

### Background



On November 7, 2007, the cargo vessel *Cosco Busan* struck a tower of the San Francisco-Oakland Bay Bridge, releasing over 53,000 gallons of bunker fuel. State and federal natural resource trustee agencies assessed the injuries to wildlife, habitat, and recreational uses, and made a claim for damages. The case was resolved in January 2012, with the Trustees receiving over \$30 million for restoration projects. After public comment, a restoration plan was finalized last March. Since then, the Trustees have allocated nearly \$11 million for 45 different projects.

### Aramburu Island Restoration



The Richardson Bay Audubon staff has been working to improve habitat for birds at Aramburu Island and began construction and revegetation efforts. The work includes hand-pulling weeds and saline irrigation to battle invasive species, collecting seeds from native plants for propagation efforts (left), upland grading (right), finishing the sandy foreshore, and creating a seal channel to allow harbor seals access to the island. The final enhancement design involves the establishment of beaches, vernal pools, wetlands, and saltgrass and grass-sedge meadows.

### Marbled Murrelet Restoration

Marbled murrelets, an endangered seabird with a declining population, nest in old growth redwoods, where they lay one egg per year high on a mossy branch. In the Santa Cruz Mountains, many of their nests are in the vicinity of campgrounds, where large numbers of jays converge to eat food left out by campers. These jays also eat murrelet eggs. To decrease jay predation



of murrelet eggs, the Trustees funded a unique pilot project that seeks to use the intelligence of jays to train them to change their behavior. Called “conditioned taste aversion,” California State Parks, with assistance from researchers at Humboldt State University, placed over 550 eggs throughout Butano and Portola State Parks. The eggs were painted to mimic murrelet eggs and injected with a tasteless chemical that causes temporary discomfort and possibly vomiting when ingested by jays. In fact, they deployed the eggs twice. The number of eggs attacked dropped significantly between the first and second deployments, suggesting that jays were learning to avoid eating eggs. The Trustees will continue this pilot project and hope to find an increase in juvenile murrelets during at-sea surveys in 2013.



## Recreational Use Projects

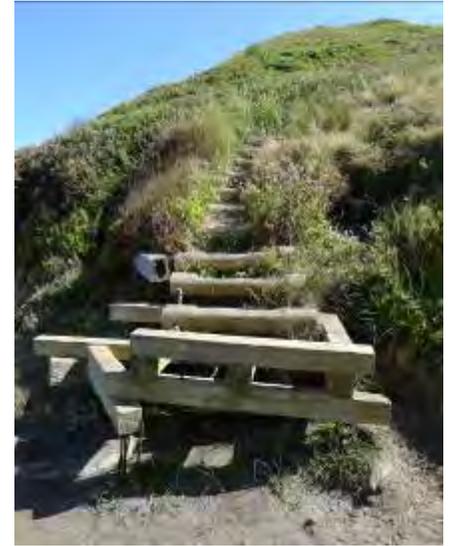
These 14 projects to benefit recreational activities will begin this year and will be implemented by the Golden Gate National Recreation Area (GGNRA) and Point Reyes National Seashore (PRNS).

### Marin County (National Park lands) (subtotal = \$2,241,000)

- Visitor Access Improvements at Muir Beach (\$2,000,000)
- Rodeo Beach Restroom, Shower and Picnic Area (\$147,000)
- Stinson Beach Jr. Lifeguard Program Support (\$10,000)
- South Rodeo Beach Access Improvements (\$37,000)
- Interpretive Media – GGNRA/Marin and PRNS (\$28,000)
- Replace Deteriorating Trash Bins with Animal-Proof Bins/ Marin (\$19,000)

### San Francisco County (National Park lands) (subtotal = \$782,700)

- Waterfront Railing and Apron Renovation at Fort Mason (\$180,000)
- Bay Trail – Repair Retaining Wall at Fort Mason (\$167,200)
- Ocean Beach – O’Shaughnessey Seawall Repairs (\$163,200)
- Ocean Beach Master Plan—Design Elements (\$150,000)
- Bay Trail—Replace Decking on Crissy Field Promenade Bridge (\$37,000)
- Replace Deteriorating Trash Bins with Animal-Proof Bins/ SF (\$36,600)
- Contingency Fund for Removal of Japanese Tsunami Marine Debris (\$25,000)
- Interpretive Media – GGNRA/SF (\$23,700)

