

## 2-310 -C/A Site Summary- Bay Farm Island Eelgrass Beds

2-310 -C/A

County: **Alameda**

Thomas Guide Location

Latitude N

Longitude W

3 7 44

122 15.5

USGS Quad: **Hunters Point / San Leandro**

NOAA Chart: **18649/18650 Entrance to SF Bay**

Last Page Update : 10/1/2002

### SITE DESCRIPTION:

This site extends from the tip of Bay Farm Island at San Leandro Channel (ferry landing) to the next point south. This reach is a shallow cove with a rip-rap margin and shallow water of up to 15' deep. It is a natural collection area for debris. The eelgrass beds begin about 50 ft off shore and are about 200 yards long.

### SEASONAL and SPECIAL RESOURCE CONCERN

This eelgrass bed has A-level protection priority when exposed. Herring spawning in eelgrass from November through April.

### RESOURCES OF PRIMARY CONCERN

The shallow cove is habitat for eelgrass and all associated species. Oil readily sticks to eelgrass. Eelgrass is a favored substrate for herring spawning November through April. It is also the sole food source for black brant during this same period.

Herring spawn in the eelgrass during the winter months (Nov-Feb) and viable eggs (Feb-Apr).

The eelgrass beds begin about 50 ft off shore and are about 200 yards long.

### CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

There are probably historic and cultural sites present. For specific information on historic or cultural resources in this area, contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison - (916) 653-9125), and the Northwest Information Center, (Bryan Much, Sonoma State College ((707) 332-1117)) for specific information on historic or cultural resources in this area.

### KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

| Type | Name / Title            | Organization                                    | Phone          |
|------|-------------------------|---|----------------|
| E/O  |                         | Oakland Airport Operations                      | (510) 563-3360 |
| EL   | City of Alameda, PD     | Alameda, City of, Police/non emergency          | (510) 747-4700 |
| T    | Liam Davis              | CA Dept. of Fish & Wildlife                     | (707) 644-2812 |
| E    | IMD USCG-YBI            | USCG  | (415) 399-3543 |
| ELBO | Amy Wooldridge Director | Alameda, City of, Dept. of Parks and Recreation | (510) 747-7570 |

### ADDITIONAL SITE SUMMARY COMMENTS:

## 2-310 -C/A Site Strategy - Bay Farm Island Eelgrass Beds

County and Thomas Guide Location

Alameda

NOAA CHART

18649/18650 Entrance to SF Bay

2-310 -C/A

Latitude N

3 7 44

Longitude W

122 15.5

Last Page Update : 12/15/2006

### CONCERNS and ADVICE to RESPONDERS:

Primary concern is oiling of eelgrass and its impacts on wildlife. This is a natural collection area for flotsam and can function as an effective oil collection site. Oil may become imbedded in the riprap.

### HAZARDS and RESTRICTIONS:

Riprap poses slip, trip and fall hazards. Vessels beware of shallows at margins.

### SITE STRATEGIES

Oakland Airport has an on-water exclusion zone along the shoreline near the NW end of the runway. Contact airport security to gain access to this area to implement the 0.1 strategy.

Strategy 2-310.1 Objective: Assess need for protective booming: Eelgrass is only vulnerable at very low tides when eelgrass tops are exposed to floating oil.

Biological staff must assess this site to determine if eelgrass is at risk. Because this bed is fairly deep, eelgrass tops are rarely exposed to floating oil, and then only at very low tides. Oil readily sticks to floating eelgrass tops, and once eelgrass gets fouled with oil, oil becomes a subsurface threat to fish and other organisms which thrive in this cover. Scientific staff must review tidal information to see if minus tides may result in eelgrass exposure, and must conduct on-site evaluation as necessary. Any booming recommendations should be expedited through ICS to operations.

Strategy 2-310.2 Objective: deflection boom from the runway point to divert oil borne on currents past cove.

This strategy is most appropriate if very low tides are likely to expose eelgrass. Deploy 2000 ft of 9X9+ Hboom from the point at the end of the runway angled to the shoreline to deflect oil past the pocket of the cove. This strategy will require heavy anchoring since current is very strong (2+knt at point); previous deployment attempts have failed if not properly anchored.

Strategy 2-310.3 Objective: Maximize oil capture at this locale with deflection to shore skimming unit.

a) Ebb Tide: deploy 1000' 9X9+ Hboom at an angle to direct oil to shore about 200'south of ferry landing. Complete with a lined capture and hold pocket (2000'4X4+Hboom). Line shore with 4X4+ and/or sorbent boom to keep oil from imbedding in riprap. Deploy additional 1000 ft Hboom to cascade oil into collection.

b) Flood Tide: skimmer and collection booms will need to be positioned in the pocket of the cove to effect recovery.

### Table of Response Resources

| strategy number | harbor boom | swamp boom | Other boom type | sorb boom | Anchoring no type and gear         | Boom boat | Skiffs punts | Skimmers No Type | Special Equipment or comment No and kinds | staff deploy | Staff tend |
|-----------------|-------------|------------|-----------------|-----------|------------------------------------|-----------|--------------|------------------|---|--------------|------------|
| 2-310.1         |             |            |                 |           |                                    |           |              |                  |   | 1            |            |
| 2-310.2         | 2000        |            |                 |           | 8 8/26#+ danforths/ 20'+ chain     | 1         | 1            |                  |   | 4            | 2          |
| 2-310.3         | 2000        | 2000       |                 |           | 9 9/22#+/danforth & chain + stakes | 2         | 2            | 1 SSS            |   | 8            |            |

### LOGISTICS

**DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)**

Land access is from I-880: exit at High St, continue south (left) on Doolittle across San Leandro Bay and then continue right (west) on Mecartney Rd bay front, Shoreline Park. By water the site is about a mile southeast from the marina at Robert Crown State Beach. This site extends from the tip of Bay Farm Island at San Leandro Channel (ferry landing) to the next point south.

**LAND ACCESS:** All.

**WATER LOGISTICS:** Beware of shallows at margins.

Limitations: depth, obstruction

Launching, Loading, Docking Launch and moorage across at Ballena Isle Marina, Alameda.  
and Services Available:

### FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Shoreline Park and Crown Beach can provide local field support and deployment sites. EBRP facilities at Crown Beach, Alameda may serve well as a field post.

### COMMUNICATIONS PROBLEMS:

**ADDITIONAL OPERATIONAL COMMENTS:** Oakland Airport has an exclusion zone within 200 yds of shoreline near the NW end of th

