



South Bay Salt Pond Restoration Project

Restoring the Wild Heart of the South Bay

Biennial Science Symposium

Thursday, October 22, 2015

**Computer History Museum Mountain
View, CA**

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Restoring the Wild Heart of the South Bay



April 2008



September 2009



May 2010



October 2010

SALT POND A21 SOUTH BAY SALT POND RESTORATION PROJECT

Kite aerial photographs of a small channel in the northeast corner following the 2006 breach to tidal flow. Field of view is ~ 120 feet. . C. Benton

**John Bourgeois, Executive Project Manager
South Bay Salt Pond Restoration Project**



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2002 Salt Pond Acquisition Area

- California Department of Fish & Game
- U.S. Fish & Wildlife Service

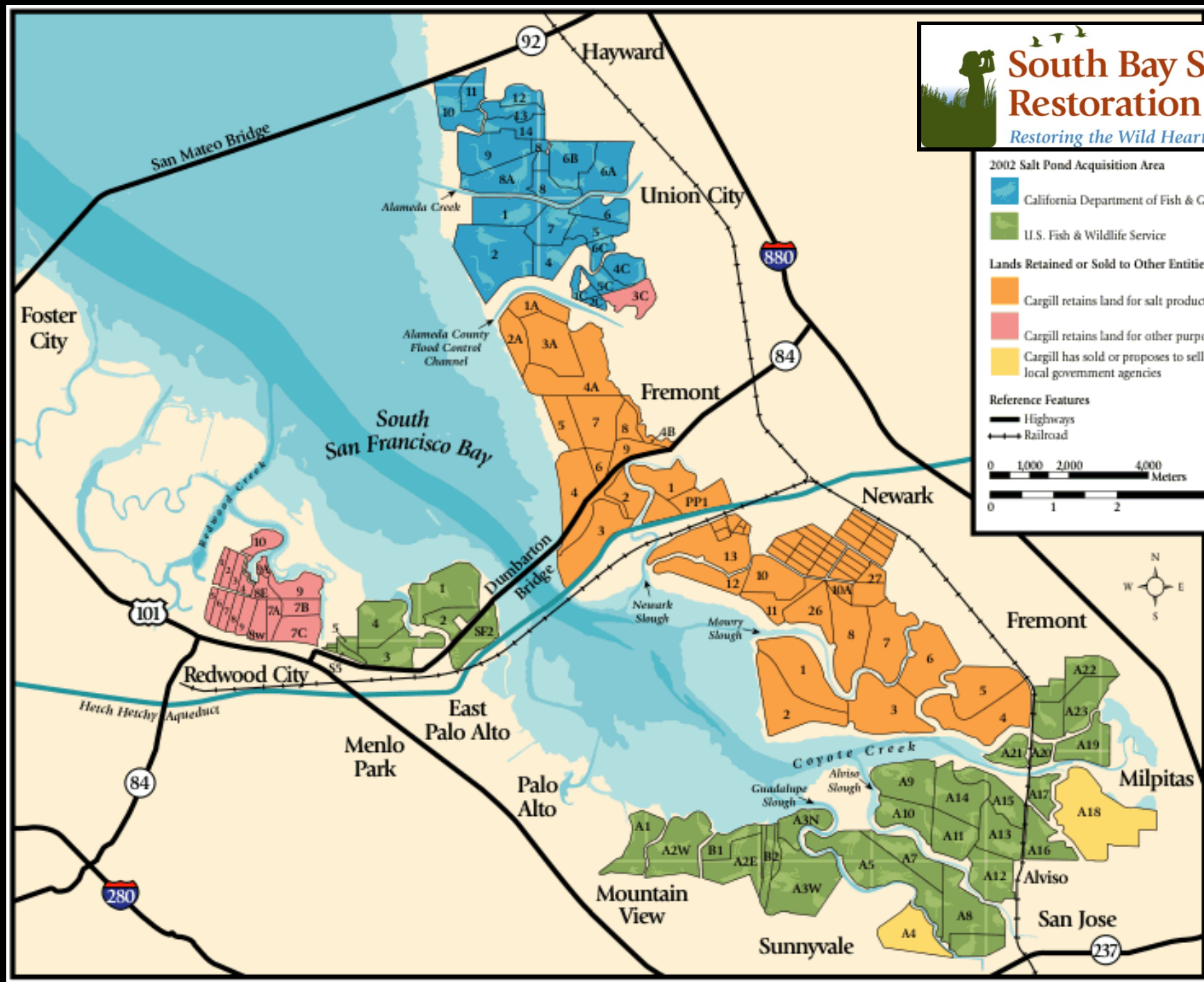
Lands Retained or Sold to Other Entities

- Cargill retains land for salt production
- Cargill retains land for other purposes
- Cargill has sold or proposes to sell to local government agencies

