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#### **Need for a Delta Vision**

The current combination of Delta-Suisun Bay and Marsh (Delta-Suisun) uses, resources, and ecosystems are unsustainable. Planning efforts and legislation document how changing environmental, hydrologic, climatic, and land use conditions can jeopardize the Delta-Suisun's natural and human infrastructure under current regulatory requirements and management practices<sup>1</sup>. Most of these planning efforts for the Delta-Suisun offer a fragmented assessment and outlook for those areas. Decision makers recognize that prior Delta-Suisun strategic planning efforts may have been too narrowly focused and a more holistic assessment and response strategies are needed.

Public and media awareness and concern about Delta-Suisun vulnerabilities were heightened after the "fair weather" Lower Jones Tract levee break in 2004 and the devastation to New Orleans and the Gulf Coast from Hurricane Katrina in 2005. Recent legislation was passed in 2005 to assess current and future risks to the Delta-Suisun and to identify ways to reduce the risks and their consequences.

The Delta Vision Process (DVP) is the outcome of these past findings, growing public concern, and recent legislation.

#### **PURPOSE**

#### Goals

- Develop a durable Delta and Suisun vision that provides for the sustainable (100 years or more) use and protection of the Delta, Suisun Bay and Suisun Marsh.
- Develop a strategic implementation plan to achieve that common vision, including recommendations for public policy, resource management, levee maintenance, and funding options.

California Water Plan Update 2005
CALFED Bay Delta Program 10-Year Action Plan Framework
Flood Warnings: Responding to California's Flood Crisis, DWR
AB 1200 (Water Code Sections 139.2 and 139.4)
Review of the CALFED Bay-Delta Program, Little Hoover Commission
Blueprint for California Water, Association of California Water Agencies
Investment Strategy for California Water, Planning and Conservation League
Habitat Management, Preservation, and Restoration Plan for Suisun Marsh
How a Delta Earthquake Could Devastate California's Economy, DWR, 2006 Hearing

<sup>1</sup> Planning efforts and legislation document need for a Delta Vision

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# **Objectives**

Key objectives of the DVP are to:

- Define and understand uncertainties, that is, threats to the continued sustainable use
  of the Delta-Suisun, and to the protection of its environmental resources.
- Identify, evaluate, rate and coordinate existing local, state, and federal efforts to address these uncertainties.
- Use science (biological, physical and chemical sciences) to assess risks and define how to reduce uncertainties.

The Delta Vision Process (DVP) will help coordinate existing, federal, state and local programs, policies and plans to enhance the quality of life of those who live, work, recreate, and depend on the Delta-Suisun. The DVP shall encompass and integrate many ongoing but separate planning efforts, programs, and policies that affect the following array of uses and resources in the Delta-Suisun:

- The environment, including aquatic and terrestrial functions and biodiversity.
- Land use and land use patterns, including agriculture, urbanization, and housing
- Transportation, including streets, roads, highways, waterways, and ship channels
- Utilities, including aqueducts, pipelines, and gas and electric transmission corridors
- Water supply and quality, municipal and industrial discharges and urban and agricultural runoff
- Recreation and tourism, including boating, fishing, and hunting and visitor serving facilities
- Flood risk management, including levee maintenance
- Emergency response and law enforcement
- Local and state economies

The DVP will develop the following elements of the Delta Vision.

- Guiding principles
- Findings and recommendations for sustainable management of Sacramento-San Joaquin Delta
- Findings and recommendations for institutional changes
- Recommendations for long-term financing strategies
- Framework to track, update and adapt the Delta Vision and Strategic Plan

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The DVP will result in an overall vision and strategies for sustainable management of the Delta-Suisun. It will develop specific guidance regarding public investments for levee risk reduction. However, the DVP will <u>not</u> provide site or project specific recommendations or detailed designs.

The DVP will produce a number of interim reports, as well as a Delta Vision Report, and a Delta Strategic Plan by December 31, 2008 (see Attachment A – DVP Products and Schedule). The Lead Cabinet Secretaries will review the reports and then submit to a Blue Ribbon Task Force to make its findings and recommendations. The Blue Ribbon Task Force will submit the final reports to the Governor and Legislature for future action.

