

**2-426-A Site Summary - San Rafael Creek Marsh****2-426-A****County:** Marin**ACP Division/Segment:** MR - U - S002 MR - U - S007**NOAA Chart:** 18649 Entrance to SF Bay**Map Book:** Marin County**Decimal Degrees:** 37.96839 -122.488505**Site Description:**

This site is San Rafael Creek and the bay fringe salt-marsh and mudflats for one mile north and south of the creek mouth. The marginal salt-marsh habitat near mouth of channel supports several listed, migratory and residential species. The navigation channel connecting San Rafael Marina with San Francisco Bay passes through mud flats and salt-marshes extending about one half mile on each side. The entire area is largely sheltered from north, west and southwesterly winds. San Rafael Creek provides access to significant recreational boating activity from both local residential berths and marinas.

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

8B Sheltered solid man-made structures

10A Salt - and brackish-water marshes

**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
Mammals	salt-marsh harvest mouse	FE, SE	Year-round	Mar - Nov
Plants	Pt. Reyes bird's-beak	SSSP	Year-round	Jul - Oct
Plants	Marin dwarf-flax	FT, ST	Year-round	Apr - Jul

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

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

**Additional Site Summary Comments:**

The site is heavily used by migratory shorebirds during the fall and winter months.

**Concerns and Advice to Responders:**

The concern is to prevent oil from entering the creek (and oiling upstream marshes and marinas) and to protect the salt-marshes and mudflats on for about a mile on sides of the channel. All this area has wildlife (including endangered species) and would be difficult to clean if oiled. Avoid disturbing marsh vegetation or trampling oil into sediments.

**Hazard and Restrictions:**

Air operations, beware of overhead high voltage powerlines. Very shallow mud flats out side of channels. Beware of submerged hazards i.e. old pilings.

**Site Strategies:****Site Validation Level: III**

**Strategy: 2-426.1 Objective:** Exclusion from San Rafael Creek and local harbors

*Strategy:* Exclude oil with 9X9+ Hboom (3,000 ft) to close off San Rafael Creek Channel mouth and the yacht harbor entrance. Leave a cascaded chevron opening in the channel mouths to allow vessel passage but still exclude oil.

If heavy oil threat is threatening, contact IC for deployment of on-water recovery should be conducted with a skimmer (weir) near the mouth of the creek and in front of the mud flats north of the yacht harbor.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		3800	feet	<i>Strategy Updated: 1/26/2017</i>
Anchor	Danforth	22 lb		12		<i>Last Test: 1/26/2017</i>
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

**Strategy: 2-426.2 Objective:** Shoreline protection when marsh margins are threatened by potential oiling - north and south of creek mouth.

*Strategy:* Deploy 6,900 ft of 9X9+ Hboom (2500 south of the channel the remainder to the north) to protect the mudflats and marshfront. Use swamp boom (Approx. 600 ft) to connect the harbor boom to the shoreline across shallow mudflats.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		6900	feet	
Boom	Swamp	6x6 inch		600	feet	
Anchor	Danforth	22 lb		18		
Vessel	Boom Boat			3		
Vessel	Skiff or Punt			2		
Staff	Staff to Deploy			12		

**Logistics:**

*Directions:* From the Richmond-San Rafael Bridge, take Highway 101 north to the San Rafael Marina. Also, Loch Lomond Marina may be used as staging and deployment area: Exit Hwy 101 at 3rd St. and proceed east. 3rd becomes Point San Pedro Rd.

*Land Access:* Some areas only by foot, contact Marin Co Open Space Rangers for access to shoreline, or access by vessel.

*On-Water Limitations:* Extremely shallow water out of channels, launching, fuel, moorage at Loch Lomond Marina. More services up San Rafael Creek

*Facilities, Staging Areas, Command Posts, Available Equipment:* All manner of facilities in San Rafael Creek Marinas. Staging at Loch Lomond Marina.

*Communications Problems:* Good cell reception.

