







Delta Conservation Framework

FOR THE SACRAMENTO-SAN JOAQUIN DELTA, YOLO BYPASS AND SUISUN MARSH – 2017-2050











Meeting Overview

Desired Meeting Results

- Seek stakeholder feedback on the public draft of the Delta Conservation Framework.
- Encourage a dialogue among the varied Delta stakeholders that can be continued into the future

Guidelines

- ► Listen Courteously
- Speak Candidly and Concisely
- Suspend Certainty
- ▶ Be Present

Agenda

1:00/35 Welcome, Overview & Update to the

Framework

1:35/20 Q&A

1:55/5 Prepare for Chapter-specific discussions

in Small Groups

2:00/75 Chapter Specific Discussions

3:15/10 Break

3:25/30 Small Group Report Outs

3:50/5 Wrap up and Close



A Common Vision for the Delta

▶ In 2050, the Delta is composed of resilient natural and managed ecosystems situated within a mosaic of towns and agricultural landscapes, where people prosper and healthy wildlife communities thrive.



A Call to Action

Work together and develop resilient solutions for the future that integrate the needs of all Delta stakeholders with conservation over the long-term.



Importance

- NOT A PLAN
 - ▶ Non-regulatory
- Approach focused on finding common ground
 - "Floating all boats"
 - ▶ Public lands first
- Regional collaborative partnerships
 - Invitation to willing Delta stakeholders to participate
 - Cross-sector collaboration opportunity



Purpose

- Common Vision for 2050
- ► California Water Action Plan
- ▶ Delta Reform Act
 - ▶ Inform Delta Plan ecosystem chapter amendment
- High-level goals for Delta conservation
 - Strategies and objectives for long-term, landscape-scale solutions
- Beyond California EcoRestore



Delta Conservation

- Protection, enhancement, and restoration of ecological function of Delta ecosystems and their services
- AIM: Achieve system-wide multi-benefits by integrating with watershed management, agricultural practices, flood protection, and recreation.



