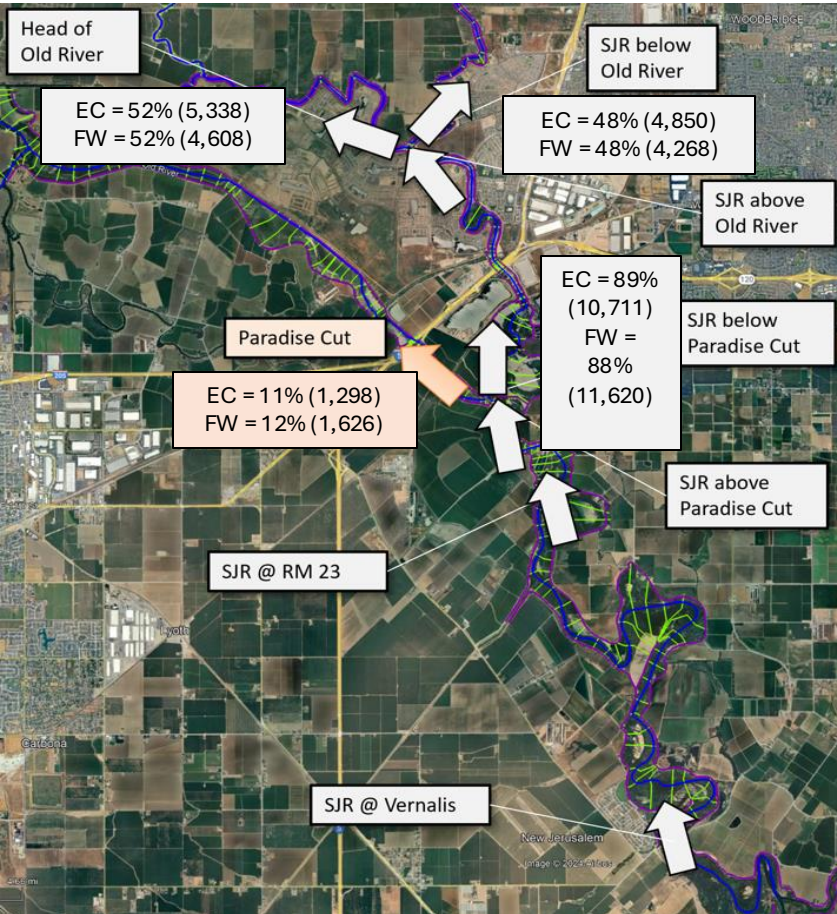


Notes: Sedimentation estimates based on survey data from various years ranging from 1988 to 2022. Relatively high sedimentation in North and South Oxbows due to high channel bank sedimentation.

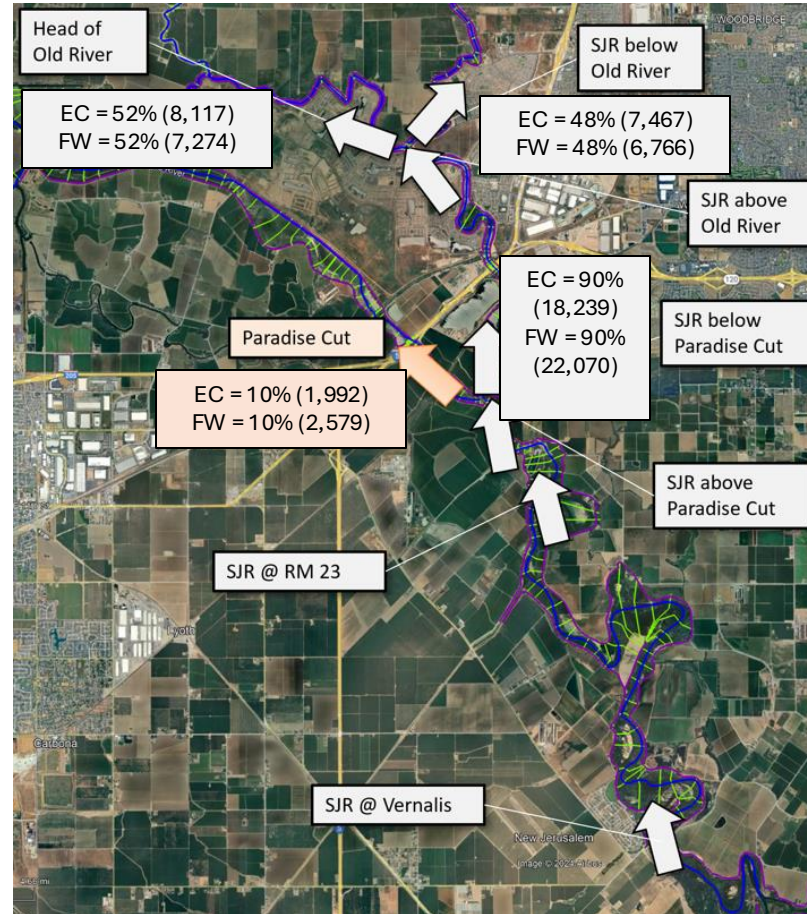
Figure 3
CP/DWR 2022 Bathymetry Collected Between December 2021 to August 2022
Paradise Cut Bypass Expansion and Multi-Benefit Project Feasibility Study

