

SS CAPE MOHICAN SAN FRANCISCO DRYDOCK OIL SPILL



SPILL FACTS

When: October 28, 1996

Who: SS Cape Mohican, Maritime Administration

San Francisco Drydock, Inc.

Where: San Francisco Dry Dock, Pier 70

What: 96,000 gallons fuel oil spilled into dry dock

40,000 gallons spilled into water

Cause: Human error



SPILL COVERAGE



GENERAL CATEGORIES OF IMPACT

- Habitat
- Wildlife
- Human Use

SUMMARY OF OILED HABITAT TYPES

AREA (Acres)

Sandy Beaches 1,294

Rocky Intertidal 516

Mudflats / Wetlands 99

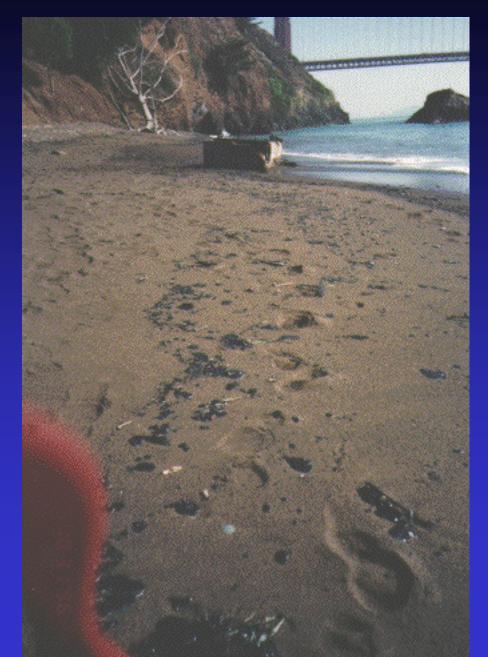
Piers / Pilings / Riprap 69

TOTAL 1,978

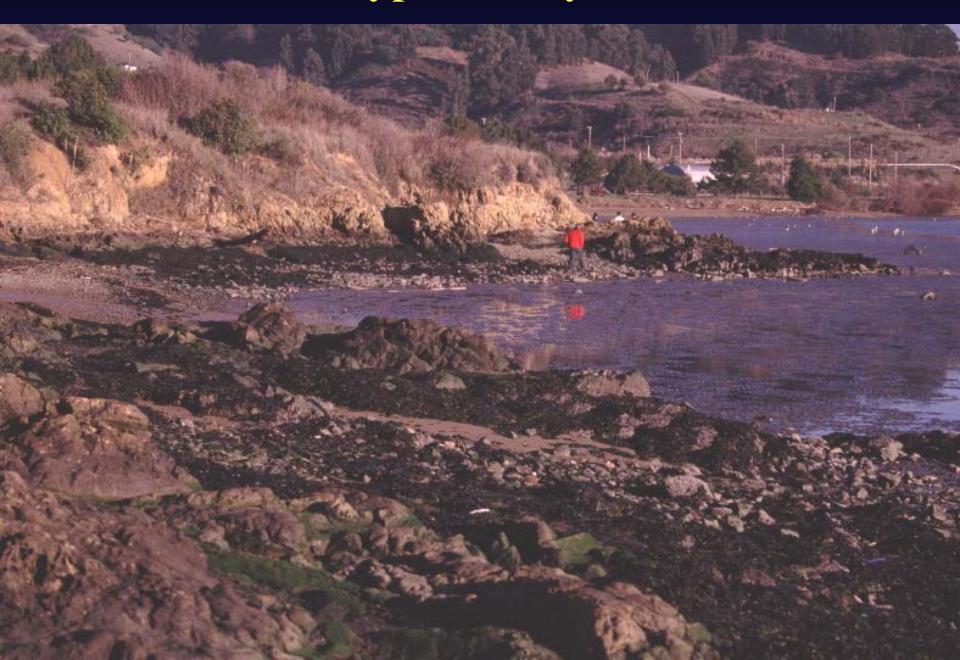
OILED SHORELINE HABITAT TYPES



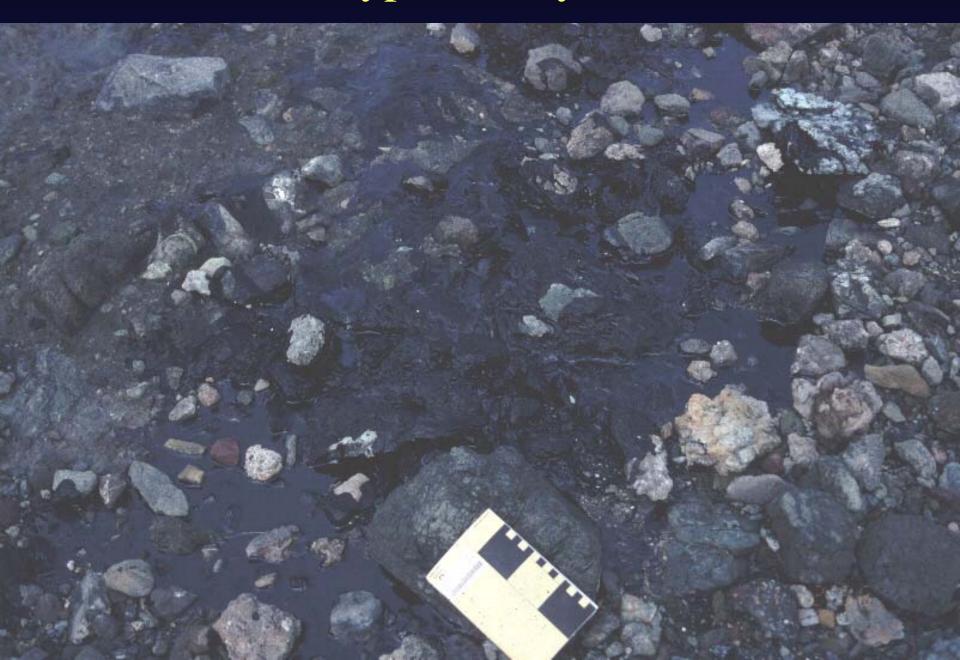
Habitat Type: Sandy Beach



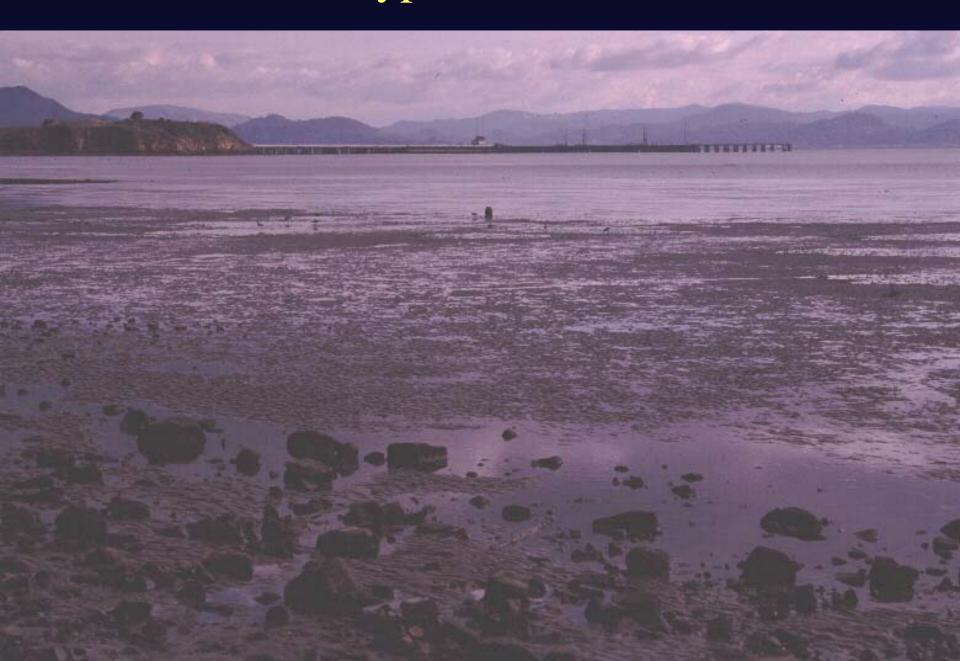
Habitat Type: Rocky Intertidal



Habitat Type: Rocky Intertidal



Habitat Type: Tidal Mudflats



Habitat Type: Tidal Wetlands



Habitat Type: Waterfront Pier Pilings



WILDLIFE IMPACTS

• Birds (approx. 4,000)

Gulls Cormorants Pelicans

Grebes Shorebirds Waterfowl

Loons Alcids

- •Fish (Herring)
- •Intertidal Plants and Animals



HERRING SPAWNING AREAS



Spill-related Beach Closures



Pressure Washing at Angel Island



EXAMPLES OF PUBLIC USE AREAS AFFECTED BY THE SPILL

- Golden Gate National Recreation Area
- Point Reyes National Seashore
- Gulf of the Farallones National Marine Sanctuary
- Monterey Bay National Marine Sanctuary
- San Francisco Maritime National Historical Park
- Alcatraz Island
- Angel Island State Park
- Candlestick Point State Recreation Area
- Several Municipal Shorelines, Beaches, and Waterfronts