Tackling Delta Challenges

▶ People and Place

► GOAL A: Stakeholder communication and socio-economic considerations

► GOAL B: Public education and state/national outreach campaigns

► GOAL C: Multi-benefit conservation solutions

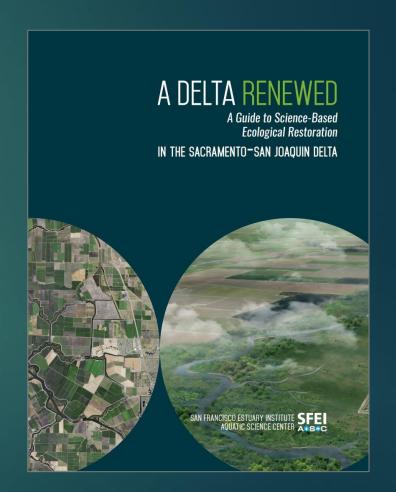


Tackling Delta Challenges

▶ Ecosystem Function

► GOAL D: Improving ecological processes for ecosystem function

▶ GOAL E: Science-based decision-making and coordinated adaptive management

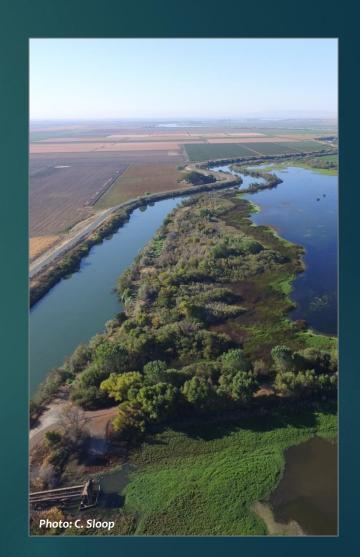


Tackling Delta Challenges

► Facilitating Conservation Implementation and Management

▶ GOAL F: Improved capacity and approaches for project permitting

► GOAL G: Secure long-term funding to support conservation



Document Layout



Section I

Background, Purpose Vision, Principles, Focus

Section II

Community Integration Goals A B C

Section III

Ecosystem
Function
Goal D

Section IV

Conservation
Based in Science
Goal E

Section V

Permitting Funding **Goals F G**

Section VI

Path forward, Partnerships,
Processes & Tools
Regional Conservation
Strategies

Appendices

Appendices

I. Goals, Strategies, Objectives VI. Workshop Summaries

XI. Species Recovery
Briefs

II. COR Overviews

VII. Existing Plans

XII. Ecosystem/ Habitat Types

III. BDCP Conservation Measures

VIII. Current Delta Plan Alignment XIII. Regulatory Compliance and Permitting

IV. California EcoRestore

IX. Good Neighbor Checklist

XIV. Grants

V. Delta Plan Amendment Nexus X. Wildlife-friendly Agriculture

XV. Planning Tools

Conservation Opportunity Regions

SUISUN MARSH

2 Conservation Opportunity Region Overview

The 116,000-acre Suisun Marsh (Marsh) is a key area of public focus for many short- and long-term planning processes. The Marsh is located at the western edge of the Delta, downstream of the Sacramento–San Joaqui River Delta. and the eastern edge of the San Francisco Bay, in Solano County. The Marsh lies within a unique geographic mixing zone of the fresh water outflow of the Central Valley and the tidal mixing of salt water from the San Francisco Bay, creating a unique and ecologically rich brackish wetland complex. Located downstream

1 North Delta

3 Regional Setting

29 Planning History

PUBLIC DRAFT

2 Conservation Opportunity Region Overview

with its own unique and rich past. These legacy towns and

Hood, Courtland, Isleton, Walnut Grove, Ryde, and Locke.

These communities support, and are in turn supported by, long-standing and diverse agriculture, including grapes,

pears, and corn, and a number of high-value ecosystems

portion of the region, Stone Lakes National Wildlife Refuge¹ (NWR) is partially owned and managed by the U.S.

authorized to acquire, protect, and manage land.

Established as a NWR in 1992, the unique lakes and

100-year floodplain. Its strategic location buffers urban

encroachment into the Delta and provides a habitat link

supporting people and wildlife. Located in the northeast

Fish and Wildlife Service (USFWS) and comprises a 17.640acre area in the North Delta within which the USFWS is

A diverse and historical part of California, the North Delta region is characterized by legacy towns and surrounding

with the neighboring Cosumnes River Preserve. Extending from Clarksburg, Elk Slough, another feature of the North Delta, provides a combination of floodplain, riparian, and channel margin habitat for Delta wildlife. The Elk

Slough riparian ecosystem remains as one of the most intact of its kind in the Delta. Together and connected with

proximity of the Sacramento River and its tributaries, including the American River, there is inherent flood risk in

In 2016, as partial implementation of the Delta Reform Act of 2009 and Chapter 5 of the Delta Plan, and improving

upon the "Delta as evolving Place" concept contained in Water Code § 85054, the Delta Protection Comm nunity Action Plans for three main north Delta communities: Clarksburg, Walnut Grove and

Courtland. 3A.5 These plans lay out goals and actions with implementation steps based on the issues and idea

transporation, communications, community amenities, public safety, housing and infrastructure, and all-age

generally voiced an appreciation for the open spaces, fresh air, and scenic views the Delta provides; the generative and apportunities local residents and tourists can enjoy; and a desire to expand access to the river and other natural areas. Community members also valued the economic benefits of tourism related to local culture nature, and agriculture, particularly the festivals and events in connection to the arrival and celebration of sandhill

community members shared during interviews and community surveys. The main themes of the plans include

education opportunities. Although they do not include a specific focus on conservation, community members

cranes (Antigone congdensis). However, balancing tourism with maintaining a living community and working

agriculture, and with adequate law enforcement is also of critical importance. Community members also voiced concerns over the resolution of big issues such as flood insurance, California WaterFix, and aquatic invasive

Sutter and Steamboat Sloughs to the south, Elk Slough connects back to the Sacramento River near Rio Vista providing an alternative migratory route for salmonids headed to or from the Sacramento River. Due to the

the Sacramento-San Joaquin Delta, the Marsh is a mosaic of brackish tidal and managed wetlands, bays, and sloughs an extensive uplands that provide habitat for resident and migratory fish and wildlife; resources; and also supports significant private

The Marsh is protected under the 1974 Suisu Marsh Preservation Act and the 1976 Suisur Marsh Protection Plan to "preserve the and maintain habitat for waterfowl, Primary land uses in the Marsh are the conservation 52,000 acres of managed wetland and wildlife habitat as waterfowl managemen areas and duck clubs. The Marsh is a principal rea for wintering waterfowl of the Pacific

Flyway and is the largest contiguous brackish marsh remaining on the Par United States, and it represents approximately 12 percent of California's of public and privately owned lands. The largest public landowner is Calif (CDFW), managing over 15,000 acres of wildlife management areas and r complex. The exterior levees of the Marsh's managed wetlands not only s values of the Marsh, but also protect California's Delta water supply from and public infrastructure. Significant examples of infrastructure in the M Amtrak Capitol Corridor, the petroleum product pipelines, Solano County ion ninelines, electrical transmission lines, and the Departmen ureau of Reclamation (Reclamation) water conveyance facilities

The Marsh has also been identified as an area with high potential for tidal elevations, location in the estuary, abundance of undeveloped existing in turbidity, high primary and secondary productivity, and use by Delta sme salmon (Oncorhynchus tshgwytschg), and other native fishes. Both feder the Marsh as a prime area to advance habitat conservation to benefit en Joaquin Delta. Located below the Sacramento-San Joaquin River Delta, th further upstream, especially modification to state and federal water cor use, the location of X2, salt water intrusion, and habitat restoration proj

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1 YOLO BYPASS

2 Conservation Opportunity Region Overview

3 Regional Setting

Constructed about 100 years ago to divert floodwaters on the Sacramento River, the 59,000-acre flood management area, reducing the risk of flooding in the Sacramento region through a system of weirs (Figures 1 & 2). These weirs connect the Yolo Bypass to the Sacramento River to the north (Fremont Weir, Figures 1 & 3) and to the east (Sacramento Weir), with additional inflows from various local creek bypass waters. The bypass

ultimately drains into the Cache



Slough Complex and Sacramento-San Joaquin River Delta to the south. Fremont Weir overto approximately 70 percent of flood seasons between 1934/35 and 2011/12, augmenting flows from western tributaries.

lands, with wetlands that are managed for migratory waterfow

ing rice, tomatoes , the Yolo Bypass is odplain habitat to recovering the hing industry. The terstate 80) is scludes the Fremon s. The southern a mosaic of private s Wildlife Area. ern parts of the Yolo



CACHE SLOUGH COMPLEX

2 Conservation Opportunity Region Overview

The Yolo Bypass/Cache Slough region (YBCS) is a key area of public focus for many short- and long-term planning processes. The 53,000-acre Cache Slough Complex (CSC) is located in the northwest corner of the Sacramento-Sar Joaquin River Delta in Solano and Yolo counties, at the downstream end of the YBCS, and is an integral part of the regional landscape, hydrology, and flood planning (Figure 1). It links directly to the Sacramento River via Miner and Steamboat Sloughs, while low-lying grasslands and seasonal wetland/vernal pool complexes separate it from the northeast corner of Suisun Marsh.

The CSC has been identified as an area with potential for tidal restoration as a result of its connectivity with the Yolo Bypass floodplain, suitable elevations, high turbidity, high primary and secondary productivity and use by Delta smelt (Hypomesus transpacificus), Chinook salmon (Oncorhynchus tshawytscha), and other native fishes. Both federal and state wildlife agencies consider the CSC as a prime area to advance habitat conservation to benefit endangered species in the Sacramento-San Joaquin Delta and incorporate improvements to the regional flood, management system (Figures 2 & 3).

Primary land uses in the Cache Slough Complex region include agriculture, local and regional flood water supply for local agriculture and regional



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pect Island, and Lindsey S

forts are under way thro

e effectiveness of floodpli

CENTRAL DELTA CORRIDOR PARTNERSHIP

2 Conservation Opportunity Region Overview

3 Regional Setting and Management History

The Central Delta Corridor (Figure 1) is characterized by lakes, floodplain, and tidal wetland areas within the Stone Lakes National Wildlife Reluge (NWR), Cosumnes River Preserve (RP), and the Cosumnes-Mokelumne river confluence to the north and northeast; deeply subsided islands' southward [Staten, McCormack-Williamson Tract, Bouldin, Webb, Holland, Bacon, Twitchell, Sherman, and Decker; and the Boded Franks Tract Recreation Area (Figure 2). The integrity of central Delta island levees is critically important due to their strategic position in the Delta. This single characteristic drives much of the vision and opportunities for conservation in the area. The region is crisscrossed by transmission lines, natural gas transmission and underground storage facilities, and shipping lanes. These infrastructure assets can represent significant constraints when converting agricultural land use to subsidence reversal actions that can store carbon by planting of certain crops, provide revenue, and provide wildlife habitat and the notential for habitat restoration.