#### **Blue Ribbon Task Force**

The Governor will appoint a **Blue Ribbon Task Force** to direct the Delta Vision Process. The Task Force will consist of 7 to 9 policy and resource experts, and is charged to make difficult policy and resource decisions, and to report findings and recommendations on a durable vision and strategic plan for sustainable management of the Delta and Suisun. The Task Force will be informed by current scientific information and broad stakeholder input as it develops recommendations regarding:

- Public policy, resource management, and levee maintenance options
- Public and private investment strategies
- Delta-Suisun preparedness and emergency response plan
- Framework for monitoring, measuring and reporting performance of the Delta Strategic Plan

# **Guiding Principles**

Guiding principles for Delta-Suisun management will be developed in the visioning process to address the fragmented state, regional and local planning programs and policies. The guiding principles represent the essential standards and assumptions used to guide the development, refinement, evaluation and selection of the Delta Vision components and future Strategic Plan.

The guiding principles will be in concert with legislative authority, executive directive and the public including local governments and responsible agencies in the region. The basis for the guiding principles is risk assessment and technical criterion.

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#### **WORK PLAN**

# **Organization and Process Design**

The Secretaries of the Business, Transportation and Housing Agency and Resources Agency shall serve as Co-Leads of four Cabinet Sponsors for the DVP. The other sponsors are the Secretary of the Department of Food and Agriculture and the Secretary of the California Environmental Protection Agency. (see Attachment B - DVP Organization Chart and Work Group Detail). The DVP Cabinet Sponsors will seek the advice of other cabinet members as needed and will seek key members of the Legislature for advice and information, particularly those who represent a portion of the Delta-Suisun.

The **DVP Core Team** is composed of the Program Manager, staff, facilitators and other consultants. The Core Team will prepare the work plan, task list, schedule, budget, and manage day to day tasks and help prepare interim and final reports (see Attachment C – DVP Task List).

The **Delta Science Panel** will consist of 5 to 7 scientists representing a broad range of expertise will be appointed by the Cabinet Committee. The Science Panel will review technical and scientific information before it is submitted to the Blue Ribbon Task Force.

#### **Public Participation**

#### Stakeholder Coordination Committee

Public participation is essential to the success of the DVP and local government and decision makers, state and federal agencies, and the scientific and technical community are key participants in developing the guiding principles, Delta Vision and Delta Strategic Plan. To foster broad-based participation a **Stakeholder Coordination Committee** will be established. The Stakeholder Coordination Committee will be chaired by the DVP Program Manager and consist of 20-25 representatives of participants from local government, Delta-Suisun stakeholders and general public, scientists and technical experts, and state and federal agencies. The Stakeholder Coordination Committee will plan and oversee work group meetings. The Stakeholder Coordination Committee will synthesize their products for review by the Delta Science Panel and Blue Ribbon Task Force.

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#### Stakeholder Assessment and Public Education

The DVP will encompass and integrate ongoing and concurrent planning and technical efforts, such as the Delta Risk Management Strategy (DRMS), Delta Region Ecosystem Restoration Implementation Plan (DRERIP), and Delta-Suisun Status and Trends Assessment (see Attachment D – Table of Delta-Suisun Planning Efforts).

A necessary component to this process is listening and communicating with all participants. Creative collaboration depends upon a high level of transparent hands-on technical and scientific support. Political considerations need to be identified for potential trade off and negotiations. To help integrate and inform ongoing Delta-Suisun planning efforts, the DVP will:

- Compile a list of Delta-Suisun planning efforts.
- Conduct a stakeholder assessment (see Task 5.0 in Attachment C).
- Collaborate with the Water Education Foundation (WEF) on educational workshops

#### Visualization and GIS Tools

A geographic information system (GIS) and a set of visualization tools will provide a systemic approach to assess and share the impacts of change on the scenarios. The visualization tools will help test the viability of Delta-Suisun scenarios. Criteria for viability will include the social and economic sustainability of Delta-Suisun scenarios in the face of change (see Attachment E – Proposed GIS Data Layers).

#### Reports

The DVP will produce the following reports, in addition to several interim reports to assist in developing a Delta Vision and a Delta Strategic Plan.

#### <u>Delta-Suisun Status and Trends Assessment Report</u>

The Delta-Suisun Status and Trends Assessment Report will: (1) inventory current Delta-Suisun uses, assets, and resources, and describe existing future trends over 50, 100 and 200 years, (2) describe the methods and data that are used for DRMS and a subsequent consequences analysis (technical white papers as appendices), and (3) document existing data, studies, and information gaps. Science will evaluate the viability of scenarios and associated management options. Benefits and costs distributed

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over time and across environmental, economic and social equity will be assessed. DVP staff will work with consultants responsible for Task 7.0 described in Attachment C.

#### Delta Risk Management Assessment Report

The Delta Risk Management Assessment Report will identify Delta-Suisun risks and consequences with "Business-as-Usual" in 50, 100 and 200 years and develop a framework for a Delta-Suisun contingency and emergency response plan. The DRMS Project Manager will attend the Delta Levee Subvention meetings, coordinate with the Delta Protection Commission for regional preparedness and emergency response planning and provide reports to the DVP staff. The DVP Core Team will work with the consultants responsible for Task 8.0 described in Attachment C.

#### <u>Delta Regional Ecosystem Restoration Implementation Plan</u>

The Delta Regional Ecosystem Restoration Implementation Plan (DRERIP) is one of four regional plans intended to guide the implementation of the CALFED Bay-Delta Program's Ecosystem Restoration Program (ERP) element. The DRERIP will refine the planning foundation specific to the Delta, refine existing Delta specific restoration actions and provide Delta specific implementation guidance, program tracking, performance evaluation and adaptive management feedback. The DVP Core Team will work with the DRERIP team responsible for Task 9.0 described in Attachment C.

### Suisun Marsh Habitat Management, Preservation, and Restoration Plan

The Suisun Marsh Habitat Management, Preservation, and Restoration Plan will include a strategy to protect and enhance the Pacific Flyway, existing wildlife in Suisun management wetlands, endangered species, restoration of tidal marsh and other ecosystems, water quality, and the maintenance and improvement of levees in the Suisun Marsh. The Plan will also include specific actions for an amendment to the Suisun Marsh Preservation Agreement, strategies to improve maintenance and management activities, and elements of a Regional General Permit. The DVP Core Team will work with the Suisun Marsh Charter Group responsible for Task 10.0 described in Attachment C.

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#### **Delta Vision Report**

The Delta Vision Report and its guiding principles will be the road map for the future Delta Strategic Plan. Based on the stakeholder assessment, technical reports, and visioning workshops, the DVP Core Team will draft the Delta Vision Report, including the adopted guiding principles for Delta-Suisun management, and the Blue Ribbon Task Force findings and recommendations.

The Stakeholder Coordination Committee will organize a number of visioning and scenario building workshops for agencies, stakeholders and scientists. Visioning and scenario building workshops will be guided by science-based advice to the visioning processes. DVP staff will inventory and catalogue the scientific information and criteria from DRMS, DRERIP, Status and Trends Assessment, and other Delta-Suisun studies to identify: 1) high confidence information, 2) knowledge where science is in flux that could provide inconclusive but useful advice, and 3) topics that are not ready for this visioning effort (see Tasks 11.0 and 12.0 in Attachment C).

An initial task for the DVP will be to establish criteria by which to evaluate all scenarios for their adaptability and reversibility. For example, one criterion may be to give a higher rating to plans that can be phased and tested before full-scale implementation because generally these will have a much greater chance of success.

#### Delta Strategic Plan

The Delta Strategic Plan will specify actions to meet measurable goals and objectives, performance imperatives, implementation responsibilities, institutional arrangements for oversight, management, monitoring, reporting and enforcement, and performance standards for land use, and a strategic financing plan for public investments and nexus with beneficiaries. The Strategic Plan will include related findings and recommendations from the Blue Ribbon Task Force (see Tasks 13.0, 14.0 and 15.0 in Attachment C; and see Attachment F - Outline of the Final Delta Strategic Plan).

# Attachments for Delta Vision Process Work Plan August 9, 2006

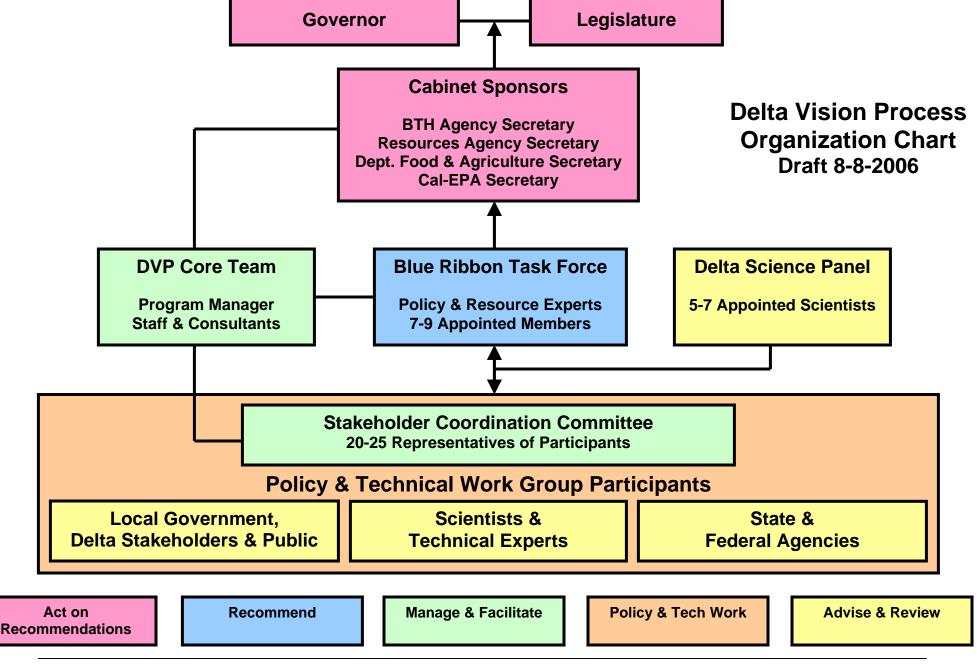
- A Products and Schedule
- **B Organization Chart & Work Group Detail**
- C Tasks List
- **D Table of Delta-Suisun Planning Efforts**
- **E Proposed GIS Data Layers**
- F Outline of Delta Strategic Plan

# **Delta Vision Process Proposal**

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# **Products & Schedule**

DVP Products	Due Date
Delta Vision Process Work Plan      Goals and objectives     Tasks, products, and schedule     Budget	August 2006
<ul> <li>Delta Stakeholder Assessment Report</li> <li>Inventory of Delta and Suisun planning efforts</li> <li>Inventory of stakeholder interests, including roles and responsibilities of State, federal and local governments</li> <li>Areas of substantial agreement and competing interests among stakeholders</li> <li>Perceived information and data gaps</li> <li>Proposal for the Delta Vision public process design</li> </ul>	September 2006
<ul> <li>Delta Status &amp; Trends Assessment Report</li> <li>Inventory of current Delta and Suisun uses, assets, and resources</li> <li>Description of existing future trends over 50, 100 &amp; 200 years</li> <li>Description of methods and data that are used for the Delta risk assessment and consequences analysis (technical white papers as appendices)</li> <li>Inventory and documentation of existing data, studies, and information gaps</li> </ul>	November 2006
<ul> <li>Draft Delta Risk Assessment Report</li> <li>Delta risks and consequences with Business-As-Usual in 50, 100 &amp; 200 years</li> <li>Draft Delta Preparedness and Emergency Response Plan</li> </ul>	January 2007
<ul> <li>Draft Delta Vision Report w/ Initial Task Force Recommendations</li> <li>Draft vision for sustainable management of Sacramento-San Joaquin Delta</li> <li>Draft policy &amp; management options for reducing risks and consequences</li> </ul>	June 2007
<ul> <li>Final Delta Vision Report with Final Task Force Recommendations</li> <li>Vision for sustainable management of Sacramento-San Joaquin Delta</li> <li>Policy &amp; management options for reducing risks and consequences</li> </ul>	January 2008
<ul> <li>Draft Delta Strategic Plan w/ Initial Task Force Recommendations</li> <li>Vision for sustainable management of Sacramento-San Joaquin Delta</li> <li>Strategic Plan with recommendations on:         <ul> <li>Public policy, resource management, and levee maintenance options</li> <li>Public &amp; private investment strategies</li> <li>Delta Preparedness and Emergency Response Plan</li> <li>Framework to track and update the Strategic Plan</li> </ul> </li> </ul>	June 2008
Final Delta Strategic Plan w/ Final Task Force Recommendations  • Strategic Plan after incorporating comments from public workshops	Dec. 31, 2008



# **Topics:**

# **Stakeholder Coordination Committee**

Delta Visioning & Scenarios
Environmental Quality & Protection
Local & State Economies
Emergency Response & Law Enforcement

