South San Francisco Bay Salt Ponds Long-Term Restoration Planning

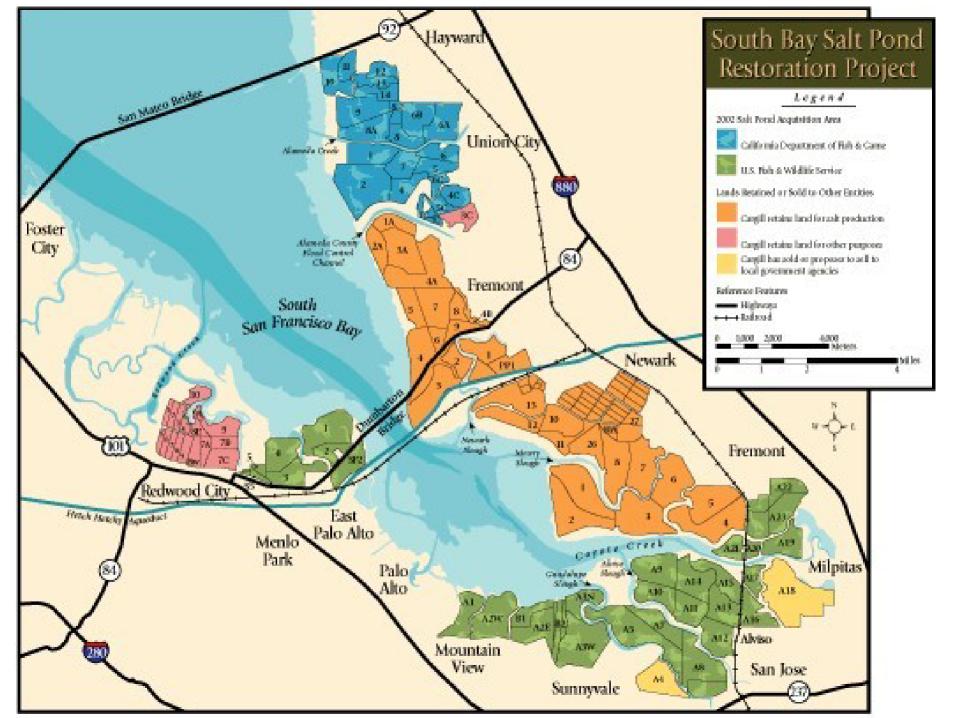






Agenda

 Welcome and Introductions Project Overview - Acquisition Area - Interim Management - Long-Term Restoration Planning Data Gaps Assessment Framework Break-Out Sessions - Fish and Wildlife/Other Biological Factors - Physical Processes - Water Quality/Contaminants



Cargill Phase Out

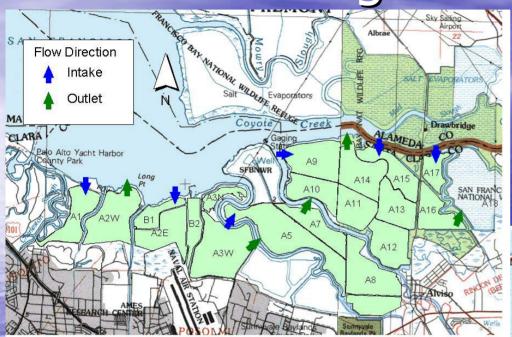
- Cargill responsible for management of ponds until they meet Transfer Standard established by RWQCB discharge permit.
- Phase-Out of Salt Production
 - 1-2 years for low salinity ponds (Baumberg and most Alviso ponds)
 - c. 3-6 years for higher salinity ponds (West Bay and Alviso ponds in Fremont)
 - c. 5-7 years for Napa Plant Site

 DFG and FWS to manage acquired salt ponds after phase-out completed and until long-term restoration plan is completed and implemented.

Interim Management Objectives

- Maintain habitat values of acquired ponds to the maximum extent feasible
- Assure that the ponds are maintained in a restorable condition during long-term restoration planning period
- Maintain existing levels of flood protection, existing depths of ponds
- Minimize impacts to Bay (from discharge)
- Minimize interim management costs (by avoiding pumping)

Interim Management



Alviso

Baumberg



Long-Term Restoration Planning

The California Coastal Conservancy, working closely with the California Department of Fish and Game and US Fish and Wildlife Service, the landowners, will facilitate the development of a restoration plan for the 15,100 acres of salt ponds acquired from Cargill in the South Bay.

Mission: "To prepare a scientifically sound and publicly supported restoration and public access plan that can begin to be implemented within five years."

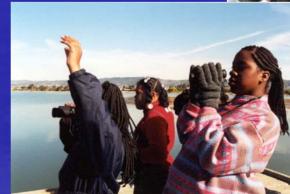
Project Goals

wetland restoration

- tidal wetlands for at-risk species, aquatic species
- managed ponds for migratory birds
- associated wetland and upland habitats
- flood management
 wildlife-oriented public

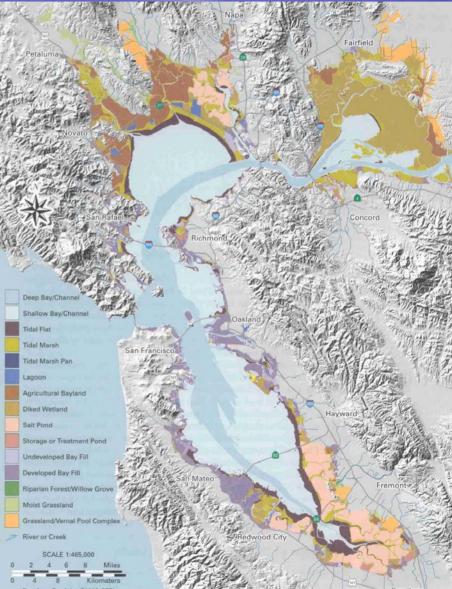
access & recreation





Wetlands: Past and Present





Learning from Past Restorations

 LaRiviere Marsh: 100 acres of former salt ponds in Fremont at Don Edwards SF Bay Refuge restored in mid-1980s





Regional Planning Efforts

abitat Goals

San Francisco Estuary Project

Comprehensive Conserv and Management Pla



Implementation Strategy of the San Francisco Bay Joint Venture

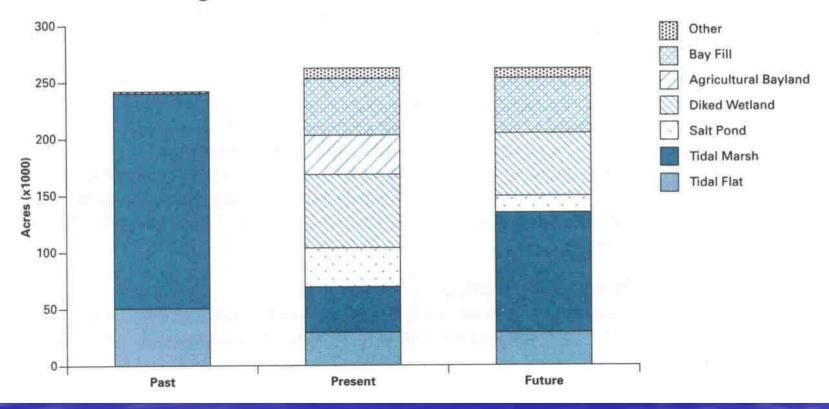
ent Pla Baylands Ecosystem

A Report of Habitat Recommendations Prepared by the San Francisco Bay Area Wetlands Ecosystem Goals Project Sancisco ICISCO BASIN (REGION 2)

WATER QUALITY CONTROL PLAN

Recommendations from Goals Report – Mix of Habitats

Past, Present, and Recommended Future Bayland Habitat Acreage for the Region



Technical/Environmental Issues

- Mix of Habitats to Maintain/Enhance Wildlife Populations
 - Tidal Wetlands
 - Managed Ponds
 - Associated Habitats
- Tidal Wetlands Restoration
 - Subsidence of Ponds (minimal to over 10 feet)
 - Sediment supply
 - Hydrological/Geomorphological Impacts on Bay
 - Resuspension of Pollutants in Bay
 - Methylation of Mercury
- Enhancement of Managed Ponds
 - Water Circulation in Ponds (flow-through vs. one-way system)
 - Optimize pond depths and salinities for migratory birds



Technical/Environmental Issues

Flood Management

- Salt pond levees provide de-facto flood protection
- Integrate flood management features into future habitat
- Public Access and Recreation
 - Provide access for existing users
 - Enhance/expand recreational access
 - Integrate recreation and wildlife protection
- Introduced Species, e.g.
 - Spartina
 - non-native predators
- Existing Infrastructure
- Monitoring/Adaptive Management



Challenges, Opportunities

Landscape Scale of project (15,100 acres)

Urban Setting



Challenges, Opportunities

Number of stakeholders



Structure

Executive Council

High level trustee and regulatory agency representatives provide guidance and support.

Regulatory Agencies

Staff from regulatory agencies handle permitting.

