

**BIOLOGICAL ASSESSMENT  
MARTINEZ REGIONAL SHORELINE  
MARTINEZ BAY TRAIL CORRIDOR PROJECT**

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**PROJECT DESCRIPTION:** The project is part of the San Francisco Bay Trail and is located within Martinez Regional Shoreline (owned by the East Bay Regional Park District), the City of Martinez, and a District easement from the Union Pacific Railroad. The proposed paved trail segment begins at Carquinez Scenic Drive at the Nejedly Staging Area and continues to Berrellesa Street. The trail is approximately 2350 feet long and the width varies from 8 to 10 feet. Some trail sections will have a 2-foot wide aggregate base rock shoulder on both sides. Approximately 700 ft. of the trail alignment is in a eucalyptus dominated woodland with an ephemeral stream. Several large eucalyptus and small live oaks will be removed during the non-nesting season (August – January). Prior to the trees being removed qualified District biologists will conduct breeding bird surveys. A 35 ft long clear span bridge will be used to cross the stream. A 36" culvert will be used where the trail intersects and crosses a small wetland. The bridge and culvert will be installed during the dry season and/or under dry conditions. The proposed trail is located in Contra Costa County at 38°01.242N: 122°08.797W (see map).

The project also includes enhancement of an existing wetlands. The proposed mitigation site is within Martinez Regional Shoreline and bayside of Union Pacific Railroad and located at 38°01.156N: 122°08.657W. Currently an unpaved maintenance road bisects this wetland. This road crosses an existing small partially clogged culvert that restricts flow to the site. Consequently, the majority of the wetland receives minimal tidal flow. The proposed enhancement includes removing this culvert and maintenance road. Minor grading will be performed to restore flow across the old roadbed. Exotic vegetation shall be removed, especially from existing tidal channels, and native vegetation will be planted at various locations within the mitigation sites. The proposed project will replace an existing 4'X10' wooden pedestrian footbridge crossing a tidal slough with a 12'X16' prefabricated vehicle bridge. This will allow the District's maintenance vehicles to utilize the elevated pedestrian trail instead of unpaved old roadbed. Removal of the roadbed will provide 4,130 square feet of restored wetlands. Overall, this restoration will improve tidal and wetland conditions for 30,330 square feet, which should significantly enhance the site for a variety of emergent wetland species.

**BIOLOGICAL CONDITIONS:** This Martinez Regional Shoreline trail project transverse a blue gum eucalyptus (*Eucalyptus globules*) dominated forest with an ephemeral stream and into a highly altered railroad track corridor with some fresh water wetlands habitat. The vast majority of the trail is aligned within the District's easement

along the Union Pacific Railroad corridor. This corridor consists of railroad tracks on a road rock surface and contains a series of narrow wetlands adjacent to a hillside and/or asphalt plant. These seasonal wetlands are highly degraded and support relatively few species. The wetland vegetation is dominated by several grass species, cattails (*Typhus sp.*), willows (*Salix sp.*), and exotic trees. The most abundant invertebrates are water boatmen (*Sigara sp.*) and mosquito larvae. Although mallards, American coots, and gull species may occur in the ponding water, these relatively shallow wetlands are typically dry by July, and we have not observed any amphibians or fish in these waterbodies. A variety of passerines forage in the willows, eucalyptus, and oaks. The species composition in these trees seasonally varies with scrub jays, ruby crowned kinglets, yellow-rumped warblers, white-crowned sparrows and dark-eyed juncos are the most common species. The eucalyptus also provides habitat for nesting raptors such as red-shouldered hawks, red-tailed hawks, American kestrels, and great-horned owls. Qualified District biologist(s) shall conduct raptor surveys prior to construction and nest sites will be avoided.