SOUTH DELTA

Conservation Opportunity Region Overview

The south Delta region is predominately characterized by agriculture, bordered by the cities/towns of Brentwood Discovery Bay, Tracy, and Vernalis to the west and Manteca, Lathrop, and Stockton to the east. The main aquati

and Old Rivers, connecting the south Delta to the central Delta islands and confluence with the Sacramento River Most of the island areas in the northern portion of the south Delta are subsided, while land in the southern or above sea level. The San Joaquin River National Wildlife Refuge² is located southeast of Vernalis along the San Inaquin River, and Caswell Memorial State Park is situated east of the Stanislaus River confluer Paradise Cut is a slough west of Lathrop that, with sufficient flow, bounds Stewart Tract on the south and downstream. Historically, it was one of the chief distributary branches of the San Joaquin River, Twice during the 19th century, the main floodwaters of the Sar Joaquin River flowed through Paradise Cut and will likely do so again during exceptionally high-flow years. Paradise Cut plays a critical role in protecting the R Islands development from flooding and directing floodwaters away from the urbanizing floodolains Lathron and Stockton. An extended floodway also



levees could be built, set well back from the bank of Paradise Cut, with a strip seven miles long and at least 1,000 feet wide, open to seasonal inundation. This could offer the potential for riparian forests to reestablish, as well as for

The Paradise Cut Expansion, also called Lower San Joaquin River Bypass (LSJRB), represents a multi-benefit project in the south Delta that could provide increased flood protection and alleviate constrained riparian reestabling along the San Joaquin River, thereby enhancing river and floodplain ecosystems. A suite of studies, spanning 15 years, evaluated its feasibility (see text box below). In 2007, Senate Bill 5 directed the DWR and Central Valley Flood Protection Board to evaluate the feasibility of significantly reducing flood stage in the San Joaquin River watershed upon one department of evaluation of evaluation

In 2016, the San Joaquin County Resource Conservation District (SJCRCD) received Proposition 1 funding support from the Sacramento-San Joaquin Delta Conservancy for the development of the Paradise Cut Conse

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CONTRA COSTA

2 Conservation Opportunity Region Overview

Contra Costa County is a unique region characterized by open space and beautiful vistas, where the Bay Area, Delta, and Central Valley meet. Its convenient location near the San Francisco Bay Area, its natural beauty, and a mild climate have led to rapid human population growth with a predicted increase of 127,000 people in Contra Costa County by 2025. While retaining a rural lifestyle, eastern Contra Costa county provides new housing, jobs, farms, and ranches. Contra Costa County is also habitat for endangered species, where a significant portion of this growth will occur, creating a potential conflict between conservation and economic development. The <u>East Contra Costa County Habitat</u>

<u>Conservation Plan/Natural Community Conservation Plan</u> (ECCC HCP/NCCP)¹ seeks to avoid such conflict by providing an opportunity to preserve diverse ecosystems, unique species, and scenic landscapes while clearing regulators



The Contra Costa conservation opportunity region includes areas identified in the ECCC HCP/NCCP, and also includes the Three Creeks Parkway Restoration Project, and the Contra Costa shoreline containing Antioch Dunes National Wildlife Refuse, Big Break Regional Shoreline, and Dutch Slough Tidal Marsh Restoration2, The ECCC HCP/NCCP was treatments actions because the provide regional conservation and detailments and the provide regional conservation and detailments are treatment and a natural resources while improving and streamlining the permit process for endangered species and wetdom regulations. Other is 50 rare species occur the East County area, including the East County are draytonil), Alameda whipsnake (Mosticophis loteralis eurysanthus), western burrowing owl (Athere cunicularia hypugeo), vernal pool fairy shrimp (Branchinecto Junoh), and Mt. Diablo belianthella [Heilanthellic castaneo]. With the 174,018 ace inventory area, the ECCE HOPNICE will provide permits for between 8,670 and 11,853 acres of the 174,018 acre inventory area, the ECCE HOPNICE will group eprmits for between 8,670 and 11,853 acres of the 174,018 acres inventory area. development and will authorize an additional 1 126 acres for rural infrastructure projects. 1 The ECCC HCP/NCCP Preserve System to be acquired will encompass 23,800 to 30,300 acres of land that will be managed for the benefit of

