

**2-715-A Site Summary - Pittsburg-Antioch Marsh (Dow Wetlands)****2-715-A****County:** Contra Costa **ACP Division/Segment:** CC - H - S001 CC - H - S004**NOAA Chart:** 18656 Suisun Bay**Map Book:****Decimal Degrees:** 38.022761 -121.829026**Site Description:**

The site is located on the south side of the San Joaquin River in Antioch and extends from Dowest Slough to the pier east of the Antioch Marina (at the end of I Street). This freshwater marsh has a large leveed salt-marsh enclosure and unenclosed emergent marsh. The leveed marsh has been named Corteva Wetlands (formerly Dow Wetlands) and extends from the Antioch Marina to Contra Costa Canal at the west levee. This interior salt-marsh is mostly cattail-tule-pickleweed marsh, and there is a freshwater marsh at the west end. There are breeches in the levee at Antioch Point, which allows a significant tidal exchange. Outside the levees are additional salt-marshes. Along the river side of the levee there are emergent growths, but the more remarkable emergent marshes are those at the mouth of Contra Costa Canal to the west, the shoreline east of the marina, Dowest Slough and the emergent growth on the offshore bar in the San Joaquin River.

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

10B Freshwater marshes

9B Vegetated low banks

**List of Resources at Risk:**

	<b>Resource Name</b>	<b>Status</b>	<b>Presence</b>	<b>Sensitivity</b>
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
Plants	Delta tule pea	SSSP		May-Jul
Plants	Suisun marsh aster	SSSP		May-Nov
Reptiles	giant garter 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:**

<b>Type</b>	<b>Name/Title</b>	<b>Organization</b>	<b>Phone</b>
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/24-hr number	Cortiva AgriScience, Pittsburg	(925) 432-5278
O	/Dispatch, 24-hr	California Department of Water Resources	(916) 574-2714
O	/Office	Corteva Wetlands	(925) 779-6137
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	/Restoration Ecologist	US Department of Agriculture	(530) 304-2304
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:**

Marsh always has a high protection priority. First concern is to exclude oil from entering the interior salt-marsh by booming the breeches in the levee. Secondary concerns are to keep oil off of marshes to the east, west and north of Dow Wetlands by deflection and protection booming. Responders should avoid trampling vegetation and trampling oil into soft muds. There are very small rare plants and endangered mammals present.

**Hazard and Restrictions:**

There are obstructions and shallows in these waters.

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

**Strategy: 2-715.1 Objective:** Exclude oil from entering the marshes: booming levee breeches at Antioch Pt. & and small openings, mouth of Contra Costa Canal, Dowest Slough, & unnamed slough.

**Strategy:** a) At Antioch Pt (just west of the marina), deploy an extended chevron which encompasses both breeches using 800' 6X6+ (9X9+ Hboom with heavy anchors when there are winds). Back with sorbent. ( This may alternatively be accomplished by by deploying 800' of 9x9+ from Antioch Pt as in strategy -.2 and attaching 500' from mid boom to the shoreline west of the breach. To do this add 400' to the amount shown below.)

b) At the mouth of Contra Costa Cannal (which is just west of the unnamed point between Antioch Point and Dowest Slough), exclude oil from channel and cove. Boom creek mouth with 20' 6X6+ (and if time an resources permit, boom across cove with 800' 6X6+ stake and anchor in place).

c) Exclude oil from Dowest Slough (200' 6X6+) and pocket cove east of Dowest Slough (100' 6X6+).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		800	feet	
Boom	Swamp	6x6 inch		350	feet	
Boom	Sorbent			800	feet	
Anchor	Danforth	22 lb		7		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

**Strategy: 2-715.2 Objective:** Deflect oil away from sensitive areas on Flood tide

**Strategy:** For oil on the Flood tide, set 800' 9X9+ Hboom cascading off the point west of Antioch Pt and just east of the Contra Costa Canal mouth to deflect oil back into the channel and past the emergent growth in the San Joaquin. Also, set a 200' 9X9+ deflection just west of Antioch Marina entrance to deflect away from marsh east of the Marina. SSW of G13 R2

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		1000	feet	
Anchor	Danforth	22 lb		6		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt					
Staff	Staff to Deploy			5		

**Strategy: 2-715.3 Objective:** Deflection on Ebb tide: deflect oil away from and past sensitive areas.

**Strategy:** For oil on the ebb tide, set 400' 9X9+ Hboom cascading off the tip of the chevron to deflect oil past the emergent growth in the San Joaquin River.

If oil is massed and moving along the Antioch waterfront, deflect oil away from east marsh at the pier to deflect it away from the east marsh, marina, and sensitive areas further to the west of the marina. Deploy 200' deflection boom as necessary.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		600	feet	
Anchor	Danforth	22 lb		4		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

**Strategy: 2-715.4 Objective:** Protective booming of shoreline of marsh to the east of Antioch Marina.

**Strategy:** Deploy 800' 6X6+ Sboom along the shoreline from the fishing pier at the Antioch Marina east to the pier to the east (at I street).

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		800	feet	
Anchor	Danforth	22 lb		5		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

### Logistics:

**Directions:** From Hwy 4, exit on Summersville Road and go north. Summersville becomes 4th Street (after a right curve). Turn north (left) on L Street. Marsh and marina are across railroad tracks. There is also access to shoreline at the west end via private roads (contact DOW Chemical or Winter Island Duck Club.) Site is most easily addressed via water; Antioch Marina is included in the site.

**Land Access:** Variable depending on shore segment: access either by foot or vessel.

**On-Water Limitations:** Shallows and submerged obstructions. Long-shore channel at levee, boat launch & fuel on site - Antioch Marina. Also private launch -Winter Isl. Duck Club - near Dowess Slough. Full services at Pittsburg and Antioch Bridge Marinas.

**Facilities, Staging Areas, Command Posts, Available Equipment:** There are many options for local and regional staging and field outposts depending on the scope of the spill impacts. Local staging at Antioch Marina. Further to the west is Pittsburg Marina. To the east is the public access at Antioch Bridge, nearby marinas.

**Communications Problems:** Good cell reception.

