

GOALS

1. Area/extent : In coordination with partners, the sea level rise buffer area is increased by at least 5% by 2025.
2. Biotic assemblage: By 2025, reproductive success of shore birds and shore bird habitat protection are increased by 5% and native oyster populations are increased by 10%.
3. Biotic interactions: By 2025, invasive species populations are reduced by 10%.
4. Biogenic habitat: By 2025, native seagrass (eelgrass) bed acreage is increased by 10%.
5. Surface water flow regime: In coordination with partners, surface water flow (both ephemeral and permanent) is increased by at least 5% into these water bodies by 2025.
6. Watershed water quality: In coordination with State Water Boards and other partners, TMDLs for 10-25% of the tributaries into estuaries/lagoons/bays are met by 2025.
7. Soil/sediment quality: In coordination with State Water Boards and other partners, the sediment quality objectives for 25% of these water bodies are met by 2025.
8. Circulation/connectivity: In coordination with partners, restoration activities to improve circulation and connectivity are completed by 2025 year for 20% of these water bodies.
9. Estuary/bay/lagoon water quality: In coordination with State Water Boards and other partners, the water standards for 50% of water bodies are met by 2025.

The State Wildlife Action Plan examines the health of wildlife and prescribes actions to conserve wildlife and vital habitat before they become more rare and more costly to protect. The plan also promotes wildlife conservation while furthering responsible development and addressing the needs of a growing human population.

STRATEGIES, OBJECTIVES AND ACTIVITIES

- I. Improve engagement in decision-making process
 - a. Objectives
 - i. Increase capacity
 - ii. Increase internal and external communication and coordination
 - iii. Develop collaborations
 - iv. Increase review of CEQA documents and local coastal plans
 - v. Review and provide input on all relevant permits and monitoring plans
 - vi. Develop criteria and standards for reviewing above documents
 - b. Activities
 - i. Analyze staffing needs and identify priorities
 - ii. Identify funding sources and apply for funding for new positions
 - iii. Identify state and local groups and staff that are involved in priority efforts
 - iv. Communicate and coordinate with identified groups to determine priorities and update management plans
 - v. Participate in state and local planning meetings and decisions to ensure that efforts address Marine Region concerns/issues
 - vi. Integrate Marine Region needs into other CDFW planning efforts
 - vii. Identify and prioritize efforts that would benefit from increased collaboration
 - viii. Consider cooperative agreements with regulatory agencies to promote consistent resource protection
 - ix. Coordinate with local and state agencies on review of proposals, permits, monitoring plans, and project recommendations
 - x. Encourage and support local agency implementation of permits
 - xi. Determine what criteria and standards should be used for reviewing documents and provide these to staff
- II. Implement non-structural and structural Best Management Practices (BMPs)
 - a. Objectives
 - i. Review and provide input on BMP implementation
 - ii. Increase communication with municipalities to ensure that they are complying with permits
 - iii. Coordinate with partners to reduce runoff effluents
 - b. Activities
 - i. Coordinate with regional water boards regarding implementation of BMPs and Total Maximum Daily Limits
 - ii. Collaboratively develop process with local agencies for determining status of municipal compliance on permit implementation
 - iii. Work with local and state agencies to identify ways to reduce storm water/runoff effluents
- III. Improve restoration activities
 - a. Objectives
 - i. Increase restoration efforts for seagrass
 - ii. Increase restoration efforts to improve circulation within estuaries, bays and lagoons
 - iii. Increase restoration efforts for native oysters
 - b. Activities
 - i. Identify and Prioritize areas where seagrass (eelgrass) restoration needed
 - ii. Finalize list of water bodies that need improved water circulation
 - iii. Identify where additional restoration efforts are needed for native oysters
 - iv. Identify partners
 - v. In coordination with partners, find funding, apply for funding, design restoration plans, and implement restoration projects
- IV. Improve Marine Region's management of resources that are vulnerable to climate change and ocean acidification
 - a. Objectives
 - i. Generate climate vulnerability assessment
 - ii. Develop and implement plan to incorporate vulnerability information into management actions
 - iii. Incorporate climate tools into management toolbox
 - b. Activities
 - i. Develop work plan
 - ii. Identify collaborators
 - iii. Identify funding source and apply for funding
 - iv. Work with collaborators to develop vulnerability assessment
 - v. Using information from assessment, identify management actions that will decrease vulnerability of sensitive resources and incorporate these into the appropriate management plans
 - vi. Identify useful climate tools and work with tool developers to incorporate into management
- V. Advocate for policies and practices that minimize impacts on shorelines and wetlands
 - a. Objectives
 - i. Identify and implement practices and incentives that result in minimal impacts on resources
 - b. Activities
 - i. Determine what types of practices and incentives are available, or develop new ones
 - ii. Incorporate practices, including smart growth, into permit process
 - iii. Develop incentives for low growth/impact development

