

County: **Sacramento**
USGS Quad: **Jersey Island**

Thomas Guide Location

Latitude N Longitude W
38 06.5 121 41.2

NOAA Chart: **18661 Sacramento & San Joaquin River**

Last Page Update : 7/1/2005

SITE DESCRIPTION:

This Slough is about 3.5 mile long from its mouth on the Sacramento River to its mouth on the San Joaquin River. Site also includes the westerly end of Sevenmile Slough. This swift flowing channel is rippapped on most of its steep banks. There are pockets of riparian vegetation. Brannon Island State Park borders its northwestern edge. There are pockets of emergent growth along its length, particularly in the Sevenmile Slough channel at the State Park. More significant than within reach resources, is the role this reach plays in Delta circulation: it is a key control point to prevent oil spread from one side of the Delta (Sacramento River vs San Joaquin) to the other.

SEASONAL and SPECIAL RESOURCE CONCERN

This is a key site in containing the spread of oil. There are significant resource here all year but overwhelming concern is to prevent oil movement between Sacramento and San Joaquin River systems.

RESOURCES OF PRIMARY CONCERN

Riparian and wetland habitat is prominent in Brannan Island State Recreation Area. This Slough is also a key location for habitats in general since it permits flow (and spread of oil) between central and northwest Delta.

Riverine bird life here is typical and unremarkable for the area. Greater sandhill cranes (ST) winter in the nearby interior of Sherman Island.

Emergent vegetation is spawning habitat for Delta smelt (FT/SE), and their fry are commonly present in moderate to high densities. This waterway is also within the zone of highest concern for winter-run chinook salmon (F/SE) smolts from September through May.

Sensitive plant species found here include Suisun marsh aster, Delta tule pea, Mason's lilaeopsis (SR), and Antioch dunes evening primrose (F/SE).

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
TL	Ron Breen	NOAA, National Marine Fisheries Service	(562) 980-3232
		CA Dept. of Parks & Recreation	(916) 445-7373
O	Robert Clark	North Delta Water Agency	(916) 446-0197
	John Henderson F/W Biologist	US Fish & Wildlife Service, Environmental Contam	(916) 414-6595
	Eric Larson	CA Dept. of Fish & Wildlife, Bay/Delta	(707) 944-5528

ADDITIONAL SITE SUMMARY COMMENTS:

2-790 -B Site Strategy - Three Mile Slough - San Joaquin River

County and Thomas Guide Location

Sacramento

NOAA CHART

18661 Sacramento & San Joaquin River

2-790 -B

Latitude N

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CONCERNS and ADVICE to RESPONDERS:

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The big concern here is oil movement from San Joaquin to Sacramento: there is a big cross-flow which this strategy attempts to confront by exclusion at mouth and diversion to collection for any entraining oil.

HAZARDS and RESTRICTIONS:

Steep eroded banks and areas of thick vegetation. Narrow road and narrow shoulders creates a hazardous situation. Traffic control should be implemented at this site.

SITE STRATEGIES

Once oil enters channel, it will be difficult to control, confine, and collect: currents are strong and channel is deep. Primary exclusion is best opportunity to prevent oil spreading to Sacramento River system.

Strategy 2-790.1 Objective: Primary exclusion at mouth on San Joaquin to prevent spreading to Sacramento River side. Oil can move through slough on ebb or flood

Deploy 3000' 9X9+ exclusion boom across the San Joaquin River mouth of 3-mile Slough. Anchor in a shallow chevron configuration to encourage oil to slide past the mouth. Boom can be delivered to site from shore from Sherman Island Levee Road.

Strategy 2-790.2 Objective: Diversion to shoreside confinement for collection

Backup the capture system with collection boom(s) (3000' 9x9+) diagonally across the slough to favorable collection points for land-based collection. Both levees (west on Sherman Isl has paved road and east side on Twitchell Island is all weather) will support a skimming operation - use the favorable shore based on wind and current. Boom can be deployed from the levee.

Use 50ft of Oil Snare (OS), 100ft sorbent boom to collect any oil that may accumulate. If oil accumulates in skimmable quantities, contact IC to activate skimmers as directed per 790.3 .

Strategy 2-790.3 Objective: Oil Recovery when heavy oil threatens and skimmable oil accumulates

Deploy self-propelled skimmers (SPS) near the San Joaquin River mouth of Three Mile Slough if oil is threatening in skimmable quantities. Deploy shore-side skimming at diagonally deployed booms; both levees will support a skimming operation - use the favorable shore based on wind and current.

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
2-790.1	3000				9 8/50lb/danforths + chain + line	2				6	
2-790.2	3000	0	50	100	8 8/50lb/danforths + chain + line	2	0	0	0	6	
2-790.3	0	0	0	0	0	0	0	2 SPS/SSS 0			

LOGISTICS

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

This site is easily accessible from either Sacramento or San Joaquin Rivers since it is a major cross link. Also, the boat ramp at Brannon Island State Park is on the Slough. Levee Roads and Hwy 160 provide vehicle access: Sherman Island Road is an all weather/all traffic paved road; Twitchell Island levee roads are private (DWR). This Slough is about 3.5 mile long from its mouth on the Sacramento River to its mouth on the San Joaquin River. Site also includes the westerly end of Sevenmile Slough.

LAND ACCESS: ALL WEATHER/TRAFFIC

WATER LOGISTICS: GENERALLY VERY GOOD WATER

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: Launching facilities available at Brannan Island State Recreational Area.

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

Staging area available on river side and slough side at Brannan Island Recreational Area. Facilities including restrooms, electricity, and phone available.

COMMUNICATIONS PROBLEMS: none known

ADDITIONAL OPERATIONAL COMMENTS:

