

2-453-A Site Summary - Brook's Island**2-453-A****County:** Contra Costa **ACP Division/Segment:** CC - Z - S001 CC - Z - S010**NOAA Chart:** Entrance to San Francisco Bay 18649 **Map Book:** AAA Richmond **Decimal Degrees:** 37.897908 -122.356344**Site Description:**

Brook's Island lies south of the Richmond Channel and at the west side of the Richmond Inner Harbor and includes the spit but excluding the westerly one mile rocky breakwater. It is the property of East Bay Regional Parks District (EBRPD) no trespassing is permitted at any time due the extreme ecologic sensitivity. This small rocky island, 400 X 1,700 yards, consists of about 160 acres of rocky upland rising to a maximum elevation of 163 ft. Most of the island's shoreline are mixed sand, gravel & cobble. A one-mile long breakwater is attached to the west end of the island with a shipping channel along its north side. There is a small, 35 acre, seasonal salt-marsh near the breakwater connection to the island. This salt-marsh is protected on the north by the breakwater and a sandy beach. Sand beaches and dunes have accumulated at several points along the breakwater. To the south the salt-marsh is exposed to San Francisco Bay. There are tidal flats to the north, east, and south of Brook's Island and the breakwater. Eelgrass beds are present in shallow water (<10 feet below MLLW) west and south of the breakwater and only exposed to oil at negative tide cycles. The adjacent Eelgrass beds may contract or expand annually.

Resources at Risk:

ESI and Habitat: 5 Mixed sand and gravel beaches
 3B Scarps and steep slopes in sand
 6A Gravel Beach

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	great egret	FP	Year-round	Feb-Sep
Birds	great blue heron	FP	Year-round	Feb-Sep
Birds	Caspian tern	FP	Year-round	May-Jul
Fish	Pacific herring		Year-round	Nov-Apr
Fish	longfin smelt	ST	Year-round	Nov-May
Mammals	harbor seal	FP	Year-round	
Plants	eelgrass		Year-round	

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	/Operations, 24-hr	Chevron Corporation, Long Wharf	(510) 242-4494
E	/Dispatch/Watch Command	City of Richmond Police Department	(510) 233-1214
E	/Dispatch, 24-hr	Contra Costa Water District	(925) 688-8374
E	/Dispatch, 24-hr	East Bay Regional Park District	(510) 881-1833
E	/Shoreline Park Supervisor	East Bay Regional Park District	(510) 881-1832
E	/Operations	Port of Richmond	(510) 215-4600
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:

Concerns and Advice to Responders:

This site has heavy bird nesting activity which is concentrated on the western spit. No foot traffic is permitted on the Island except with biologist supervising. Even activity nearby can be destructive to nesting success. There are tidally influenced salt-marsh habitat at the northwest corner of the island and along north margin of the spit.

Hazard and Restrictions:

Shallow water, debris, and pilings may be present throughout area south and east of island and breakwater. No access shoreline without consultation/notification of East Bay Regional Park District.

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

Strategy: 2-453.1 Objective: PRIMARY: Exclusion Booming on south side of spit: exclude oil from high marsh and break in spit

Strategy: On the south side of the Brooks Island spit (on west end), deploy 5000 ft of 9X9+ Hboom across the cove from the SSE spit, forming a chevron configuration to the SW corner of the main island to include Bird Rock. Boom should be anchored on shore, but foot traffic must be kept to absolute minimum to avoid disturbing ground nesting birds and marsh life. Apex of configuration should be directly into prevailing wind to reduce entrainment and overtopping. Place anchors at 500' intervals or as necessary.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		5000	feet	<i>Strategy Updated: 2/27/2017</i>
Anchor	Danforth	22 lb		12		<i>Last Test: 2/27/2017</i>
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			7		

Strategy: 2-453.2 Objective: North shore exclusion for north-side threat to shoreline, jetty breach, marsh entry (Sante Fe Channel and Richmond Channel side & threat sources)

Strategy: On the north of the Brooks Island spit (on west end), deploy 3200 ft of swamp boom from the rocky point at northeast tip to west of the jetty breach. Probably only minimal mid-boom anchoring will be necessary. For the opening to the interior marsh, a small length of boom may be staked across the shallow entry in a chevron formation.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		3200	feet	<i>Strategy Updated:</i>
Anchor	Danforth	22 lb		8		<i>Last Test:</i>
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Logistics:

Directions: Access by vessel only. Nearest launch at Richmond Marina. Brook's Island is managed by East Bay Regional Park District and all activity on or near the island must be coordinated with them.

Land Access: Access by vessel only with permission from East Bay Regional Park District (EBRPD).

On-Water Limitations: Very shallow water, Launch ramp at Richmond Marina.

Facilities, Staging Areas, Command Posts, Available Equipment: Large staging area available in Richmond Harbor or at the Richmond Marina. Possible field posts at any of the several marine terminals along Santa Fe Channel in Richmond Harbor.

Communications Problems: Cell reception very good.