The biological conditions of the proposed wetland enhancement and mitigation site are frequently inundated by tide or may seasonally pond with fresh water. Tidal water moves up a heavily vegetated channel and passes through a narrow partially clogged culvert. A bare earthen roadbed bisects the site. Otherwise, these areas are covered by brackish marsh vegetation dominated by pickleweed (*Salicornia virginica*), creeping wild rye (*Leymus triticoides*), perennial pepperweed (*Lepidium latifolium*), and salt grass (*Distichlis spicata*) (LSA 2002 report). A California Department of Fish and Game Natural Diversity Database (CNDDDB) search shows that the project enhancement site is northern coastal salt marsh. In addition, CNDDDB has known locations of Mt Diablo fairy lantern (*Calochortus pulchellus*), listed 1B by CNPS, and Diablo helianthella (*Helianthella castanea*), a federal species of concern and listed 1B by CNPS, occurring upslope in terrestrial habitat and over 200 feet from the project site and upslope (see CNDDDB map). We have not observed or detected any state or federally endangered, threatened, or species of concern at this site (see resource inventory checklist). However, improving tidal flow and wetland conditions should significantly enhance the site for a variety of species, and potentially provide habitat for California black rail, a state threatened species and federal species of concern, California clapper rail, a state endangered and federal endangered species, and salt marsh harvest mouse, a state endangered and federal endangered species.

