
Appendix B2 Special-Status Species Table

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Invertebrates								
Bay Checkerspot Butterfly <i>Euphydryas editha bayensis</i>	Threatened Critical Habitat	None	None	N/A	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay.	No No Critical Habitat present.	No	None
Bridges' Coast Range Shoulderband Snail <i>Helminthoglypta nickliniana bridgesi</i>	Species of Concern	None	None	N/A	Known from open, west slope hillsides in Alameda and Contra Costa counties in a variety of habitats. ^{1,2}	No	No	None
Bumblebee Scarab Beetle <i>Lichnanthe ursina</i>	Species of Concern	None	None	N/A	Coastal sand dunes, crest of sand dunes.	No	No	None
California Linderiella Fairy Shrimp <i>Linderiella occidentalis</i>	Species of Concern	None	None	N/A	Large, fairly clear vernal pools and lakes. ³	No	No	None
Callippe Silverspot Butterfly <i>Speyeria callippe callippe</i>	Endangered	None	None	N/A	Northern coastal scrub of the San Francisco Peninsula.	No	No	None
Edgewood Blind Harvestman <i>Calicina minor</i>	Species of Concern	None	None	N/A	Open grasslands in areas of serpentine bedrock where permanent springs create moist habitat underneath rocks.	No	No	None
Globose Dune Beetle <i>Coelus globosus</i>	Species of Concern	None	None	N/A	Coastal sand dunes; with dune vegetation	No	No	None

¹ Roth, B. Rare and Endangered Land Mollusks in California. California Department of Fish and Game, Inland Fisheries Administrative report No 72-10. 1972.

² Eng, L.L., Native Land Gastropods of California. California Department of Fish and Game. No Date.

³ USFWS, http://sacramento.fws.gov/es/animal_spp_acct/linderiella.htm, Accessed April 6, 2005.

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Leech's Skyline Diving Beetle <i>Hydroporus leechi</i>	Species of Concern	None	None	N/A	Previously considered limited to the San Francisco Bay Area. Now believed to be disturbed widely throughout the western United States. ⁴ Known only from freshwater ponds.	No	No	None
Mission Blue Butterfly <i>Icaricia icarioides missionensis</i>	Endangered	None	None	N/A	Grasslands of the San Francisco Peninsula.	No	No	None
Monarch Butterfly <i>Danaus plexippus</i>	None	None	None	N/A	Winter roosts in wind-protected tree groves along the coast with nearby nectar and water sources.	No—very few trees onsite and monarchs tend to winter further south.	No	None
Opler's longhorn moth <i>Adela oplerella</i>	Species of Concern	None	None	N/A	Serpentine soils and open grasslands with sandy soils and the host plant, cream cups (<i>Platystemon californicus</i>)	No	No	None
Ricksecker's Water Scavenger Beetle <i>Hydrochara rickseckeri</i>	Species of Concern	None	None	N/A	Freshwater ponds, vernal pools, and shallow quiet areas of streams within the Bay Area.	No	No	None
San Bruno Elfín Butterfly <i>Incisalia mossii bayensis</i>	Endangered	None	None	N/A	Coastal mountainous areas with grassy slopes, steep north facing slopes.	No—Suitable habitat not present within the project area.	No	None
San Francisco Lacewing <i>Nothochrysa californica</i>	Species of Concern	None	None	N/A	Freshwater streams.	No	No	None

⁴ National Park Service, Yosemite Lodge Area Redevelopment Environmental Assessment, Appendix D - Special-status Species Evaluation, http://www.nps.gov/yose/planning/lodge/html/ylarpapdx_d.htm, Accessed April 6, 2005.

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Sandy Beach Tiger Beetle <i>Cicindela hirticollis gravida</i>	Species of Concern	None	None	N/A	Found in dry sandy areas adjacent to freshwater water along coast	No	No	None
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i>	Threatened Critical Habitat	None	None	N/A	Vernal pools and depressions in grassy swales, earth slumps, and sandstone outcrops. ⁵	No No Critical Habitat present.	No	None
Mollusk								
Black Abalone <i>Haliotes cracherodii</i>	Candidate	None	None	N/A	Found in marine subtidal rocky habitats only.	No	No	None
White Abalone <i>Haliotis sorenseni</i>	Endangered	None	None	N/A	Found in marine subtidal rocky habitats only.	No	No	None
Fish								
Chinook Salmon— Central Valley fall/late fall-run <i>Oncorhynchus tshawytscha</i>	Species of Concern	None	Special Concern	N/A	Central Valley streams with stable water supply, clean gravels, and good quality riparian habitat.	No	No	None
Chinook Salmon— Central Valley spring-run <i>Oncorhynchus tshawytscha</i>	Threatened Proposed Critical Habitat	Threatened	Special Concern	N/A	Central Valley streams with stable water supply, clean gravels, and good quality riparian habitat.	No	No	None
Chinook Salmon— winter-run <i>Oncorhynchus tshawytscha</i>	Threatened Proposed Critical Habitat	Endangered	None	N/A	Central Valley streams with stable water supply, clean gravels, and good quality riparian habitat.	No	No	None

⁵ Central Coast Water Authority, http://www.essexenv.com/endangered_species/vshrimp.pdf#search='habitat%20of%20vernal%20pool%20fairy%20shrimp', Accessed April 6, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Coho Salmon—Central California coast <i>Oncorhynchus kisutch</i>	Endangered Proposed Critical Habitat	Endangered	None	N/A	Coastal streams with stable water supply abundant woody debris, and high quality riparian habitat.	No	No	None
Delta Smelt <i>Hypomesus transpacificus</i>	Threatened Critical Habitat	Threatened	None	N/A	Sacramento-San Joaquin Delta as salinities less than 2 PPM. Generally not found in smaller freshwater streams.	No No Critical Habitat within the project area.	No	None
Longfin Smelt <i>Spirinchus thaleichthys</i>	Species of Concern	None	Species of Concern	N/A	Sacramento-San Joaquin Delta at salinities less than 2 PPM. Generally not found in smaller freshwater streams. Historically present in the southern portions of San Francisco Bay.	No	No	None
Pacific Lamprey <i>Lampetra tridentata</i>	Species of Concern	None	None	N/A	Coastal streams with stable water supply, clean gravels, and good quality riparian habitat.	No	No	None
Sacramento Splittail <i>Pogonichthys macrolepidotus</i>	Species of Concern	None	Special Concern	N/A	Slow moving rivers and sloughs often associated with flooded vegetation.	No	No	None
Steelhead—Central California Coast <i>Oncorhynchus mykiss</i>	Threatened Proposed Critical Habitat	None	None	N/A	Coastal streams with stable water supply, clean gravels, and good quality riparian habitat.	No Project is within critical habitat unit 6, but does not support any of the primary elements to be considered critical habitat.	No	None
Steelhead—Central Valley <i>Oncorhynchus mykiss</i>	Threatened	None	None	N/A	Central Valley streams with stable water supply, clean gravels, and good quality riparian habitat.	No	No	None
Tidewater Goby <i>Eucyclogobius newberryi</i>	Endangered	None	Species of Concern	N/A	Brackish water habitats along coast, fairly still but not stagnant water and high oxygen levels.	No—Too much tidal flushing at the project site.	No	None

