

2-501-A Site Summary - Castro Creek and Marshes**2-501-A****County:** Contra Costa **ACP Division/Segment:** CC - O - S006 CC - O - S007**NOAA Chart:** 18649 Entrance SF **Map Book:** AAA West Contra **Decimal Degrees:** 37.958606 -122.398447
18654 San Pablo Bay**Site Description:**

The site includes Castro Creek and the surrounding salt-marsh perimeter. Beginning from the Richmond Parkway and extends bayward (west) from the tip of the channel jetty to San Pablo Creek. Marshes along northern shoreline is adjacent to Richmond Chevron Facility. The creek, shallow embayment and the partially diked pond on the north have extensive marshes, eelgrass beds, and mudflats. Castro Creek, which joins this bay on its southeast side.

Resources at Risk:

ESI and Habitat: 8C Sheltered riprap
10A Salt - and brackish-water marshes
9A Sheltered tidal flats

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California Ridgeway's rail	FE, SE	Year-round	Feb-Aug
Birds	California black rail	FP, ST	Year-round	Mar-Aug
Fish	longfin smelt	ST	Year-round	Nov-May
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Mammals	salt-marsh harvest mouse	FE, SE	Year-round	
Mammals	San Pablo vole	SSC	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, 24-hr	East Bay Regional Park District	(510) 881-1833
E	/Point Pinole Park Supervisor	East Bay Regional Park District	(510) 544-3062
S	/24hr Emergency Pager	Contra Costa County Hazardous Materials	(925) 655-3232
S	/Dispatch, 24-hr	Contra Costa County Office of the Sheriff	(925) 468-4421
T	/Spill Response Coordinator	USFWS, SF Bay-Delta Office	(916) 799-0588

C – Cultural, Historic, Archaeological; E – Entry/Owner/Access; O – Other; S – Safety; T – Trustee; X – Exclusion or Security

Additional Site Summary Comments:

This area is extremely shallow (tide dependent) with submerged hazards. Proceed with great caution. Avoid eelgrass beds with outboard motors/props.

Concerns and Advice to Responders:

The concern is the vulnerability of the creek, marshes, eelgrass beds, mudflats, diked ponds and the wildlife which are concentrated here. The south and east sides of Castro Cove and Castro Creek have extensive marshes. This makes it very important that oil be excluded from the cove. If necessary, deploy boom to drive oil to the shore: the southwest rip-rap shoreline has the best cleanup and recovery possibilities.

Hazard and Restrictions:

This area has many shallow and under water obstructions (tide dependent) including submerged pilings.

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

Strategy: 2-501.1 Objective: Exclusion booming of mouth of Castro Cove, adjacent partially diked pond, and mouth of Castro Creek

Strategy: a) Close the mouth of Castro Cove with 3800' 9X9+ Hboom from the jetty on the south to the dike on the north. This deployment may need to be angled to direct oil toward a shoreline collection (preferably to the south). A backup layer (2-501.2) may be needed as a result of wind chop. Report back to IC on need for land collection at the jetty or open water skimmer between boom layers.

b) Close the westerly opening of the partially diked pond with a chevron deployment with 200' 9X9+ Hboom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		4000	feet	
Anchor	Danforth	22 lb		10		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			8		

Strategy: 2-501.2 Objective: Back up exclusion at mouth of Castro Cove

Strategy: a) Backup initial closure of the mouth of Castro Cove (2-501.1) with a second layer (3800') of swamp boom set a few yards behind the harbor boom. It will capture oil cresting the first boom as a result of wind chop. This deployment may need to be angled to direct oil toward a shoreline collection (preferably to the south).

B) Close the inner (southerly) opening of the partially diked pond with a chevron deployment (200' 9X9+ Hboom).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		200	feet	<i>Strategy Updated: 7/11/2018</i>
Boom	Swamp	6x6 inch		3800	feet	<i>Last Test: 7/11/2018</i>
Anchor	Danforth	22 lb		10		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			8		

Strategy: 2-501.3 Objective: Exclusion at Creek mouth for inland spill or backup backup

Strategy: Close the mouth of Castro Creek with 2000' swamp boom. This requires a boom boat which can tolerate stranding and should be undertaken with care at higher tides.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		2000	feet	
Anchor	Danforth	22 lb		5		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-501.4 Objective: Exclusion booming of entries to nearby harbors and channels

Strategy: a) Deploy 1600' of swamp boom across the mouth of the Chevron Rod & Gun Club channel to the west at a diagonal to the jetty and down the jetty to tie into the exclusion boom.

b) Deploy 200' of exclusion boom across the mouth of the marina. Very shallow, strandable boom boat with protected props will be necessary.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		1800	feet	
Anchor	Danforth	22 lb		5		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Logistics:

Directions: There is a poor land access from the Chevron Rod and Gun Club which requires pre-arrangements with Chevron. From on-water vessel, proceed north from the San Rafael Bridge and past Pt San Pablo, continue east in the channel past the Brothers Marina toward the Chevron Refinery.

Land Access: Very limited (by foot), except good on SW side.

On-Water Limitations: Very shallow and with obstructions. Boat launch at Brothers Marina, Richmond Harbor, possibly at Chevron Richmond. Full services available in Richmond.

Facilities, Staging Areas, Command Posts, Available Equipment: Boom may be staged locally at Richmond Rod & Gun and at Brothers Marina. Both may provide field posts and Brothers has food and water. Full services and ample staging are available in Richmond Inner Harbor.

Communications Problems: Cell reception good.