Executive Leadership Group

Agency Leaders of DFG, FWS, SCC oversee long-term restoration planning.

Implementation Team

A team will develop strategies to fund implementation.

Project Management Team

Staff of SCC, DFG, FWS conduct day-to-day project management and ensure coordination with stakeholders.

Flood Management Team

Project Management Team will work with staff of Flood Control Districts and Corps to integrate flood management and habitat restoration.

National Science Panel

National wetland restoration experts review process and science.

Technical Committee

Scientists review scopes of work and work products.

Public Involvement Committee

Restoration, Flood Management, and Access

NGOs, agencies, and others meet regularly to receive project updates and provide input on restoration and access planning as one group and in subcommittees.

Public Outreach Team

The Project Management Team, with representatives from other groups, will ensure the public remains informed and has frequent opportunities for input.

Draft Schedule

	2002	2003	2004	2005	2006	2007	2008
Technical Studies		Intensive Data	a Collection	Data Collectio	n, Management		
Alternative Formulation		Goals, Objectives, Constraints	Restoration Plan				Phase 1 Restoration
Engineering, Costing, Design			Prelim Design	n, Costs	Plans and S	pecs	
Environmental Clearances			Draft E	IR/S FEIR	/S ROD	Permitting	
Public Outreach/Input		Education	Input				
Project Management							
Technical Review							
Corps Activities					WRI	DA	18

Data Gaps Assessment Framework

Major Decisions

Agenda for Break-Out Sessions

Ground Rules

Next Steps

- Overall restoration design
- Flood management
- Appropriate public access and recreation
- Cost-effective restoration implementation and management
- Project phasing



- What will be the overall restoration design?
- How do we maximize benefits to wildlife?
 - What is the appropriate mixture of habitats?
 - What is their placement in the landscape?

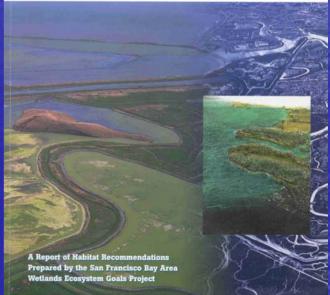






- Are the Habitat Goals Report recommendations still valid?
 25-30,000 acres of tidal marsh
 10-15,000 acres of saline pools
 15,000 acres of tidal flats
- Which portions of these recommendations should this project accomplish within the 15,000 acres?





- How do we handle external constraints?
 Flooding
 - Subsidence
 - Sediment availability
 - Sediment quality

- How do we maximize habitat functions of managed ponds and pond complexes?
 - Mix of depths
 - Mix of salinities
 - Locations
 - Water management
 - Other factors



- How do we minimize impacts from mercury methylation?
 - Design
 - Water management
 - Sediment management

 How and to what degree will flood management be accommodated or integrated?

- Alameda Creek
- Guadalupe River
- Coyote Creek



1955 Alameda Creek Flood Photo by: R.L. Copeland. From: Floods at Fremont, California; L.E. Young, 1962; USGS Hydrological Atlas, HA-54

- How and to what degree will appropriate public access and recreation opportunities be accommodated or integrated?
- Key issues:
 - Acceptable types of access and recreation
 - Protection of at-risk species
 - Location of access and recreation

 What restoration implementation and management process will be the most cost-effective?

- Potential key considerations:
 - Phasing
 - Mix of ponds
 - Flood management
 - Dredge material reuse

How will the project be phased?
 Potential key drivers:

 Restoration design and implementation
 Funding
 Flood management

Break-Out Session Agendas

Summary of Specific Decisions in each Category - Fish and Wildlife - Physical Processes - Water Quality/Contaminants Assess Data Gaps for Each Specific Decision - Available Data - Needed Data/Data Gaps Prioritize Data Gaps Wrap-Up

Next Steps

- Development of Conceptual Model, Project Objectives
- Formation of Technical Committee
 - RFQ to be distributed
 - Subcommittees to be formed
- National Science Panel
 - Denise Reed (chair), Sam Luoma, John Teal, Si Simenstad, Jerry Schubel, Michael Erwin, Jorg Imberger
- Contracts/Grants
 - Data Collection
 - Restoration Design, Physical Modeling, Civil Design and Cost Estimating
 - EIR/S and Permitting
 - Public Outreach
- General Conservancy RFQ Available
- Specific RFQs, RFPs, and interviews will be released/conducted by Conservancy

Today's Ground Rules

Be constructive
No speeches
No sales pitches
Keep on schedule
Recognize that there will be follow up

Thanks for Your Participation!