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Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
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Amphibians and Reptiles								
Alameda Whipsnake <i>Masticophis lateralis euryxanthus</i>	Threatened	Threatened	None	N/A	Found from sea level to 1,835 m (6,020 ft). Prefers mixed chaparral, chamise-redshank chaparral and valley-foothill riparian habitats. Also occurs in a variety of other habitats, including valley-foothill hardwood and hardwood-conifer as well as various coniferous habitats.	No	No	None
California Horned Lizard <i>Phrynosoma coronatum frontale</i>	Species of Concern	None	Species of Concern	N/A	Scattered shrubs over exposed sandy substrates, annual grasslands, and riparian woodlands. ⁶	No	No	None
California Red-legged Frog <i>Rana aurora draytonii</i>	Threatened Proposed Critical Habitat	None	Species of Concern (Fully Protected)	N/A	Pools in slow-moving streams and ponds with well-developed emergent freshwater marsh vegetation. ⁷	No No Critical Habitat present.	No	None
California Tiger Salamander <i>Ambystoma californiense</i>	Threatened Proposed Critical Habitat	None	Species of Concern (Fully Protected)	N/A	Annual grasslands and understory of hardwood habitats. Breeding typically associated with temporary pools and ponds. ⁸	No No Critical Habitat present or proposed for project area.	No	None
Foothill Yellow-legged Frog <i>Rana boylei</i>	Species of Concern	None	Species of Concern (Fully Protected)	N/A	Generally prefer shallow water in flowing streams and rivers with some cobble substrate. ⁹	No	No	None

⁶ Jennings, M.R. and M.P. Hayes, 1994. Amphibian and Reptile Species of Special Concern in California. Final Report, Inland Fisheries Division, California Department of Fish and Game. 255 pp.

⁷ Ibid.

⁸ Ibid.

⁹ Ibid.

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	Federal	State	CDFG ^b	CNPS ^c				
Green Turtle <i>Chelonia mydas</i> (incl. <i>Agassizi</i>)	Threatened	None	None	N/A	Pelagic.	No	No	None
Leatherback Turtle <i>Dermochelys coriacea</i>	Endangered	None	None	N/A	Pelagic.	No	No	None
Loggerhead Turtle <i>Caretta caretta</i>	Threatened	None	None	N/A	Pelagic.	No	No	None
Olive (=Pacific) Ridley Sea Turtle <i>Lepidochelys olivacea</i>	Threatened	None	None	N/A	Pelagic.	No	No	None
San Francisco Garter Snake <i>Thamnophis sirtalis tetrataenia</i>	Endangered	Endangered	Fully Protected	N/A	Found in a vicinity of freshwater marshes, ponds, and slow moving streams in San Mateo County. Upland habitat that provides suitable hibernation and estivation burrows.	No	No	None
Western Pond Turtle includes Northwestern and Southwestern subspecies. <i>Emys (=Clemmys) marmorata</i>	Species of Concern	None	Species of Concern	N/A	Ponds, lakes, slow moving streams, areas with multiple aerial and aquatic basking sites are preferred. ¹⁰	No	No	None
Western Spadefoot Toad <i>Spea hammondi</i>	Species of Concern	None	Special Concern (Fully Protected)	N/A	Grasslands with shallow temporary pools.	No	No	None

¹⁰ Ibid.

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Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
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Birds								
Alameda (South Bay) song sparrow <i>Melospiza melodia pusillula</i>	Species of Concern	None	Species of Concern	N/A	Tidal salt marsh habitats along the edge of the Bay and streams where tidal flow affects the vegetation.	Marginal habitat present in several small areas of salt grass	No	Low
Allen's Hummingbird (nesting) <i>Selasphorus sasin</i>	Species of Concern	None	None	N/A	Chaparral, thickets, brushy slopes, and open coniferous forest.	No nesting habitat on site.	No	None
American Peregrine Falcon (nesting) <i>Falco peregrinus anatum</i>	Delisted	Endangered	Fully Protected	N/A	Frequents bodies of water in open areas with cliffs and canyons nearby for cover and nesting.	No	No	None
Ashy Storm-petrel (rookery) <i>Oceanodroma homochroa</i>	Species of Concern	None	Species of Concern	N/A	Pelagic, nests on offshore islands.	No	No	None
Bald Eagle (nesting and wintering) <i>Haliaeetus leucocephalus</i>	Threatened (Proposed for de-listing)	Endangered	Sensitive Species (Fully Protected)	N/A	Shorelines, lakes, large rivers. Nests in large open trees. No nesting habitat onsite.	No	No	None
Bank Swallow (nesting) <i>Riparia riparia</i>	Special Concern	Threatened	None	N/A	Nests in steep river banks.	No	No	None
Bell's Sage Sparrow <i>Amphispiza belli belli</i>	Species of Concern	None	Species of Concern	N/A	Though restricted to shrubby habitats, Bell's Sage Sparrow tolerates a fairly broad range of shrublands, from coastal sage scrub to various types of chaparral. ¹¹	No	No	None

¹¹ <http://www.sdnhm.org/research/birdatlas/wrenderings/99spring-reports.html#sage>, Accessed April 6, 2005.

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Black Oystercatcher (nesting) <i>Haematopus bachmani</i>	Species of Concern	None	None	N/A	Rocky seacoasts. ¹²	No	No	None
Black Rail <i>Laterallus jamaicensis coturniculus</i>	None	Threatened	Fully Protected	N/A	Found in tidal salt marshes where pickleweed is the primary vegetation. Also found in fresh water and brackish marshes at low elevations.	No	No	None
Black Skimmer (nesting colony) <i>Rynchops niger</i>	Species of Concern	None	Species of Concern	N/A	Requires shallow, calm water for foraging, and sand bars, beaches, or dikes for roosting and nesting. ¹³ Nesting sites very sensitive to human disturbance.	Yes—perching habitat on breakwaters and nearby Bay is calm enough at times for foraging.	No	Low—Very few skimmers reported from the Bay on a regular basis.
Black Swift (nesting) <i>Cypseloides niger</i>	Species of Concern	None	Species of Concern	N/A	Nests on cliffs near water.	No	No	None
Black Turnstone <i>Arenaria melanocephala</i>	Species of Concern	None	None	N/A	Winter resident on rocky coastlines throughout California. Breeds in western Alaska.	Wintering habitat only.	No	Low
California Brown Pelican (rookery and communal roosts) <i>Pelecanus occidentalis californicus</i>	Endangered	Endangered	Fully Protected	N/A	Estuarine, marine subtidal, and marine pelagic waters along the California coast. Nests typically on islands or offshore rocks. ¹⁴	Yes—Foraging habitat only.	No	Low
California Clapper Rail <i>Rallus longirostris obsoletus</i>	Endangered	Endangered	Fully Protected	N/A	Saltwater and brackish marshes often crossed by tidal sloughs in the San Francisco Bay. Closely associated with pickleweed.	No habitat onsite, but there are nearby records.	No	None

¹² <http://www.enature.com/fieldguide/showSpeciesRECNUM.asp?recnum=BD0161>, Accessed April 6, 2005.

¹³ <http://www.dfg.ca.gov/whdab/html/B236.html>, Accessed April 6, 2005.

¹⁴ http://www.dfg.ca.gov/hcpb/cgi-bin/read_one.asp?specy=birds&idNum=13, Accessed April 6, 2005.

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Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
California Least Tern (nesting colony) <i>Sterna antillarum</i> (= <i>albifrons</i>) <i>browni</i>	Endangered	Endangered	Fully Protected	N/A	Nesting colonies found along the coast and in San Francisco Bay. Uses bare or sparsely vegetated flat beaches, alkali flats and other relatively open areas for nesting.	Very poor quality nesting habitat at the sandy beach. Likely too much human related disturbance.	No	None
Cooper's Hawk (nesting) <i>Accipiter cooperii</i>	None	None	Species of Concern	N/A	Dense stands of live oak, riparian, deciduous, or other forest habitats near water used most frequently. ¹⁵	No	No	None
Costa's Hummingbird (nesting) <i>Calypte costae</i>	Species of Concern	None	None	N/A	Chaparral and low desert regions.	No	No	None
Double-crested Cormorant (nesting) <i>Phalacrocorax auritus</i>	None	None	Species of Concern	N/A	Nests in trees along lake margins and on coastal cliffs.	No	No	None
Elegant Tern (nesting colony) <i>Sterna elegans</i>	Species of Concern	None	Species of Concern	N/A	Inshore coastal waters, bays, estuaries, and harbors; rarely occurs far offshore, and never inland. Generally does not breed in the Bay.	No breeding habitat present within project area.	No	None
Ferruginous Hawk (wintering) <i>Buteo regalis</i>	Species of Concern	None	Species of Concern	N/A	Winters in a variety of habitats in California. Fairly common winter resident of grasslands and agricultural areas in southwestern California (Garrett and Dunn 1981).	No	No	None
Golden Eagle (nesting and wintering) <i>Aquila chrysaetos</i>	None	None	Species of Concern (Fully Protected)	N/A	Rolling foothills, mountain areas, sage-juniper flats, desert. Ranges from sea level up to 3833 m (0-11,500 ft).	No	No	None

¹⁵ <http://www.dfg.ca.gov/whdab/html/B116.html>, Accessed April 6, 2005.

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Harlequin Duck (nesting) <i>Histrionicus histrionicus</i>	Species of Concern	None	Species of Concern	N/A	Usually nests along shores of shallow, swift rivers with plentiful aquatic invertebrates. ¹⁶	No	No	None
Lawrence's Goldfinch (nesting) <i>Carduelis lawrencei</i>	Species of Concern	None	None	N/A	Oak and riparian woodland, chaparral, pinion/juniper woodland, and weedy areas near water.	No	No	None
Lewis' Woodpecker (nesting) <i>Melanerpes lewis</i>	Species of Concern	None	None	N/A	Breeds in tree cavities in inner coast range.	No	No	None
Little Willow Flycatcher (nesting) <i>Empidonax traillii brewsteri</i>	None	Endangered ¹⁷	None	N/A	Summer resident in wet meadow and montane riparian habitats at 600-2500 m (2000-8000 ft) in the Sierra Nevada and Cascade Range. Most often occurs in broad, open river valleys or large mountain meadows with lush growth of shrubby willows (Serena 1982). ¹⁸	No	No	None
Loggerhead Shrike (nesting) <i>Lanius ludovicianus</i>	Species of Concern	None	Species of Concern	N/A	Grasslands for foraging and associated riparian and scrub for nesting.	No	No	None
Long-billed Curlew (nesting) <i>Numenius americanus</i>	Species of Concern	None	Species of Concern	N/A	Upland short-grass prairies and wet meadows are used for nesting; coastal estuaries, open grasslands, and croplands are used in winter.	No	No	None
Marbled Godwit <i>Limosa fedoa</i>	Species of Concern	None	None	N/A	Winter resident along the coast. Uses primarily mudflat and estuarine habitats. Breeds in central Canada.	No	No	None

¹⁶ <http://www.dfg.ca.gov/whdab/html/B096.html>, Accessed April 6, 2005.

¹⁷ http://www.dfg.ca.gov/hcpb/cgi-bin/read_one.asp?specy=birds&idNum=75, Accessed April 6, 2005.

¹⁸ <http://www.dfg.ca.gov/whdab/html/B315.html>, Accessed April 6, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Marbled Murrelet <i>Brachyramphus marmoratus</i>	Threatened Critical Habitat	Endangered	None	N/A	Occurs year-round in marine subtidal and pelagic habitats from the Oregon border to Point Sal, Santa Barbara Co. (Sowls et al. 1980). ¹⁹ Breeds in mature coniferous forests.	No Critical Habitat not present within the project area.	No	None
Northern Harrier (nesting) <i>Circus cyaneus</i>	None	None	Species of Concern	N/A	Occurs from annual grassland up to lodgepole pine and alpine meadow habitats, as high as 3000 m (10,000 ft). Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. ²⁰	No	No	None
Red Knot <i>Calidris canutus</i>	Species of Concern	None	None	N/A	Migrant shorebird. Present in very low numbers during migration, especially in the fall.	No	No	None
Rufous Hummingbird (nesting) <i>Selasphorus rufus</i>	Species of Concern	None	None	N/A	Coniferous forest, thickets and brushy slopes, forages in adjacent meadows.	No	No	None
Saltmarsh Common Yellowthroat <i>Geothlypis trichas sinuosa</i>	Species of Concern	None	Species of Concern	N/A	Fresh and saltwater marshes, thick continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	No	No	None
Short-eared Owl (nesting) <i>Asio flammeus</i>	None	None	Species of Concern	N/A	Usually found in open areas with few trees, such as annual and perennial grasslands, prairies, dunes, meadows, irrigated lands, and saline and fresh emergent wetlands. Occasionally breeds in northern California (McCaskie et al. 1988).	No	No	None

¹⁹ <http://www.dfg.ca.gov/whdab/html/B240.html>, Accessed April 6, 2005.

²⁰ <http://www.dfg.ca.gov/whdab/html/B114.html>, Accessed April 6, 2005.

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Short-tailed Albatross <i>Diomedea albatrus</i>	Endangered	None	None	N/A	Pelagic.	No	No	None
Tricolored Blackbird (nesting colony) <i>Agelaius tricolor</i>	Species of Concern	None	Special Concern	N/A	Colonial nester that uses tules or bulrush for nesting. Also requires open water and nearby source of insects to prey on.	No suitable nesting habitat within the project site	No	None
Vaux's Swift (nesting) <i>Chaetura vauxi</i>	Species of Concern	None	Species of Concern	N/A	Prefers redwood and Douglas fir habitats with nest-sites in large hollow trees and snags, especially tall, burned-out stubs.	No	No	None
Western Burrowing Owl <i>Athene cunicularia hypugaea</i>	Species of Concern	None	Species of Concern	N/A	Habitats with low-growing vegetation (grasslands, scrub, deserts). Dependent on burrowing mammals, especially California ground squirrels.	No	No	None
Western Snowy Plover (nesting) <i>Charadrius alexandrinus nivosus</i>	Threatened Critical Habitat Proposed	None	Species of Concern	N/A	Nests on sandy beaches of the ocean, bays, salt ponds, and larger lakes.	Marginal nesting habitat along shoreline of the Mole and sandy beach. Project is not within a proposed Critical Habitat unit.	No	Low
White-tailed Kite (nesting) <i>Elanus leucurus</i>	Species of Concern	None	Fully Protected	N/A	Grasslands, agriculture, wetlands, oak-woodland and savannah habitats, and riparian areas associated with open areas.	No	No	None
Whimbrel <i>Numenius phaeopus</i>	Species of Concern	None	None	N/A	Common winter resident. Uses mudflat and sandy shoreline habitats. Breeds in eastern Alaska and along Hudson Bay.	Yes	No	None

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	Federal	State	CDFG ^b	CNPS ^c				
Mammals								
Alameda Island Mole <i>Scapanus latimanus parvus</i>	Species of Concern	None	Species of Concern	N/A	Soft soil in valleys and mountain meadows in several biotic communities. ²¹	No	No	None
American Badger <i>Taxidea taxus</i>	None	None	Species of Concern	N/A	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. ²²	No	No	None
Berkeley Kangaroo Rat <i>Dipodomys heermanni berkeleyensis</i>	Species of Concern	None	None	N/A	Found in Briones Valley and east Oakland. ²³ No records for the peninsula.	No	No	None
Blue Whale <i>Balaenoptera musculus</i>	Endangered			N/A	Pelagic.	No	No	None
Finback (=fin) Whale <i>Balaenoptera physalus</i>	Endangered			N/A	Pelagic.	No	No	None
Fringed Myotis Bat <i>Myotis thysanodes</i>	Species of Concern	None	None	N/A	Pinyon-juniper, valley foothill hardwood and hardwood-conifer, generally at 4000-7000 ft. Most common roosts are in caves, mines, buildings, and crevices (CDFG 1999a).	No	No	None
Southern Sea Otter <i>Enhydra lutris nereis</i>	Threatened	None	Fully Protected	N/A	Pelagic.	No	No	None
Western Mastiff-bat <i>Eumops perotis californicus</i>	Species of Concern	None	Species of Concern	N/A	Roost in cracks on cliff faces and buildings. They may forage quite some distance from roosting locations. ²⁴	Foraging habitat only.	No	None

²¹ U.S. Army Corps of Engineers, *Long Term Management Strategy Program*, June 2000. <http://www.spn.usace.army.mil/draftmgtpplan/table4.pdf#search='habitat%20of%20alameda%20Island%20mole'>, Accessed April 6, 2005.

²² <http://www.dfg.ca.gov/whdab/html/M160.html>, Accessed April 6, 2005.

²³ U.S. Army Corps of Engineers, *Long Term Management Strategy Program*, June 2000. <http://www.spn.usace.army.mil/draftmgtpplan/table4.pdf#search='habitat%20of%20alameda%20Island%20mole'>, Accessed April 6, 2005.

Appendix B2: Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Grey Whale <i>Eschrichtius robustus</i>	Delisted			N/A	Pelagic.	No	No	None
Guadalupe Fur Seal <i>Arctocephalus townsendi</i>	Threatened	Threatened	Fully Protected	N/A	Pelagic.	No	No	None
Long-eared Myotis Bat <i>Myotis evotis</i>	Species of Concern	None	None	N/A	Found in all brush, woodland, and forest habitats from sea-level to 9000 feet.	No	No	None
Long-legged Myotis Bat <i>Myotis volans</i>	Species of Concern	None	None	N/A	Woodland and forest habitats above 4000 ft. Forages in chaparral, and coastal scrub habitats, and in early successional stages of woodlands and forests. Roosts in rock crevices, buildings, under tree bark, in snags, mines, and caves. (CDFG 1999b)	No	No	None
Pacific Western Big-eared Bat <i>Corynorhinus (=Plecotus) townsendii</i>	Species of Concern	None	Species of Concern	N/A	Well distributed throughout a variety of habitats (coniferous forests, oak woodlands, broad-leaf forests, grasslands, etc). Roosts in caves, buildings, tunnels, and other human structures. ²⁵	Foraging habitat only. No roosting habitat on site.	No	None
Point Reyes Jumping Mouse <i>Zapus trinotatus orarius</i>	Species of Concern	None	Species of Concern	N/A	Bunch grass marshes on the uplands of Point Reyes. ²⁶	No	No	None
Right Whale <i>Eubalaena glacialis</i>	Endangered			N/A	Pelagic.	No	No	None

²⁴ Williams, D.F., 1986. Mammal Species of Special Concern in California. Administrative Report 86-1, Wildlife Management Division, California Department of Fish and Game. 112 pp.

²⁵ Ibid.

²⁶ http://www.dfg.ca.gov/hcpb/cgi-bin/read_one.asp?specy=mammals&idNum=66, Accessed April 6, 2005.

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Riparian (San Joaquin Valley) Woodrat <i>Neotoma fuscipes riparia</i>	Endangered	None	Species of Concern	N/A	Builds nests of debris in riparian corridors, scrub and woodland habitats throughout the San Joaquin River system.	No	No	None
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i>	Endangered	Endangered	Fully Protected	N/A	Found only in emergent salt marsh habitats of San Francisco Bay where pickleweed is the primary vegetation.	No—essentially no pickleweed present on site.	No	None
Salt Marsh Vagrant Shrew <i>Sorex vagrans halicoetes</i>	Species of Concern	None	Species of Concern	N/A	Found in dense, low cover above high tide line of tidal marshes of South of San Francisco Bay.	Low quality habitat in salt grass patches.	No	Low
San Francisco Dusky-footed Woodrat <i>Neotoma fuscipes annectens</i>	Species of Concern	None	Species of Concern	N/A	Builds nests out of debris in riparian corridors, scrub and woodland habitats.	No	No	None
San Joaquin Pocket Mouse <i>Perognathus inornatus</i>	Species of Concern	Non	None	N/A	Grassy or weedy fine-textured soil in the Lower and Upper Sonoran life zones of the San Joaquin and Salinas valleys. ²⁷	No	No	None
Sei Whale <i>Balaenoptera borealis</i>	Endangered			N/A	Pelagic.	No	No	None
Sperm Whale <i>Physeter catodon (=macrocephalus)</i>	Endangered			N/A	Pelagic.	No	No	None

²⁷ U.S. Army Corps of Engineers, Long Term Management Strategy Program, June 2000. <http://www.spn.usace.army.mil/draftmgtp/plan/table4.pdf#search='habitat%20of%20alameda%20Island%20mole'>, Accessed April 6, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Steller (=northern) Sea-lion <i>Eumetopias jubatus</i>	Threatened Critical Habitat	None	None	N/A	Pelagic. Critical habitat pertains to rookeries and haul-out areas and foraging habitat in Alaska.	No No Critical Habitat present.	No	None
Yuma Myotis Bat <i>Myotis yumanensis</i>	Species of Concern	None	None	N/A	Optimal habitats are open forest and woodlands with sources of water for feeding.	No	No	None
Plants								
Adobe Sanicle <i>Sanicula Maritima</i>	Species of Concern	Rare	None	1B	Meadow and seep; valley and foothill grassland.	No	No	None
Alkali Milk-Vetch <i>Astragalus tener</i> var. <i>tener</i>	Species of Concern	None	None	1B	Valley and foothill grasslands and vernal pools.	No	No	None
Arcuate Bush Mallow <i>Malacothamnus arcutatus</i> (=M. <i>fasciculat</i>)	Species of Local Concern	None	None	1B	Chaparral.	No	No	None
Beach Layia <i>Layia Carnosa</i>	Endangered	Endangered	None	1B	Coastal Dunes, on sparsely vegetated semi-stabilized dunes.	No	No	None
Bent-flowered Fiddleneck <i>Amsinckia lunaris</i>	Species of Local Concern	None	None	1B	Cismontane woodlands, valley and foothill grassland, 50-500 meters above sea level.	No	No	None

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Big-scale (=California) Balsamroot <i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i>	Species of Local Concern	None	None	1B	Valley and foothill grasslands and cismontane woodlands, often associated with serpentine soils.	No	No	None
California Broomrape <i>Orobanche californica</i> ssp. <i>californica</i>	Species of Local Concern				Dry washes, mountain slopes and flats ²⁸	No	No	None
California Croton <i>Croton californicus</i>	Species of Local Concern				Coastal sage scrub, chaparral, desert scrub, and coastal strand. ²⁹	No	No	None
California Goosefoot <i>Chenopodium californicum</i>	Species of Local Concern				Dryish plains and slopes below 5000', cismontane to desert edge. ³⁰	No	No	None
California Saltbush <i>Atriplex californica</i>	Species of Local Concern	None	None	None	Coastal areas over sandy soils.			
California Sea Blite <i>Suaeda californica</i>	Endangered	None	None	1B	Coastal salt marshes.	No	No	None
California Seablite <i>Suaeda californica</i>	Endangered	None	None	1B	Coastal salt marshes.	No	No	None
Choris's (=artist's popcorn-flower) <i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>	Species of Local Concern	None	None	1B	Chaparral and coastal prairie. Blooms Mar–Jun.			

²⁸ <http://www.calflora.net/bloomingplants/index.html>, Accessed April 6, 2005.

²⁹ California Native Plant Society, Yerba Buena Chapter, http://www.cnps-yerbabuena.org/rare_croton.html, Accessed April 6, 2005.

³⁰ <http://www.calflora.net/bloomingplants/californiagoosefoot.html>, Accessed April 6, 2005.

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Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Coast (=elegant) Rein-orchid (=piperia) <i>Piperia elegans</i>	Species of Local Concern	None	None		Open sites in shrublands and coniferous forests. ³¹	No	No	None
Coast Indian Paintbrush <i>Castilleja affinis</i> spp. <i>affinis</i>	Species of Local Concern				Valley and foothill grasslands	No	No	None
Coast Lily <i>Lilium maritimum</i>	Species of Concern	None	None	1B	Forest, prairie, coastal scrub, marshes, and swamps. ³²	No	No	None
Coast Rock-cress <i>Arabis blepharophylla</i>	Species of Local Concern	None	None	4	Coastal bluff scrub, coastal prairie, coastal scrub. ³³	No	No	None
Coast Yellow Leptosiphon <i>Leptosiphon croceus</i>	None	None	None	1B	Coastal bluff scrub, coastal prairie.	No	No	None
Coastal Triquetrella <i>Triquetrella californica</i>	None	None	None	1B	Coastal bluff scrub, coastal scrub. ³⁴	No	No	None
Compact Cobweb Thistle <i>Cirsium occidentale</i> var. <i>compactum</i>	Species of Concern	None	None	1B	Chaparral, coastal dunes, coastal prairie, coastal scrub. ³⁵	No	No	None

³¹ <http://www.enature.com/fieldguide/showSpeciesRECNUM.asp?recnum=WF1553>, Accessed April 6, 2005.

