

County: **Contra Costa**
 USGS Quad: **Jersey Island**

Thomas Guide Location

Latitude N

Longitude W

3 8 01

121 43

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

Last Page Update : 7/1/1996

SITE DESCRIPTION:

This site includes emergent marshes in the San Joaquin River, unnamed flooded/marshy areas east of Antioch Bridge, and Big Break including the adjacent portion of Dutch Slough up to, and including, lower Marsh Creek. The marshes in the River are recently colonized bars. The west side marsh is a formerly diked area which is now marshy within and without. It is separated from Big Break by a dike and access channel to Big Break Marina. Big Break is a large, flooded area. The perimeter islands and shoreline are emergent marsh, particularly on the southern and eastern edges. It is separated from the San Joaquin and Dutch Slough by an intermittent series of berm islands, the remnants of the old levee.

SEASONAL and SPECIAL RESOURCE CONCERN**RESOURCES OF PRIMARY CONCERN**

Highly productive marshes on east and south shore. T&E species present in this area.

California Black Rail (CT)

Migratory waterfowl

Sensitive plants found here include: Mason's Lilaeopsis (SR) and Suisun Marsh Aster

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
	EBRPD Dispatch EBRP	East Bay Regional Park District	(510) 881-1833
	Hayward/Eden Landing Park Supervisor	East Bay Regional Park District	(510) 544-3082
	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
	Davio Santos Delta Unit Manager	East Bay Regional Park District	(510) 544-3021

ADDITIONAL SITE SUMMARY COMMENTS:

2-730 -A Site Strategy - Big Break Complex

County and Thomas Guide Location

Contra Costa

NOAA CHART

18661 Sacramento / San Joaquin River

2-730 -A

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CONCERNS and ADVICE to RESPONDERS:

This is an extensive marshland complex with sensitive shorelines and sensitive species. Once oil enters these embayments, it will be nearly impossible to collect, cleanup or rehabilitate. The strategies are aimed at keeping oil out of the marshes. Responders should be aware that rare species are present and should avoid damaging marsh vegetation and tracking oil into marshes and sediments.

HAZARDS and RESTRICTIONS:

Numerous uncharted snags and uncertain water depths exist in this area. Aerial traffic - beware of high wires in vicinity.

SITE STRATEGIES

Strategy 2-730.1 Objective: Exclude oil from entering open waters of Dutch Slough, Big Break and west flooded area by exclusion/diversion boom openings.

Close the three openings to the extended site:

1. Boom the mouth of the west side marsh with 400' 9X9+ exclusion/deflection boom configured in a shallow chevron "V" using a mid-boom anchorage.
2. Boom the opening to Big Break with 3000' 9X9+ exclusion boom from the mouth of Big Break Marina channel to the islands at the mouth of Dutch Slough.
3. From the island at the mouth of Dutch Slough, deploy 1500' 9X9+ collection/exclusion boom at a long diagonal to the Jersey Island shore. Use 2 to 4 mid-boom anchors to keep the boom from relaxing into a catenary curve. Establish a land-based skimming operation at the Jersey Island levee. Back this collection with second layer of boom, sorbent and/or water-based skimmers, if first collection boom fails to intercept the oil.

Strategy 2-730.2 Objective: Deflection on ebb: Deflect oil away from entrance to Dutch Slough and Big Break into main channel to deter oil from entering.

Above the entrance to Dutch Slough, cascade enough 200'- 500' segments of harbor boom from Jersey Island to deflect oil into deep channel and away from Dutch Slough mouth.

Strategy 2-730.3 Objective: Protective booming of marsh front: west side marshes

Deploy 3600'6X6+ boom along the marshy shoreline east of marinas at the toe of the Antioch Bridge. Link this boom with the 9x9+ exclusion boom at the opening to the west flooded area.

Strategy 2-730.4 Objective: Deflection On Flood: deflection to past site and keep it in the main channel

For oil approaching site from west, cascade 200'- 500' segments of harbor boom beginning near the Antioch Bridge out toward and in front of shallow water and marsh islands. Keep oil deflected into main channel of river.

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
2-730.1	4900			200	14 14/22+lbs/danforth & stakes	4	4		Bboat: very shallow draft	25	
2-730.2	2500				10 10/22+danforth	4	2			14	
2-730.3	0	3600			8 8/12+danforths and stakes	2	8		Bboat: very shallow draft	26	
2-730.4	2500				16 16/22+danforths	4	2			14	

LOGISTICS

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

Access primarily by water from the San Joaquin River, Dutch Slough or Big Break Marina. Limited land access via a few roadways on the southerly margin: Take hwy 4 toward Oakley, turn N on Big Break Road to Big Break Marina. This site includes emergent marshes in the San Joaquin River, unnamed flooded/marshy areas east of Antioch Bridge, and Big Break including the adjacent portion of Dutch Slough up to, and including, lower Marsh Creek.

LAND ACCESS: POOR ACCESS EXCEPT JERSEY ISL. WHEN DRY

WATER LOGISTICS: GOOD CHANNELS/MANY SHALLOWS OBSTRUCTIONS

Limitations: depth, obstruction

Launching, Loading, Docking and Services Available: Launch is available at all marinas near Antioch Bridge and PG&E park. Also at Big Break Marina.

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

There are several good sites for staging: Dutra Dredge at Big Break Marina, area marinas, PG&E park. Marine and other facilities are abundant nearby.

COMMUNICATIONS PROBLEMS: none known

ADDITIONAL OPERATIONAL COMMENTS:

