Cosco Busan 11 years on: Restoration

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Prevention First September 25, 2018





Potential Components of a Pollution Case Settlement

- response and assessment costs
- penalties
- enatural resource damages \$32.3 million
- other claims
 - public entities (lost tax revenue, lost parking fees, extra staff time, etc.)
 - private claims (lost income, injury to property, etc.)



What are Natural Resource Damages?

- Compensation for natural resource injuries
- Compensation for loss of use and enjoyment



 Damages are based upon the amount of restoration needed to make the environment and the public whole (OPA, Lempert-Keene)

Trustees and Coordination

Trustees – DOI (USFWS, NPS), NOAA, CDFG, CSLC



 Local Agencies – Assessment Coordination & **Restoration Planning (CCSF & EBRPD)**

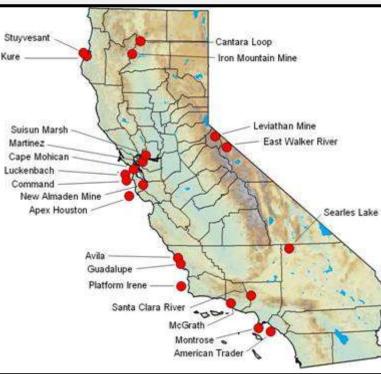




Public – Restoration Planning

The Process

- 1) Oil Spill
- 2) Data Collection
- 3) Public Information Meeting
 - 4) Injury and Damage Quantification
 - 5) Draft Restoration Plan
 - 6) Public Comment Period
 - 7) Final Restoration Plan
 - 8) Implement Restoration Projects we are here



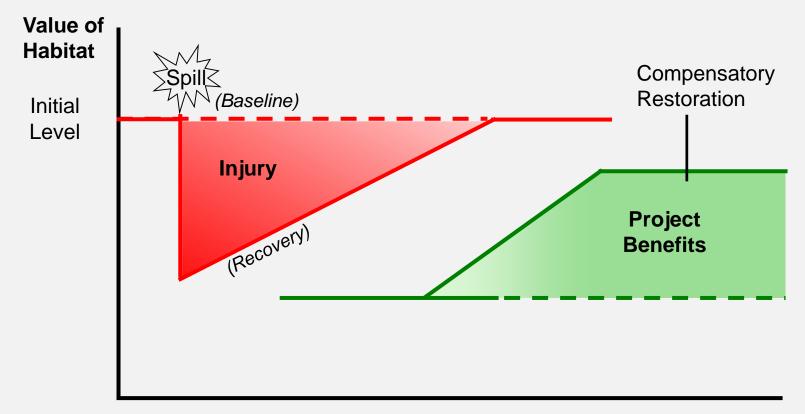
Methods

- Multi-disciplinary, multi-agency team
- Collecting data and planning NRDA tasks since Nov 7

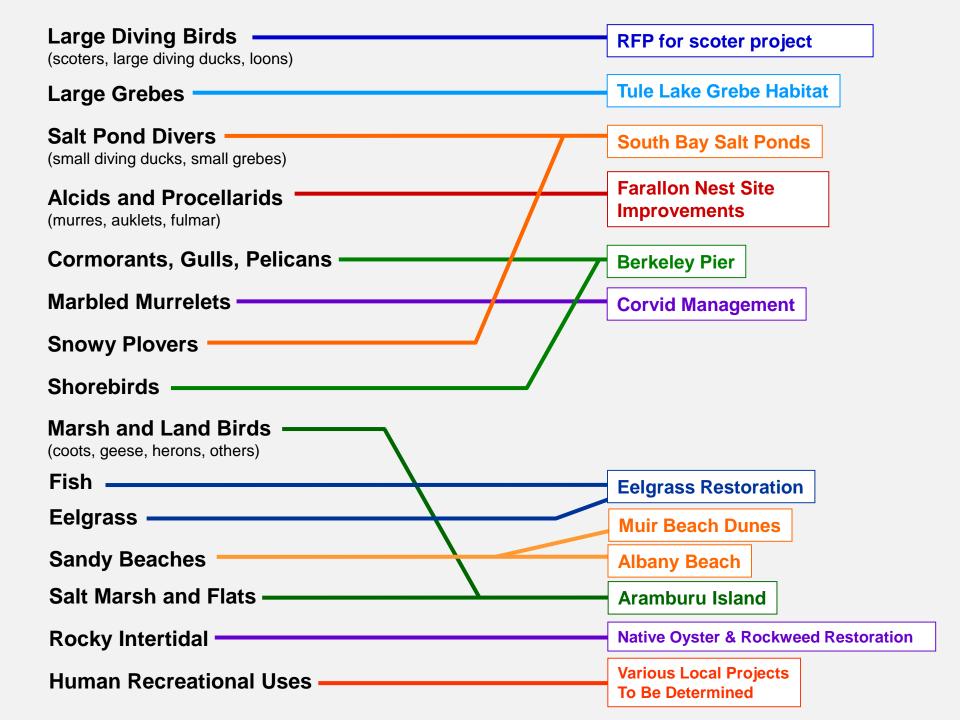


 Assessed injuries by resource category: birds, mammals, fish, shoreline habitats, eelgrass, rec use

Resource Equivalency Analysis



Time



Injury Summary

Birds

Collected Live and Dead: 2,940 Total Estimated Mortality: **6,849**

Primary Species Impacted Surf Scoter Western Grebe Eared Grebe Common Murre Marbled Murrelet

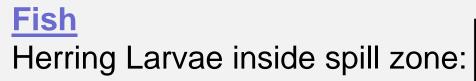


Shoreline Habitats (acres impacted)

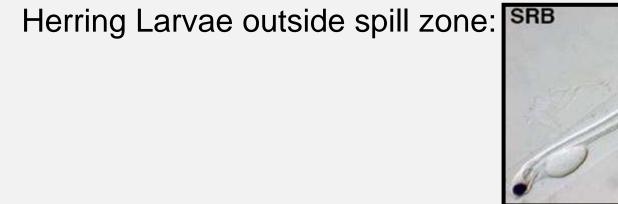
Rocky Intertidal:384Sandy Beach:648Saltmarsh and Mudflats:1,395Eelgrass Beds:940

Note: Most acres were lightly or very lightly oiled.









50nb 50°°

Estimated 14-29% of herring spawn lost in 2007-8.

No impacts detected: salmon, tidewater goby, Dungeness crab.

Recreational Use

Lost User-Days:

- fishing: 69,500
- boating: 26,600
- general shoreline use: 983,800

Value of a Lost User-Day:



varied across time and activity, but averaged \$17.41

Total lost value: \$18.8 million

Settlement

Birds \$5M Habitat \$4M Fish/Eelgrass \$2.5M Recreational Use \$18.8M administration <u>\$2M</u> **\$32.3M**

Restoration Summary

Bird Projects



Eden Landing Salt Pond Mgmt



Marbled Murrelet Restoration, Humboldt Redwoods State Park



Egg Aversion Project, Santa Cruz Mtns



Derelict Net Removal, Salish Sea



Berkeley Pier Bird Platforms

Habitat Projects





Aramburu Island Restoration

Bird and Habitat Projects

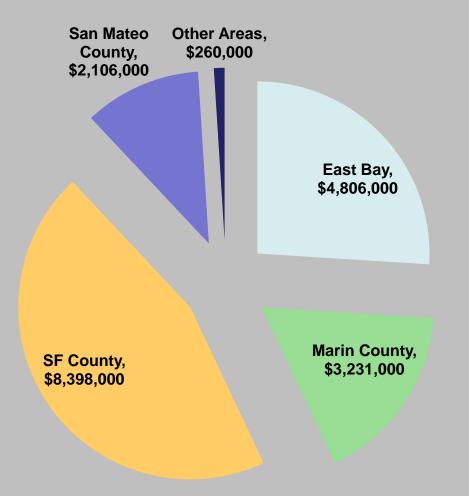




Eelgrass Restoration, Marin County and East Bay

Muir Beach Dune Restoration

Recreation Projects



Recreation Projects



Oakland Estuary cleanup



Miller Knox Regional Park Restoration





South Rodeo Beach Access

Recreation Projects



Junior Lifeguard Program, Stinson Beach



Youth Fishing Program, Hayward Shoreline

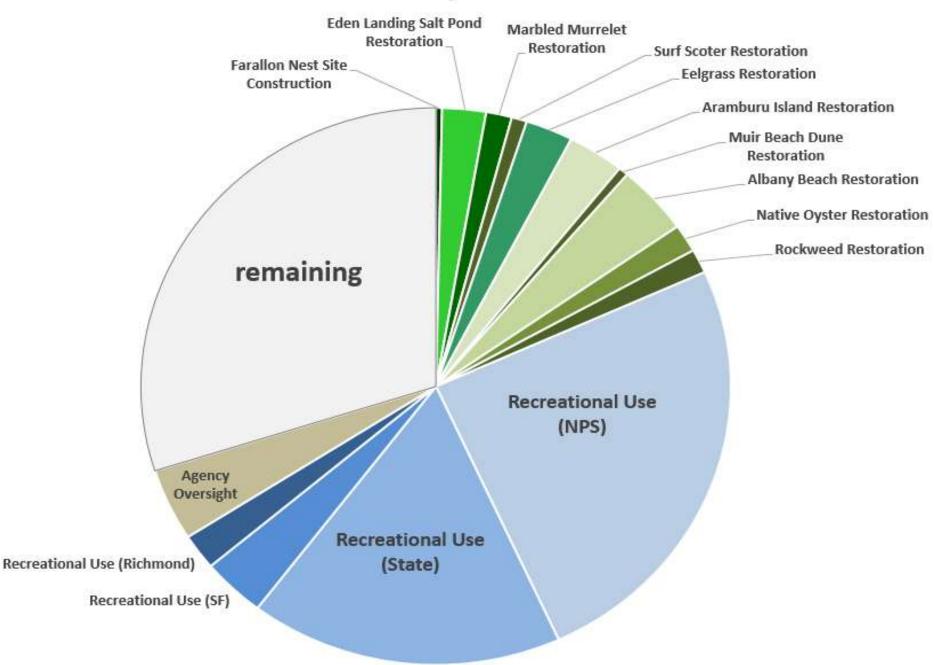


Ocean Beach Seawall Repairs, SF



Small Boat Docks, Lake Merritt, Oakland

Restoration Fund Expenditures to Date



http://www.dfg.ca.gov/ospr/Science/cosco_busan_spill.aspx