

2-495-A Site Summary - Emeryville Lagoon/Mudflats**2-495-A****County:** Alameda **ACP Division/Segment:** AL - A - S024 AL - A - S027**NOAA Chart:** 18649/18650 Entrance **Map Book:** AAA West Contra **Decimal Degrees:** 37.831131 -122.306475
to SFBay**Site Description:**

The site is the embayment just north of the Oakland Bay Bridge Toll plaza and includes the salt-marsh east from the radio towers (south) to the opposite breakwater tip (north) at Emeryville. This west facing bay transitions from open water to shallows and mudflats to a southerly and easterly pickleweed marsh perimeter. The northerly margin is rip-rapped. At the easterly tip of the lagoon a tidal channel drains from the adjacent urban area east of I-80 and at the southeast corner is another channel which drains from the vicinity of the Oakland Sanitary Treatment Plant. There are sensitive eelgrass beds within this site. Eelgrass beds expand and contract annually, they thrive in shallow waters (< 10.0 ft). Eelgrass remains at risk only when at (< -0.5 ft) tides.

Resources at Risk:*ESI and Habitat:* 6B Riprap

9B Vegetated low banks

7 Exposed tidal flat

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California Ridgeway's rail	FE, SE		Feb-Aug
Birds	California black rail	FP, ST		Mar-Aug
Birds	Alameda song sparrow	SSC		
Birds	common yellowthroat	FP, SSC		Jun-Aug
Fish	longfin smelt	ST		Nov-May
Mammals	salt-marsh harvest mouse	FE, SE		
Plants	California seablite	FE, SSSP		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	/Dispatch, 24-hr	Alameda County Sheriffs Department	(510) 667-7721
E	/Dispatch, 24-hr	East Bay Regional Park District	(510) 881-1833
E	/Shoreline Park Supervisor	East Bay Regional Park District	(510) 881-1832
O	/Operations	California Department of Water Resources	(916) 574-2714
O	/Dispatch, 24-hr	The Marine Mammal Center	(415) 289-7350
T	/Agency Representative	NOAA National Marine Fisheries Service	(562) 980-3232

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

Additional Site Summary Comments:

Concerns and Advice to Responders:

The prime concern is to exclude oil from entering this bay and impacting birds and marsh perimeter. Cleanup of the salt-marsh habitat would be extremely difficult if not possible, and natural resource injuries would be significant. Responders should stay out of marshes and mudflats unless specifically directed and activity should be confined to the mouth of the lagoon.

Hazard and Restrictions:

Very shallow water at the southern and eastern margins. Possible submerged obstructions inside the bay mid to east end. Air traffic beware of radio towers.

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

Strategy: 2-495.1 Objective: Exclude/Deflect oil past the site and exclude it from entering lagoon by winds, waves and very light tidal current

Strategy: Deploy a continuous line of harbor boom (3600' 9X9+ Hboom) across the bay from the radio towers north to the Emeryville riprap. A collection may be successful at the Emeryville shore about 200 ft inland from mouth. If oil collects in skimable quantities (contact IC).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		3800	feet	
Anchor	Danforth	22 lb		8		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			8		

Strategy: 2-495.2 Objective: Exclude/Deflect oil when there are aggressive waves.

Strategy: Set cascading boom across the mouth according to the prevailing winds (diagram shows deployment for typical NW winds - adjust if other wind/wave conditions prevail). Deploy 4500' 9X9+ Hboom in 600-1200' lengths at an angle to the prevailing winds and waves. Divert oil to sandy beach west of radio towers on W to NW winds, or to Emeryville spit on S to SW winds, for shore recovery with shore-based skimmers. Link boom ends with sorbent to insure against oil eddying around boom. If oil is threatening to overwhelm the strategy, execute strategy .1 as a backup.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		4500	feet	
Boom	Sorbent			2000	feet	
Anchor	Danforth	22 lb		18		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
skimmer	shoreside			1		
Staff	Staff to Deploy			10		

Strategy: 2-495.3 Objective: Collection at shoreline favored by prevailing currents

Strategy: Collection sites are available at either north shore (Emeryville) or south shore (radio towers). Best location on Emeryville shore is inside mouth about 80 yards. Best location near radio towers is on sand spit (this area may become mudflat at some low tides) and may require site modification. Small amount of light boom and sorbents will be necessary to construct skimming pocket. Shoreside skimming system (SSS) for collectable oil quantities, else use pompoms or other sorbents.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		100	feet	
Boom	Pom-pom			50	feet	
Boom	Sorbent			200	feet	
Anchor	Danforth	22 lb		4		
Vessel	shoreside			1		
Staff	Staff to Deploy			2		

Logistics:

Directions: The site is the embayment just north of the Oakland Bay Bridge Toll plaza. The South side is accessible from the I-80 exist just before the toll plaza. Powell Street (exist from I-80 at Emeryville) borders the north margin. By boat, the nearest launch facility is at the Emeryville Marina at the end of Powell Street.

Land Access: All vehicles, all seasons on north and south access.

On-Water Limitations: Very shallow on south half occasional obstruction through out. The nearest lunch, gas, moorage and service is located at the Emeryville Marina on the north side of Emeryville Spit.

Facilities, Staging Areas, Command Posts, Available Equipment: Staging available at Emeryville Marina. Good service availability and security capability. Boom could be deployed directly from land to water from this local. Emeryville PD and Fire are nearby. Berkeley Marina is 3 miles to the north and provides similar capabilities.

Communications Problems: Good cell reception throughout area.

