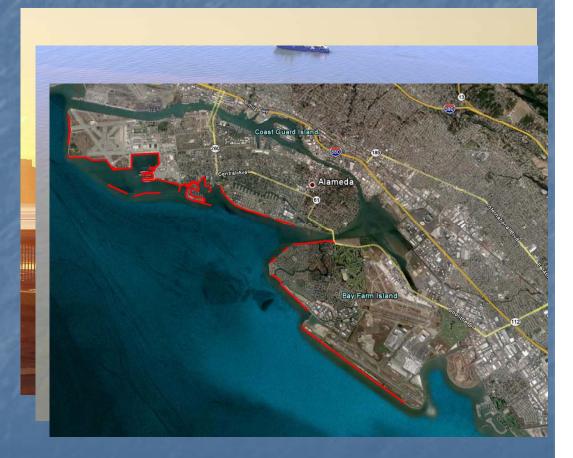
# Dubai Star Oil Spill NRDA

Beckye Stanton, DFG-OSPR Prevention First 2010 Symposium October 20, 2010; Long Beach, CA

# DUBAI STAR SPILL

Location – San Francisco Bay, south of Bay Bridge Spill – IFO 380 spilled during refueling on October 30, 2009 Oiling along Alameda shoreline



# **NRDA** Organization

Organize by Resource Subgroups Birds Shoreline Habitats Human Recreational Uses Participants Trustees – US FWS, CA DFG, NOAA Responsible Party Representatives Involvement by East Bay Regional Parks District









# IMPACTS TO BIRDS



## BIRD INJURY

Bird groups impacted

Shorebirds
Large Grebes
American Coots

Numbers of live and dead birds collected or observed
Estimate total mortality

BIRD RESTORATION Predator Exclusion Fence Elsie Roemer Bird Sanctuary

 Problem - Domestic predators impacting marsh birds
 Project - install fence to deter predators
 Benefits - increase bird survival



#### Impacts to Shoreline Habitats

 Habitats Impacted
 Rocky Intertidal
 Sandy Beach (Crown Beach)
 Tidal Flats and Eelgrass
 Salt Marsh



#### HEA – Acres Impacted

Use Response SCAT data for shoreline oiling

Oil band only - sandy beach and salt marsh
 Oil band and lower intertidal zone - rocky intertidal

Area of tidal flats and eelgrass adjacent to oiled shoreline

#### HEA – Level of Injury

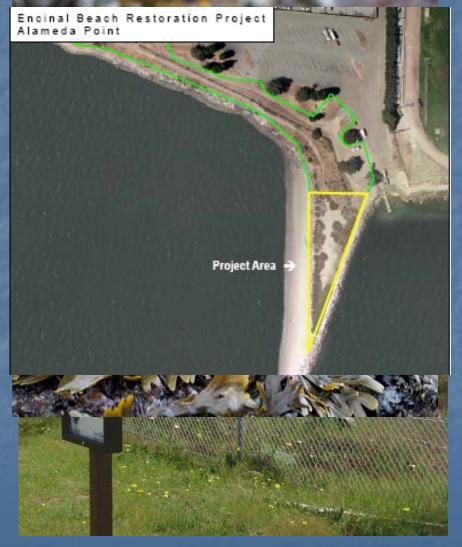
% oil cover from Response SCAT data
Smothering / Fouling by Oil
Rocky intertidal community surveys
PAH concentrations in bivalves and water
Response activities

## HEA – Recovery

Specific for each habitat type
Degree and duration of oiling
Life history of organisms

## Habitat Restoration Projects

- Rocky Intertidal
  - Fucus restoration via transplants
- Sandy Beach
  - Remove invasive plant species
  - Re-vegetate with native plant species
- Salt Marsh and Tidal Flats
  - Reduce and remove sand from Elsie Roemer marsh
  - Remove invasive plant species & re-vegetate with native plant species



#### IMPACTS TO HUMAN RECREATIONAL USES



#### Types of Human Recreational Uses

General Shoreline UseShore-based FishingBoating







### **Recreation Damages**

 $\frac{\text{Lost}}{\text{Value ($)}} = \begin{pmatrix} \text{Number of} \\ \text{Affected Trips} \end{pmatrix} \times \begin{pmatrix} \text{Value} \\ \text{per Trip} \end{pmatrix}$ 

•Lost Diverted Diminished

•Varies by Activity

#### Potential Recreational Use Projects

Projects to benefit
Shoreline use
Fishing
Boating
Near spill location, if possible

#### Questions?

Beckye Stanton, DFG-OS
 <u>bstanton@ospr.dfg.ca.go</u>
 Dubai Star NRDA info or
 <u>http://www.dfg.ca.gov/o</u>

Home \*> OSPR \*> Natural Resource Damage Assessment (NRDA) & Restoration \*> Dubai Star / San Francisco Bay Spill



#### Dubai Star / San Francisco Bay Spill

- LOCATION: San Francisco Bay
- DATE: October 30, 2009

Dubai Star

- INCIDENT SUMMARY: During a refueing incident, the T/V Dubai Star spilled 400-800 gallons of Intermediate Fuel OII (IFO 380) into San Francisco Bay at Anchorage 9 just south of the Bay Bridge. The spill affected more than 10 miles of storeline, from just north of the east approach of the Bay Bridge to San Leandro Bay along the Alameda coast line. The spill exaited in shoreline ling, juit mortalities, as well as beach and fsheries closures in the vicinity of Alameda Island.
- RESPONSIBLE PARTY: Harmony Shipping
- NATURAL RESOURCE TRUSTEE: California Department of Fish and Game, United States Fish and Wildlife Service, National Parks Service, National Oceanic and Atmospheric Administration.
- RESOURCES IMPACTED: Birds, shoreline habitats, and human recreational use.
- ->> STATUS OF RESTORATION: Pending. The Trustees and responsible party are currently assessing injury and potential restoration project alternatives