

2-665-A Site Summary - Simmons Island / Suisun Cut**2-665-A****County:** Solano **ACP Division/Segment:** SO - F - S010**NOAA Chart:** SUISUN BAY**Map Book:** TG Solano**Decimal Degrees:** 38.090659 -122.004155

18658/18652/18656

Site Description:

This site includes the 4 miles of bay shoreline on Suisun Cutoff and berm islands of Simmons Island from Noyce Slough on the east to Pt. Buckler. There are several land ownerships - all are duck clubs. This location is also strategic as a pathway for oil to move from west Suisun Bay to the extensive salt-marshes of Honker Bay and nearby locales via Suisun Cutoff. Suisun Cutoff is very deep. USGS drifter studies have demonstrated how surface currents of western Suisun Bay funnel through this deep channel on flood tides. Simmons Island itself is a large diked island which is maintained for duck hunting. The dike is rip-rapped. Some of the margin has a barrow channel separating the historic salt-marsh front from the current island levee, resulting in extensive fringe marsh. Although there is some emergent salt-marsh along the rip-rapped island levee, the outer perimeter is a premium strip of native marsh. The barrow channel is open to the bay at multiple points. Wave action here tends to be tangential to the shoreline. There is a tide gate to the inner island sloughs at Noyce Slough.

Resources at Risk:*ESI and Habitat:* 10A Salt - and brackish-water marshes

9B Vegetated low banks

8C Sheltered riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California black rail	FP, ST		Mar-Aug
Birds	California Ridgeway's rail	FE, SE		Feb-Aug
Fish	longfin smelt	ST		Nov-May
Fish	chinook salmon - Winter-run	FE, SE		Oct-May
Fish	steelhead - Central/Northern California	FT		Nov-Apr
Fish	delta smelt	FT, SE		Mar-May
Mammals	salt-marsh harvest mouse	FE, SE		
Plants	Mason's lilaeopsis	SR		Apr-Nov

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
O	/Dispatch, 24-hr	California Department of Water Resources	(916) 574-2714
O	/Office	Suisun Resource Conservation District	(707) 425-9302
T	/Environmental Program Manager	CA Dept. of Fish & Wildlife, Bay Delta Region	(707) 576-2837
T	/Wildlife Area Manager	CA Dept. of Fish & Wildlife, Grizzly Island WR	(707) 738-3485
T	/Oil Spill Point of Contact	NOAA National Marine Fisheries Service	(707) 480-3496
T	/Restoration Ecologist	US Department of Agriculture	(530) 304-2304

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 channel, Suisun Cut, is the major avenue for oil to move to Honker Bay, Spoonbill Creek and island marshes. This is a key location because strategy-.1 is key to excluding oil from vast shorelines at this and other sites. There are salt-marshes along the margins which are also vulnerable but of lesser strategic importance. Responders should always minimize trampling of salt-marsh vegetation and tracking oil into marshes and sediments.

Hazard and Restrictions:

There are shallows and obstructions along shore and inside the barrow channels.

Site Strategies:**Site Validation Level: II**

Strategy: 2-665.1 Objective: Collection/Exclusion of heavy oil flow through Suisun Cutoff, divert the oil to shore collection areas.

Strategy: Cascade boom across Suisun Cutoff to direct oil toward quitewaters near shore for collection. Set up shore collection/skimming system either at duck club or dock west of duck club or both. Set additional boom at shore to protect shore and trap oil once it is diverted. Currents are strong and channel is deep: heavy chain and long scope will be necessary. Anchoring skill is a must for this deployment to succeed.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		4000	feet	
Anchor	Danforth	22 lb		15		
Vessel	Boom Boat			2		
Vessel	Skiff or Punt			1		
skimmer	shoreside			1		
Staff	Staff to Deploy			10		

Strategy: 2-665.2 Objective: Exclude oil from entering barrow channels and slough entrances.

Strategy: There are multiple breaks in the north shore. On Suisun Cutoff side, exclude oil from entering side channels by deploying boom across openings (a) Andy Mason Slough - 600' 9x9+Hboom, (b) 400'+ 6X6+Sboom/3seg., (c) 700' 6X6+ Sboom/6seg. On the Grizzly Bay side (d), close the through channel (Andy Mason Slough) (800' 6X6+Sboom) and the barrow channel (50' 6X6+ Sboom). (Back with sorbant as necessary). If current is carrying oil out of Suisun Cutoff at Pt Buckler, deploy Hboom (500' 9x9+) off Pt to deflect oil back into Suisun Cutoff. Leave trailing ends to shore to insure against shoreline gaps.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		1100	feet	
Boom	Swamp	6x6 inch		1950	feet	
Anchor	Danforth	22 lb		16		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-665.3 Objective: Protective Booming: If there is threat of heavy oiling and saturation of the marsh front, deploy protective boom coverage, when resource use will not preclude defending other sites against SO 5 and 6 impacts.

Strategy: If foregoing strategies are inadequate to keep oil off marsh shorelines, deploy exclusion booming around threatened marshfronts: this strategy can be found in Potential Oil-Spill Protection Strategies for San Francisco Bay, California. (Hayes and Montello, 1994). This would require 6 miles of a combination of intertidal, 9x9+ Hboom, and 6X6+Sboom

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		10000	feet	
Boom	Swamp	6x6 inch		15000	feet	
Anchor	Danforth	22 lb		51		
Vessel	Boom Boat			8		
Vessel	Skiff or Punt			2		
Staff	Staff to Deploy			25		

Logistics:

Directions: Land access is from the private levee roads along the bay. They may be reached from Hwy 12 in Suisun City, then south on Grizzly Island road to Grizzly Island Wildlife Refuge. For further access and entry, contact Grizzly Island Wildlife Refuge (707-425-3828) or Suisun Resource Conservation District staff (707-525-9602). Nearest boat access is 3 miles southeast at McAvoy's Marina, Bay Point (9 miles to Martinez, 7 miles to Pittsburg).

Land Access: ALL TYPES WHEN LEVEES ARE DRY.

On-Water Limitations: VERY SHALLOW DRAFT < 2' NEAR SHORE. McAvoy/Harris Marina at Bay Point. Pittsburg Marina. Martinez Marina.

Facilities, Staging Areas, Command Posts, Available Equipment: The duck clubs have power and good small boat docking facilities. Nearest major deployment site/field post is McAvoy's/Harris', full service marinas, or Concord Naval Weapons Station.

Communications Problems: Good cell reception.

