



 Environmental Sensitive Sites
 Operational Division Lines


 Calif. Dept. of Fish and Wildlife
 Office of Spill Prevention and Response
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ACP 3 - GRA 2

Environmental Sensitive Sites

Santa Cruz County



ACP 3 – South Santa Cruz County

9826 South Santa Cruz County (GRA 2)	3
9826.1 Geographic Response Strategies for Environmental Sensitive Sites.....	4
9826.1.1 GRA 2 Site Index	4
9826.2 Response Summary Tables	35
9826.3 Lists of Economic Resources Susceptible to Oiling	38

Figure 1: Environmental Sensitive Sites + Operational Divisions Overview	1
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9826 South Santa Cruz County (GRA 2)

South Santa Cruz County begins as rocky coastline beneath cliffs interspersed with pocket beaches and transitions to continuous sand beaches east of the City of Santa Cruz. There are 10 Environmental Sensitive Sites in GRA 2, one of which is Santa Cruz Harbor. GRA 2 includes Operational Divisions SZ-Div C through SZ-Div E. Beaches in this area receive heavy recreational use. The Pajaro River marks the boundary between Santa Cruz and Monterey Counties.

9826.1 Geographic Response Strategies for Environmental Sensitive Sites

9826.1.1 GRA 2 Site Index

Site #	Site Name	Page #
3-200	Lighthouse Field State Beach and Point Santa Cruz	5
3-205	Cowell and Santa Cruz Beaches, Santa Cruz Wharf	8
3-210	San Lorenzo River	11
3-220	Santa Cruz Harbor and Woods Lagoon	14
3-240	Corcoran Lagoon	17
3-250	Soquel Creek	20
3-270	Aptos Creek and SS PALO ALTO	23
3-280	Manresa State Beach to Sunset Beach Road	26
3-285	Sunset State Beach and Palm Beach	29
3-290	Pajaro River	32

County: Santa Cruz*ACP Division/Segment:* SZ - C - S004 SZ - C - S005*NOAA Chart:* 18685*Map Book:* 992*Decimal Degrees:* 36.9516 -122.02739**Site Description:**

Site area includes the sandy pocket beach west of Point Santa Cruz, Point Santa Cruz, and Seal Rock which is directly offshore of the point. Lighthouse Point Beach is locally referred to as It's Beach and is accessible via a steep staircase west of the point. Site upcoast boundary (36.951730°, -122.030035°), downcoast boundary (36.952080°, -122.026062°); length 0.48 miles. Site is within the Monterey Bay National Marine Sanctuary. Nesting seabirds in the surrounding area include black oystercatcher, Brandt's cormorant, pigeon guillemot, and Western gull. Seal Rock is a roosting site for brown pelicans and a haulout for sea lions.

Resources at Risk:*ESI and Habitat:* 1A Exposed Rocky Shore

3A Fine- to medium-grained sand beaches

6B Riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Insects	Ohlone tiger beetle	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	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
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

Moderate recreational use. Surfing area south of Point Santa Cruz.

Concerns and Advice to Responders:

Surfing area south of Point Santa Cruz.

Hazard and Restrictions:

Beach access via steep staircase. Parking areas are often full on weekends and during the summer.

Site Strategies:

Site Validation Level: II

Strategy: 3-200.1 Objective: No Onsite Options: Consider Offshore Containment/Recovery/ART

Strategy: Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

Last Page Update

Logistics:

Directions: Point Santa Cruz (701 W Cliff Dr, Santa Cruz, CA 95060); 28 parking spaces. There are two additional parking lots to the west and two to the south on W Cliff Dr; 114 parking spaces total. Parking areas are often full.

Land Access: Beach access via steep staircase located between the two parking lots west of Point Santa Cruz (36.952245°, -122.028596°).

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (2 nautical miles).

Facilities, Staging Areas, Command Posts, Available Equipment: Restrooms located between parking lots south of Point Santa Cruz (656 W Cliff Dr, Santa Cruz, CA 95060).

Communications Problems: None.



County: Santa Cruz*ACP Division/Segment:* SZ - C - S006*NOAA Chart:* 18685*Map Book:* 992*Decimal Degrees:* 36.96135 -122.01797**Site Description:**

Cowell Beach is located west of the wharf and Santa Cruz Beach extends east of the wharf to the San Lorenzo River. The beaches and the wharf are managed by the City of Santa Cruz. Santa Cruz Beach is known locally as Main Beach. Site upcoast boundary (36.960295°, -122.025357°), downcoast boundary (36.963443°, -122.012106°); length 0.8 miles. Site is within the Monterey Bay National Marine Sanctuary. Pigeon guillemots nest under wharf and brown pelicans roost on the wharf. Sea lions haul out under the wharf.

Resources at Risk:*ESI and Habitat:* 3A Fine- to medium-grained sand beaches

1B Exposed solid man-made structures

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Insects	Ohlone tiger beetle	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	California sea lion	FP	Year-round	
Mammals	Southern sea otter	FT, SP	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

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C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	City of Santa Cruz Parks and Recreation	(831) 420-5270
E	/Office	Santa Cruz Wharf, City of Santa Cruz	(831) 420-6025
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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Additional Site Summary Comments:

Heavy recreational use. Surfing area. US Coast Guard Reserve Lifeguard Headquarters located on the wharf.

Concerns and Advice to Responders:

Heavy recreational use. Surfing area.

Hazard and Restrictions:

Site Strategies:

Site Validation Level: II

Strategy: 3-205.1 Objective: No Onsite Options: Consider Offshore Containment/Recovery/ART

Strategy: Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

Last Page Update

Logistics:

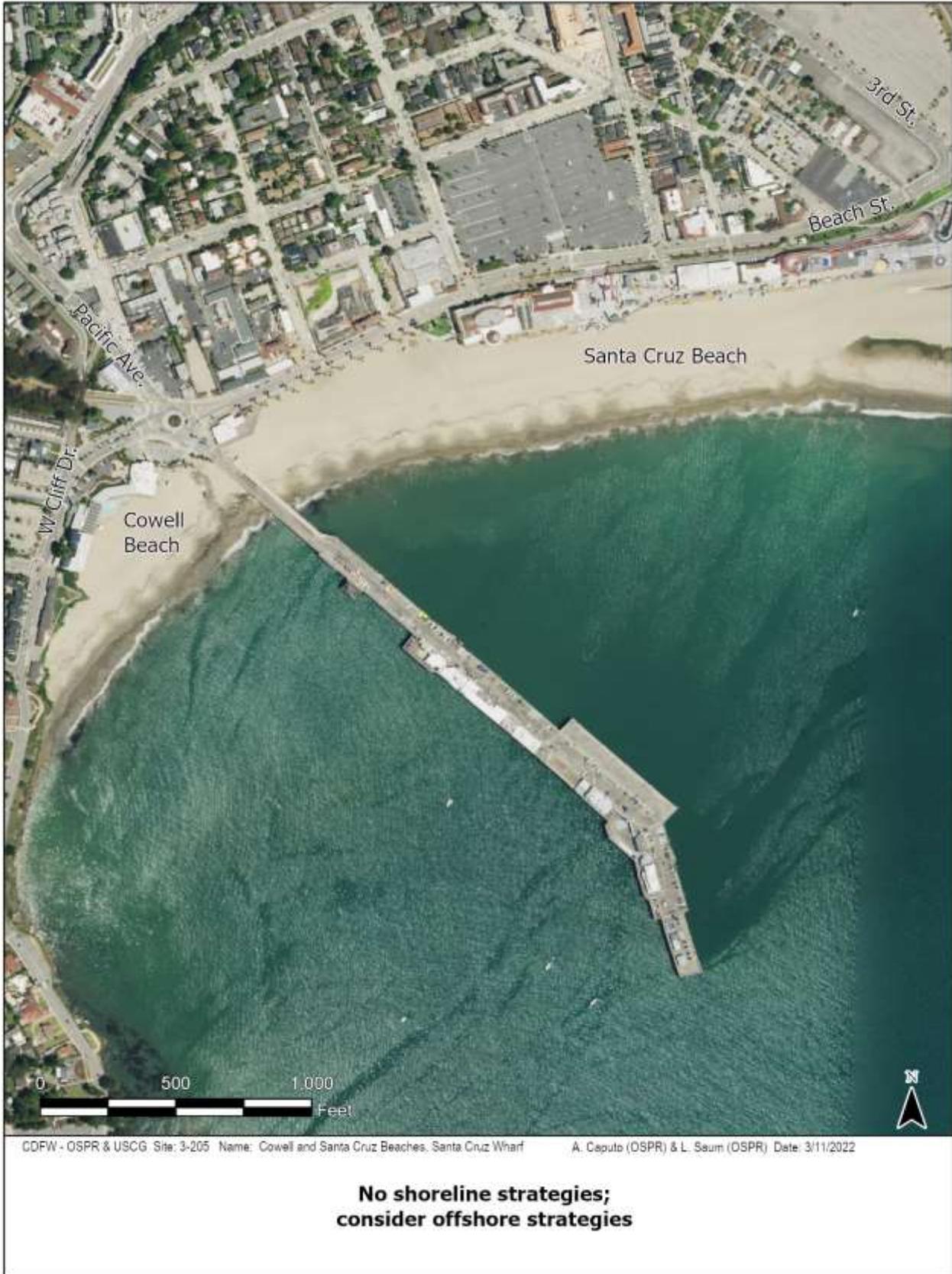
Directions: Cowell Beach main parking lot (36.962391°, -122.024052°); 15 parking spaces. Santa Cruz Wharf (21 Municipal Wharf, Santa Cruz, CA 95060); 350 parking spaces. Santa Cruz Beach Boardwalk main parking lot (515 Beach St, Santa Cruz, CA 95060); over 1,500 parking spaces.

Land Access: Cowell Beach vehicle access (36.962391°, -122.024052°). Santa Cruz Beach vehicle access (36.963739°, -122.021100°).

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (0.5 nautical miles).

Facilities, Staging Areas, Command Posts, Available Equipment: Paved parking lot along San Lorenzo River inland of the boardwalk can support a large staging area (River Lot, 6 acres). Restrooms at end of wharf and west of volleyball courts on Santa Cruz Beach.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - C - S006**NOAA Chart:** 18685**Map Book:** 992**Decimal Degrees:** 36.96415 -122.01247**Site Description:**

The San Lorenzo River forms a brackish marsh that extends from the river mouth to the confluence of Carbonara Creek 1.15 miles upstream. A natural sand berm forms at the river mouth during low river outflow and the river mouth location varies when it breaches the berm. Tidal action often overtops natural berm. The river channel is dredged for flood control. The west bank of the river mouth is easily accessible from Santa Cruz Beach and leads to a paved walking path that follows the river channel. The east bank of the river mouth is accessible by footpath down a steep sandstone bluff. Site is within the Monterey Bay National Marine Sanctuary. Harbor seal rookery and haulout on sheltered tidal flats. Western snowy plovers may nest on Seabright Beach Mar-Sep.

Resources at Risk:

ESI and Habitat: 8A Sheltered scarps in bedrock, mud, or clay
 3A Fine- to medium-grained sand beaches
 7 Exposed tidal flat
 8C Sheltered riprap
 9A Sheltered tidal flats

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	coho salmon - south of Punta Gorda	FE, SE	Year-round	Nov-Feb
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Insects	Ohlone tiger beetle	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	Pacific harbor seal	FP	Year-round	Feb-May
Mammals	Southern sea otter	FT, SP	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

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C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	City of Santa Cruz Parks and Recreation	(831) 420-5270
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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Additional Site Summary Comments:

Heavy recreational use.

Concerns and Advice to Responders:

Heavy recreational use. Harbor seal pupping on riverbank Feb-May. Western snowy plovers may nest on Seabright Beach Mar-Sep.

Hazard and Restrictions:

Access to the downcoast bank of the river mouth via steep footpath.

Site Strategies:**Site Validation Level: II****Strategy: 3-210.1 Objective:** Build Berm

Strategy: Exclude oil from river by building a sediment berm with native sand using heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Place sorbent boom 30 feet upstream of berm.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Bulldozer or Loader				1		
PVC Pipe		6 inch		500	feet	
Boom	Sorbent			300	feet	
Stakes				2		
Staff				10		

Strategy: 3-210.2 Objective: Deploy Containment Boom

Strategy: Divert oil to the sandy west riverbank using a series of deflection booms. Line upstream side of swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			800	feet	
Boom	Sorbent			800	feet	
Anchor	Danforth			9		
Stakes				4		
Vessel	Skiff or Punt			1		
Staff				5		

Logistics:

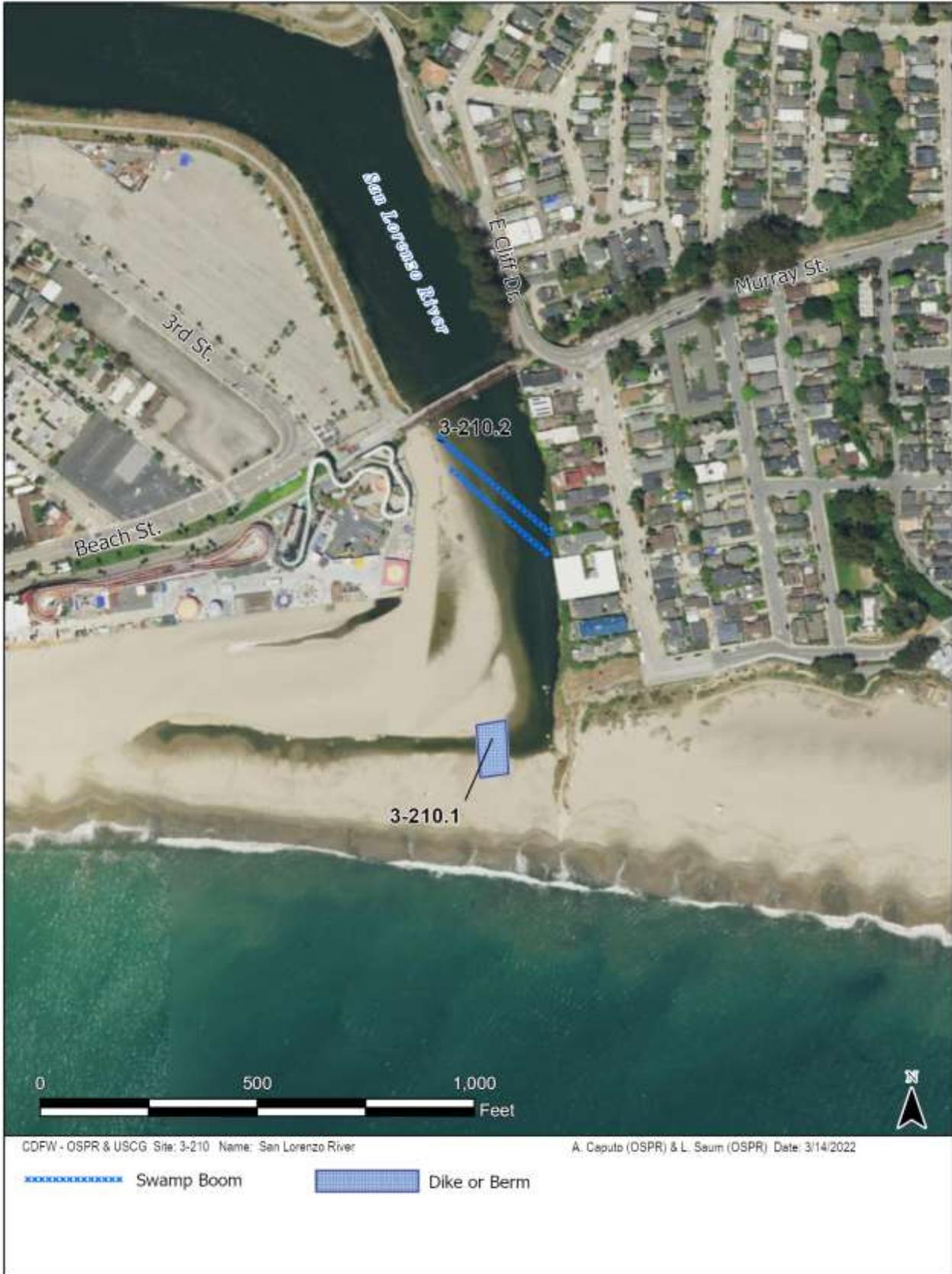
Directions: West river mouth access parking, River Lot (36.965930°, -122.013836°); over 500 parking spaces. East river mouth parking and access (36.964184°, -122.011356°); 19 parking spaces.

Land Access: West river mouth access from Santa Cruz Beach. East river mouth access via footpath from E Cliff Dr. Heavy equipment access from west end of Santa Cruz Beach (36.963739°, -122.021100°).

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (0.5 nautical miles). Depending on conditions it may be possible to launch a skiff from corner of Beach St. and 3rd St. under railroad bridge.

Facilities, Staging Areas, Command Posts, Available Equipment: Large paved parking lot along San Lorenzo River inland of the boardwalk can support a large staging area (River Lot, 6 acres).

Communications Problems: None.



County: Santa Cruz*ACP Division/Segment:* SZ - C - S008*NOAA Chart:* 18685*Map Book:* 992*Decimal Degrees:* 36.96105 -122.00157**Site Description:**

Municipal harbor and marina supporting vessel slips and general maintenance. Officially named the Santa Cruz Small Craft Harbor. Site includes marina and riprapped shoreline. The harbor is within Woods Lagoon which is fed by the creek Arana Gulch. Arana Gulch forms a freshwater marsh inland of the Arana Gulch Bridge. Seabright Beach is west of the harbor and Twin Lakes Beach is east; both beaches are part of Twin Lakes State Park. Site is within the Monterey Bay National Marine Sanctuary. Western snowy plovers may nest on Seabright Beach Mar-Sep. A sensitive plant species is found in Arana Gulch Open Space Park inland of the harbor. Sea otters forage and rest in the harbor year-round.

Resources at Risk:*ESI and Habitat:* 6B Riprap

8C Sheltered riprap

8B Sheltered solid man-made structures

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Insects	Ohlone tiger beetle	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Santa Cruz tarplant	FT, SE	Year-round	

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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	/Office	Santa Cruz Harbor	(831) 475-6161
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

Santa Cruz Port District maintains an OSPR-granted spill response equipment trailer.

Concerns and Advice to Responders:

Western snowy plovers may nest on Seabright Beach Mar-Sep. Sensitive plant species found in Arana Gulch Open Space Park inland of the harbor.

Hazard and Restrictions:**Site Strategies:****Site Validation Level: II**

Strategy: 3-220.1 Objective: Deploy Containment Boom

Strategy: Deploy harbor boom in V-shape just inside harbor entrance (1500 feet). Deploy two parallel lines of harbor boom (500 feet each) diagonally from east end of launch ramp to opposite side of harbor to protect berthed boats in harbor. Line upstream side of swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Harbor			2500	feet	
Boom	Sorbent			2500	feet	
Anchor	Danforth			7		
Vessel	Boom Boat			3		
Staff				11		

Logistics:

Directions: East side of harbor (135 5th Ave, Santa Cruz, CA 95062); over 200 parking spaces. West side of harbor (790 Mariner Park Way, Santa Cruz, CA 95062); over 200 parking spaces. Harbor office located on east side.