RESOURCE INVENTORY MARTINEZ BAY TRAIL COORIDOR PROJECT WILDLIFE CHECKLIST 2003

CLASS	COMMONNAME	LATIN NAME	OBS	EXP	BREEDING	STATUS	COMMENTS
Amphibians	Arboreal Salamander	<i>Aneides lugubris</i>		yes	yes		Eucalyptus and oak woodlands
Amphibians	Bullfrog	<i>Rana catesbeiana</i>					
Amphibians	California Newt, Coast Range	<i>Taricha torosa</i>					
Amphibians	California Slender Salamander	<i>Batrachoseps attenuatus</i>		yes	yes		Eucalyptus and oak woodlands
Amphibians	Ensatina, Yellow-eyed	<i>Ensatina eschscholtzi</i>					
Amphibians	Foothill Yellow-legged Frog	<i>Rana boylei</i>				FSC, CSC	
Amphibians	Pacific Treefrog	<i>Hyla regilla</i>					
Amphibians	Red-legged Frog, California	<i>Rana aurora draytonii</i>				FT,CSC	
Amphibians	Rough-skinned Newt, Northern	<i>Taricha granulosa</i>					
Amphibians	Tiger Salamander, California	<i>Ambystoma tigrinum californiense</i>				FC,CSC	
Amphibians	Western Spadefoot Toad	<i>Scaphiopus hammondi</i>				CSC	
Amphibians	Western Toad, California	<i>Bufo boreas</i>					
Birds	Acorn Woodpecker	<i>Melanerpes formicivorus</i>					
Birds	Allen's Hummingbird	<i>Selasphorus sasin</i>		yes			Migrant
Birds	American Avocet	<i>Recurvirostra americana</i>					
Birds	American Bittern	<i>Botaurus lentiginosus</i>					
Birds	American Coot	<i>Fulica americana</i>	yes				Seasonal ponding water
Birds	American Crow	<i>Corvus brachyrhynchos</i>		yes	yes		
Birds	American Dipper	<i>Cinclus mexicanus</i>					
Birds	American Goldfinch	<i>Carduelis tristis</i>		yes	yes		
Birds	American Green-winged Teal	<i>Anas crecca</i>					
Birds	American Kestrel	<i>Falco sparverius</i>	yes		yes		Potentially nests in eucalyptus and oak woodlands
Birds	American Pipit	<i>Anthus rubescens</i>					
Birds	American Robin	<i>Turdus migratorius</i>	yes		yes		
Birds	American White Pelican	<i>Pelecanus erythrorhynchos</i>					
Birds	American Wigeon	<i>Anas americana</i>					
Birds	Anna's Hummingbird	<i>Calypte anna</i>	yes		yes		
Birds	Arctic Loon	<i>Gavia arctica</i>					
Birds	Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>					
Birds	Baird's Sandpiper	<i>Calidris bairdii</i>					
Birds	Bald Eagle	<i>Haliaeetus leucocephalus</i>				FT,SE,CFP	
Birds	Band-tailed Pigeon	<i>Columba fasciata</i>					
Birds	Bank Swallow	<i>Riparia riparia</i>				FT,SE	
Birds	Barn Swallow	<i>Hirundo rustica</i>	yes				
Birds	Barrow's Goldeneye	<i>Bucephala islandica</i>					
Birds	Belted Kingfisher	<i>Ceryle alcyon</i>					
Birds	Bewick's Wren	<i>Thryomanes bewickii</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Black Phoebe	<i>Sayornis nigricans</i>	yes		yes		