Reference Features

- Highways
- Railroad

0 1,000 2,000 4,000 Meters
0 1 2 4 Miles

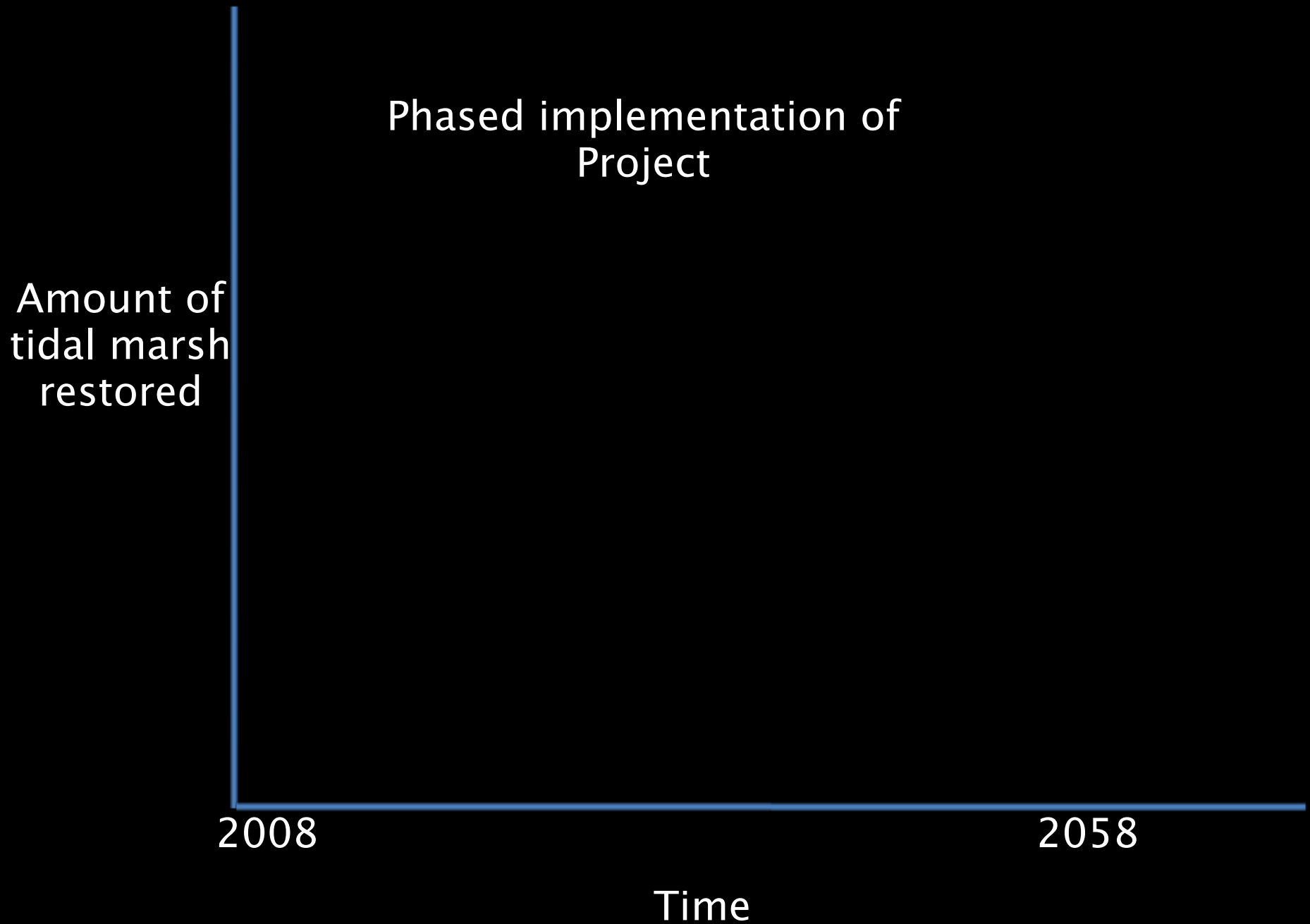


Key uncertainties

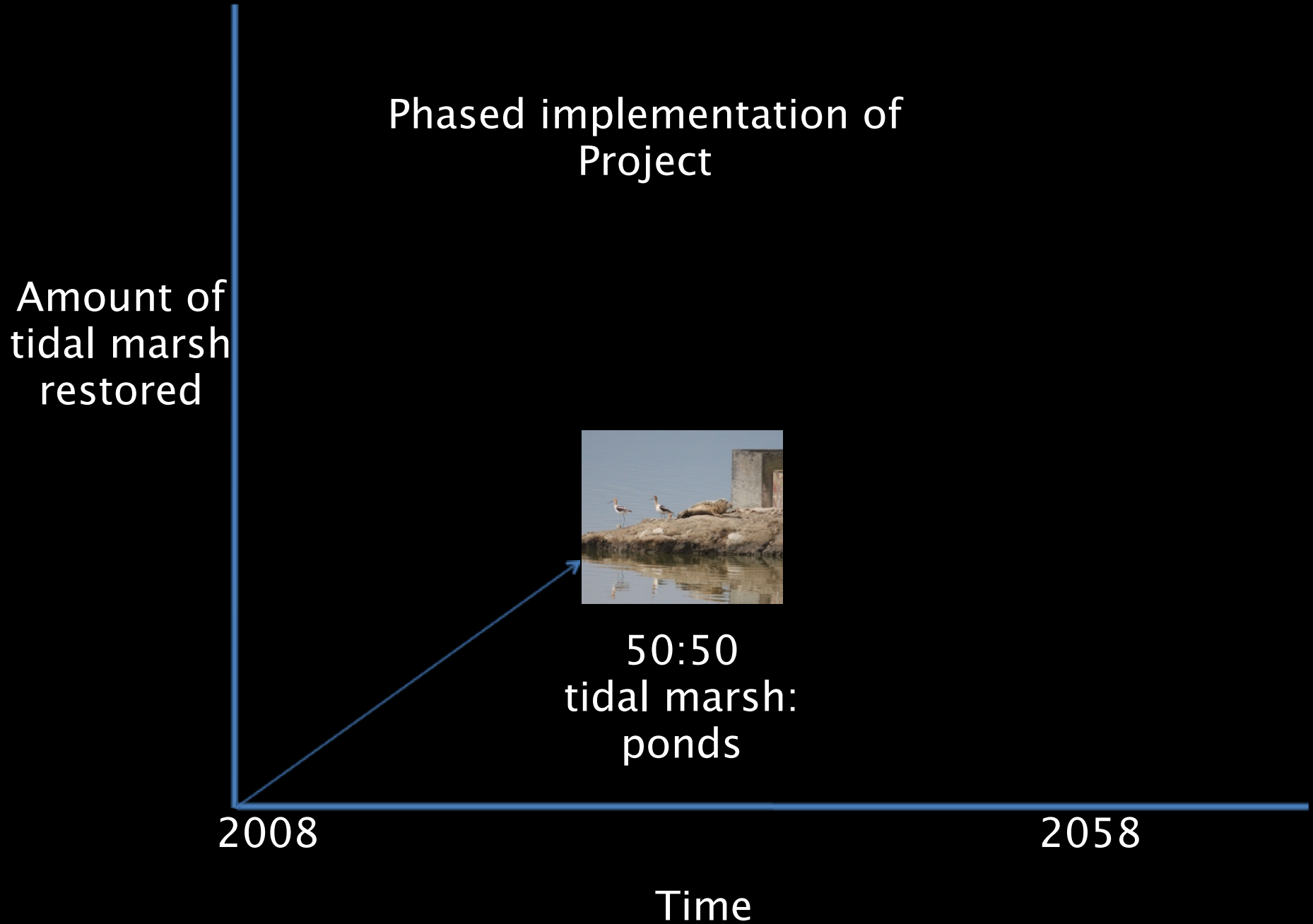
- Wildlife use of changing habitats
- Habitat evolution and sediment dynamics
- Mercury methylation
- Water quality
- Invasive species
- Public access
- Infrastructure support
- Sea level rise and climate change



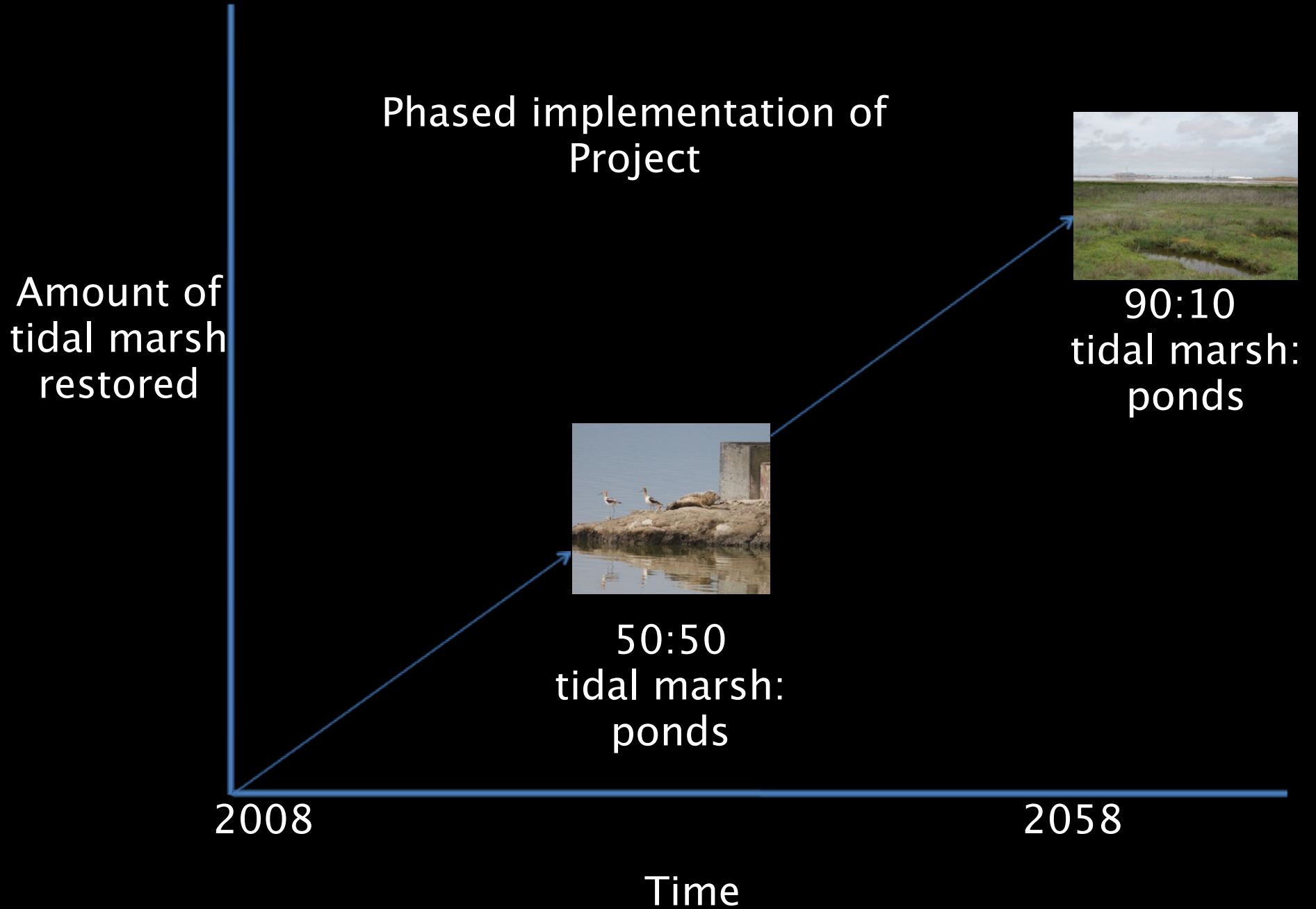
Adaptive Management Restoration



Adaptive Management Restoration



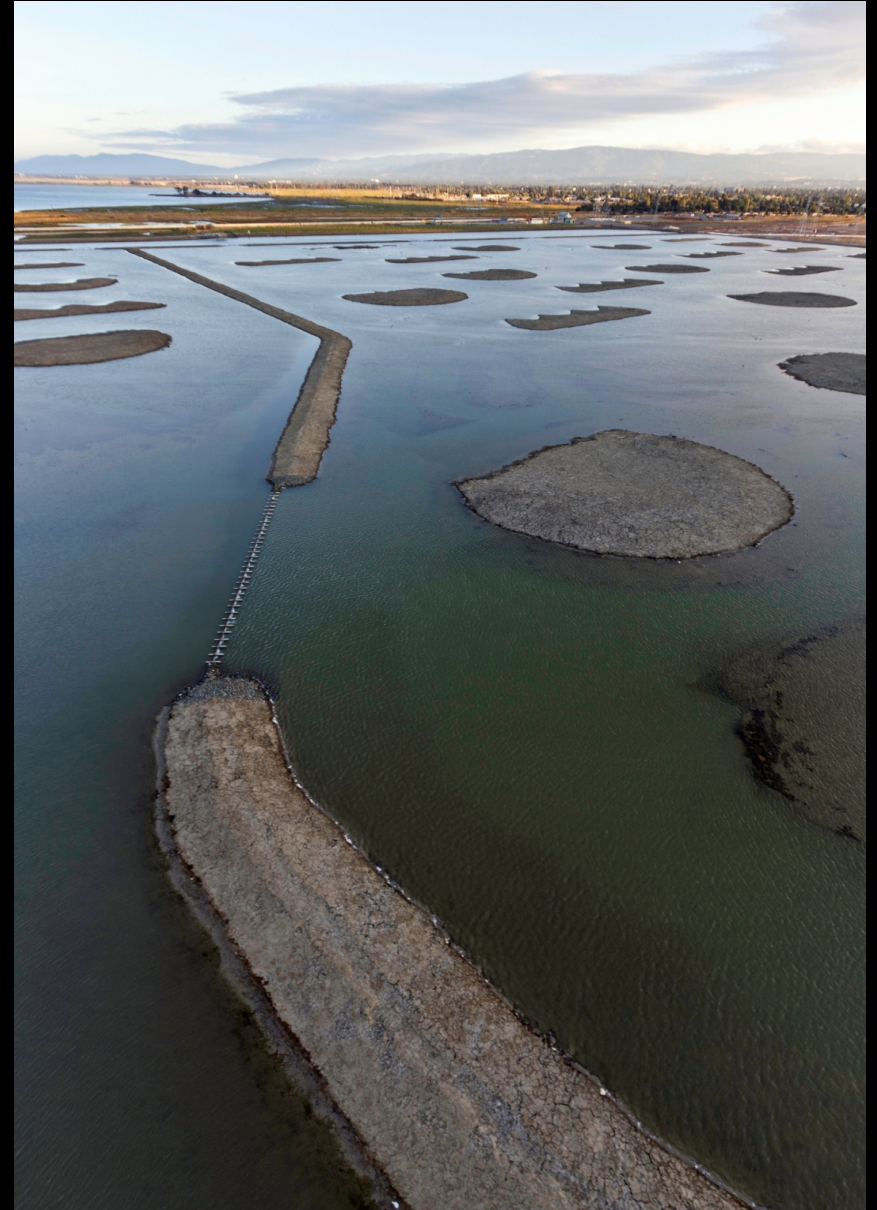
Adaptive Management Restoration





1,600 acres tidal restoration
1,440 acres muted tidal

710 acres reconfigured ponds