³² Marin County, *Biological and Wetland Protection Technical Background Report*, 2002, <http://www.co.marin.ca.us/depts/CD/main/pdf/planning/BioticresourcesBR.pdf>, Accessed April 7, 2005.

³³ National Park Service, Marine Mammal Center Site and Facilities Improvements Environmental Assessment and FONSI, Appendix B, 2004, <http://www.nps.gov/goga/admin/planning/pdf/appendixb.pdf>, Accessed April 7, 2005.

³⁴ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Congdon's tarplant <i>Hemizonia parryi</i> ssp. <i>congdonii</i>	Species of Concern	None	None	1B	Grassland. ³⁶	No	No	None
Contra Costa Goldfields <i>Lasthenia conjugens</i>	Endangered	None	None	1B	Open grassy depressions in valley and foothill grassland and vernal pools.	No	No	None
Crystal Springs Lessingia <i>Lessingia arachnoidea</i>	Species of Concern	None	None	1B	Grassy slopes on serpentine soils through coastal sage scrub, valley and foothill grasslands and woodlands.	No	No	None
Curly-leaved (=curlyleaf) monardella <i>Monardella undulata</i>	Species of Concern	None	None	4	Chaparral. ³⁷	No	No	None
Davy's Clarkia <i>Clarkia davyi</i>	Species of Local Concern	None	None	None	Coastal scrub and valley and foothill grasslands.	No	No	None
Diablo Helianthella (=rock-rose) <i>Helianthella castanea</i>	Species of Concern	None	None	1B	Broadleaved upland forest, cismontane woodland. Usually in chaparral/oak woodland interface in rocky, azonal soils often in partial shade.	No	No	None
Dune (=Camphor) tansy <i>Tanacetum camphoratum</i>	Species of Concern	None	None	None	Stable or semi-mobile coastal sand dunes.	No	No	None
Fountain Thistle <i>Cirsium fontinale</i> var. <i>fontinale</i>	Endangered	Endangered	None	1B	Drainages through serpentine soils in woodland, chaparral, and grassland habitats.	No	No	None

³⁵ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

³⁶ City of Palo Alto, Stanford EIR.

³⁷ City of Palo Alto, Stanford EIR.

Appendix B2: Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Fragrant Fritillary (=prairie bells) <i>Fritillaria liliacea</i>	Species of Concern	None	None	1B	Valley and foothill grasslands, typically over serpentine soils although the soil type varies.	No	No	None
Franciscan Manzanita <i>Arctostaphylos hookeri</i> ssp. <i>franciscana</i>	Species of Concern	None	None	1A	Chaparral, formally endemic to San Francisco, now only exists in cultivation. Coastal scrub (serpentine).	No	No	None
Franciscan Onion <i>Allium peninsulare</i> var. <i>franciscanum</i>	Species of Local Concern	None	None	1B	Clay and serpentine soils on dry hillsides in woodlands and valley and foothill grasslands.	No	No	None
Franciscan Thistle <i>Cirsium andrewsii</i>	Species of Concern	None	None	1B	Forest, coastal bluff scrub, prairie, and coastal scrub. ³⁸	No	No	None
Greene's popcorn flower <i>Plagiobothrys</i> <i>eticulates</i> var. <i>rossianorum</i>	Species of Concern	None	None	None	Grasslands and forest.	No	No	None
Hairless Popcorn-flower <i>Plagiobothrys glaber</i>	Species of Concern	None	None	1A	Coastal salt marshes and alkali meadows.	No	No	None
Hickman's Potentilla (=cinquefoil) <i>Potentilla hickmanii</i>	Endangered	Endangered	None	1B	Coastal bluff scrub, closed cone coniferous forest, freshwater marshes, seep, and small streams in open or forested areas along coast.	No	No	None
Hillsborough Chocolate Lily (=Gray's fritillary) <i>Fritillaria biflora</i> var. <i>ineziana</i> (=F. <i>grayana</i>)	Species of Concern	None	None	1B	Through valley and foothill grasslands and woodlands, likely restricted to serpentine soils.	No	No	None

³⁸ Marin County, Biological and Wetland Protection Technical Background Report, 2002, <http://www.co.marin.ca.us/depts/CD/main/pdf/planning/BioticresourcesBR.pdf>, Accessed April 7, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Kellogg's Horkelia <i>Horkelia cuneata</i> ssp. <i>Sericea</i>	Species of Concern	None	None	1B	Closed cone coniferous forests, coastal scrub, old dunes, coastal sandhills, 10-220 meters above sea level.	No	No	None
King's Mountain Manzanita <i>Arctostaphylos regismontana</i>	Species of Local Concern	None	None	1B	Broadleaved upland forest, chaparral, and north coast coniferous forest.	No	No	None
Large-flowered (=flower) linanthus <i>Linanthus grandiflorus</i>	Species of Concern	None	None	4	Coastal bluff scrub, closed-cone coniferous forest, valley and foothill grasslands.	No	No	None
Loma Prieta Hoita <i>Hoita strobilina</i>	None	None	None	1B	Chaparral and riparian woodlands, usually serpentine soils.	No	No	None
Marin dwarf-flax (=western flax) <i>Hesperolinon congestum</i>	Threatened	Threatened	None	1B	Found on serpentine barrens, grasslands, and chaparral.	No	No	None
Marsh Microseris (=marsh silverpuffs) <i>Microseris paludosa</i>	Species of Local Concern	None	None	1B	Forest, woodland, coastal scrub, and grassland. ³⁹	No	No	None
Marsh Milk-vetch (=brine milk-vetch) <i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i>	Species of Local Concern	None	None	1B	Coastal dune or salt marsh.	No	No	None
Marsh Sandwort <i>Arenaria paludicola</i>	Endangered	Endangered	None	1B	Swamps, freshwater marshes, and other wet areas.	No	No	None