Birds	Black Scoter	<i>Melanitta nigra</i>					
Birds	Black Tern	<i>Chlidonias niger</i>					
Birds	Black Turnstone	<i>Arenaria melanocephala</i>					
Birds	Black-bellied Plover	<i>Pluvialis squatarola</i>					
Birds	Black-chinned Hummingbird	<i>Archilochus alexandri</i>		yes			
Birds	Black-chinned Sparrow	<i>Spizella atrogularis</i>					
Birds	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>					
Birds	Black-headed Grosbeak	<i>Phenictus melanocephalus</i>		yes			Eucalyptus and oak woodlands
Birds	Black-necked Stilt	<i>Himantopus mexicanus</i>					
Birds	Black-throated Gray Warbler	<i>Dendroica nigrescens</i>					
Birds	Blue Grosbeak	<i>Guiraca caerulea</i>					
Birds	Blue-gray Gnatcatcher	<i>Psaltriparus caerulea</i>					
Birds	Blue-winged Teal	<i>Anas discors</i>					
Birds	Bonaparte's Gull	<i>Larus philadelphia</i>					
Birds	Brandt's Cormorant	<i>Phalacrocorax penicillatus</i>					
Birds	Brewer's Blackbird	<i>Euphagus cyanocephalus</i>					
Birds	Brown Creeper	<i>Certhia americana</i>					Eucalyptus and oak woodlands
Birds	Brown Pelican	<i>Pelecanus occidentalis</i>				FT,SE,CFP	
Birds	Brown-headed Cowbird	<i>Molothrus ater</i>					
Birds	Bufflehead	<i>Bucephala albeola</i>					
Birds	Burrowing Owl	<i>Athene (Speotyto) cucularia</i>				CSC	
Birds	Bushit	<i>Psaltiriparus minimus</i>	yes		yes		Riparian, eucalyptus, and oak woodlands
Birds	Bullock's Oriole	<i>Icterus bullockii</i>					
Birds	California Black Rail	<i>Laterallus jamaicensis coturniculus</i>				ST	
Birds	California Clapper Rail	<i>Rallus longirostris obsoletus</i>				FE,SE,CFP	
Birds	California Gull	<i>Larus californicus</i>	yes				
Birds	California Quail	<i>Callipepla californica</i>	yes		yes		Eucalyptus and oak woodlands
Birds	California Towhee	<i>Pipilo fuscus</i>	yes		yes		Eucalyptus and oak woodlands
Birds	California Thrasher	<i>Taxostoma redivivum</i>					
Birds	Calliope Hummingbird	<i>Stelidota calliope</i>					
Birds	Canada Goose	<i>Branta canadensis</i>	yes				Seasonal ponding water
Birds	Canvasback	<i>Aythya valisineria</i>					
Birds	Canyon Wren	<i>Catherpes mexicanus</i>					
Birds	Caspian Tern	<i>Sterna caspia</i>					
Birds	Cattle Egret	<i>Bubulcus ibis</i>					
Birds	Cedar Waxwing	<i>Bombycilla cedrorum</i>	yes				Eucalyptus and oak woodlands
Birds	Chestnut-backed Chickadee	<i>Parus rufescens</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Chipping Sparrow	<i>Spizella passerina</i>					
Birds	Cinnamon Teal	<i>Anas cyanoptera</i>					
Birds	Cliff Swallow	<i>Hirundo pyrrhonota</i>	yes				

