

2-425-A Site Summary - Corte Madera Marshes**2-425-A****County:** Marin**ACP Division/Segment:** MR - T - S001 MR - T - S005**NOAA Chart:** 18649 Entrance to SF Bay**Map Book:****Decimal Degrees:** 37.932787 -122.506461**Site Description:**

The site includes the salt-marshes and mudflats from Corte Madera Channel to Paradise Cay Yacht Harbor and the marshes up Corte Madera Creek. This site also includes Corte Madera Marsh State Marine Park. The site is a very shallow embayment with a prograding shoreline and an emergent salt-marsh at the back bay. Historically, the high marsh had been diked. The diked marshes are now open to tidal exchange, and the north half is the Corte Madera State Ecological Reserve, owned and managed by the CA Dept of Fish and Wildlife. The mudflats in front are very shallow, and there is rarely any significant wave action here. Special Status Species are found here year-round. The site is heavily used by migratory shorebirds and waterfowl during the fall and winter months.

Resources at Risk:*ESI and Habitat:* 10A Salt - and brackish-water marshes

6B Riprap

9B Vegetated low banks

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California Ridgeway's rail	FE, SE	Year-round	Mar - Aug
Birds	California black rail	FP, ST	Year-round	Mar - Jul
Fish	longfin smelt	ST	Year-round	Nov - May
Fish	steelhead - Central/Northern California	FT	Year-round	Jan - Apr
Mammals	salt-marsh harvest mouse	FE, SE	Year-round	Mar - Nov
Mammals	harbor seal	FP	Year-round	Mar-Jul
Plants	Pt. Reyes bird's-beak	SSSP	Year-round	Jul - Oct
Plants	salt marsh bird's beak	FE, SE	Year-round	May - 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	/Emergency Contact (24hr)	Marin County Emergency 911	(415) 472-0911
E	/Emergency Service Coordinator	Marin County Office of Emergency Services	(415) 250-0267
E	/Dispatch, 24-hr	Marin County Sheriff's Department	(415) 479-2311
O	/Office	Audubon Society, Marin County Chapter	(415) 924-6057
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:

There are a number of different habitats at risk at this site.

Concerns and Advice to Responders:

The salt-marshes are very sensitive, with protected species, and are almost impossible to clean or rehabilitate. There are additional marshes up Corte Madera Creek. The strategy is to exclude oil from being carried into the back marsh by closing small tidal inlets and excluding oil from the entire site by cascading boom across the entire marshfront landward of the currents and eddies.

Hazard and Restrictions:

There are shallows and obstructions throughout the bay. Local knowledge is important for navigation here. Larkspur Ferry vessels need access unless vessel traffic is closed by USCG.

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

Strategy: 2-425.1 Objective: Exclude oil from entering tidal inlets.

Strategy: At the marshfront, deploy boom across each of the eight tidal sloughs at the margin of the emergent marsh using short lengths of 100 feet of swamp boom backed with sorbent and staked in place.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		900	feet	
Boom	Sorbent			900	feet	
Anchor	Danforth	22 lb		16		
Anchor	Stakes			16		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			6		

Strategy: 2-425.2 Objective: Exclude oil from entering Creek mouth.

Strategy: Deploy 800 ft of 9X9+ Hboom at a diagonal across the mouth of Corte Madera, from the north shoreline next to Ferry terminal, across Corda Madera Creek using green channel marker: G "17" as midpoint, to south shore. Ensure exclusion of large inlet on south shore and sufficient boom to provide shore seals during tide changes.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		800	feet	
Anchor	Danforth	22 lb		5		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-425.3 Objective: Exclude oil from entering cove mouth, creek, and tidal creeks

Strategy: To exclude oil from cove, boom across cove (6000' 9X9+ and 1500'6X6+ in 1000' or smaller lengths) from San Quentin Prison shoreline (DO NOT ACCESS SHORELINE without making arrangements through Marin Co OES) directly south to a dock at a school north of Paradise Cay. Boom may be continuous or keep cascades close together to maintain exclusion (leave trailing ends and tie together or close gaps with boom and sorbent). In the Corte Madera Channel, cascade boom to leave a passage though the boom for boat traffic (ferry traffic).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		6000	feet	
Boom	Swamp	6x6 inch		1500	feet	
Anchor	Danforth	22 lb		22		
Vessel	Boom Boat			3		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			12		

Logistics:

Directions: By water the site is just south of Pt. San Quentin and may be accessible via Corte Madera Channel. Nearest land access is from Paradise Drive and Antilles Way (to Paradise Cay Harbor) on the south side, and on Pt. San Quentin Francisco Road (first exit off I-580 west of San Rafael Bridge).

Land Access: Access to salt-marshes thru adjacent parking lots.

On-Water Limitations: Exceedingly shallow - only very shallow draft boats. Nearest launching is NOAA ramp on Tiburon Peninsula. Morage and fuel available at Paradise Cay. Also launching at Loch Lomond Marina, San Rafael.

Facilities, Staging Areas, Command Posts, Available Equipment: Best staging at NOAA-NFMS Marin center or Paradise Cay Harbor. Also possible staging at Paradise Cove Park. Facilities are available in Corte Madera, Sausalito, and San Rafael. Zone staging at Richmond.

Communications Problems: Good cell reception throughout.

