

**County:** Monterey **ACP Division/Segment:** MT - B - S001**NOAA Chart:** 18685**Map Book:** 1055**Decimal Degrees:** 36.80617 -121.79041**Site Description:**

Moss Landing Harbor is spilt across the main channel of Elkhorn Slough into North Harbor and South Harbor; Highway 1 is the only route to travel between them by land. The Highway 1 bridge is the boundary between the Moss Landing and Elkhorn Slough ACP sites. Moss Landing Harbor is the primary commercial fishing port in the Monterey Bay region. The Marine Mammal Center operations for Monterey Bay are based out of Moss Landing Harbor. Moss Landing State Beach is adjacent to North Harbor. Moss Landing Beach (also called Island Beach or Sandholdt Beach) is adjacent to South Harbor. Moro Cojo Slough and the Old Salinas River channel empty into South Harbor. Tidal flats and salt marsh habitat are located within both North and South Harbor. Site is within the Monterey Bay National Marine Sanctuary. Nesting seabirds include Brandt's cormorant and Western gull. Significant brown pelican roosting site. Bank swallows were historically observed nesting in the area. Monterey ornate shrew has been observed south of South Harbor. Western snowy plovers frequent the sand beach in North Harbor and nest on Moss Landing State Beach Mar-Sep. Santa Cruz long-toed salamanders and California tiger salamanders are present in grassland habitat. Significant number of sea otters present year-round and often haul out inside the North Harbor jetty. Sensitive plant species in sand dune habitat.

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

7 Exposed tidal flat

8C Sheltered riprap

10A Salt - and brackish-water marshes

9A Sheltered tidal flats

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
Amphibians	California tiger salamander	FE, ST	Year-round	
Amphibians	Santa Cruz long-toed salamander	FE, SE	Year-round	
Birds	bank swallow	ST	Mar-Jul	Mar-Jul
Birds	seabird colony		Year-round	Apr-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	longfin smelt	ST	Year-round	Jan-Mar
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Mammals	Monterey ornate shrew	SSC	Year-round	Feb-Oct
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Monterey gilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	saline clover	SR	Year-round	

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	/Duty Phone, 24-hr	Moss Landing Harbor District	(831) 633-2461
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

**Additional Site Summary Comments:**

US Ecology stores response equipment in South Harbor. Moss Landing Power Plant is located directly east of South Harbor which includes a seawater intake; see Economic Site section. Moss Landing Marine Laboratories Aquaculture Facility operates a seawater intake that serves multiple end users in Moss Landing and utilizes a rapid alert system; see Economic Site section. Heavy on-water recreational use out of North Harbor during the summer. Surf area at Moss Landing Beach.

**Concerns and Advice to Responders:**

Heavy on-water recreational use out of North Harbor during the summer. Surf area at Moss Landing Beach. Western snowy plovers frequent the sand beach inside North Harbor and nest on Moss Landing State Beach Mar-Sep. Endangered Santa Cruz long-toed salamanders and threatened California tiger salamanders are present in grassland habitat. Large population of sea otters. Sensitive plant species in sand dune habitat.

**Hazard and Restrictions:**

Strong tidal current velocity through main channel. Tide conditions may limit vessel access beneath the Highway 1 bridge; maximum air draft 8 feet.

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

**Strategy: 3-305.1 Objective:** Deploy boom to protect Moss Landing North Harbor and Elkhorn Slough.

**Strategy:** This strategy may be utilized as an alternative or as a secondary containment for strategy 3-310.2. Deploy 1400 feet of boom from the harbor entrance north jetty to the south-west side of Highway 1 bridge. Both locations have permanent anchor points available. On the west side of Highway 1, the second anchor point away from the mouth of the slough should be used. Attach Danforth anchors or an additional 400 feet of boom angled back towards the Highway 1 bridge to prevent entrainment.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1800	feet	
Boom	Sorbent			1800	feet	
Anchor	Danforth	43 pound		4		
Vessel	Skiff or Punt			2		
Staff				6		

**Strategy: 3-305.2 Objective:** Deploy boom to protect South Harbor.

**Strategy:** If a spill originates in the harbor this strategy would be implemented prior to 3-310.2. Deploy 1200 feet of boom from a location 200 feet south of permanent anchor point on Highway 1 (at the small sand beach) across south harbor to the southern extent of the sandy beach inside of the break wall (just north of Moss Landing Boat Works). Anchor boom if needed to prevent entrainment. Deploy sorbent boom behind hard boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			1200	feet	
Boom	Sorbent			1200	feet	
Anchor	Danforth	43 pound		2		
Vessel	Skiff or Punt			2		
Staff				4		

**Strategy: 3-305.3 Objective:** Deploy boom for additional protection of North Harbor.

**Strategy:** If oil cannot be contained within the main channel, deploy 900 feet of boom from the tip of the north inner harbor jetty across the north harbor entrance to the base of the boat ramp. Deploy sorbent boom behind hard boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			900	feet	
Boom	Sorbent			900	feet	
Anchor	Danforth	43 pu		2		
Vessel	Skiff or Punt			1		
Staff				4		

**Logistics:**

*Directions:* Moss Landing North Harbor parking (2486 CA-1, Moss Landing, CA 95039); over 200 parking spaces. Moss Landing South Harbor parking (7881 Sandholdt Rd, Moss Landing, CA 95039); over 200 parking spaces. Harbor District office in South Harbor.

*Land Access:* North channel entrance via Jetty Rd. (36.808350°, -121.788748°). South channel entrance via Sandholdt Rd. (36.806439°, -121.787903°).

*On-Water Limitations:* Launch ramps in North Harbor.

*Facilities, Staging Areas, Command Posts, Available Equipment:* US Ecology stores response equipment in South Harbor. Fuel dock in South Harbor. Moss Landing Harbor parking lots may be suitable for staging areas (north lot 3.8 acres, south lot 3 acres). Moss Landing Power Plant conference room may be available for use as a command post. Restrooms at North and South Harbor.

*Communications Problems:* None.