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CLASS	COMMONNAME	LATIN NAME	OBS	EXP	BREEDING	STATUS	COMMENTS
Birds	Common Barn Owl	<i>Tyto alba</i>		yes	yes		Potentially nests in eucalyptus and oak woodlands
Birds	Common Goldeneye	<i>Bucephala clangula</i>					
Birds	Common Loon	<i>Gavia immer</i>					
Birds	Common Merganser	<i>Mergus merganser</i>					
Birds	Common Moorhen (Gallinule)	<i>Gallinula chloropus</i>					
Birds	Common Murre	<i>Uria aalge</i>					
Birds	Common Poorwill	<i>Phalaenoptilus nuttali</i>					
Birds	Common Raven	<i>Corvus corax</i>	yes				
Birds	Common Snipe	<i>Gallinago gallinago</i>					
Birds	Common Tern	<i>Sterna hirundo</i>					
Birds	Common Yellowthroat	<i>Geothlypis trichas</i>					
Birds	Cooper's Hawk	<i>Accipiter cooperii</i>				CSC	
Birds	Dark-eyed (Oregon) Junco	<i>Junco hyemalis</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Double-crested Cormorant	<i>Phalacrocorax auritus</i>					
Birds	Downy Woodpecker	<i>Picoides pubescens</i>					
Birds	Dunlin	<i>Calidris alpina</i>					
Birds	Dusky Flycatcher	<i>Empidonax oberholseri</i>					
Birds	Eared Grebe	<i>Podiceps nigricollis</i>					
Birds	Elegant Tern	<i>Sterna elegans</i>					
Birds	Eurasian Wigeon	<i>Anas penelope</i>					
Birds	European Starling	<i>Sturnus vulgaris</i>	yes		yes		
Birds	Ferruginous Hawk	<i>Buteo regalis</i>				FSC,CSC	
Birds	Forster's Tern	<i>Sterna forsteri</i>					
Birds	Fox Sparrow	<i>Passerella iliaca</i>					
Birds	Gadwall	<i>Anas strepera</i>					
Birds	Glaucous Gull	<i>Larus hyperboreus</i>					
Birds	Glaucous-winged Gull	<i>Larus glaucescens</i>					
Birds	Golden Eagle	<i>Aquila chrysaetos</i>				FSC,CFP	
Birds	Golden-crowned Kinglet	<i>Regulus satrapa</i>					
Birds	Golden-crowned Sparrow	<i>Zonotrichia atricapilla</i>	yes				Winter
Birds	Grasshopper Sparrow	<i>Ammodramus savaanarum</i>					
Birds	Great Blue Heron	<i>Ardea herodias</i>		yes			Emergent wetlands
Birds	Great Egret	<i>Casmerodius albus</i>		yes			Emergent wetlands
Birds	Great Horned Owl	<i>Bubo virginianus</i>		yes	yes		Potentially nests in eucalyptus and oak woodlands
Birds	Greater Roadrunner	<i>Geococcyx californianus</i>					
Birds	Greater Scaup	<i>Aythya marila</i>					
Birds	Greater White-fronted Goose	<i>Anser albifrons</i>					
Birds	Greater Yellowlegs	<i>Tringa melanoleuca</i>					
Birds	Green-backed Heron	<i>Butorides striatus</i>					
Birds	Hairy Woodpecker	<i>Picoides villosus</i>					
Birds	Hammond's Flycatcher	<i>Empidonax hammondi</i>					
Birds	Heermann's Gull	<i>Larus heermanni</i>					
Birds	Hermit Thrush	<i>Catharus guttatus</i>		yes	yes		Eucalyptus and oak woodlands
Birds	Hermit Warbler	<i>Dendroica occidentalis</i>					
Birds	Herring Gull	<i>Larus argentatus</i>					
Birds	Hooded Merganser	<i>Lophodytes cucullatus</i>					
Birds	Hooded Oriole	<i>Icterus cucullatus</i>	yes				Eucalyptus and oak woodlands
Birds	Horned Grebe	<i>Podiceps auritus</i>					
Birds	Horned Lark	<i>Eremophila alpestris</i>					
Birds	House Finch	<i>Carpodacus mexicanus</i>	yes		yes		Eucalyptus and oak woodlands
Birds	House Sparrow	<i>Passer domesticus</i>					
Birds	House Wren	<i>Troglodytes aedon</i>					
Birds	Hutton's Vireo	<i>Vireo huttoni</i>					
Birds	Killdeer	<i>Charadrius vociferus</i>					
Birds	Lark Sparrow	<i>Chondestes grammacus</i>					
Birds	Lawrence's Goldfinch	<i>Carduelis lawrencei</i>					
Birds	Lazuli Bunting	<i>Passerina amoena</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Least Sandpiper	<i>Calidris minutilla</i>					
Birds	Least Tern	<i>Sterna antillarum browni</i>				FE,SE,CFP	
Birds	Lesser Golden-Plover	<i>Pluvialis dominica</i>					
Birds	Lesser Goldfinch	<i>Carduelis psaltria</i>					
Birds	Lesser Scaup	<i>Aythya affinis</i>					
Birds	Lesser Yellowlegs	<i>Tringa flavipes</i>					
Birds	Lewis' Woodpecker	<i>Melanerpes lewis</i>					
Birds	Lincoln's Sparrow	<i>Melospiza lincolni</i>					
Birds	Loggerhead Shrike	<i>Lanius ludovicianus</i>				FSC,CSC	
Birds	Long-eared Owl	<i>Asio otus</i>				CSC	
Birds	Long-billed Curlew	<i>Numenius americanus</i>					
Birds	Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>					
Birds	MacGillivray's Warbler	<i>Oporornis tolmiei</i>					
Birds	Mallard	<i>Anas platyrhynchos</i>	yes				Seasonal ponding water
Birds	Marbled Godwit	<i>Limosa fedoa</i>					
Birds	Marsh Wren	<i>Cistothorus palustris</i>					
Birds	Merlin	<i>Falco columbarius</i>				CSC	
Birds	Mew Gull	<i>Larus canis</i>					
Birds	Mountain Bluebird	<i>Sialia currucoides</i>					
Birds	Mourning Dove	<i>Zenaidura macroura</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Nashville Warbler	<i>Vermivora ruficapilla</i>					