Agriculture, Land Use & Housing Flood Risk Management Financing Strategies

Transportation & Utilities
Water Conveyance & Quality
Recreation & Boating

# **Participants:**

# Local Government, Delta Stakeholders & Public

- County & city governments
- In-Delta Interests
   Agriculture, communities,
   business, environment, water
   quality, recreation, boating, etc
- CA & county farm bureaus and agricultural commissioners
- Regional planning organizations
- Transportation, Shipping & Utilities
- Water agencies and associations
- Environmental organizations
- Business & building industry
- Reclamation districts
- Resource conservation districts
- Environmental Justice organization
- Tribes
- Others

# Scientists & Technical Experts

- Delta Risk Management Strategy (DRMS)
- Delta ĽŤMS
- CALFED Levee Stability Prog.
- Delta Regional Ecosystem Restoration Implement Plan
- Bay Delta Conservation Plan
- SF Estuary Comprehensive Conservation Management Plan
- Suisun Marsh Charter Group
- Pelagic Organism Decline Team
- Global Climate Change Studies
- CALFED Science Program
- Interagency Ecological Program
- BTH Research & Development
   Moreum Stretogy for Pay Delta
- Mercury Strategy for Bay-Delta
- University & Research Institutes

# State & Federal Agencies

- Delta Protection Commission
- CALFED Agency Directors
- Dept. of Food & Agriculture
- Dept. of Conservation
- Reclamation Board
- CALTRANS
- Housing & Comm. Development
- Central and SF Regional WQCB
- Office of Emergency Services
- Dept. of Boating & Waterways
- Dept. of Parks & Recreation
- SF Bay Conservation & Development Commission
- State Lands Commission
- Water Commission
- Others

Act on Recommendations

Recommend

Manage & Facilitate

**Policy & Tech Work** 

**Advise & Review** 

### **Delta Vision Process Tasks**

#### For Discussion Only

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#### **Draft Tasks List**

(Highlighted actions have begun)

#### 1.0 Project Set-Up

- 1.1 Delta Vision Process Work Plan
- 1.2 Approval

#### 2.0 Project Administration

- 2.1 Select DVP Core Team members and consultants
- 2.2 Identify and Request staff from Cabinet Sponsors
- 2.3 Select DVP Project Manager
- 2.4 Prepare Budget and Schedule
- 2.5 Coordinate IT Needs and DVP Web Portal
- 2.6 Develop and Maintain Documents Retention
- 2.7 Identify Legislative and Executive Roles

#### 3.0 Blue Ribbon Task Force

- 3.1 Select panelists
- 3.2 Develop Work Plan
- 3.3 Review of Task Force of Delta Vision Report pursuant to agreed upon protocols
- 3.4 Report of Blue Ribbon Task Force Findings and Recommendations

#### 4.0 Communications

- 4.1 Develop Communications Strategy for DVP
- 4.2 Coordinate Editorial Review
- 4.3 Develop brochures, newsletters, and printed material other than reports or speeches
- 4.4 Coordinate media relations with Delta-Suisun state planning efforts
- 4.5 Coordinate stakeholder outreach

#### 5.0 Public Participation Process and Products

- 5.1 Coordinate and integrate ongoing Delta-Suisun state planning efforts
- 5.2 Conduct stakeholder assessment
- 5.3 Establish Stakeholder Coordination Committee
- 5.4 Develop Visualization/GIS data and tools
- 5.5 Decide scope of problem for Delta Vision and future Strategic Plan
- 5.6 Create digital library for Delta-Suisun Atlas
- 5.7 Coordinate with WEF for Quarterly Workshops throughout the State

#### **Delta Vision Process Tasks**

#### For Discussion Only

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#### 6.0 Local Government Coordination

- 6.1 Coordinate with Delta Protection Commission to involve local government with land use jurisdiction
- 6.2 Establish liaison with the Stakeholder Group Coordination Committee

#### 7.0 Delta-Suisun Status and Trends Assessment

- 7.1 Prepare inventory of current Delta-Suisun uses, assets, and resources
- 7.2 Describe existing future trends over 50, 100, and 200 years
- 7.3 Document existing data, studies and information and data gaps
- 7.4 Prepare Delta-Suisun Status and Trends Assessment Report

#### 8.0 Delta Risk Management Strategy (DRMS)

- 8.1 Identify current Delta-Suisun risks and consequences in light of changing climatic, hydrologic, environmental, seismic, and land use conditions
- 8.2 Assess risks and consequences of Business-As-Usual for 50, 100, and 200 years on agreed upon assets and resources.
- 8.3 Develop framework for Delta-Suisun contingency and emergency response plan
- 8.4 Prepare Delta Risk Assessment Report
- 8.5 Present DRMS and Delta-Suisun Status and Trends Assessment Report to the public
- 8.6 Prepare draft DRMS Report
- 8.7 Conduct an Independent Science Board review of draft DRMS report
- 8.8 Complete final DRMS Report

#### 9.0 Delta Region Ecosystem Restoration Implementation Plan (DRERIP) Studies

- 9.1 Develop species life history and ecosystem element conceptual models
- 9.2 Evaluate proposed ERP actions and targets for the Delta identified in multiple ERP planning documents, including the Ecosystem Restoration Program Plan (ERPP) volumes I and II, ERP Strategic Plan, Phase 2 Report, Water Quality Program Plan, Draft Stage 1 Implementation Plan, and the Record of Decision.
- 9.3 Identify and develop new actions to meet the goals and objectives of the ERP and provide a basis for guiding future research in the Delta
- 9.4 Prioritize actions and targets for the Delta
- 9.5 Complete DRERIP by December 2007

# 10.0 Suisun Marsh Habitat Management, Preservation, and Restoration Plan

- 10.1 Convene participating agencies
- 10.2 Identify and resolve issues for restoration and management
- 10.3 Conduct public participation
- 10.4 Prepare Programmatic Environmental Impact Statement and Environmental Impact Report
- 10.5 Certify EIS/EIR and adopt regional plan

#### **Delta Vision Process Tasks**

#### **For Discussion Only**

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#### 11.0 Visioning and Develop Scenarios (DRMS)

- 11.1 Inventory and catalogue scientific information and criteria that constrain future action
- 11.2 Describe conditions common to all scenarios
- 11.3 Conduct visioning workshops (planning charrettes)

### 12.0 Draft Delta Vision Report

- 12.1 Develop outline and make author or team assignments
- 12.2 Develop report policy and management options for reducing risks and consequences
- 12.3 Develop schedule of interim (initial drafts) of chapters
- 12.4 Compile chapter drafts and edit for style, tone and policy
- 12.5 Conduct public and legislative committee reports
- 12.6 Hold plenary meetings with Delta Protection Commission
- 12.7 Revise Delta Vision Report pending comments

#### 13.0 Draft Delta Strategic Plan

- 13.1 Develop outline and make author or team assignments
- 13.2 Write recommended public policies for resource management, levee maintenance, oversight and land use
- 13.3 Provide general budget and strategic financing plan to realize the Delta vision and strategic plan
- 13.4 Compile draft recommendations into one document
- 13.5 Conduct public and legislative committee reports
- 13.6 Revise draft pending public and legislative comments

### 14.0 <u>Statewide public workshops about the draft Delta Vision Report and Delta</u> Strategic Plan

- 14.1 Determine schedule and location of public workshops
- 14.2 Determine if/how comments will be catalogued and responded to (e.g., "Response to Comments" Document?)
- 15.0 <u>Final Delta Strategic Plan, including the Delta Vision Report, to the Governor and Legislature</u>

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# **Delta Resources & Uses Covered by Delta Planning Efforts**

Resources & Uses >>  Planning Efforts	Land Use Planning	Agriculture	Transportation	Utilities	Urban Development	Bay-Delta Ecosystem	Flood Protection	Water Conveyance & Quality	Air Quality	Navigation	Recreation	Energy	Local & State Economy	Emergency Response & Law Enforcement
AB 1200 & AB 1803	•	•	•	•		•	•	•		•	•			
Delta Risk Management				•										•
Strategy														
Delta LTMS	•		•	•	•	•	•				•			•
Delta Regional Ecosystem Restoration Implement Plan	•	•		•		•	•	•	•	•	•			
Bay Delta Conservation Plan	•	•				•	•	•	•	•	•			
SF Estuary Comprehensive	•				•	•	•	•	•	•	•			
Conservation Mgmt Plan  Delta Protection Commission	_	_			_	_	_	_		_	_	_	_	_
Resource Management Plan	•	•				•	•	•	•	•	•	•	•	
SF Bay Conservation &	•	•	•	•	•	•	•	•	•	•	•	•	•	
Development Comm. Plan Office of Emergency Services														
Levee Failure Contingency														•
5 County General Plans	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sacramento Area Council of	•	•	•	•	•	•	•	•	•	•	•		•	
Governments Plan San Joaquin Council of														
Governments Plan	•	•	•	•	•	•		•	•		•		•	
Association of Bay Area	•	•	•	•	•	•	•	•	•	•	•		•	
Governments Plan California Partnership for														
San Joaquin Valley Plan	•	•	•	•		•	•	•	•		•	•	•	
State Parks Central Valley	•	•		•		•					•		•	
Vision														
CALFED Program		•		•		•	•	•		•	•	•		
Suisun Marsh Preservation Agreement & Protection Plan				•		•	•	•		•	•			
California Water Plan	•	•		•		•	•	•		•	•	•		
Bay-Delta Water Quality	•	•			•	•	•	•		•	•		•	
Control & Basin Planning CPUC & Energy Commission	_	_			_	_	_			_	_			
Energy Action Plan	•	•			•	•	•	•		•	•		•	
Yolo Basin/Bypass Plan		•				•	•	•			•			
Cal-EPA Climate Change Assessment and Report	•	•	•	•	•	•	•	•	•	•	•	•	•	
UC Berkeley & UC Davis														
Delta Visioning Efforts														

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# **Proposed GIS Data Layers**

(from Adams, Mount and Twiss - 2006)

# **Delta and Suisun Bay and Marsh-wide**

Levees by type (and risk classification if available)

General elevation, subsidence

Subsidence forecasts

Organic soils, percent and depth

Seismic risk

City and County boundaries

LAFCO designations

**General Plans** 

Williamson Act status

General land ownership

**Delta Protection Commission boundaries** 

Regional Infrastructure

National Wetlands Inventory

Crop types

Land Use by category

Island failure history

Failure scenarios

Water operations facilities

Imagery, including GoogleEarth, & NASA WorldWind

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#### For Each Island

Acreage

Land use types

Levee perimeter (and classification if available)

Elevation

Subsidence projections

Seismic risk zone

**FEMA status** 

Infrastructure: rail, roads, pipelines, aqueducts, gas fields, water operations facilities

Failure history

**Evacuation routes** 

Urban land uses

Historic and cultural resources

Population

Recreation sites and facilities

Formal plan designations

**Delta Protection Commission status** 

Development changes underway. Pending, or planned

Land ownership (public by type, private)

National Wetland Inventory

Island failure history

Critical agriculture infrastructure facilities

Agricultural intakes and returns

Linkage to other islands (some islands depend upon access or resources on adjacent islands)

# **Delta Vision Process Proposal**

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# **Delta Strategic Plan Outline**

#### Volume 1: Findings, Recommendations, and Financing

- I. Introduction/Context
  - (A) Need
  - (B) Process overview
- II. A vision of a sustainably managed Delta
- III. Findings and recommendations to achieve a sustainably managed Delta
  - (A) Implementation plan and schedule
  - (B) Measurable goals and objectives
- IV. Findings and recommendations for institutional changes
  - (A) Oversight authorities
  - (B) Implementation authorities
  - (C) Land use authorities
- V. Strategic financing plan
  - (A) Role of public investments
  - (B) Beneficiaries Pay

### Volume 2: Delta Risk Assessment Report for "Business As Usual" [ DRMS Work ]

#### Volume 3: Working Papers: Elements of a Sustainably Managed Delta

- (A) Ecosystem functions and biodiversity, including aquatic and terrestrial flora & fauna
- (B) Land use and land use patterns, including agriculture, urbanization, and housing
- (C) Transportation, including streets, roads, highways, waterways, and ship channels
- (D) Utilities, including aqueducts, pipelines, and gas/electric transmission corridors
- (E) Water supply and quality, municipal/industrial discharges & urban/agricultural runoff
- (F) Recreation and tourism, including boating, fishing, and hunting
- (G) Flood risk management, including levee maintenance
- (H) Emergency response and law enforcement
- (I) Local and state economies

#### **Volume 4: Contingency Plans**

- (A) Adaptive management
- (B) Delta preparedness and local emergency response plans
- (C) Near-term catastrophic response plans
- (D) Global climate change

#### Volume 5: Delta Stakeholder Assessment Report