³⁹ Marin County, Biological and Wetland Protection Technical Background Report, 2002, <http://www.co.marin.ca.us/depts/CD/main/pdf/planning/BioticresourcesBR.pdf>, Accessed April 7, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Mission Delores (=San Francisco) Champion <i>Silene verecunda</i> ssp. <i>Verecunda</i>	Species of Concern	None	None	1B	Often on mudstone or shale, coastal scrub, valley and foothill grassland, coastal bluff scrub.	No	No	None
Montara Manzanita <i>Arctostaphylos montaraensis</i>	Species of Concern	None	None	1B	Coastal Scrub, chaparral, endemic to San Mateo county, slopes and ridges.	No	No	None
Most Beautiful (uncommon) Jewelflower <i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	Species of Concern	None	None	1B	Grasslands and upland scrub.	No	No	None
Northcoast (=Point Reyes) Bird's-beak <i>Cordylanthus maritimus</i> ssp. <i>palustris</i>	Species of Concern	None	None	1B	Coastal salt marsh, dunes.	No	No	None
Nuttall's Milk-vetch <i>Astragalus nuttallii</i> var. <i>virgatus</i>	Species of Local Concern	None	None	4	Coastal dunes and bluff scrub.	No	No	None
Oregon Meconella (=white fairypoppy) <i>Meconella oregano</i>	Species of Concern	None	None	1B	Coastal prairie and coastal scrub.	No	No	None
Pacific Cordgrass (=California cordgrass) <i>Spartina foliosa</i>	Species of Local Concern	None	None	None	Marsh and swamp. ⁴⁰	No	No	None

⁴⁰ City of Palo Alto, Stanford EIR.

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	Federal	State	CDFG ^b	CNPS ^c				
Pallid Manzanita (=Alameda or Oakland Hills manzanita) <i>Arctostaphylos pallida</i>	Threatened	Endangered	None	1B	Endemic to broadleaved upland forest, closed-cone coniferous forest, coastal scrub, grows on uplifted marine terraces, on siliceous shale or thin chert. ⁴¹	No	No	None
Pappose Tarplant <i>Centromadia parryi</i> ssp. <i>parryi</i>	None	None	None	1B	Coastal prairie, meadows and seeps, coastal marsh, valley, and foothill grasslands.	No	No	None
Pink Sand-verbena <i>Abronia umbellata</i> ssp. <i>umbellata</i>	Species of Local Concern	None	None	1B	Coastal dunes and sand.	No	No	None
Point Reyes Rein Orchid <i>Piperia elegans</i> ssp. <i>Decurtata</i>	None	None	None	1B	Coastal bluff scrub only from Point Reyes National Seashore. ⁴²	No	No	None
Presidio (=Raven's) Manzanita <i>Arctostaphylos hookeri</i> ssp. <i>ravenii</i>	Endangered	Endangered	None	1B	Coastal prairie, coastal scrub, open rocky serpentine slopes, 20-215 meters above sea level.	No	No	None
Presidio Clarkia <i>Clarkia franciscana</i>	Endangered	Endangered	None	1B	Coastal scrub, serpentinite valley and foothill grassland. ⁴³	No	No	None

⁴¹ City of El Cerrito, El Cerrito Plaza Mixed-Use Development Project Draft SEIR, 2004.

⁴² Marin County, *Biological and Wetland Protection Technical Background Report*, 2002, <http://www.co.marin.ca.us/depts/CD/main/pdf/planning/BioticresourcesBR.pdf>, Accessed April 7, 2005.

⁴³ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Purple Owl's-clover (=wideleaf Indian paintbrush) <i>Castilleja exsertta</i> ssp. <i>latifolia</i>	Species of Local Concern	None	None	None	Fields, deserts, and open, wooded areas. ⁴⁴	No	No	None
Robust Monardella (=robust coyote mint) <i>Monardella villosa</i> ssp. <i>globosa</i>	Species of Local Concern	None	None	1B	Chaparral.	No	No	None
Robust Spineflower <i>Chorizanthe robusta</i> var. <i>robusta</i>	Endangered	None	None	1B	Sandy terraces, bluffs, and loose sand of coastal dunes, coastal scrub and foothill woodlands.	No	No	None
Rose Leptosiphon <i>Leptosiphon rosaceus</i>	None	None	None	1B	Coastal bluff scrub. ⁴⁵	No	No	None
Rose Linanthus <i>Linthus rosaceus</i>	Species of Concern	None	None	1B	Coastal bluff scrub.	No	No	None
Round-headed Chinese Houses <i>Collinsia corymbosa</i>	Species of Concern	None	None	1B	Coastal dunes. ⁴⁶	No	No	None
Round-leaved Filaree <i>Erodium macrophyllum</i>	None	None	None	2	Cismontane woodland, valley and foothill grassland. ⁴⁷	No	No	None

⁴⁴ Marin County Open Space District, <http://enature.marinopenspace.org/openspace/mcosd/showSpeciesRECNUM.asp?recnum=WF1688>, Accessed April 7, 2005.

⁴⁵ CNDDDB (California Natural Diversity Database) 2005. Natural Diversity Data Base, Information dated January 18, 2005. Commercial Version 3.0.5. Published by the California Department of Fish and Game.

⁴⁶ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

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	Federal	State	CDFG ^b	CNPS ^c				
Salt Marsh Owl's Clover (=Johnny-nip) <i>Castilleja ambigua</i> ssp. <i>Palustris</i>	Species of Local Concern	None	None	None	Coastal salt marshes.	No	No	None
San Bruno Mountain Manzanita <i>Arctostaphylos</i> <i>imbricata</i>	Species of Concern	Endangered	None	1B	Coastal scrub, sandstone outcrops in chaparral.	No	No	None
San Francisco (=bluehead, Chamisso's, dune) gilia <i>Gilia capitata</i> ssp. <i>Chamissonis</i>	Species of Concern	None	None	1B	Coastal dunes, coastal scrub. ⁴⁸	No	No	None
San Francisco Bay Spineflower <i>Chorizanthe cospidata</i> var. <i>cospidata</i>	Species of Concern	None	None	1B	Found on sandy slopes and terraces of coastal scrub, dune, and prairie habitats.	No	No	None
San Francisco Collinsia <i>Collinsia multicolor</i>	None	None	None	1B	Closed-cone coniferous forest, coastal scrub.	No	No	None
San Francisco gumplant <i>Grindelia hirsutula</i> var. <i>eticula</i>	Species of Concern	None	None	1B	Found in coastal scrub, coastal bluff scrub, valley and foothill grasslands, sandy or serpentine slopes or sea bluffs.	No	No	None

⁴⁷ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

⁴⁸ CNDDDB. op. cit.