7 miles of new trails





April 2008

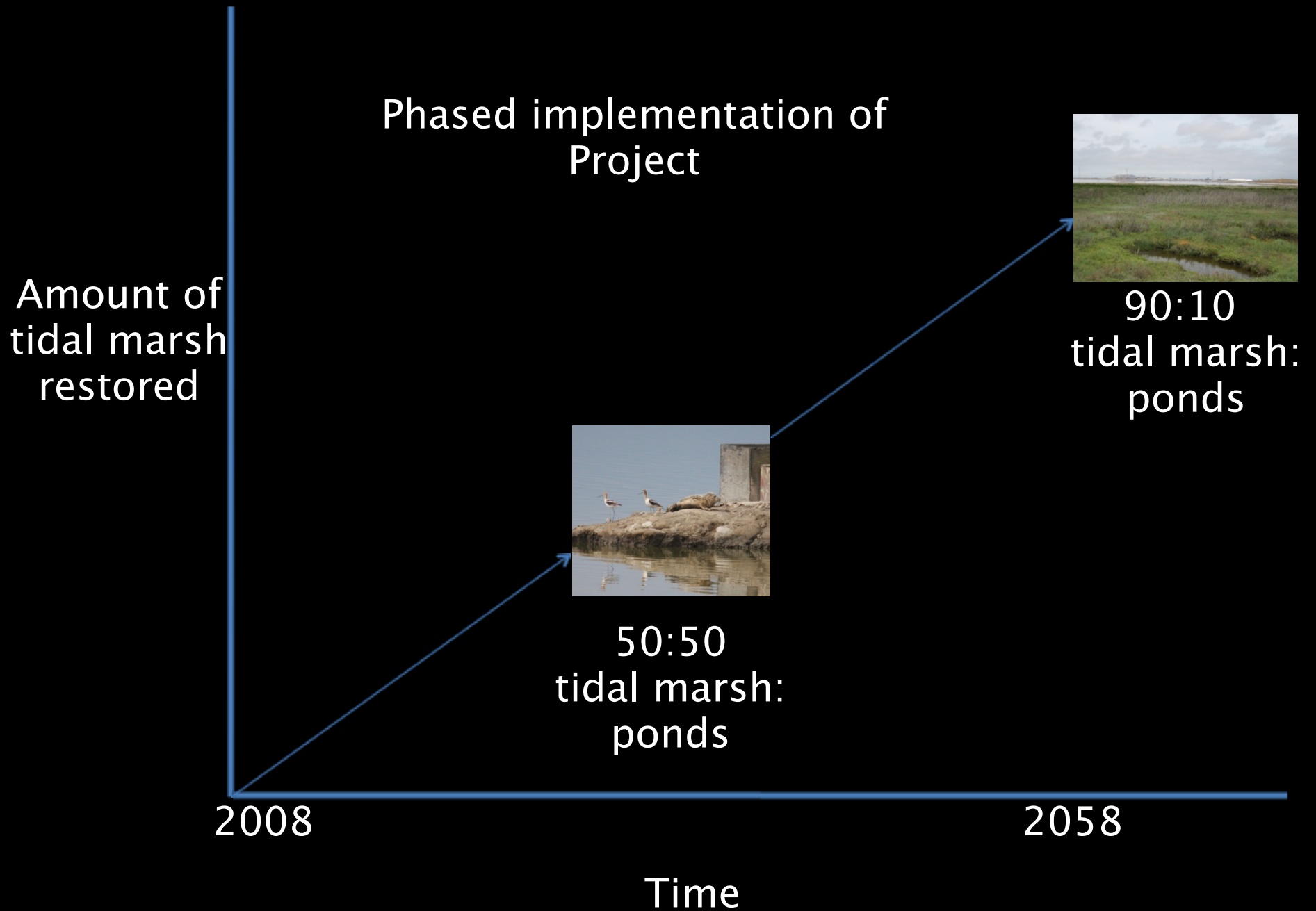


September 2009

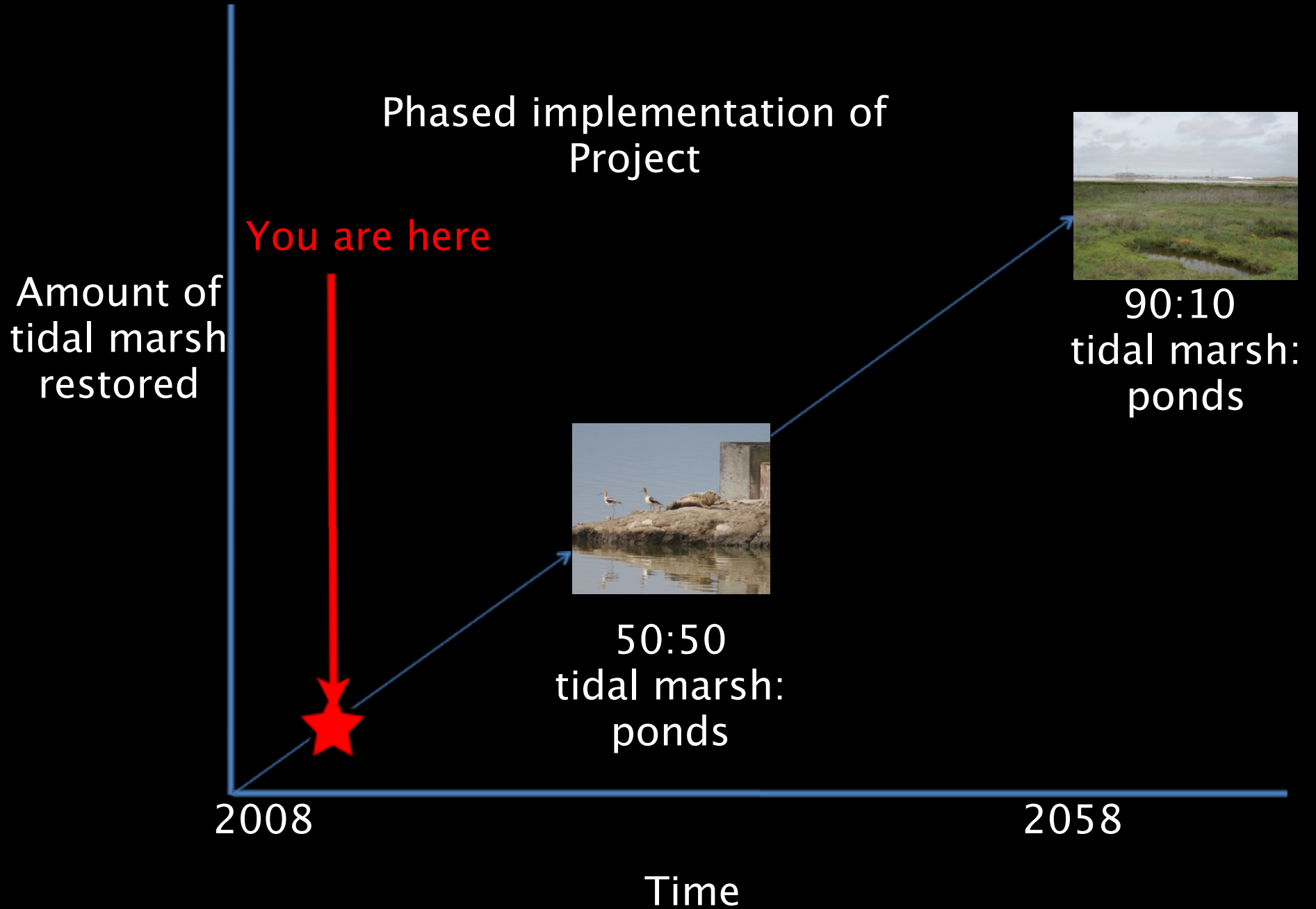
Salt Pond A21



Adaptive Management Restoration

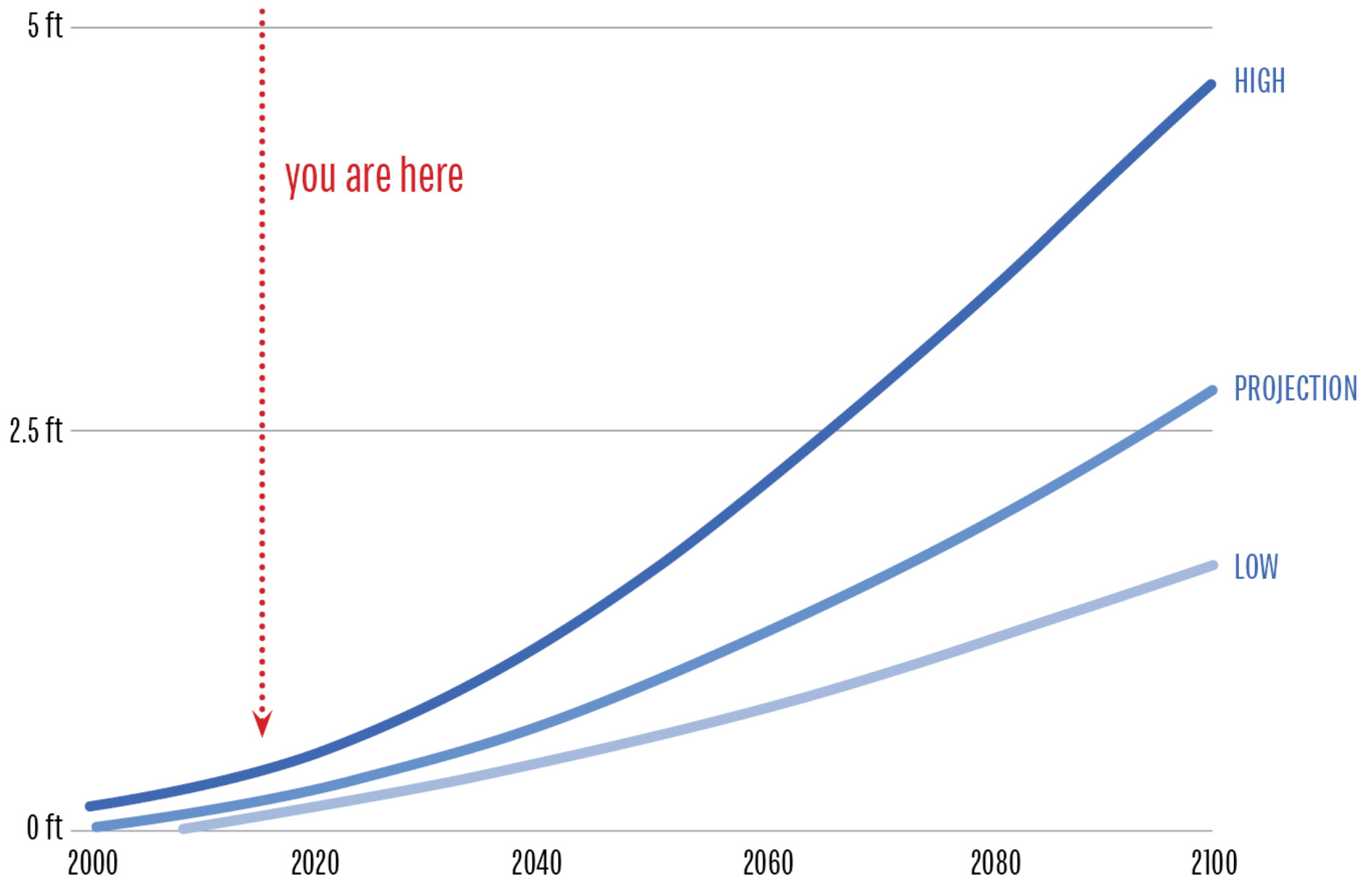


Adaptive Management Restoration



SEA LEVEL *rise* FOR CALIFORNIA

Courtesy NRC 2012



THE
Baylands
AND
Climate Change

WHAT WE CAN DO

BAYLANDS ECOSYSTEM HABITAT GOALS
SCIENCE UPDATE 2015



State of California
Coastal Conservancy








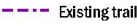
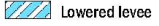



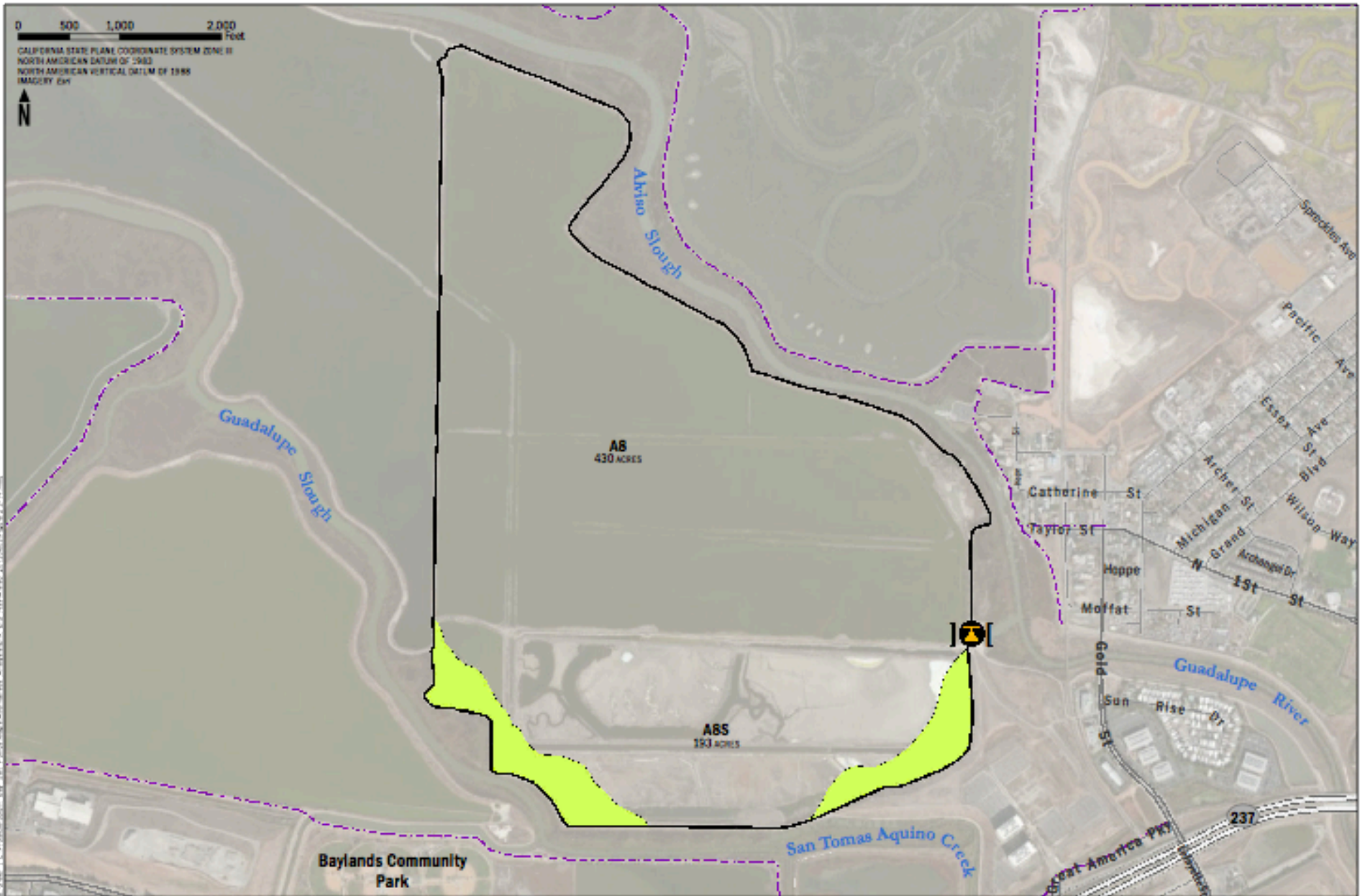
WHAT WE CAN DO

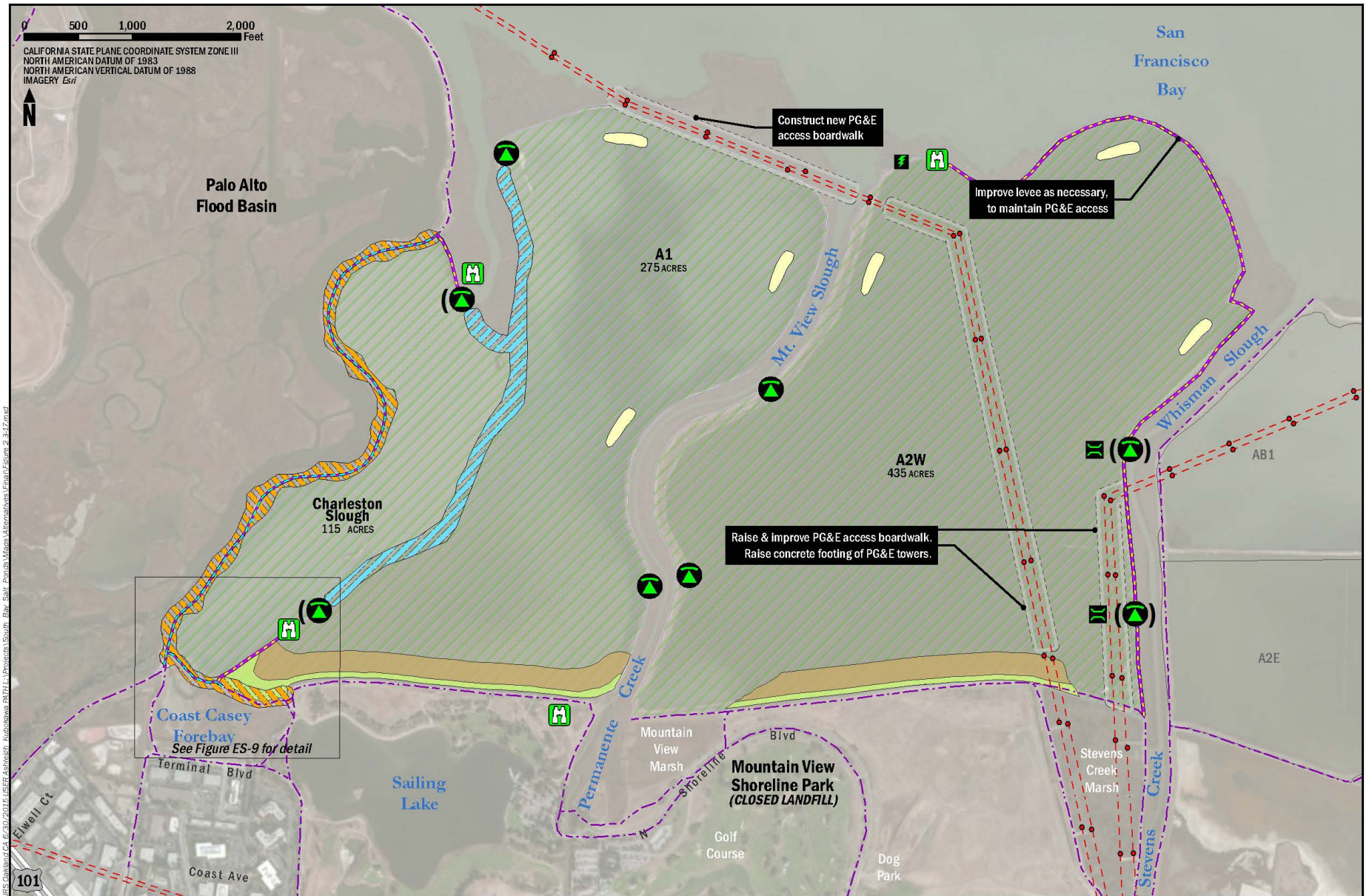
- *Restore complete systems, including processes*
- *Restore soon, in areas marshes are likely to persist*
- *Plan for the Baylands to migrate*



LEGEND

-  Proposed breach
-  Existing breach
-  Railroad
-  Removed levee
-  Tidal marsh
-  Existing trail
-  Lowered levee
-  Pond boundary





LEGEND

	Proposed breach		Proposed viewing platform		PG&E tower		Reconstructed trail		Lowered levee		Tidal marsh		Habitat Transition Zone
	Proposed amored breach (1 side)		Proposed PG&E turnaround		PG&E power line		Phase 2 trail		Improved levee		Pond boundary		High marsh habitat
	Proposed amored breach (2 sides)		Bridge		Existing trail		Habitat island		Intertidal habitat				

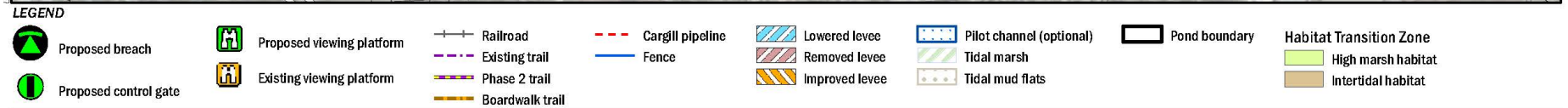
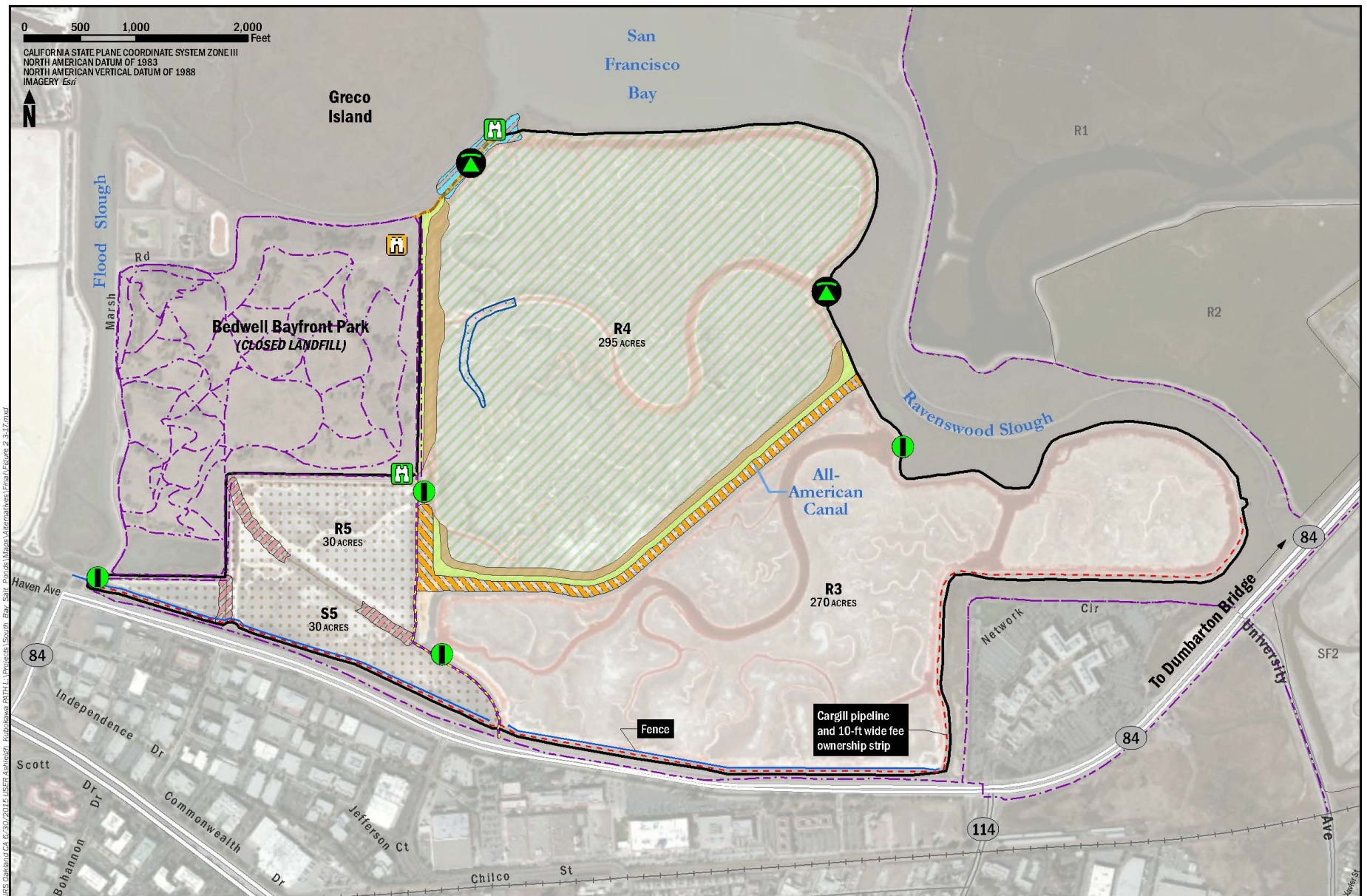
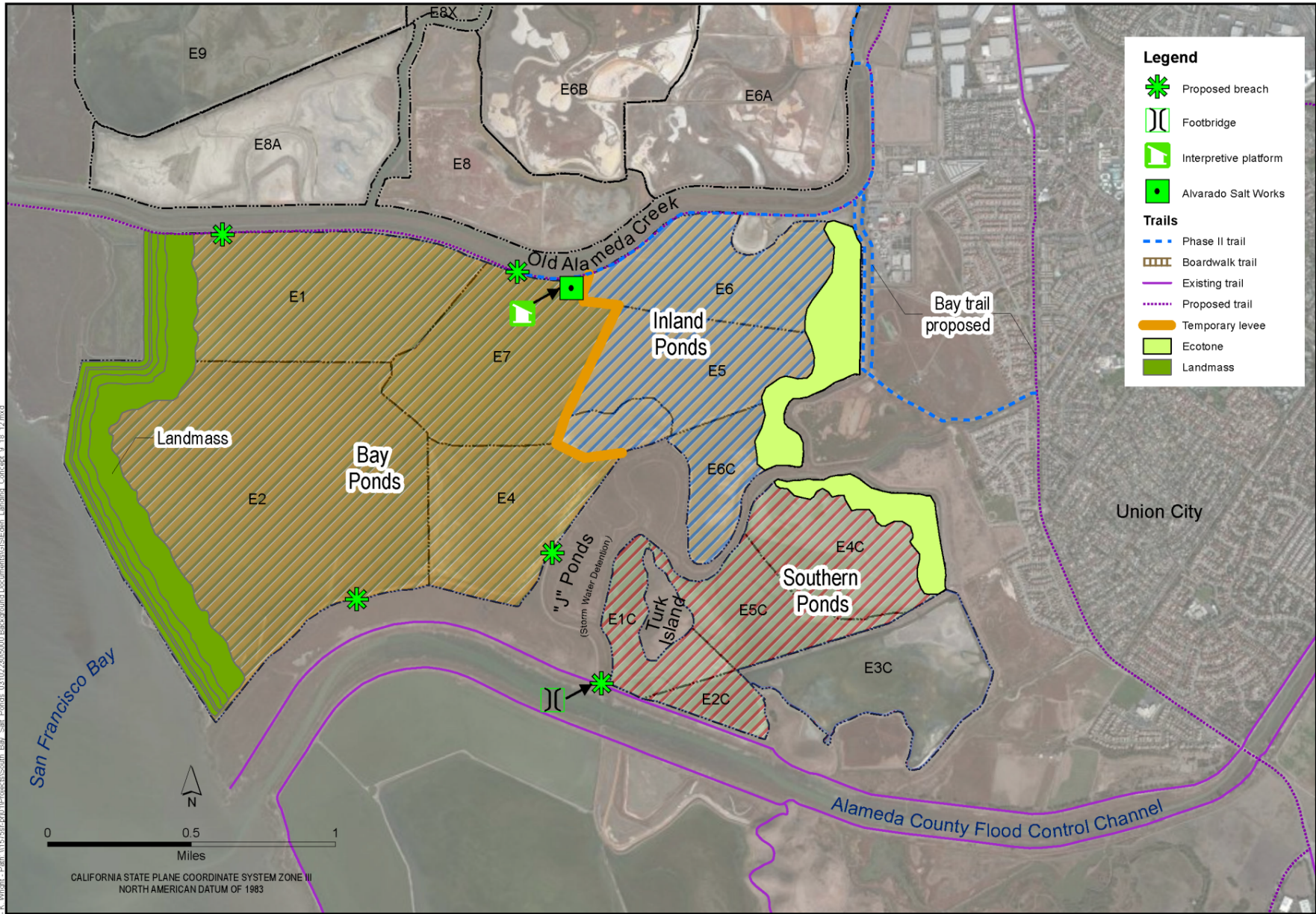