Land Access: Seabright Beach vehicle access (36.964470°, -122.008813°). Twin Lakes State Beach vehicle access (36.962872°, -122.000437°).

On-Water Limitations: Launch ramp located on east side of harbor.

Facilities, Staging Areas, Command Posts, Available Equipment: Santa Cruz Port District maintains an OSPR-granted spill response equipment trailer. Fuel dock on east side of harbor. Parking lots may be suitable for small staging areas (west lot 2 acres, east lot 4.3 acres). Restrooms on west and east side of harbor.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - C - S010**NOAA Chart:** 18685**Map Book:** 992**Decimal Degrees:** 36.96054 -121.98436**Site Description:**

Corcoran Lagoon is fed by Rodeo Creek. The lagoon outlet is naturally bermed during low outflow but is overtopped by high tides and storms. Lagoon mouth location varies. Three radio station towers are located in the lagoon north of the main stem of Rodeo Creek. Corcoran Lagoon Beach is managed by the County of Santa Cruz. Site is within the Monterey Bay National Marine Sanctuary.

Resources at Risk:**ESI and Habitat:** 3A Fine- to medium-grained sand beaches

10A Salt - and brackish-water marshes

10B Freshwater marshes

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Fish	tidewater goby	FE, SSC	Year-round	
Insects	Ohlone tiger beetle	FE	Year-round	
Invertebrates	black abalone	FE	Year-round	Apr-Sep
Mammals	Southern sea otter	FT, SP	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

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C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
E	/Office	Santa Cruz County Parks	(831) 454-7901
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

No parking lots or street parking near the site.

Concerns and Advice to Responders:

Hazard and Restrictions:

The only onsite parking available is on the beach through deep sand. Nearest public parking lot is 0.3 miles from site.

Site Strategies:

Site Validation Level: II

Strategy: 3-240.1 Objective: Build Berm

Strategy: Exclude oil from lagoon by building a sediment berm with native sand using heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Sediment may be scarce in winter months. Place sorbent boom 30 feet upstream of berm.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Bulldozer or Loader				1		
PVC Pipe			6 inch	500	feet	
Boom	Sorbent			500	feet	
Stakes				2		
Staff				10		

Logistics:

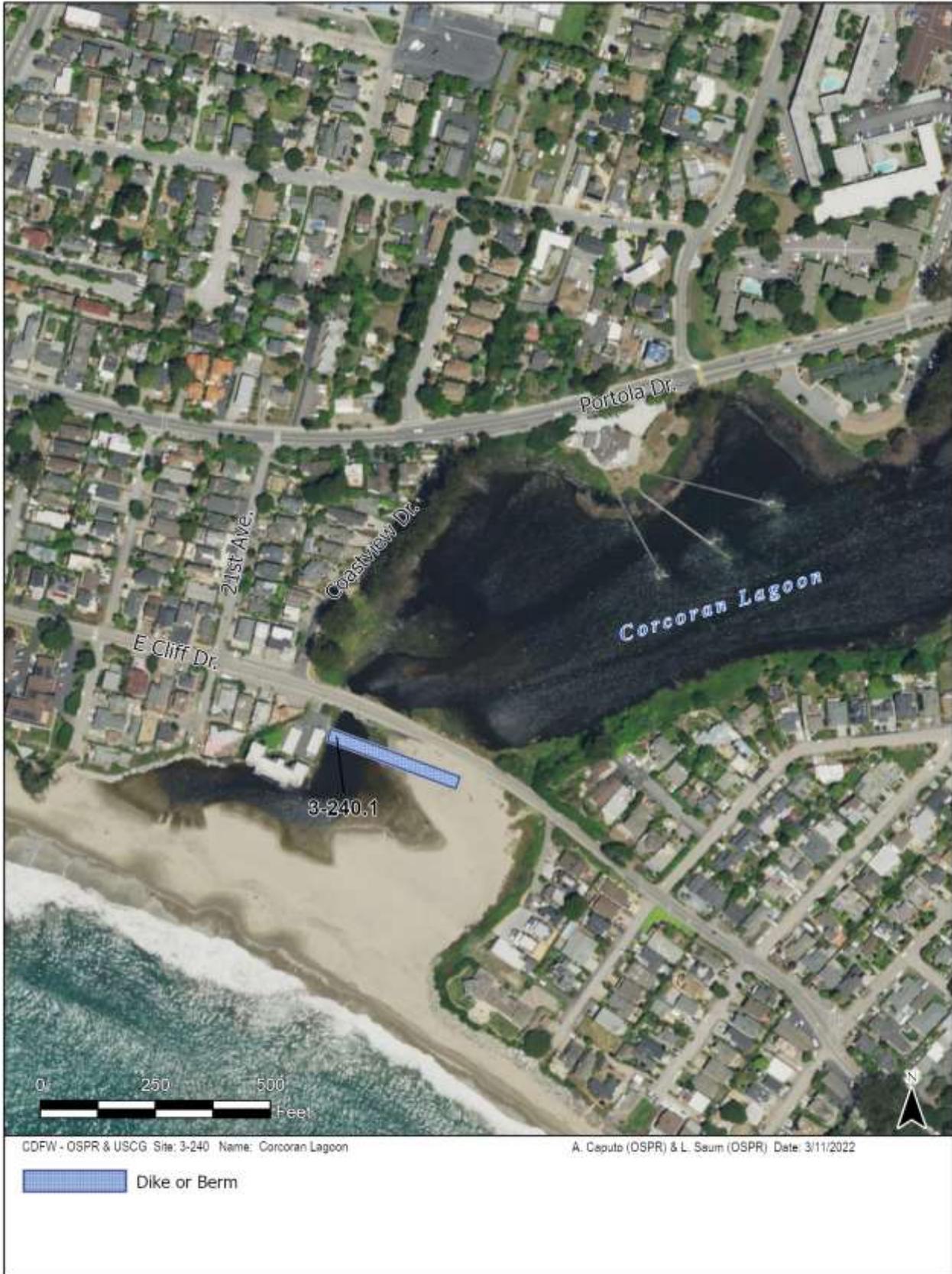
Directions: Corcoran Lagoon (36.960615°, -121.983927°). The only onsite parking available is on the beach through deep sand. Nearest public parking area 0.3 miles from site (21620 E Cliff Dr, Santa Cruz, CA 95062); 23 parking spaces. Additional parking at Moran Lake County Park, 0.5 miles from the site; 35 parking spaces.

Land Access: Residential area with no parking lots or street parking near the site. The closest parking area is a small commercial lot. Moran Lake County Park has additional parking 0.5 miles from the site. Beach access is directly off E Cliff Dr. Deep sand may limit vehicle access on the beach. Heavy equipment access to beach (36.960596°, -121.983940°).

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (1 nautical mile).

Facilities, Staging Areas, Command Posts, Available Equipment: Portable toilet at beach.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - D - S002**NOAA Chart:** 18685**Map Book:** 973**Decimal Degrees:** 36.97171 -121.95243**Site Description:**

Soquel Creek is tidally influenced downstream of the Stockton Ave. bridge and supports riparian habitat upstream of the bridge. A natural sand berm forms in summer months creating a large brackish lagoon. The creek mouth location varies. Soquel Creek crosses Capitola Beach which is managed by the City of Capitola. Site is within the Monterey Bay National Marine Sanctuary.

Resources at Risk:*ESI and Habitat:* 3A Fine- to medium-grained sand beaches

8B Sheltered solid man-made structures

6B Riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Fish	coho salmon - south of Punta Gorda	FE, SE	Year-round	Nov-Feb
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Reptiles	Western pond turtle	SSC	Year-round	May-Aug

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:

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C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
O	/Office	City of Capitola	(831) 475-7300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

Heavy recreational use. A small mooring field extends beyond the Capitola Municipal Wharf.

Concerns and Advice to Responders:

Heavy recreational use. Parking areas are often full on weekends and during the summer.

Hazard and Restrictions:**Site Strategies:****Site Validation Level: II****Strategy: 3-250.1 Objective:** Build Berm

Strategy: Exclude oil from creek by building a sediment berm with native sand using heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Place sorbent boom 30 feet upstream of berm.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Bulldozer or Loader				1		
PVC Pipe			6 inch	500	feet	
Boom	Sorbent			300	feet	
Stakes				2		
Staff				10		

Strategy: 3-250.2 Objective: Deploy Containment Boom

Strategy: Divert oil to west side of channel near bridge. Line upstream side of swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			300	feet	
Boom	Sorbent			300	feet	
Anchor	Danforth			4		
Stakes				4		
Vessel	Skiff or Punt			1		
Staff				5		

Logistics:

Directions: West creek mouth parking and access at Municipal Wharf (36.971492°, -121.953795°); 12 parking spaces. East creek mouth parking and access on Esplanade (36.971953°, -121.951128°); 78 parking spaces. Additional parking upcoast of wharf on Cliff Drive; 54 parking spaces. Parking lot at the corner of Monterey Ave and El Camino Medio; 38 parking spaces. Parking areas are often full on weekends and during the summer.

Land Access: Heavy equipment access from Municipal Wharf (36.971492°, -121.953795°). Heavy equipment access from Capitola Beach (36.971925°, -121.950459°).

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (3 nautical miles). A small mooring field extends beyond the Capitola Municipal Wharf.

Facilities, Staging Areas, Command Posts, Available Equipment: Restrooms on east end of the beach.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - E - S001**NOAA Chart:** 18685**Map Book:** 973**Decimal Degrees:** 36.96915 -121.90657**Site Description:**

Site area includes Aptos Creek and the defunct concrete vessel, SS PALO ALTO, which rests at the end of Seacliff Pier. Aptos Creek forms a brackish lagoon with a small section of marsh habitat from the creek mouth to the Winfield Way bridge and then becomes riparian habitat upstream of the bridge. A natural sand berm forms at the creek mouth during low outflow and breaches during heavy rain events. The creek mouth location varies. Aptos Creek empties onto Seacliff State Beach. The last third of Seacliff Pier is closed to the public due to safety concerns. The SS PALO ALTO is inaccessible by land and becomes increasingly degraded and unstable due to annual winter storms and heavy swells. There are no protection strategies for the cement ship or pier. Seacliff Pier, Aptos Creek, and Rio Del Mar Beach are all within Seacliff State Beach property. Site is within the Monterey Bay National Marine Sanctuary. The SS PALO ALTO and pier support a Brandt's cormorant nesting colony and roosting for brown pelicans. The ship is a haulout for pinnipeds and sea otters.

Resources at Risk:*ESI and Habitat:* 3A Fine- to medium-grained sand beaches

8B Sheltered solid man-made structures

8C Sheltered riprap

10A Salt - and brackish-water marshes

1B Exposed solid man-made structures

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	seabird colony		Year-round	Apr-Aug
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Insects	Ohlone tiger beetle	FE	Year-round	
Mammals	pinnipeds	FP	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	

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C	/Coordinator	Native American Heritage Commission	(916) 373-3710
C	/Coordinator	Northwest Information Center	(707) 588-8455
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

Moderate recreational use.

Concerns and Advice to Responders:

No protection strategies for the SS PALO ALTO or pier.

Hazard and Restrictions:

Compact heavy equipment access only.

Site Strategies:

Site Validation Level: II

Strategy: 3-270.1 Objective: Build Berm

Strategy: Exclude oil from creek by building a sediment berm with native sand using compact heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Place sorbent boom 30 feet upstream of berm.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Heavy Equipment	Bobcat w/ tracks			1		
PVC Pipe		6 inch		600	feet	
Boom	Sorbent			300	feet	
Stakes				2		
Staff				10		

Logistics:

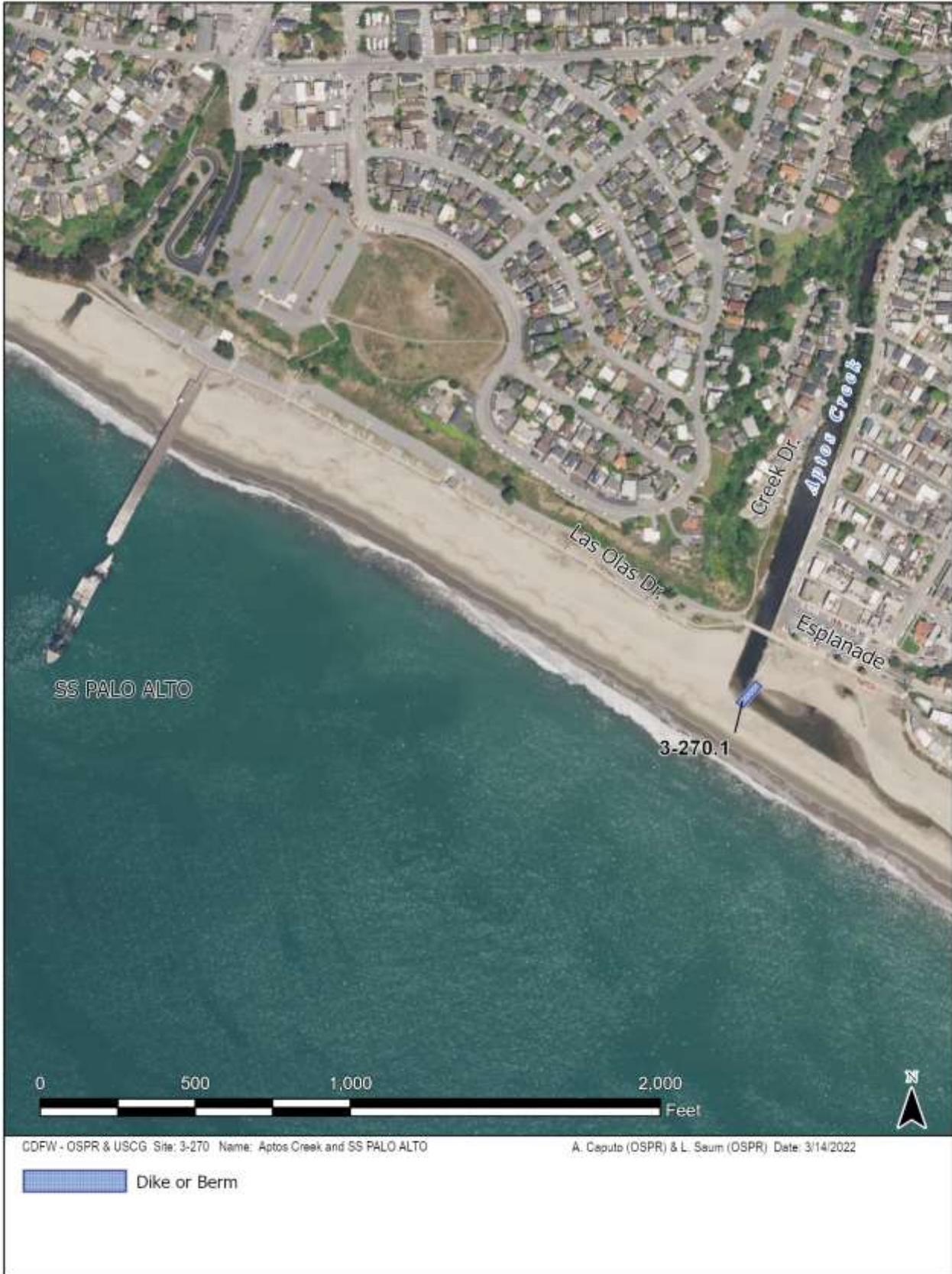
Directions: West creek mouth parking lot on Las Olas Dr. (36.969877°, -121.908109°); 114 parking spaces. East creek mouth parking (Esplanade, Aptos, CA 95003); 83 parking spaces.

Land Access: West creek mouth compact heavy equipment access from Seacliff State Beach (36.969471°, -121.907365°). East creek mouth compact heavy equipment access from Rio Del Mar Beach

On-Water Limitations: Nearest vessel launch site is Santa Cruz Harbor (5 nautical miles).

Facilities, Staging Areas, Command Posts, Available Equipment: Seacliff State Beach upper parking lot can support a large staging area (4 acres). The state park also has a campground with 26 recreational vehicle hookup sites. Restrooms at pier entrance and Esplanade parking lot.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - E - S004**NOAA Chart:** 18685**Map Book:** 994 and 1014**Decimal Degrees:** 36.91761 -121.85332**Site Description:**

Continuous sand beach backed by steep, vegetated dunes. Site includes all of Manresa State Beach property and a one-mile stretch of private property between Zils Rd. and Sunset Beach Rd. There is a 0.14-mile gap in the north end of Manresa State Beach property at La Selva Beach, which is privately owned. Site upcoast boundary (36.940513°, -121.869929°), downcoast boundary (36.896497°, -121.839356°); length 3.48 miles. Site is within the Monterey Bay National Marine Sanctuary. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

Resources at Risk:**ESI and Habitat:** 3A Fine- to medium-grained sand beaches**List of Resources at Risk:**

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Insects	Ohlone tiger beetle	FE	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	robust spineflower	FE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-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
E	/Office	La Selva Beach Recreation District Clubhouse	(831) 684-0838
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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

Additional Site Summary Comments:

Moderate recreational use.

Concerns and Advice to Responders:

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

Hazard and Restrictions:**Site Strategies:****Site Validation Level: II**

Strategy: 3-280.1 Objective: No Onsite Options: Consider Offshore Containment/Recovery/ART

Strategy: Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

Last Page Update**Logistics:**

Directions: Northern site access parking: Manresa Main Beach (345 Seawind Rd, La Selva Beach, CA 95076); over 100 parking spaces. Southern site access parking: Manresa Uplands State Beach and Campground (205 Manresa Uplands Rd, Watsonville, CA 95076); over 100 parking spaces.

Land Access: Vehicle access to beach from both northern and southern site access parking lots.

On-Water Limitations: Nearest vessel launch sites are Santa Cruz Harbor (8 nautical miles) and Moss Landing Harbor (7 nautical miles).

Facilities, Staging Areas, Command Posts, Available Equipment: Paved parking lot at Manresa Main Beach may be suitable for a small staging area (1.75 acres). Restrooms at northern and southern site access parking lots.

Communications Problems: None.