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CLASS	COMMONNAME	LATIN NAME	OBS	EXP	BREEDING	STATUS	COMMENTS
Birds	Northern Oriole	<i>Icterus galbula</i>					
Birds	Northern Flicker	<i>Colaptes auratus</i>	yes				
Birds	Northern Harrier	<i>Circus cyaneus</i>				CSC	
Birds	Northern Mockingbird	<i>Mimus polyglottos</i>	yes		yes		
Birds	Northern Pintail	<i>Anas acuta</i>					
Birds	Northern Pygmy-Owl	<i>Glaucidium gnoma</i>					
Birds	Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>					
Birds	Northern Saw-whet Owl	<i>Aegolius acadicus</i>					
Birds	Northern Shoveler	<i>Anas clypeata</i>					
Birds	Nuttall's Woodpecker	<i>Picoides nuttallii</i>					
Birds	Oldsquaw	<i>Clangula hyemalis</i>					
Birds	Olive-sided Flycatcher	<i>Contopus borealis</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Orange-crowned Warbler	<i>Vermivora celata</i>					
Birds	Osprey	<i>Pandion haliaetus</i>				CSC	
Birds	Parasitic Jaeger	<i>Stercorarius parasiticus</i>					
Birds	Pectoral Sandpiper	<i>Calidris melanotos</i>					
Birds	Pelagic Cormorant	<i>Phalacrocorax pelagicus</i>					
Birds	Peregrine Falcon	<i>Falco peregrinus</i>				SE,CFP	
Birds	Phainopepla	<i>Phainopepla nitens</i>					
Birds	Pied-billed Grebe	<i>Podilymbus podiceps</i>					
Birds	Pine Siskin	<i>Carduelis pinus</i>					
Birds	Plain Titmouse	<i>Parus inornatus</i>	yes		yes		
Birds	Prairie Falcon	<i>Falco mexicanus</i>				CSC	
Birds	Purple Finch	<i>Carpodacus purpureus</i>					
Birds	Red Knot	<i>Calidris canutus</i>					
Birds	Red-breasted Merganser	<i>Mergus serrator</i>					
Birds	Red-breasted Nuthatch	<i>Sitta canadensis</i>					
Birds	Red-breasted Sapsucker	<i>Sphyrapicus ruber</i>					
Birds	Red-necked Grebe	<i>Podiceps grisegena</i>					
Birds	Red-necked Phalarope	<i>Phalaropus lobatus</i>					
Birds	Red-shouldered Hawk	<i>Buteo lineatus</i>	yes		yes		Potentially nests in eucalyptus and oak woodlands
Birds	Red-tailed Hawk	<i>Buteo jamaicensis</i>	yes		yes		Potentially nests in eucalyptus and oak woodlands
Birds	Red-throated Loon	<i>Gavia stellata</i>					
Birds	Red-winged Blackbird	<i>Agelaius phoeniceus</i>					
Birds	Redhead	<i>Aythya americana</i>					
Birds	Ring-billed Gull	<i>Larus delawarensis</i>	yes				
Birds	Ring-necked Duck	<i>Aythya collaris</i>					
Birds	Ring-necked Pheasant	<i>Phasianus colchicus</i>					
Birds	Rock Dove (Domestic Pigeon)	<i>Columba livia</i>					
Birds	Rock Wren	<i>Salpinctes obsoletus</i>					
Birds	Ross' Goose	<i>Chen rossii</i>					
Birds	Rough-legged Hawk	<i>Buteo lagopus</i>					
Birds	Ruby-crowned Kinglet	<i>Regulus calendula</i>	yes		yes		
Birds	Ruddy Duck	<i>Oxyura jamaicensis</i>					
Birds	Ruddy Turnstone	<i>Arenaria interpres</i>					
Birds	Rufous Hummingbird	<i>Selasphorus rufus</i>		yes			Migrant
Birds	Rufous-crowned Sparrow	<i>Aimophila ruficeps</i>					
Birds	Rufous-sided Towhee	<i>Pipilo erythrophthalmus</i>	yes		yes		Eucalyptus and oak woodlands
Birds	Sage Sparrow	<i>Amphispiza belli</i>					
Birds	Sanderling	<i>Calidris alba</i>					
Birds	Sandhill Crane	<i>Grus canadensis</i>					
Birds	Savannah Sparrow	<i>Passerculus sandwichensis</i>					
Birds	Saltmarsh Common Yellowthroat	<i>Geothlypis trichas sinuosa</i>				CSC	
Birds	Say's Phoebe	<i>Sayornis saya</i>					
Birds	Scrub Jay	<i>Aphelocoma coerulescens</i>	yes		yes		
Birds	Semipalmated Plover	<i>Charadrius semipalmatus</i>					
Birds	Sharp-shinned Hawk	<i>Accipiter striatus</i>				CSC	
Birds	Short-billed Dowitcher	<i>Limnodromus griseus</i>					
Birds	Short-eared Owl	<i>Asio flammeus</i>				CSC	
Birds	Snow Goose	<i>Chen caerulescens</i>					
Birds	Snowy Egret	<i>Egretta thula</i>	yes				
Birds	Snowy Plover	<i>Charadrius alexandrinus nivosus</i>					
Birds	Solitary Vireo	<i>Vireo solitarius</i>					
Birds	Song Sparrow	<i>Melospiza melodia</i>	yes				
Birds	Sora	<i>Porzana carolina</i>					
Birds	Spotted Sandpiper	<i>Actitis macularia</i>					
Birds	Stellar's Jay	<i>Cyanocitta stelleri</i>	yes		yes		
Birds	Suisun Song Sparrow	<i>Melospiza melodia</i>					
Birds	Surf Scoter	<i>Melanitta perspicillata</i>					
Birds	Surfbird	<i>Aphriza virgata</i>					
Birds	Swainson's Hawk	<i>Buteo swainsoni</i>				ST	
Birds	Swainson's Thrush	<i>Catharus ustulatus</i>		yes			Summer resident
Birds	Thayer's Gull	<i>Larus thayeri</i>					
Birds	Townsend's Solitaire	<i>Myadestes townsendi</i>					
Birds	Townsend's Warbler	<i>Dendroica townsendi</i>					
Birds	Tree Swallow	<i>Tachycineta bicolor</i>					
Birds	Tricolored Blackbird	<i>Agelaius tricolor</i>				FSC,CSC	
Birds	Tundra (Whistling) Swan	<i>Cygnus columbianus</i>					