Figure ES-14
Alternative Ravenswood C



URS Oakland, CA, K. Wornt - Path: \\11575ecorp\p1\Projects\South Bay Salt Ponds_031022305000 Background Documents\GIS\Eden Landing_Concept_9_18_12.mxd



SOUTH BAY SALT PONDS
 EDEN LANDING
 ALAMEDA COUNTY, CA

DATE OF PREPARATION: 9/18/2012
 DRAFT, FOR INTERNAL USE ONLY
 URS PROJECT NO. 26818346

DRAFT PREFERRED ALTERNATIVE
EDEN LANDING POND COMPLEX

Key uncertainties

- Wildlife use of changing habitats
- Habitat evolution and sediment dynamics
- Mercury methylation
- Water quality
- Invasive species
- Public access
- Infrastructure support
- Sea level rise and climate change



Cost Summary

- Acquisition: \$100M
- ISP, Planning, Phase 1: \$93M
 - Science in support of planning: \$2.8M
 - Adaptive Management and Monitoring: \$8.9M

Without Acquisition Money



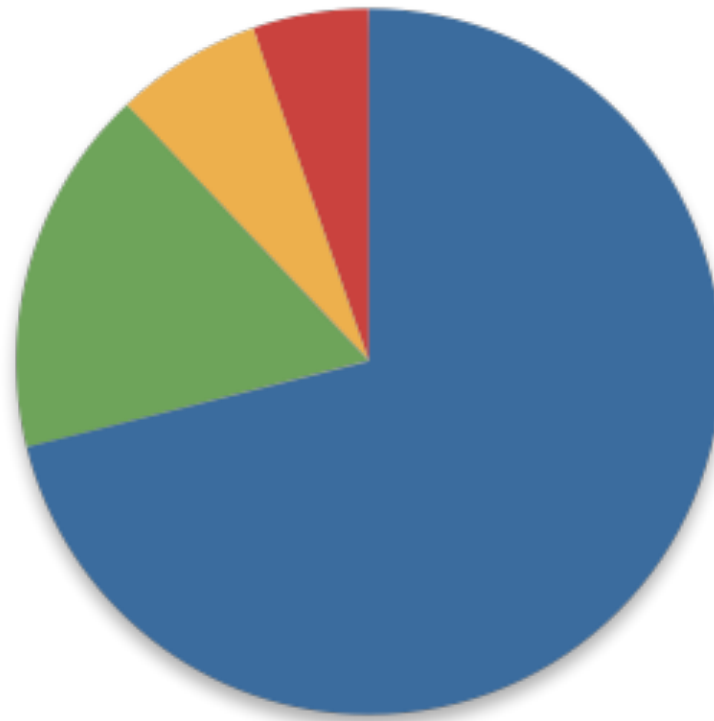
ardship

■ Planning, Permitting, Design

■ Phase 1 Implementation

■ Science/Monitoring

Science Funds by Organization



■ Government

■ Academia

■ NGO

■ Private

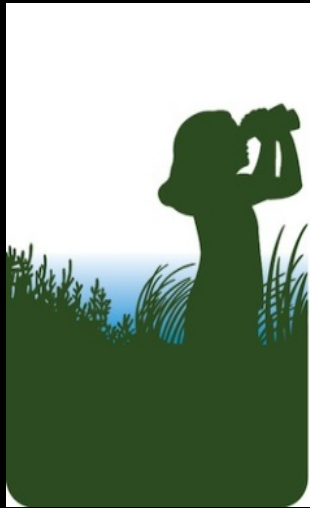
Science Funds by Topic



■ Mercury ■ Birds ■ Fish ■ Habitat



LEAP, Nate Kauffman



South Bay Salt Pond Restoration Project

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