County: Santa Cruz*ACP Division/Segment:* SZ - E - S005 SZ - E - S006*NOAA Chart:* 18685*Map Book:* 1014*Decimal Degrees:* 36.87409 -121.82463**Site Description:**

Continuous sand beach backed by steep, vegetated dunes. Site includes all of Sunset State Beach to the Pajaro River. Palm Beach is a day use area within Sunset State Beach. State Park property extends the entire length of the beach just above the mean high tide line and below the base of the dunes. The Pajaro Dunes Resort is located north of Palm Beach and the Pajaro Dunes Association private property is located south of Palm Beach to the Pajaro River mouth. Site upcoast boundary (36.896497°, -121.839356°), downcoast boundary (36.852765°, -121.811908°); length 3.42 miles. Site is within the Monterey Bay National Marine Sanctuary. Several sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

Resources at Risk:

ESI and Habitat: 3A Fine- to medium-grained sand beaches
6B Riprap

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	coast wallflower	SR	Year-round	
Plants	Monterey qilia	FE, ST	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Plants	robust spineflower	FE	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-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
E	/Office	Pajaro Dunes Association	(831) 761-7744
E	/Office	Pajaro Dunes Resort	(831) 728-7400
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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:

Western snowy plovers nest on beach Mar-Sep. Several sensitive plant species and Northern legless lizard are present within the sand dunes along beach.

Hazard and Restrictions:

Southern site access via attended gate at private residential community.

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

Strategy: 3-285.1 Objective: No Onsite Options: Consider Offshore Containment/Recovery/ART

Strategy: Onsite protection is not feasible due to coastline type.

A) Recommended response strategy is on-water containment and recovery.

B) Pursue feasibility of alternative response technologies (e.g. dispersants and in-situ burning) to reduce the volume of oil reaching the site.

Table of Response Resources

Last Page Update**Logistics:**

Directions: Northern site access parking: Sunset State Beach (250 Sunset Beach Rd, Watsonville, CA 95076); 22 parking spaces. Central site access parking: Palm Beach State Park (2660 Beach Rd, Watsonville, CA 95076); 40 parking spaces. Southern site access parking: Pajaro Dunes private community, attended gate (73 Pelican Point, Watsonville, CA 95076); 25 parking spaces.

Land Access: Vehicle access to beach from both northern and central site access parking lots. Southern site access via attended gate at private residential community. Beach access from the Pajaro Dunes community on Pelican Point is footpath only.

On-Water Limitations: Nearest vessel launch site is Moss Landing Harbor (4 nautical miles).

Facilities, Staging Areas, Command Posts, Available Equipment: Restrooms at northern and central site access parking lots.

Communications Problems: None.



County: Santa Cruz **ACP Division/Segment:** SZ - E - S006**NOAA Chart:** 18685**Map Book:** 1035**Decimal Degrees:** 36.84995 -121.80966**Site Description:**

The Pajaro River is the demarcation between Santa Cruz and Monterey Counties. Watsonville Slough converges on the north bank of the river mouth. During low outflow, a natural sand berm forms at the river mouth. Brackish lagoon, salt marsh, tidal flats, and eelgrass beds are within the river mouth and extend upstream. Watsonville Slough also supports extensive salt marsh habitat. The configurations of river, lagoon, beach face, and river outlet are all highly variable. Pajaro River Mouth Natural Preserve includes the river mouth and beach area, which is managed California State Parks. Site is within the Monterey Bay National Marine Sanctuary. Sensitive plant species and Northern legless lizard are present within the vegetated dunes. Over 1,000 brown pelicans have been observed roosting near the river mouth. Nesting colony of bank swallows along the river mouth banks.

Resources at Risk:**ESI and Habitat:** 3A Fine- to medium-grained sand beaches

7 Exposed tidal flat

9A Sheltered tidal flats

10A Salt - and brackish-water marshes

List of Resources at Risk:

	Resource Name	Status	Presence	Sensitivity
Birds	bank swallow	ST	Mar-Jul	Mar-Jul
Birds	Western snowy plover	FT, SSC	Year-round	Mar-Sep
Fish	Monterey hitch	SSC	Year-round	May-Aug
Fish	steelhead - Central/Northern California	FT	Year-round	Nov-Apr
Fish	tidewater goby	FE, SSC	Year-round	
Mammals	Southern sea otter	FT, SP	Year-round	
Plants	Monterey spineflower	FT	Year-round	
Reptiles	Northern legless lizard	SSC	Year-round	Sep-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
E	/Office	Pajaro Dunes Association	(831) 761-7744
T	/Dispatch, 24-hr	California State Parks (Dispatch)	(916) 358-1300
T	/Emergency Responder, 24-hr	Monterey Bay National Marine Sanctuary	(831) 236-6797
T	/Agency Representative	NOAA National Marine Fisheries Service	(707) 575-6050
T	/Spill Response Coordinator	US Fish and Wildlife Service	(805) 644-1766

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:

Western snowy plovers nest on beach Mar-Sep. Sensitive plant species and Northern legless lizard are present within the vegetated dunes.

Hazard and Restrictions:

Northern river mouth access via attended gate at private residential community. Southern river mouth access via gated farm road.

Site Strategies:**Site Validation Level: II****Strategy: 3-290.1 Objective:** Build Berm

Strategy: Exclude oil from river by building a sediment berm with native sand using heavy equipment. May need to install PVC pipe below berm to allow for water outflow. Stake two layers of swamp boom upstream of the berm. Line swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Bulldozer or Loader				1		
PVC Pipe		6 inch		500	feet	
Boom	Swamp			1400	feet	
Boom	Sorbent			1400	feet	
Anchor	Danforth			6		
Stakes				12		
Staff				10		

Strategy: 3-290.2 Objective: Deploy Containment Boom

Strategy: Exclude oil from river upstream of the Watsonville Slough convergence. Anchor two rows of swamp boom diagonally inside the lagoon, creating a collection point on the north bank along the riprap. Line upstream side of swamp boom with sorbent boom.

Table of Response Resources

Equipment	Sub-Type	Size	Unit	QTY	Unit	Last Page Update
Boom	Swamp			1400	feet	
Boom	Sorbent			1400	feet	
Anchor	Danforth			6		
Stakes				12		
Vessel	Skiff or Punt			1		
Staff				5		

Logistics:

Directions: Northern river mouth access parking: Pajaro Dunes private community (73 Pelican Point, Watsonville, CA 95076); 25 parking spaces. Southern river mouth access: Zmudowski State Beach, gated road (201 Giberson Rd, Moss Landing, CA 95039); 19 parking spaces. Northern river channel access from Rio Boca Rd. (36.853615°, -121.808480°). Southern river channel access from Jensen Rd. (36.853518°, -121.805064°). Additional access to the upcoast end of the inlet is available through the Pajaro Dunes Colony [2661 Beach Road, Watsonville]; permission to access Colony residential roads may be arranged by calling Pajaro Dunes front office phone (831-722-4671). Equipment access is available upcoast of the Pajaro River via Palm Beach (which fronts the Pajaro Dunes Colony) and/or Sunset State Beach, off San Andreas Road.

Land Access: Northern river mouth access via attended gate at private residential community. Beach and river mouth access from the Pajaro Dunes community at Pelican Point is footpath only. Heavy equipment access from Palm Beach State Park (2660 Beach Rd, Watsonville, CA 95076). Heavy equipment access from Zmudowski State Beach, gated road (201 Giberson Rd, Moss Landing, CA 95039).

On-Water Limitations: Nearest vessel launch site is Moss Landing Harbor (3 nautical miles). It may be possible to launch skiffs from the Pelican Point parking lot into Watsonville Slough.

Facilities, Staging Areas, Command Posts, Available Equipment: Portable toilet at Zmudowski State Beach parking lot.

Communications Problems: None.



9826.2 Response Summary Tables

A summary of the response resources is listed by site and sub-strategy next.

Summary of ACP 3 GRA 2 Response Resources by Site and Sub-Strategy

Site Site Name

Sub-Strategy PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT

Equipment	Sub-Type	Size/Unit	QTY/Unit
3-200 Lighthouse Field State Beach and Point Santa Cruz			
.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART			
3-205 Cowell and Santa Cruz Beaches, Santa Cruz Wharf			
.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART			
3-210 San Lorenzo River			
.1 - Build Berm			
Staff			10
Boom	Sorbent		300 feet
PVC Pipe		6 inch	500 feet
Bulldozer or Loader			1
Stakes			2
.2 - Deploy Containment Boom			
Boom	Sorbent		800 feet
Boom	Swamp		800 feet
Anchor	Danforth		9
Stakes			4
Vessel	Skiff or Punt		1
Staff			5
3-220 Santa Cruz Harbor and Woods Lagoon			
.1 - Deploy Containment Boom			
Anchor	Danforth		7
Staff			11
Boom	Sorbent		2500 feet
Vessel	Boom Boat		3
Boom	Harbor		2500 feet
3-240 Corcoran Lagoon			
.1 - Build Berm			
Bulldozer or Loader			1
Staff			10
PVC Pipe		6 inch	500 feet
Boom	Sorbent		500 feet
Stakes			2
3-250 Soquel Creek			
.1 - Build Berm			
Boom	Sorbent		300 feet
PVC Pipe		6 inch	500 feet
Bulldozer or Loader			1
Stakes			2
Staff			10
.2 - Deploy Containment Boom			
Vessel	Skiff or Punt		1
Staff			5
Stakes			4
Anchor	Danforth		4
Boom	Sorbent		300 feet
Boom	Swamp		300 feet
3-270 Aptos Creek and SS PALO ALTO			
.1 - Build Berm			
PVC Pipe		6 inch	600 feet
Staff			10
Heavy Equipment	Bobcat w/ tracks		1
Boom	Sorbent		300 feet
Stakes			2

Site Site Name

Sub-Strategy PREVENTION OBJECTIVE OR CONDITION FOR DEPLOYMENT

Equipment	Sub-Type	Size/Unit	QTY/Unit
3-280 Manresa State Beach to Sunset Beach Road			
.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART			

3-285 Sunset State Beach and Palm Beach			
.1 - No Onsite Options: Consider Offshore Containment/Recovery/ART			

3-290 Pajaro River			
.1 - Build Berm			

Anchor	Danforth		6
PVC Pipe		6 inch	500 feet
Boom	Swamp		1400 feet
Boom	Sorbent		1400 feet
Stakes			12
Bulldozer or Loader			1
Staff			10

.2 - Deploy Containment Boom

Anchor	Danforth		6
Boom	Swamp		1400 feet
Boom	Sorbent		1400 feet
Stakes			12
Staff			5
Vessel	Skiff or Punt		1

9826.3 Lists of Economic Resources Susceptible to Oiling

A summary of Human Health and Safety Sites and Economic Resources is listed by GRA next. Refer to Section 9804 for more information.

Economic Sites - GRA 2

Site Information	Site Number & Location	Lat/Long & Priority
<p>Sunny Cove Beach Geoffroy Dr Santa Cruz CA 95062 Phone: (831) 454-7901 Site Description: County of Santa Cruz</p>	<p>Site Number: 3-2-SZ-100-D Operational Division: SZ -C</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.96087 -121.98932</p>
<p>KSCO Radio Towers 2300 Portola Dr Santa Cruz CA 95062 Phone: (831) 475-1080 Site Description: Emergency Radio Broadcast for the County of Santa Cruz. Radio towers within Corcoran Lagoon.</p>	<p>Site Number: 3-2-SZ-105-HHS Operational Division: SZ -C</p>	<p>Human Health and Safety or Critical Infrastructure Lat/Long: 36.96177 -121.98165</p>
<p>Moran Lake Beach 22785 E Cliff Dr Santa Cruz CA 95062 Phone: (831) 454-7901 Site Description: County of Santa Cruz</p>	<p>Site Number: 3-2-SZ-110-D Operational Division: SZ -C</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.95635 -121.97825</p>
<p>Pleasure Point County Park E Cliff Dr and Pleasure Point Dr Santa Cruz CA 95062 Phone: (831) 454-7901 Site Description: County of Santa Cruz</p>	<p>Site Number: 3-2-SZ-115-D Operational Division: SZ -D</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.95576 -121.97204</p>
<p>Capitola Wharf 1400 Wharf Rd Capitola CA 95010 Phone: (831) 475-7300 Site Description: City of Santa Cruz</p>	<p>Site Number: 3-2-SZ-120-D Operational Division: SZ -D</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.96973 -121.9534</p>
<p>New Brighton State Beach 1500 Park Ave Capitola CA 95010 Phone: (831) 464-632 Site Description: California State Parks</p>	<p>Site Number: 3-2-SZ-125-D Operational Division: SZ -D</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.97868 -121.93566</p>
<p>Hidden Beach County Park 660 Cliff Dr Aptos CA 95003 Phone: (831) 454-7901 Site Description: County of Santa Cruz</p>	<p>Site Number: 3-2-SZ-130-D Operational Division: SZ -E</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.95817 -121.88839</p>
<p>Seascape County Park Sumner Ave Aptos CA 95003 Phone: (831) 454-7901 Site Description: County of Santa Cruz</p>	<p>Site Number: 3-2-SZ-135-D Operational Division: SZ -E</p>	<p>Parks, Beaches, Recreational Areas D Lat/Long: 36.94791 -121.87377</p>