Sediment Transport Proportion and Rate (CY/day)

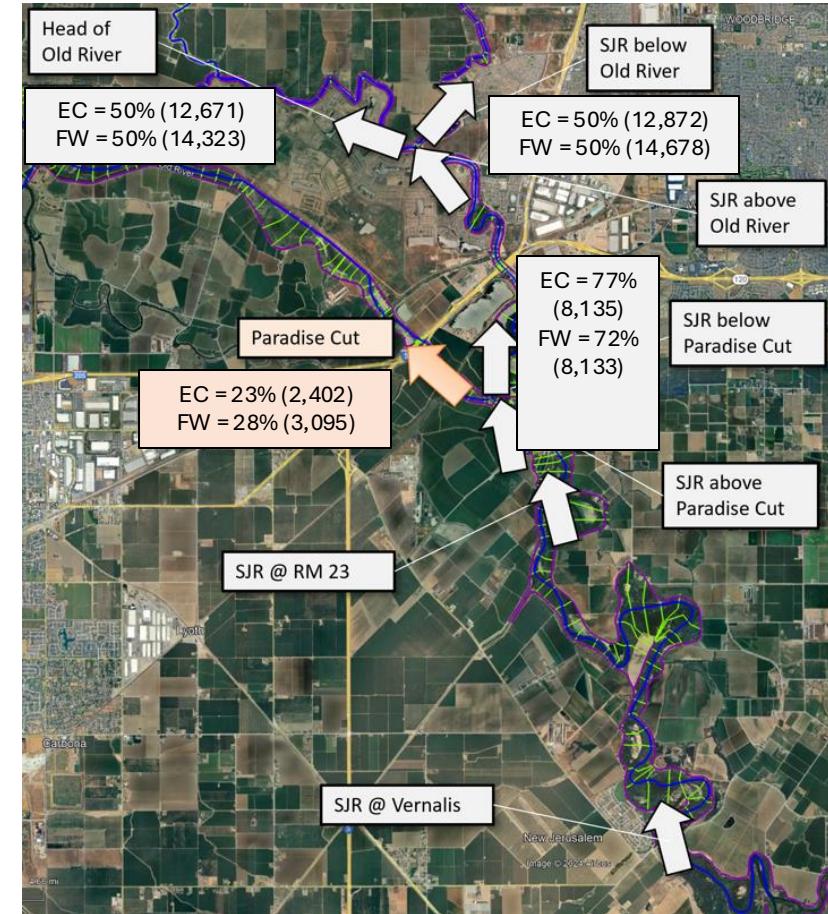
1/100 AEP



1/200 AEP



1/200 AEP + CC



EC = Existing Conditions (2024)

FW = Future Without project (EC + RI Phase 2 Stage 2+ Mossdale UFFR + restored PC weir)

CC = Climate Change (2072 CVFPP projections)

Climate Change Hydrology

- Future conditions – Planning horizon set to 2072 for consistency with future climate change and sea level rise assumptions from 2022 CVFPP
- Mossdale UFFR – Using 2017 CVFPP sea level rise and midlevel climate change hydrology interpolated for year 2045 (202k cfs at Vernalis).
- USACE – Using 2085 sea level rise. Flow at Vernalis is similar to existing 200-year (98k cfs at Vernalis).
- PCFS – Our initial draft of existing and without project conditions included:
 1. 1955 design flow
 2. 1997 event, which is similar to the 100-year but includes the actual levee breaks that occurred during the flood event
 3. 100-year (does not include levee breaks, only overtopping)
 4. Existing 200-year (97k cfs at Vernalis) with existing conditions sea level.
 5. Existing 200-year with CVFPP 2072 SLR
 6. 200-year with 2022 CVFPP 2072 midlevel climate change hydrology (306k cfs at Vernalis) and 2022 CVFPP 2072 SLR.

Climate Change Hydrology (Continued)

SJAFCA has asked the team to add the Mossdale UFRR design which is 2017 CVFPP midlevel climate change hydrology interpolated for year 2045 (200k cfs at Vernalis) and 2017 CVFPP sea level rise.

Our existing scope included analyzing five flood events.

Currently evaluating six flood events. Adding Mossdale UFRR would be seven.

- Propose to eliminate:
 - The 1997 event since it is similar to the 100-year event, and
 - The existing 200-year with CVFPP 2072 SLR

Review Schedule

- Final Consultant Team review and revisions through 11/18
- Technical Review Panel (TRP) and Paradise Cut Management Team (PCMT) Review – 11/18-12/6
- Revisions by Consultant Team 12/9-12/13
- Advisory Committee Review – 12/16-1/3

Next Steps

- Near term focus – Develop list of measures, develop screening criteria, form into alternatives
- Next AC Deliverable – Chapter 5 –Development of Preliminary Alternatives – April 2025
- Guidance from the AC on what the PCMT should be considering as part of alternatives formulation

SJAFCA Update

California Department of Water Resources, Central Valley Flood Protection Board, and Delta Conservancy Updates

Advisory Committee Comments

Public Comments

2025 Advisory Committee Meetings



April 21, 2025



August 25, 2025



September 22, 2025



December 15, 2025

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