SENSITIVE SPECIES

- Seagrass (Eelgrass)
- California Halibut
- Native Oyster
- Tidewater Goby
- Southern CA Steelhead
- American White Pelican
- California Clapper Rail
- Light-footed Clapper Rail
- California Least Tern
- Black Skimmer

ENVIRONMENTAL STRESSES

- Reduction in area in which to expand
- Decrease in shorebird populations
- Decrease in bivalve populations
- Decrease in native species populations
- Decrease in seagrass beds
- Altered sand deposition patterns
- Change in freshwater flow into water bodies
- Decrease in water quality of freshwater flow
- Altered residence time
- Change in circulation pattern
- Altered tidal mixing
- Change or loss in connectivity within water bodies
- Decrease in water quality of water bodies
- Decrease in quality of sediments

HUMAN RELATED IMPACTS

- Climate Change and Ocean Acidification (Rank: 1)
- Shoreline Development (2)
- Diversion/Control of Freshwater (3)
- Agricultural Runoff (4)
- Point Discharges (5)
- Hazardous Spills (6)
- Modification of Mouth/Channels (7)
- Invasive Species (8)
- Urban Runoff (9)
- Pathogens (10)
- Artificial Structures (12)
- Aquaculture (14)
- Ocean/Estuary Water Diversion/Control (16)
- Timber Harvest (17)
- Ballast Water (19)
- Fishing (20)

Bays, Estuaries & Lagoons



Seagrass (Eelgrass). Kirsten Ramey, CDFW.



Native Oysters. Tom Moore, CDFW retired.



California Halibut. Ian Culbertson.



Tidewater Goby. Mike Wallace, CDFW. Tidewater goby.



American White Pelicans. Kirsten Ramey, CDFW.



California Least Terns. Tim Dillingham, CDFW.



Flooding at high tide. Linda Miller



Buena Vista Lagoon. Tim Dillingham, CDFW.



San Eljio Lagoon. Tim Dillingham, CDFW.



Aqua Hedionda Lagoon. Tim Dillingham, CDFW.



Tar spill at Batiquitos Lagoon. Tim Dillingham, CDFW.



Caulerpa taxifolia. Greg Colling, SARDI Aquatic Sciences.

TEAM

Name	Organization	Position	Roles
Debbie Aseltine-Neilson	CDFW-R7	Staff Environmental Scientist	Leader, Team Member
Vicki Frey	CDFW-R7	Senior Environmental Scientist	Team Member
Holly Gellerman	CDFW-OSPR	Staff Environmental Scientist	Team Member
Bill Paznokas	CDFW-R7	Staff Environmental Scientist	Team Member
Kirsten Ramey	CDFW-R7	Environmental Scientist	Team Member
Paulo Serpa	CDFW-R7	Research Analyst - II	Team Member; GIS support
Travis Tanaka	CDFW-R7	Environmental Scientist	Team Member
Paul Ton	CDFW-R7	Environmental Scientist	Team Member
Terry Tillman	CDFW-R7	Staff Environmental Scientist	Team Member



Los Penasquitos Lagoon. Tim Dillingham, CDFW.



Tim Dillingham, CDFW.