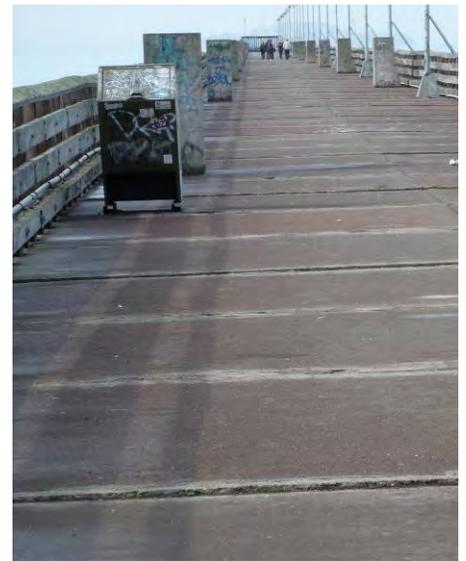


**South Rodeo Beach access**

These 26 projects have been selected for awards by the state Trustees. They are located in the East Bay, Marin County, San Mateo County, and other locations not covered by the National Park Service.

### East Bay (subtotal = \$3,512,414)

- Miller Knox & Ferry Point Recreation & Fishing Improvements (\$1,000,000)
- Oakland Estuary Enhancement Project (\$650,000)
- Berkeley South Sailing Cove Restroom Project (\$600,000)
- East Bay Shoreline Recreation Outreach Program (\$570,000)
- Point Pinole Fishing Pier Improvements (\$300,000)
- Berkeley Municipal Fishing Pier Accessibility Surface Project (\$230,138)
- Maintenance Dredging at the Berkeley Marina (\$120,000)
- Lake Merritt Boating Center Floating Dock Replacement (\$22,276)
- San Francisco Bay Recreational Fishing Education Class (\$20,000)



**Berkeley Pier**

### San Mateo County (subtotal = \$1,683,810)

- Montara State Beach Access Improvement (\$428,810)
- Coyote Point Promenade Western Shoreline (\$400,000)
- Pacifica Pier Resoration Project (\$250,000)
- Surfers Beach Access and Erosion Control Project (\$180,000)
- Bay Trail Beautification in East Palo Alto (\$150,000)
- Marine Science Institute Enhancement of Beachfront Shoreline Access (\$120,000)
- Public Paddle Dock Access to SF Bay Wildlife Refuge, Redwood City (\$70,000)
- Kiteboard/Windsurf Recreational Area Improvement in Foster City (\$60,000)
- Marine Science Institute Restroom Facility Upgrade (\$25,000)

### Marin County (outside National Park lands) (subtotal = \$651,445)

- Angel Island State Park Boating & Recreational Improvements (six projects) (\$294,945)
- Sausalito Fishing Pier Rehabilitation (\$160,000)
- ETC Sea Kayak Program: Accessible SF Bay Recreation (\$100,000)
- McNears Beach County Park Fishing Pier Restoration (\$70,000)
- Bayfront Park Recreational Bay Access Pier Rehabilitation (\$26,500)

### Other (subtotal = \$218,442)

- Sears Point Bay Trail (\$110,000)
- Belden's Landing, Fishing and Boat Safety Improvements (\$93,487)
- Palo Alto Baylands Recreation for Youth and Their Families (\$14,955)

## Updates on Other Projects

These projects are expected to begin later in 2013:

- Eden Landing Salt Pond Restoration
- Surf Scoter Restoration
- Eelgrass Restoration
- Native Oyster Restoration
- Rockweed Restoration
- Muir Beach Dune Restoration



Black Oystercatchers enjoy a remodeled beach on Aramburu Island. Photo courtesy of Richardson Bay Audubon.

## Cosco Busan Trustee Council Budget

**Amount Received** **\$30,506,000**

### Allocations to Date

Eden Landing Salt Pond Restoration	\$248,400
Marbled Murrelet Restoration	\$85,073
Aramburu Island Restoration	\$720,759
Muir Beach Dune Restoration	\$119,000
Rockweed Restoration	\$10,000
Recreational Use Projects/NPS (14)	\$3,080,890
Recreational Use Projects/state (26)	\$6,066,111

Agency Oversight \$630,000

**Total Allocated** **\$10,942,593**

**Total Amount Remaining** **\$19,563,407**

### Natural Resource Trustee Agencies

California Department of Fish and Wildlife  
 California State Lands Commission  
 United States Fish and Wildlife Service  
 National Park Service  
 National Oceanic and Atmospheric Administration

[www.dfg.ca.gov/ospr/Science/cosco\\_busan\\_spill.aspx](http://www.dfg.ca.gov/ospr/Science/cosco_busan_spill.aspx)  
[darrp.noaa.gov/southwest/cosco/index.html](http://darrp.noaa.gov/southwest/cosco/index.html)  
[www.fws.gov/contaminants/Issues/OilSpill.cfm](http://www.fws.gov/contaminants/Issues/OilSpill.cfm)

