

2-652-A Site Summary - Benicia Marsh**2-652-A****County:** Solano **ACP Division/Segment:** SO - D - S016 SO - D - S017**NOAA Chart:** SUISUN BAY
18657/18652**Map Book:****Decimal Degrees:** 38.04358 -122.154032**Site Description:**

This site extends from the foot of First Street, Benicia, and continues to the east to the Benicia Warf. The site is on both sides of the Benicia Marina. This is an elongated pickleweed, salt-grass marsh. The front of the salt-marsh has a beach berm which separates the marsh behind from all but highest tides. Tidal exchange volume is relatively minor. There are several small tidal inlets which are mostly obstructed with vegetation. There is also a tide gate on the marina breakwall which admits tidal exchange to the salt-marsh from the marina to the tug pier at 5th Street. The marsh front is sedge, pickleweed mix; the upper marsh is salt-grass and pickleweed. Ownerships include City of Benicia and private holdings.

Resources at Risk:

ESI and Habitat: 10A Salt - and brackish-water marshes
8C Sheltered riprap
8B Sheltered solid man-made structures

List of Resources at Risk:

| | Resource Name | Status | Presence | Sensitivity |
|----------|-----------------------------|---------------|-----------------|--------------------|
| Birds | Suisun song sparrow | FP, SSC | | Mar-Jul |
| Birds | common yellowthroat | FP, SSC | | Jun-Aug |
| Fish | longfin smelt | ST | | Nov-May |
| Fish | chinook salmon - Winter-run | FE, SE | | Oct-May |
| Fish | delta smelt | FT, SE | | Mar-May |
| Mammals | salt-marsh harvest mouse | FE, SE | | |
| Reptiles | giant garter snake | FT, ST | | Jul-Oct |

FT-Federally Threatened, FE-Federally Endangered, FP-Federally Protected, SE-State Endangered, ST-State Threatened, SP -State Protected, SR-State Rare, SSC-Species of Special Concern, BGEPA-Bald and Golden Eagle Protection Act, SSSP-State Special Status Species

List of Key Contacts:

| Type | Name/Title | Organization | Phone |
|-------------|--------------------------------|---|----------------|
| C | /Coordinator | Native American Heritage Commission | (916) 373-3710 |
| C | /Coordinator | Northwest Information Center | (707) 588-8455 |
| E | /Office | Benicia Marina | (707) 745-2628 |
| E | /Office | Benicia State Recreation Area | (707) 648-1911 |
| O | /Dispatch, 24-hr | California Department of Water Resources | (916) 574-2714 |
| O | /Dispatch, 24-hr | California State Parks | (916) 358-1300 |
| T | /Environmental Program Manager | CA Dept. of Fish & Wildlife, Bay Delta Region | (707) 576-2837 |
| T | /Oil Spill Point of Contact | NOAA National Marine Fisheries Service | (707) 480-3496 |
| T | /Restoration Ecologist | US Department of Agriculture | (530) 304-2304 |
| T | /Spill Response Coordinator | USFWS, SF Bay-Delta Office | (916) 799-0588 |

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

Additional Site Summary Comments:

Several sensitive plant species occur in the area.

Concerns and Advice to Responders:

Primary concern is transport of oil to inner marsh and oiling of emergent marsh front. The strategy is to close the few small tidal inlets. If oil is crowded along shore, the marsh front may need protective booming or be used to collect at the designated locales. Avoid trampling marsh vegetation or tracking oil into marsh front or sediments.

Hazard and Restrictions:

This shoreline is shallow and has submerged obstructions.

Site Strategies:**Site Validation Level: II**

Strategy: 2-652.1 Objective: Exclusion boom tidal inlets.

Strategy: There are a half-dozen small, low current tidal inlets. Each can be closed by staking 10' or 20' boom segments with sorbent backing depolyed by a team on foot from land or water. There is also a tide gate on the east Benicia Marina channel bulkhead which must be closed to exclude oil from the marsh to the east. An alternative measure is to close tidal inlets with fill (which requires notification of BCDC and US Corps Engineers).

Table of Response Resources

| Equipment | Sub-Type | Size | Unit | QTY | Unit | Last Page Update |
|-----------|-----------------|------|------|-----|------|------------------|
| Boom | Sorbent | | | 150 | feet | |
| Anchor | Stakes | | | 15 | | |
| Staff | Staff to Deploy | | | 2 | | |

Strategy: 2-652.2 Objective: Protective booming of entire marsh front: When heavy or continuous re-oiling is eminent and deployment will not preempt other urgent need.

Strategy: Set 6X6+ swamp boom and sorbent boom as close to shoreline as possible with available shallow draft vessels. Stake and/or anchor in place. This strategy can be found in Potential Oil-Spill Protection Strategies for San Francisco Bay, California. (Hayes and Montelo, 1994).

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| Equipment | Sub-Type | Size | Unit | QTY | Unit | Last Page Update |
|-----------|-----------------|----------|------|------|------|------------------|
| Boom | Swamp | 6x6 inch | | 5000 | feet | |
| Boom | Sorbent | | | 1000 | feet | |
| Anchor | Danforth | 25 lb | | 11 | | |
| Anchor | Stakes | | | 20 | | |
| Vessel | Boom Boat | | | 2 | | |
| Vessel | Skiff or Punt | | | 1 | | |
| Staff | Staff to Deploy | | | 8 | | |

Logistics:

Directions: There is land access from I-780: exit at either East 5th Street and proceed to Bay or exit at East 2nd Street and proceed via First Street to bay front. Water access: the site is on both sides of the Benicia Marina breakwater across from Martinez Marina.

Land Access: Easy access to most shoreline.

On-Water Limitations: Shallow draft near shoreline, proceed with caution. Benicia Marina on site. Martinez Marina (1 mi. S).

Facilities, Staging Areas, Command Posts, Available Equipment: Stage at Martinez Marina, Benicia Marina or Benicia Wharf. Full services are available in both communities.

Communications Problems: Great Cell coverage.