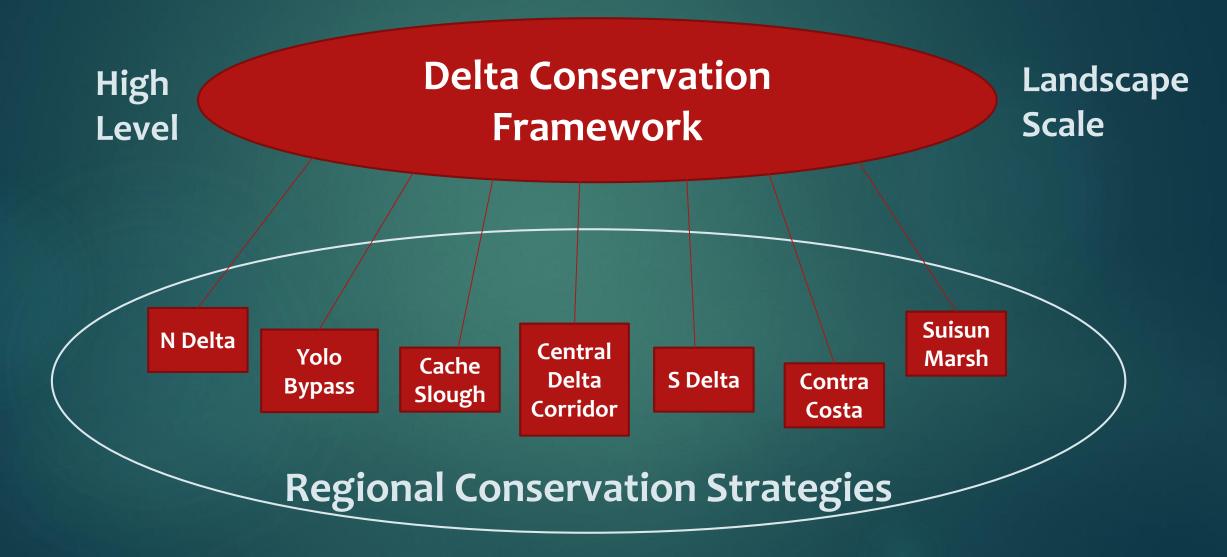
Collaboration

Regional Partnerships

Examples:
Suisun Marsh
Cache Slough
Central Delta Corridor

Agencies State Regional Delta Local Conservation Community/ Agencies Strategy Public

The Way Forward



Regional Partnership Process

Best Available Alternatives Evaluation Interest 1 Science Interest 6 Interest 2 Scenario 1 Needs **Decision** Information **Common Goal** Analysis Exchange Scenario 2 Stakeholder Interest 3 Strategies to Reach Common Prioritization Scenario 3 Interest 4 Goal by Scenario X

Workshops

1 - WHY?

Purpose & Principles

Vision

2 - WHAT?

Conservation Topics

Challenges

Solutions

Goals

"A goal without a plan is a wish!"

3 - HOW? WHEN? WHERE?

Strategies

SMART Objectives

Conservation
Opportunity
Regions

Opportunities for Reaching Goals

4 - WHO?

Regional Partnerships



Workshop 1 – Why?

Section I

Purpose & Principles

Vision

Workshop 2 – What?

Section I

Conservation Topics

Sections II-V

Challenges

Coals

Solutions

Goals

"A goal without a plan is a wish!"

Workshop 3 – How? When? Where?

Sections II-V Appendix I

Appendix II

Strategies

SMART Objectives

Conservation
Opportunity
Regions

Workshop 4 – Who?

Section VI

Regional Partnerships Opportunities for Reaching Goals

Finding Common Ground

Regional Planning/Implementation Partnerships

- Integrated and collaborative approach
- Open invitation to stakeholders
- Consider new possibilities and approaches

Regional Conservation Strategies/Plans



"Perfecting the art of broad buy-in requires ego management and humility to transcend our own limitations and engage in nontraditional partnerships."

K. Tjernell – Natural Resources Agency Regional Partnerships

