

2-718-A Site Summary - Antioch Dunes National Wildlife Refuge**2-718-A****County:** Contra Costa **ACP Division/Segment:** CC - H - S007**NOAA Chart:** 18661 Sacramento / San Joaquin River **Map Book:****Decimal Degrees:** 38.016069 -121.796312**Site Description:**

The water front exposure of this site is from the Fiberboard factory west to the parking yard at Fultons boat works and includes a scenic revegetated remnant of the Antioch Dunes which is now part of the Antioch Dunes National Wildlife Refuge. Enter only with Trustee approval. The site is notable for its remnant dunes which supports a unique dune ecosystem. The dunes were an extensive historic habitat throughout this portion of Contra Costa County from Antioch to Oakley. The dunes had a characteristic flora and fauna some of which were unique to this habitat. Marshes, riverine dunes, and former dunes along the south bank of the San Joaquin River. Although this dunes habitat is high in elevation and, consequently, not very vulnerable to oiling the sensitive dune ecosystem, there is danger of encroachment and disturbance during response. The waterfront shoreline is sandy beach and emergent salt-marsh.

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

5 Mixed sand and gravel beaches

6B Riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Fish	longfin smelt	ST		Nov-May
Fish	steelhead - Central/Northern California	FT		Nov-Apr
Fish	delta smelt	FT, SE		Mar-May
Insects	Lange's Metalmark butterfly	FE		
Plants	Mason's lilaeopsis	SR		Apr-Nov
Plants	Contra Costa wallflower	FE, SE		Mar-Jul
Plants	Antioch Dunes evening primrose	FE, SE		Mar-Sep
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:

Type	Name/Title	Organization	Phone
C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	Antioch Dunes National Wildlife Refuge	(707) 769-4200
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	/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:

A rare plant community occurs in this area.

Concerns and Advice to Responders:

No one may enter this site without the accompaniment or direction of the US Fish & Wildlife Service Representative in charge of this refuge. The main concern is that response personnel will accidentally damage the endangered plants or animals living in this dune site. If this site is oiled, no entry or cleanup should be attempted without USFWS concurrence. Oil impacts will be limited to a narrow band along the waterfront. Shoreline is steep and easily accessed from water.

Hazard and Restrictions:

There may be submerged hazards near shorelines.

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

Strategy: 2-718.1 Objective: On water skimming using mobile skimmers and towed skimming arrays.

Strategy: The first line of protection is to remove as much oil as possible before the oil can impact shorelines. At this site this can be accomplished through the deployment of several selfcontained skimming vessels, or mini skimmers. Recommendation is that each skimming vessel should be supported by two boats operated in V towed booming configuration.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
skimmer	self propelled			1		
Boom	Swamp	6x6 inch		100	feet	
Vessel	Skiff or Punt			2		
Staff	Staff to Deploy			6		

Strategy: 2-718.2 Objective: Deflect oil away from this shoreline

Strategy: DEFLECTION BOOMING: Deflect oil away from the shoreline and toward the main channel where it is accessible to the skimmers. Deploy 100 feet of deflection boom at the up current end of this property to divert oil from the shoreline to the center of the channel.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp	6x6 inch		500	feet	
Anchor	Danforth	22 lb		10		
Vessel	Boom Boat			1		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			5		

Strategy: 2-718.3 Objective: Diversion to collection when heavy amounts of oil are moving along shore, deploy nearshore containment just outside the site.

Strategy: NEAR SHORE CONTAINMENT AND RECOVERY: Oil containment and recovery is possible at Fulton's Shipyard. Deploy 100 feet of deflection boom extending into the current from the shoreline so as to direct oil onto the shoreline. Back the recovery boom with a half length of swamp boom and sorbent boom to insure recovery. To collect any oil that may accumulate, use 50ft of Oil Snare (OS), 100ft of sorbent boom. Deploy Shoreside skimming If oil accumulates in skimmable quantities, contact IC.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor	9x9 inch		100	feet	
Boom	Swamp	6x6 inch		50	feet	
Boom	Oil Snare (pom-pom)			50	feet	
Boom	Sorbent			100	feet	
Anchor	Danforth	22 lb		6		
Vessel	Skiff or Punt			1		
Staff	Staff to Deploy			2		

Logistics:

Directions: From Highway 4 go north on A Street thence east on Wilbur Ave. about 1 miles. Turn north on Shipyard Road. Antioch San Dunes National Wildlife Refuge is on the north side and is posted, fenced and gated. (You can also access Wilber Road from the Antioch Bridge toll plaza area and drive westerly.) When approaching by water, use Fulton Ship Yard and Fiberboard for orientation.

Land Access: All types are possible but none are permitted w/o coordination with USFWS Personnel.

On-Water Limitations: Good access. Beware of obstructions. Launching at Antioch public launch, Bridge Head Marina, Lawrenson's Marina, Antioch Marina. Full services are at marinas.

Facilities, Staging Areas, Command Posts, Available Equipment: All access to this site should be from the water only. Boats may be launched at Antioch Marina or Fulton's Shipyard which is the property immediately to the west of Antioch Dunes. Staging for this site may be at marina's or neighboring Fulton's Shipyard.

Communications Problems: Good cell reception.

