

County: **Marin**  
USGS Quad: **7.5" Quad: San Quentin**

Thomas Guide Location

Latitude N

Longitude W

3 7 58

122 29

NOAA Chart: **18649 Entrance to SF Bay**

Last Page Update : 7/1/2016

**SITE DESCRIPTION:**

This site is San Rafael Creek and the bay margins and mudflats for 1 mile north and south of the channel mouth. The navigation channel connecting San Rafael Marina with San Francisco Bay passes through mud flats and marshes extending about one half mile on each side.

**SEASONAL and SPECIAL RESOURCE CONCERNS**

This is an A priority all year.

**RESOURCES OF PRIMARY CONCERN**

There are marshes, mudflats, and other habitats present which are habitat for a wide variety of species. The entire area is largely sheltered. The adjacent mudflats are heavily used by migratory shorebirds during the fall and winter.

The area is heavily used by migratory shorebirds during the fall and winter. The endangered California clapper rail inhabits this marsh.

The endangered saltmarsh harvest mouse is also found here.

**CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES**

Contact the California Dept of Parks and Recreation - Office of Historic Preservation (Eric Allison -(916) 653-9125), and the Northwest Information Center, (Bryan Much, Sonoma State College ((707) 332-1117)) for specific information on historic or cultural resources in this area.

**KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)**

Type	Name / Title	Organization	Phone
E/T	Marin County OES (Office Main	Marin, County of, Sheriff/Office of Emergency Serv	(415) 473-6584
B	Barbra Salzman	Audubon Society, Marin County Chapter	(415) 924-6057

**ADDITIONAL SITE SUMMARY COMMENTS:**

## 2-426 -A Site Strategy - San Rafael Creek Marsh

County and Thomas Guide Location

Marin

NOAA CHART

18649 Entrance to SF Bay

## 2-426 -A

Latitude N

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### 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 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 muds.

### HAZARDS and RESTRICTIONS:

Very shallow mud flats out side of channels

## SITE STRATEGIES

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

Exclude oil with 9X9+ Hboom (3,800 ft) to close off San Rafael Creek Channel mouth and the yacht harbor entrance. Anchor placement as needed to maintain configuration. 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.

### Strategy 2-426.2 Objective: Shoreline protection when marshy margins are threatened by severe oiling - north and south of creek mouth.

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 (Appox. 600 ft) to connect the harbor boom to the shoreline across shallow mudflats.

### Table of Response Resources

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no type and gear	Boom boat	Skiffs punts	Skimmers No Type	Special Equipment or comment and kinds	staff deploy	Staff tend
2-426.1	3800				12 8/22+/danforths & stakes	1	1		Very Shallow draft boom boats.	5	
2-426.2	6900	600			8 8/22+/danforths & stakes	3	2		Very Shallow draft boom boats.	12	

## LOGISTICS

### DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

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 Pt San Pedro Rd. This site is San Rafael Creek and the bay margins and mudflats for 1 mile north and south of the channel mouth.

**LAND ACCESS:** some portions only foot; paved roads

**WATER LOGISTICS:** extremely shallow water out of channels

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: launching, fuel, moorage at Loch Lomond Marina. More services up San Rafael Creek

### FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

All manner of facilities in San Rafael Creek marinas. Staging at Loch Lomond Marina. The San Rafael Rock Quarry can be used for a helicopter pad.

**COMMUNICATIONS PROBLEMS:** none known

### ADDITIONAL OPERATIONAL COMMENTS:



Imagery: NAIP 2010 (Summer) 4-Band

