

2-166-A Site Summary - Sand Point to Toms Point**2-166-A****County:** Marin**ACP Division/Segment:** MR - B - S001 MR - B - S002**NOAA Chart:** Bodega and Tomales Bays 18643
Map Book: Marin County**Decimal Degrees:** 38.227318 -122.956894**Site Description:**

Site includes shoreline and tidal areas east of the mouth of Tomales Bay from Sand Point to Vincent Landing, which is east of Tom's Point. Also included in the site are the extensive mudflat islands between Sand Point and Tom's Point: Clam Island and Seal Island. Site lies within the Greater Farallones National Marine Sanctuary. Though most of the current of Tomales Bay flows through the main channel, a secondary channel splits off perpendicularly (to the east) at Sand Point resulting in strong tidal currents, on both ebb and flood. This channel divides and subsequent channels and bars change rapidly and often. There is a lot of sediment and debris deposition here, both on the bars and the shorelines. Only a few locals know how to navigate the waters without fear of grounding. Mudflats and islands are rich in invertebrates and sustain heavy use by both man and dense migratory bird populations. The southern tip of the mudflat islands are also heavily used by pinnipeds as haulouts. The shallow intertidal also has extensive eelgrass beds. The north (Lawson's Landing - Sand Pt) and eastern margins are extensive sand beaches, Brazil Beach on the east. Just to the east of Tom's Pt is a large freshwater - saltwater marsh on the Audubon Canyon Ranch lands. The margins are in private ownerships: Lawson's Landing is heavily used by vacationers and day users; private individuals and Audubon own the eastern margin.

Resources at Risk:*ESI and Habitat:* 5 Mixed sand and gravel beaches

9B Vegetated low banks

3A Fine- to medium-grained sand beaches

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	tri-colored blackbirds	FP, SSC	Year-round	Mar-Apr
Birds	California black rail	FP, ST	Year-round	Mar-Aug
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Oct
Fish	longfin smelt	ST	Year-round	Nov-May
Fish	Pacific herring		Year-round	Nov-Apr
Fishery	clamming - Sport		Year-round	
Mammals	porpoises	FP	Year-round	Mar-Jun
Plants	eelgrass		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

Additional Site Summary Comments:

This area is highly diverse with many migratory shorebirds, waterfowl, herons, a large number of harbor seals etc. Several sensitive plant species occur here, including Point Reyes salty bird's beak.

Concerns and Advice to Responders:

Oil at this site may be detrimental to the wetlands, clams beds, eelgrass beds, marine mammals and waterfowl that use this site. The concerns are oil contamination and response activity impacts to wetlands, rare and endangered species, and other vulnerable plants and wildlife which are present throughout the year. The primary objective is to minimize the exposure of oil to plants, animals and habitats present at this site. Other concerns are the impacts resulting from response activities. Avoid trampling wetlands, sensitive plants and animals, and soft mudflats, causing penetration of oil into the sediments and further injury to the environment.

Hazard and Restrictions:

Extremely strong tidal currents near the mouth of the bay. Shallow tidal bars and flats exist throughout the bay. Submerged oyster aquaculture facility structures common on the eastern side of the central bay.

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

Strategy: 2-166.1 Objective: exclusion/deflection/collection: when severe oil impacts are threatening, exclude oil entry by deflection to shoreside beach collection at Lawson's Landing.

Strategy: Cascade three 500 foot sections of Harbor boom in the channel south of Lawson's Landing to deflect oil north away from Clam Island (just off shore) and onto the sand beach at Lawson's Landing east of Sand Point. The boom must be deployed at sharp angles to the swift along-shore current to avoid entrainment of oil under booms. One boom boat and a skiff are needed to deploy the boom. Use 50ft of Oil Snare (OS) and/or 100ft of sorbent boom to collect oil that may have accumulated, and a collection site may need to be excavated on the sand beaches at Lawson's Landing. (This strategy is to be joined to the primary exclusion/collection strategy for Tomales Bay 164.2 .) Consult IC if oil begins to occur in skimmable quantities.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		1500	feet	
Boom	Oil Snare (pom-pom)			50	feet	
Boom	Sorbent			100		
Anchor	Danforth	25 lb		11		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-166.2 Objective: Diversion to shore / Collection at eastern Brazil Beach when severe oil impacts are threatening.

Strategy: Oil may be deflected to Brazil Beach by cascading several sections of boom from the north end of Seal Island to the southeast end of Brazil Beach. Up to 2,000 feet of 9X9+ curtain boom and heavy anchors are needed to accomplish this task. One shallow draft boom boat and a skiff will be needed to deploy and anchor the boom. Use 50ft of Oil Snare (OS) and/or 100ft of sorbent boom to collect oil that may have accumulated and Consult IC if oil begins to occur in skimmable quantities. This strategy may be reversed if oil is to be collected on the ebb. There is a lot of ebb current causing this area to be a natural collection site.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		2000	feet	
Boom	Oil Snare (pom-pom)			50	feet	
Boom	Sorbent			100	feet	
Anchor	Danforth	25 lb		7		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-166.3 Objective: Collection and Skimming for 2-166.1 and 2-166.2 boom deployments if significant quantities of oil can be accumulated.

Strategy: Use skimmer to collect oil if it accumulates in skimmable quantities as a result of strategies 2-166.1 and 2-166.2. A shore side skimmer and a portable storage device can be located at Lawson's Landing (2-166.1) or at east side of Brazil Beach. Good access at both locations. Permission of owners (particularly at 2-166.2) is important (See DFG for private owner contacts for entry and using shoreside roads and ramp).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
skimmer	shoreside			1		
Staff	Staff to Deploy			3		

Logistics:

Directions: Highway 1 follows the eastern shoreline of Tomales Bay. To get to Hwy 1 from Hwy 101: in San Rafael, take the Sir Francis Drake exit and proceed west to Olema and Pt. Reyes Station; in Petaluma, take the Pt. Reyes Petaluma Road to Pt. Reyes Station at the head of the bay, or take the Tomales Petaluma Road to the mouth of the bay.

Land Access: Access through private land. Obtain owners permission before access.

On-Water Limitations: Very shallow water, shallow draft boats only. Vessel launch at Lawson's Landing and Nick's Cove.

Facilities, Staging Areas, Command Posts, Available Equipment: Staging and facilities at Lawson's Landing. Staging at Nick's Cove.

Communications Problems: Cell reception varies on outer coast.

Additional Operational Comments: No Strategy was listed.

