

## 2-421 -B/X Site Summary- Paradise Cove & Tiburon Peninsula

2-421 -B/X

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

Thomas Guide Location

AAA - Mill Vall

Latitude N

3 7 54

Longitude W

122 27

NOAA Chart: **Entrance to San Francisco Bay 18649**

Last Page Update : 10/1/2005

### SITE DESCRIPTION:

The eastern shore of the Tiburon Peninsula from Bluff Point in the south to north of El Campo (north of Paradise Cove). The current from the north sweeps past the peninsula so that oil and debris collect here naturally. This was the pattern of a previous spill and is why strategies and focus has developed at this locale. There are a variety of shoreline types on the Tiburon Peninsula. They vary from rock bluff and platform to cobble and sand beaches. Most are exposed to moderate and high energy from boat wakes, wind waves, and strong currents. Public health and safety along with birds feeding on the beaches and in nearshore waters are the major concerns. The Tiburon Peninsula is a residential area but includes Paradise Cove County Park. Other than the county park, most shorelines are accessible only by water.

### SEASONAL and SPECIAL RESOURCE CONCERN

When brown pelicans or seals are using the area, sensitivity concerns increase.

### RESOURCES OF PRIMARY CONCERN

The shoreline is rocky and variable and includes some sandy shores in Paradise Cove and other pocket beaches. The bottom drops away steeply.

Brown pelicans, cormorants and other seabirds occasion this area for resting and feeding

Harbor seals and sealions forage here.

Herring spawn on submerged pilings in the winter time (Nov-Feb) & viable eggs (Feb-Apr).

### 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	Chief Ranger Dispatch	Marin, County of, Open Space District	(415) 472-0911
BTLE	Ari Golan Chief Open Space Ranger	Marin, County of, Open Space District	(415) 499-6387
E	Marin County OES (Office Main	Marin, County of, Sheriff/Office of Emergency Serv	(415) 473-6584
O	Bill Price Rchrdn Bay, Reg. Co. Ad	Marin, County of	(415) 971-3919

### ADDITIONAL SITE SUMMARY COMMENTS:

## 2-421 -B/X Site Strategy - Paradise Cove & Tiburon Peninsula

County and Thomas Guide Location

AAA - Mill Vall Marin

NOAA CHART

Entrance to San Francisco Bay 18649

## 2-421 -B/X

Latitude N

Longitude W

3 7 54

122 27

Last Page Update : 7/1/2005

### CONCERNS and ADVICE to RESPONDERS:

This is a natural collection zone: oil tends to collect in nearshore eddies, particularly in the southern part of the Paradise Cove adjacent to Pt Chauncey, but little comes ashore. Skimmable quantities of oil can be easily collected by self propelled skimmers because the waters are deep. Natural resources of concern are brown pelicans and other birds which use this area for feeding and roosting.

### HAZARDS and RESTRICTIONS:

Submerged rocks along most beaches, steep cliffs along most shorelines.

### SITE STRATEGIES

Waters near shore are deep. Currents follow the depth contours and are strong. This is a natural collection zone: oil tends to collect in nearshore eddies, particularly in the southern part of the cove adjacent to Pt Chauncey, but little comes ashore. Skimmable quantities of oil can be easily collected by self propelled skimmers operating near shore because the waters are deep, and skimmable quantities of oil should be reported to Operations. During the flood tide, on-water recovery may be effective by locating an on-water skimmer at the tail edge of the El Campo diversionary boom: a selfpropelled skimmer is recommended for such skimming.

Strategy 2-421.1 Objective: At Paradise cove, deflect to collection during ebb and away from shores during flood

Deploy 1000 ft 9X9+ deflection booms at both Point Chauncey and El Campo to deflect/divert oil out of currents into nearshore eddies, on ebb tides. Same boom set will also help keep oil in current.

To minimize oiling of Paradise Cove shoreline, use 4,500 ft of boom, swamp boom (4X4+) under most conditions (and 9X9+ when there is chop at this protected location).

Strategy 2-421.2 Objective: At Bluff Point, deflect oil to natural collection sites

Deploy boom from the two points north of Bluff Point to deflect oil to natural collection sites: 600 ft of 9X9+ Hboom should be deployed from the shore just north of each point at 40 degree angles into the current at about to direct eddying oil to shoreline. Depending on oil type, oil snare or sorbents at shore may aid collection and reduce shoreline cleanup.

### 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 No and kinds	staff deploy	Staff tend
2-421.1	2000	4500		0	13 22# danforths w. 5/16" chain	2	1	0		8	2
2-421.2	1200	0	600 OS	0	0	1	0	0		3	

### 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 south and exit at Paradise Drive. Proceed to Paradise Beach County Park. The eastern shore of the Tiburon Peninsula from Bluff Point in the south to north of El Campo (north of Paradise Cove).

**LAND ACCESS:** Paved to P C County Park & T Oceanographic Center. Foot traffic beyond

**WATER LOGISTICS:** generally good. occasional submerged rocks, small surf possible,

Limitations: depth, obstruction

Launching, Loading, Docking Services at Sausalito and Richmond  
and Services Available:

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

The P C County Park and Tiburon Oceanographic Center may be used as a staging area or field office; the cement pier may be used as an anchor point.

**COMMUNICATIONS PROBLEMS:** none known

### ADDITIONAL OPERATIONAL COMMENTS:

