

4-050 -A Site Summary- Oak Knoll Creek Inlet and Beach**4-050 -A**

County: **San Luis Obispo**
 USGS Quad: **San Simeon**

Thomas Guide Location
 324 G-6
 NOAA Chart: **Pt. Sur to Pt. Conception 18700**

Latitude N 35.65306
 Longitude W 121.22177

Last Page Update : 5/1/2014

SITE DESCRIPTION:

See Division B map. Oak Knoll Creek (AKA Arroyo Laguna) is an intermittent creek, critical habitat for tidewater gobies (endangered) and steelhead trout (endangered), fronted by a sandy beach (fine grained) which is designated critical habitat for western snowy plovers (threatened). Under Hwy 1 creek bed is lined with rip rap. The site is in Hearst San Simeon State Park property and is within Monterey Bay National Marine Sanctuary and is within the Sea Otter Game refuge.

SEASONAL and SPECIAL RESOURCE CONCERN

Species of concern are present year round. Tidewater goby (critical habitat) peak nesting is April-July. Steelhead (critical habitat) peak spawning March - July. Red-legged frog peak breeding Nov.-March. Western snowy plover nesting season mid March-mid Sept. Harbor seals are present here year round pupping March - June; sea otters pup Jan-March. Elephant seals present year round; lowest concentrations occur in July and August; cows and juveniles molt March-June, bulls molt June-Aug, juveniles haulout Aug-Dec.; pupping occurs December and breeding occurs late December-March. Throughout Division B, black abalone (endangered) may be present in rocky intertidal habitat (critical habitat). Designated critical habitat for leatherback sea turtles (endangered), most commonly observed Aug. – Nov.

RESOURCES OF PRIMARY CONCERN

Western snowy plovers nest on this beach. Snowy plovers may have active nests, or chicks may be actively moving about the area. Care should be given to minimize disturbance and avoid injury to either nests, or chicks. Snowy plovers are small, white and tan colored shore birds. Beach bird-nesting sites are shallow depressions scratched out from the sand surface on sandy beaches above the highest tide line. The nest sites are typically very well disguised and difficult to see, even for trained eyes. Nest sites may contain either eggs, or chicks which are potentially vulnerable to trampling by vehicles or foot traffic. Snowy plover adults and chicks are known to move between the nest sites and the active water line. Over-wintering snowy plover adults may be foraging throughout the response area.

Shorebirds and seabirds present year round including dunlin, longbilled curlew, sandpipers, ducks, gulls, egrets, willets, crows, coots, killdeer, great blue herons. Western snowy plovers (federally threatened) utilize this sandy beach fronting Oak Knoll Creek. Plovers present year round.

Elephant seals utilize this beach. Southern sea otters can be observed offshore.

Tidewater goby (endangered species), steelhead trout (endangered), Western pond turtles (species of special concern), and red-legged frogs (federally threatened) are in this creek. Sensitive plant species include Arroyo de la Cruz manzanita.

CULTURAL, HISTORIC, and ARCHEOLOGICAL SENSITIVITIES

Contact SHPO and Native American Heritage Commission

KEY CONTACTS: Trustee (T); Entry/Owner/Access (E); Cultural (C); or Other Assistance (O)

Type	Name / Title	Organization	Phone
E/T	District Office	State Parks & Recreation Dept.	(805) 927-2065
T	Melissa Boggs Environmental Scientist	CDFW-OSPR	(805) 558-1005
C	Lynn Gamble Historic Info Center	SHPO/UCSB	(805) 893-7341
T	Mike Harris Sea otter expert	CDFW-OSPR	(805) 772-1135
O	Brian Hatfield Marine mammal expert	Bio Res Div. USGS	(805) 927-3893
T	Scott Kathey Regulatory Coordinator	Monterey Bay National Marine Sanctuary	(831) 647-4251
T	Jenny Marrek Biologist	U.S. Fish and Wildlife Service	(805) 644-1766
C	Larry Meyer	Native American Heritage Commission	(916) 373-3712
T	Elizabeth Petras Biologist	National Marine Fisheries Service	(562) 980-3238
C	SHPO	State Office of Historic Preservation	(916) 445-7000
T	Carolyn Skinder Biologist	Monterey Bay National Marine Sanctuary	(805) 927-2145
E/T	Dispatch State Parks	State Dept. Parks and Recreation	(951) 443-2969

ADDITIONAL SITE SUMMARY COMMENTS:

4-050 -A Site Strategy - Oak Knoll Creek Inlet and Beach

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324 G-6 San Luis Obispo

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CONCERNS and ADVICE to RESPONDERS:

Fish Disturbance - Avoid disturbing bottom lagoon sediments to protect tidewater gobies especially April-July goby nesting season and March - July is peak steelhead spawning. This creek is designated critical habitat for gobies and steelhead. If creek conditions allow, boom deployment and recovery to be done by only having one person slowly walk across the creek to position the boom (and fence posts on the bank) to reduce disturbance. Equipment and foot traffic entering wetted areas should be avoided to the maximum extent practical to prevent crushing tidewater gobies, their burrows, and eggs. Any anchors deployed in water should be placed in waters greater than 4 feet deep to avoid crushing tidewater goby burrows. If supplemental water is used to flush recommend gradually increasing the intensity/volume during the flush.

PRIMARY PLOVER PROTECTION STRATEGY: Designated plover critical habitat. During nesting season March - September, to aid in avoiding damage to nests, consider delineation of nesting areas and designate responder "pathways" with flagging or tape. Nests and critical habitat protection areas will require oversight by natural resource specialist prior to response effort execution. All responders should be briefed on procedures for avoiding birds and nest sites. Oil spill response and cleanup activity should be limited to locations below high tide line unless otherwise authorized by trustee agency specialist, or designee (biological monitor). The area to be protected will be monitored by an assigned biological monitor. Oil removal will be conducted by hand crews unless other methods are recommended by the biological monitor. Pre-clean the beach and stockpile kelp and surfgrass rack in designated areas for re-distribution after response efforts are completed. A staging area will be determined as most suitable for response and natural resource protection. Travel on beach should be restricted to the wet sand as much as possible; vehicle traffic should be operated at slow enough speeds to avoid/minimize impacts to wildlife (15 MPH); if possible avoid driving over wrack.

SECONDARY PLOVER PROTECTION STRATEGY: At the discretion of the biological monitor, in consultation with the U.S. Fish and Wildlife Service, snowy plover or least tern eggs may be removed from nest's by authorized and qualified personnel to an approved facility to avoid injury. This determination will be made on-site utilizing oil trajectory and oil impact timing information.

OTHER ENVIRONMENTAL CONCERNS:

Wetland/riparian habitat – Mud flats, marshlands, and creeks contain fragile habitat subject to damage from human activities such as walking and vehicle use. Oil can be trampled into sediments by responders where it will not be recoverable. Avoid walking in mudflats, marshy areas, and riparian habitat/waterways whenever possible. When crews must walk in soft bottom wetland areas to access cleanup sites, restrict the number and size of pathways. Mark authorized pathways with flagging or tape. Place temporary ramps (e.g. plywood sheets) in sensitive marshy areas where heavy use is expected.

Black abalone (endangered) may be present on nearby rocky intertidal habitat. Designated critical habitat for leatherback sea turtles, extends from shore out to 100 miles offshore; most commonly observed Aug - Nov.

Sensitive Biota - Nearshore waters include sensitive rafting areas for birds, sea otters, and other marine mammals. To protect seabirds, limit spill response activities within 1,000 feet of nesting seabirds when possible. Try to remain at least 100 yards away from marine mammals and sea turtles and if approached closely by a marine mammal or turtle while motoring, reduce speed and shift to neutral; do not engage props until the animals are observed at the surface, clear of the vessel.

SHORELINE PRE-CLEANING may be warranted before oil reaches the beach when the shoreline is covered with kelp, driftwood, etc which could become oiled and create more oiled waste. Consult with trustees prior to engaging in activities on shoreline. Move unoiled vegetation, driftwood, etc. above the high tide line. When the shoreline is narrow, un-oiled debris may need to be stockpiled elsewhere. It is suggested that photos be taken to document distribution of beach debris prior to collection so that it can be replaced to its pre-spill distribution when spill cleanup is complete. Pre-cleaning of shorelines should be conducted by hand crews to the greatest practical extent to minimize disturbance to wildlife and their habitats.

HAZARDS and RESTRICTIONS:

Hearst San Simeon State Park property and is within Monterey Bay National Marine Sanctuary. Portion of creek under Hwy 1 bridge is lined with rip rap. Consider lining rip rap with boom.

SITE STRATEGIES

Strategy 4-050.1 Objective: Exclude oil from getting into creek/estuary with berming or sandbags.

-When creek mouth is open, under low flow conditions block entrance with sediment berm or sandbag berm (fine to medium grained sand), and install flow through pipes as necessary to prevent flooding. To create protective berm take sand from active unvegetated beach face to prevent damage to dune habitat. When erosion from waves or overflows could erode berm, armor berm and banks by covering with plastic sheeting anchored by sandbags. When overflow could occur due to accumulation of water behind the containment berm install underflow piping and/or a spillway in the berm. When overwash could bring oil into inlet over berm back exclusion/containment berm with containment and/or sorbent booms and/or snare. Regular monitoring and maintenance will be necessary (2 staff twice daily). Check for berm effectiveness and integrity, overwash, and leakage problems, boom position and security, and sorbent replacement as necessary.

Strategy 4-050.2 Objective: Exclude oil from getting into creek/estuary with containment boom.

When creek mouth is open block entrance with a short skirted containment boom at appropriate angle for swift currents and changing tidal influences. When suitable berm materials are unavailable and/or when tidal flows, waterflows, or water depths are too great for berming, install exclusion booms near mouth of Inlet/lagoon using short skirted boom. Install boom in a configuration/angle which blocks channel and diverts oil to a collection point. If needed, line river/stream bank, rip-rap, side channels, and sandy beaches within lagoon, seaward of the exclusion/containment booms to restrict oil to open water area of main channel to protect vegetated banks and sensitive areas within the inlet/estuary. Use swamp boom backed by sorbent booms, if waters are shallower, and use harbor boom backed by sorbent booms, when water depths are greater. Check/maintain boom for effectiveness and integrity, overwash, and leakage problems, boom positioning and security, and sorbent replacement as necessary.

Strategy 4-050.3 Objective: Exclude oil from getting into creek/estuary with fencing.

When creek mouth is closed install excelsior fencing along top of natural berm to capture oil when there is a potential for high tidal washover.

When creek mouth is open use a filter barrier for exclusion/containment – Use this method when the cross-section of the watercourse does not exceed 20 feet in width, water flow volume is low, the channel bottom is capable of receiving and holding metal stakes, the spill consists of heavy petroleum, and berming or booming methods are not feasible due to lack of materials or accessibility. Construct a filter barrier across the channel using two parallel rows of metal stakes, upon which construction fencing is fastened. Place permeable sorbent materials such as snare or excelsior, between the two lines of fencing to capture oil. Re-adjust sorbent materials as necessary minimize entrainment and/or leakage and to accommodate flow, tidal, oceanic, and meteorological changes. Replace sorbent materials as necessary to maintain sorbent quality.

Strategy 4-050.4 Objective: Exclude/deflect oil from beach.

Offshore containment and recovery (OCR) is the preferred option although heavy surf may hinder these operations. No specific response equipment listed due to the many variables associated with each spill regarding OCR. Early consideration should be given to the use of applied response technologies.

strategy number	harbor boom	swamp boom	Other boom type	sorb boom	Anchoring no	type and gear	Boom boat	Skiffs punts	Skimmers No	Type	Special Equipment or and kinds	comment	staff deploy	Staff tend
4-050.1								1	SSS		Backhoe or sandbags, piping, plastic sheeting		4-6	
4-050.2		200			2			1	SSS				2-4	
4-050.3			200 FF					1	SSS		Excelsior fencing, metal stakes		2-4	
4-050.4		0		0	0		0			0	Offshore containment & recovery			

LOGISTICS

DIRECTIONS: to site (by land and/or by water, to nearest launch ramp and are access permits required.)

From the north: Take Hwy 101 south to Hwy 46 W to Hwy 1 N (or Hwy 5 S to Hwy 41 W to Hwy 46 W to Hwy 1 N) approx. 20 miles, one mile past Hearst Castle, cross over bridge (post mile marker 59.88), and turn left into turnout. Turnout and locked gate are approx. 1/10 mile north of bridge. Mile marker 59.88

From the south: Take Hwy 101 N to Hwy 1 exit in San Luis Obispo, continue 35 miles as above.

LAND ACCESS: Foot or ATV access with permission (State Parks) through locked gate.

WATER LOGISTICS:

Limitations: depth, obstruction

Launching, Loading, Docking Morro Bay boat launch approx. 35 miles south.

and Services Available:

FACILITIES, STAGING AREAS, POSSIBLE FIELD POSTS AND EQUIPMENT AVAILABLE:

Staging area: Turnout 1/10 mile north of bridge

Command: Motels in San Simeon is a few miles south.

Airports: SLO County Airport, approx. 1 hour south. Paso Robles Airport approx. 45 min. inland. Private landing strip approx. 5 min south, located north of Hearst Castle Visitors Center.

COMMUNICATIONS PROBLEMS:

ADDITIONAL OPERATIONAL COMMENTS:

