

2-705-A Site Summary - Mallard Island**2-705-A****County:** Contra Costa **ACP Division/Segment:** CC - J - S003 CC - J - S005**NOAA Chart:** 18656 Suisun Bay**Map Book:****Decimal Degrees:** 38.041084 -121.915329**Site Description:**

All of Mallard Island and Slough on the Contra Costa shore of Suisun Bay, including the slough at the west edge of Mallard Island and the emergent salt-marsh islands east of Mallard island. The mainland salt-marsh to the south of Mallard Slough is protected behind a rip-rapped levee and is isolated from spills providing that the flood gate just east of Mallard Island is closed. Mallard Island is partially protected by levees along the north shore and while banks are eroding, but is open on the south shore. One of the sloughs deadends at the "pump house" a local landmark for the area. The area has both cattail and tule salt-marsh habitat.

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

9B Vegetated low banks

5 Mixed sand and gravel beaches

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	California black rail	FP, ST		Mar-Aug
Birds	California least tern	FE, SE		Apr-Jun
Fish	longfin smelt	ST		Nov-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
Reptiles	qiant qarter snake	FT, ST		Jul-Oct

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	/Dispatch, 24-hr	Contra Costa Water District	(925) 688-8374
E	/Dispatch, 24-hr	East Bay Regional Park District	(510) 881-1833
E	/Security	Integral Communities	(925) 595-7225
O	/Dispatch, 24-hr	California Department of Water Resources	(916) 574-2714
S	/Dispatch, 24-hr	Contra Costa County Office of the Sheriff	(925) 646-2441
T	/Environmental Program Manager	CA Dept. of Fish & Wildlife, Bay Delta Region	(707) 576-2837
T	/Oil Spill Point of Contact	NOAA National Marine Fisheries Service	(707) 480-3496
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:

Concerns and Advice to Responders:

Inner channels and marshes as well as waterfront marshes are vulnerable to oil penetration. Responders should minimize trampling of vegetation and tracking oil into marshes and sediments. Several endangered plants and animals are present.

Hazard and Restrictions:

Shallow depths in inner sloughs, submerged obstacles are likely, proceed with caution.

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

Strategy: 2-705.1 Objective: Exclude oil from entering inner sloughs using exclusion booming of slough mouths.

Strategy: Lay 9X9+ Hboom across slough openings - 3 openings. Deploy a shallow chevron configuration using mid-boom anchor. The east Mallard Slough mouth requires about 2000' of curtain boom at a long diagonal to the riprap point to the east. Anchor near shore and leave a trailing length to achieve a tidal seal. Double boom or back with sorbent boom as necessary.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		2200	feet	
Boom	Sorbent			400	feet	
Anchor	Danforth	22 lb		6		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-705.2 Objective: Collection strategy for oil from east after implement the primary protection/exclusion strategy.

Strategy: Set 9X9+ Hboom from riprap levee point east of Mallard Island at an acute angle to the east. To collect oil that may accumulate use 50ft of Oil Snare (OS), 100ft of sorbent boom. Contact IC if oil accumulates in skimmable quantities. Deploy Shoreside Skimming from shoreline - Access through Power plant

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		300	feet	
Boom	Oil Snare (pom-pom)			50	feet	
Boom	Sorbent			200	feet	
Anchor	Danforth	22 lb		4		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
skimmer	self propelled			1		
Staff	Staff to Deploy			5		

Strategy: 2-705.3 Objective: Protective booming of emergent marsh frontage on Suisun Bay side of Mallard Island by deploying one or more layers of boom.

Strategy: Set 3200 ft of 6X6+ Sboom along entire north margin of Mallard Island. If wind chop is likely to exceed boom floatation a second layer of boom will be necessary: if two layers are necessary, the inner layer may be sorbent boom. Keep boom layers at least 6' apart and prepare for skimming oil which will collect between them.

Table of Response Resources

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

Logistics:

Directions: Access by vehicle is through the natural gas power plant off Willow Pass Road in Pittsburg. By water, the site is about two miles east of McAvoy's and a mile west of Pittsburg.

Land Access: Access to shoreline by foot only.

On-Water Limitations: Accessible via vessel at medium to high tides. Launch and complete marine facilities are available at McAvoy's Marina 2 miles west and at Pittsburg Marina's public ramp to the east.

Facilities, Staging Areas, Command Posts, Available Equipment: Both Pittsburg or McAvoy's provide excellent staging or deployment sites. Diverse facilities are available at both. Security can be an issue at Pittsburg.

Communications Problems: Cell reception good in area.