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	Federal	State	CDFG ^b	CNPS ^c				
San Francisco Lessingia <i>Lessingia germanorum</i>	Endangered	Endangered	None	1B	Coastal scrub, remnant dunes, open sandy soils relatively free from competing plants.	No	No	None
San Francisco Owl's-clover <i>Triphysaria floribunda</i>	Species of Concern	None	None	1B	Coastal prairie, valley and foothill grassland, on serpentine and non-serpentine substrate.	No	No	None
San Francisco Popcornflower <i>Plagiobothrys diffuses</i>	Species of Concern	Endangered	None	1B	Coastal prairie, valley and foothill grassland. ⁴⁹	No	No	None
San Francisco Wallflower <i>Erysimum franciscanum</i>	Species of Concern	None	None	4	Found in dune hills, ocean bluffs, and open grassy or brushy slopes near the coast. This species prefers rocky, gravelly or sandy soils, often of disintegrated serpentinite.	No	No	None
San Mateo Thornmint <i>Acanthomintha duttonii</i>	Endangered	Endangered	None	1B	Chaparral, valley and foothill grasslands, coastal scrub, extant populations only known from very uncommon serpentine vertisol clays; in relatively open areas.	No	No	None
San Mateo Tree Lupine <i>Lupinus arboreus</i> var. <i>eximius</i>	Species of Local Concern	None	None	3	Chaparral and coastal scrub communities.	No	No	None
San Mateo Woolly Sunflower <i>Eriophyllum latilobum</i>	Endangered	Endangered	None	1B	Often found on roadcuts through woodlands both on and off serpentine soils in San Mateo County.	No	No	None

⁴⁹ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area

Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Santa Cruz Manzanita <i>Arctostaphylos andersonii</i>	Species of Local Concern	None	None	1B	Broadleaved upland forest, chaparral, and north coast coniferous forest.	No	No	None
Santa Cruz Microseris <i>Stebbinsoseris decipiens</i>	Species of Concern	None	None	1B	Broadleaved upland forest, closed-coned coniferous forest, chaparral, coastal prairie, coastal scrub, valley and foothill grassland/open areas, sometimes on serpentine. ⁵⁰	No	No	None
Santa Cruz Tarplant <i>Holocarpha macradenia</i>	Threatened	Endangered	None	1B	Coastal prairie, coastal scrub, valley and foothill grassland/often clay and sandy. ⁵¹	No	No	None
Short-leaved Evax <i>Hesperervax sparsiflora</i> var. <i>brevifolia</i>	Species of Concern	None	None	2	Coastal bluffs, coastal dunes. ⁵²	No	No	None
Skunkbush <i>Navarretia squarrosa</i>	Species of Local Concern				Open wet gravelly flats, slopes. ⁵³	No	No	None
Slender-leaved Pondweed <i>Potamogeton filliformis</i>	None	None	None	2	Freshwater marsh. ⁵⁴	No	No	None

⁵⁰ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

⁵¹ San Francisco Public Utilities Commission, *CNDDDB Species Lists, CNPS Electronic Inventory, USFWS Species List for San Francisco County*, http://www.energy.ca.gov/sitingcases/sanfrancisco/documents/applicant/AFC_CD-ROM/Vol_II/Appendix_8.2A_B.pdf#search='CNDDDB%20Species%20Lists,%20CNPS%20Electronic', Accessed April 7, 2005.

⁵² Sonoma County, Canyon Rock Quarry Expansion Project Draft EIR, <http://www.sonoma-county.org/prmd/docs/eir/CanyonRockDEIR/AppG.pdf#search='habitat%20of%20navarretia%20squarrosa'>, Accessed April 7, 2005.

⁵³ California Department of Fish and Game, *California Vernal Pool Assessment Preliminary Report, Appendix C*, 1998. http://www.dfg.ca.gov/whdab/wetlands/vp_asses_rept/app_c_plnt.htm, Accessed April 7, 2005.

⁵⁴ City of Palo Alto, Stanford EIR.

Appendix B2: Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Tiburon Buckwheat <i>Eriogonum caninum</i>	Species of Local Concern	None	None	3	Chaparral, coastal prairie, valley and foothill grasslands, often in serpentine soils.	No	No	None
Water Sack (=saline) Clover <i>Trifolium depauperatum</i> var. <i>hydrophilum</i>	Species of Concern	None	None	1B	Marshes, swamps, valley/foothill grasslands, and vernal pools.	No	No	None
Wedgeleaf Horkelia <i>Horkelia cuneata</i> ssp. <i>cuneata</i>	Species of Local Concern	None	None	None	Open sandy fields and chaparral, old dunes, southern oak woodland, coastal sage scrub. ⁵⁵	No	No	None
Western Leatherwood <i>Dirca occidentalis</i>	Species of Local Concern	None	None	1B	Broadleaved upland forest, closed cone coniferous forest, chaparral, riparian scrub, and riparian woodland.	No	No	None
White-rayed Pentachaeta <i>Pentachaeta bellidiflora</i>	Endangered	Endangered	None	1B	Open dry rocky slopes and grassy areas often on soils derived from serpentine bedrock.	No	No	None
Yarrow-leaf (manyleaf, dark-eyed) gilia <i>Gilia millefoliata</i>	Species of Local Concern	None	None	1B	Coastal Dunes. ⁵⁶	No	No	None
Habitats								
Northern Coastal Marsh		S3.2		N/A		Habitat present in small areas.	Yes	Moderate
Northern Maritime Chaparral		S1.2		N/A		Not present in project area.		
Serpentine Bunchgrass		S2.2		N/A		Not present in project area.		

⁵⁵ <http://www.calflora.net/bloomingplants/wedgeleafhorkelia.html>, Accessed April 7, 2005.

⁵⁶ CNDDDB. op. cit.

Special-Status Species Potentially Occurring within the WTA Ferry Terminal Project Area								
Species Name	Status ^a				Habitat	Habitat Present	Observed	Potential Project Effect
	Federal	State	CDFG ^b	CNPS ^c				
Valley Needlegrass Grassland		S3.1		N/A		Not present in project area.		

^a Endangered and threatened are species statuses under the California or Federal Endangered Species Act. Federal Species of Concern and candidate species do not receive any statutory protection under the Federal ESA.

^b California Department of Fish and Game. Species designated as Species of Special Concern by CDFG are to be mitigated for under CEQA. A fully protected designation indicates that these species are fully protected under the Fish and Game Code and cannot be taken or possessed without a permit from the Fish and Game Commission or CDFG.

^c California Native Plant Society. Species on List 1A are believed to be extinct within California. Species on List 1B are rare or endangered in California and elsewhere in their range.

Element Rankings, California Department of Fish and Game, 1993:

S2.1—Very Threatened in California

S3.1—Very Threatened in California

S3.2—Threatened in California