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CLASS	COMMONNAME	LATIN NAME	OBS	EXP	BREEDING	STATUS	COMMENTS
Birds	Turkey Vulture	<i>Cathartes aura</i>	yes				
Birds	Varied Thrush	<i>Ixoreus naevius</i>					
Birds	Vaux's Swift	<i>Chaetura vauxi</i>					
Birds	Violet-green Swallow	<i>Tachycineta thalassina</i>					
Birds	Virginia Rail	<i>Rallus limicola</i>					
Birds	Wandering Tattler	<i>Heteroscelus incanus</i>					
Birds	Warbling Vireo	<i>Vireo gilvus</i>					
Birds	Water Pipet	<i>Anthus spinoletta</i>					
Birds	Western Bluebird	<i>Sialia mexicana</i>					
Birds	Western Flycatcher	<i>Empidonax difficilis</i>					
Birds	Western Grebe	<i>Aechmophorus occidentalis</i>					
Birds	Western Gull	<i>Larus occidentalis</i>	yes				
Birds	Western Kingbird	<i>Tyrannus verticalis</i>					
Birds	Western Meadowlark	<i>Sturnella neglecta</i>					
Birds	Western Sandpiper	<i>Calidris mauri</i>					
Birds	Western Screech-Owl	<i>Otus kennicottii</i>					
Birds	Western Tanager	<i>Piranga ludoviciana</i>					
Birds	Western Wood-Pewee	<i>Contopus sordidulus</i>					
Birds	Western Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>				SE	
Birds	Whimbrel	<i>Numenius phaeopus</i>					
Birds	White-breasted Nuthatch	<i>Sitta carolinensis</i>					
Birds	White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	yes		yes		
Birds	White-throated Sparrow	<i>Zonotrichia albicollis</i>					
Birds	White-throated Swift	<i>Aeronautes saxatalis</i>					
Birds	White-tailed Kite	<i>Elanus leucurus</i>				CFP	
Birds	Wild Turkey	<i>Meleagris gallopavo</i>					
Birds	Willet	<i>Catoptrophorus semipalmatus</i>					
Birds	Willow Flycatcher	<i>Empidonax traillii</i>				FE	
Birds	Wilson's Phalarope	<i>Phalaropus tricolor</i>					
Birds	Wilson's Warbler	<i>Wilsonia pusilla</i>					
Birds	Winter Wren	<i>Troglodytes troglodytes</i>					
Birds	Wood Duck	<i>Aix sponsa</i>					
Birds	Wrentit	<i>Chamaea fasciata</i>					
Birds	Yellow Warbler	<i>Dendroica petechia brewsteri</i>				CSC	
Birds	Yellow-billed Magpie	<i>Pica nuttalli</i>					
Birds	Yellow-breasted Chat	<i>Icteria virens</i>					
Birds	Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>					
Birds	Yellow-rumped (Audubon's) Warbler	<i>Dendroica coronata</i>	yes				
Birds	Yellow-rumped (Myrtle) Warbler	<i>Dendroica coronata</i>	yes				
Mammals	Audubon Cottontail	<i>Sylvilagus audubonii</i>					
Mammals	Badger	<i>Taxidea taxus</i>					
Mammals	Big Brown Bat	<i>Eptesicus fuscus</i>					
Mammals	Black Rat	<i>Rattus rattus</i>					
Mammals	Black-tailed Hare	<i>Lepus californicus</i>		yes	yes		
Mammals	Bobcat	<i>Lynx rufus</i>		yes	yes		
Mammals	Botta Pocket Gopher	<i>Thomomys bottae</i>		yes	yes		
Mammals	Brazilian Free-tailed Bat	<i>Tadarida brasiliensis</i>					
Mammals	Broad-footed Mole	<i>Scapanus latimanus</i>					
Mammals	Brush Mouse	<i>Peromyscus boylii</i>		yes	yes		
Mammals	Brush Rabbit	<i>Sylvilagus bachmani</i>					
Mammals	California Ground Squirrel	<i>Spermophilus beecheyi</i>					
Mammals	California Meadow Mouse	<i>Microtus californicus</i>		yes	yes		
Mammals	California Mouse	<i>Peromyscus californicus</i>					
Mammals	California Myotis	<i>Myotis californicus</i>					
Mammals	California Pocket Mouse	<i>Perognathus californicus</i>					
Mammals	Virginia Opossum	<i>Didelphis marsupialis</i>		yes	yes		
Mammals	Coyote	<i>Canis latrans</i>					
Mammals	Deer Mouse	<i>Peromyscus maniculatus</i>		yes	yes		
Mammals	Desert Wood Rat	<i>Neotoma lepida</i>					
Mammals	Dusky-footed Wood Rat	<i>Neotoma fuscipes</i>					
Mammals	Fox Squirrel	<i>Sciurus niger</i>					
Mammals	Fringed Myotis	<i>Myotis thysanodes</i>					
Mammals	Gray Fox	<i>Urocyon cinereoargenteus</i>		yes	yes		
Mammals	Hairy-winged Myotis	<i>Myotis volans</i>					
Mammals	Heermann Kangaroo Rat	<i>Dipodomys heermanni</i>					
Mammals	Hoary Bat	<i>Lasiurus cinereus</i>					
Mammals	House Mouse	<i>Mus musculus</i>		yes	yes		
Mammals	Kit Fox, San Joaquin	<i>Vulpes macrotis mutica</i>				FE,ST	
Mammals	Little Pocket Mouse	<i>Perognathus longimembris</i>					
Mammals	Long-eared Myotis	<i>Myotis evotis</i>					
Mammals	Long-tailed Weasel	<i>Mustela frenata</i>					
Mammals	Lump-nosed Bat	<i>Plecotus townsendii</i>					
Mammals	Mountain Lion	<i>Felis concolor</i>					
Mammals	Black-tailed Deer	<i>Odocoileus hemionus columbarius</i>	yes		yes		
Mammals	Muskrat	<i>Ondatra zibethica</i>					
Mammals	Norway Rat	<i>Rattus norvegicus</i>					
Mammals	Ornate Shrew	<i>Sorex ornatus</i>					
Mammals	Pallid Bat	<i>Antrozous pallidus</i>				CSC	



Disclaimer: Boundary and property lines shown on this map do not represent a boundary or property line survey. The East Bay Regional Park District makes no representation as to the accuracy of said property lines (or any other lines), and no liability is assumed by reason of reliance thereon. Use of this map for other than its intended purpose requires the written consent of EBRPD.

# MARTINEZ REGIONAL SHORELINE

## Martinez Bay Trail Corridor

### East Bay Regional Parks

Data Sources May Include:  
EBRPD GIS/GPS mapping and digitizing;  
Digital data from USGS, Oakland, EBMUD, ABAG,  
Teale Data Center, Sure!MAPS RASTER, ETAK,  
HJW's Carterra Orthophotography.

**Planning/Stewardship and  
GIS Services**



**NORTHERN COASTAL SALT MARSH**

PARK OFFICE

Martinez Bay Trail Corridor Project

**HELIANTHELLA CASTANEA**