IMPACTED PUBLIC LANDS



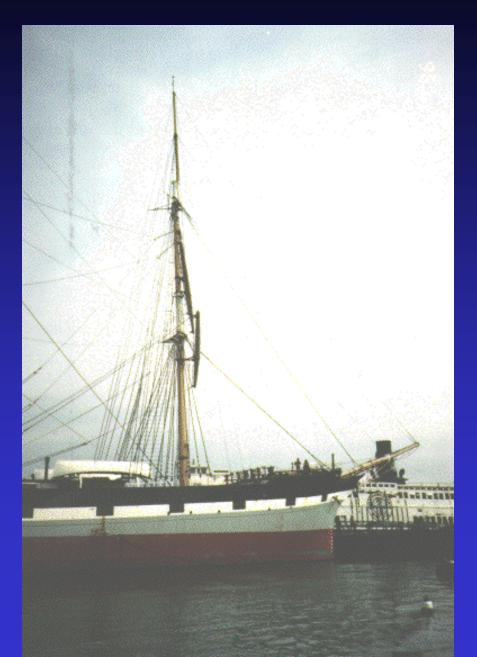
EXAMPLES OF HUMAN USES AFFECTED BY THE SPILL

- General Beach Use
- Walking, Jogging, Riding
- Sightseeing
- Wildlife Viewing
- Surfing
- Sport Fishing
- Recreational Boating
- Educational Trips
- Swimming

Recreational Boating



Historic Ships Oiled



- Primary Statutes
 - Clean Water Act
 - Oil Pollution Act
 - Park System Resources Protection Act
 - National Marine Sanctuaries Act
 - California Oil Spill Prevention and Response Act
 - California Fish and Game Code

- Trustees/Plaintiffs
 - California Department of Fish and Game
 - California Department of Parks and Recreation
 - U.S. Department of the Interior

National Park Service

Fish and Wildlife Service

National Oceanic and Atmospheric Administration

- Consent Decree
 - Approved by the Court on September 15, 1998
 - \$3,445,000 to restore injured natural and national park system resources
 - \$180,000 for State park areas and services
 - Provides for public input to Trustees in the development of a restoration plan
 - Requires funds be spent in accordance with law and with Memorandum of Understanding (MOU) signed by Trustees

- Memorandum of Understanding
 - Allocates funds to following categories:
 - * Sandy/Rocky Beach Habitat \$500,000
 - * Wetland/Mudflat Habitat \$400,000
 - * Fisheries and Water Quality \$425,000
 - * Bird Restoration and Enhancement \$800,000
 - *Lost Human Use of National and State Parks \$1,030,000
 - * Restoration Planning, Implementation, and Oversight - \$470,000

D R A F T

SS Cape Mohican Oil Spill Draft Restoration Plan and Environmental Assessment



Prepared by the SS Cape Mohican Trustee Council:

United States of America







State of California





THRESHOLD EVALUATION CRITERIA

Restoration Projects must:

- Be Technically Feasible
- Be Consistent with Restoration Goals
- Be Compliant with Laws
- Not Harm Public Health and Safety

ADDITIONAL EVALUATION CRITERIA

Restoration Projects should:

- Provide a close relationship to spill location, impacted natural resources and services
- Avoid further injuries
- Have a high likelihood of success
- Benefit multiple resources and services
- Provide timely benefits
- Provide protection and long-term duration of benefits
- Have potential collaborative funding
- Have high benefits relative to cost
- Have an accurate cost estimate
- Contribute to a comprehensive range of projects



Wetlands / Mudflats Habitat Category

- Giacomini Coastal Wetland Restoration \$435,348
- Hamilton Wetlands Restoration \$500,000

Sandy / Rocky Beach Habitat Category

- Sandy Beach Habitat Restoration at PRNS \$303,214
- Protection of Duxbury Reef through Education \$360,000

Fisheries and Water Quality Category

- •Herring Spawning Habitat Enhancement \$456,596
- •Wetland Restoration at Pier 98 \$146,920
- •Steelhead Stream Habitat Enhancement \$40,000
- •Wetland Enhancement at Pier 94 \$400,300

Bird Restoration Category

- Shorebird Habitat Protection at GGNRA \$23,500
- Least Tern Habitat Enhancement \$141,000
- Acquisition, Enhancement and Management of Red Rock \$800,000
- Exotic Cordgrass Wetlands Eradication \$246,000
- Farallon Island Seabird Restoration
 - a) Exotic Vegetation Control \$143,750
 - b) Removal of Concrete Slabs \$143,750
 - c) Control of Exotic Mice \$390,195
- Marin Islands Enhancement \$86,350

Lost Human Use Category

- •Angel Island State Park Trail Enhancement \$180,000
- •Crissy Restoration and Public Access \$850,000

NON-PREFERRED ALTERNATIVES

- Entry Triangle Marsh Wetland Restoration
- Bolinas Lagoon Wetland Restoration
- Tubbs Island Levee Setback
- Herring Stock Assessment
- Eelgrass Restoration in San Francisco Bay
- Creation of Artificial Herring Spawning Habitat
- Treasure Island Wetland Restoration
- Waterbird Conservation Project
- Big Lagoon Wetland Restoration Project
- Wetlands Walkway at Candlestick Point
- Tern Nesting Enhancement at Bair Island

