

APPENDIX H

**SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY
OCCURRING IN THE PROJECT AREA**

**TABLE H-1
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
SAN FRANCISCO BAY AREA NETWORK AREA**

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
SPECIES LISTED OR PROPOSED FOR LISTING				
<i>Invertebrates</i>				
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	FT/--	Grassland vernal pools	Low Potential. No nearby sightings; no vernal pool habitat.	March-April
Bay checkerspot butterfly <i>Euphydryas editha bayensis</i>	FT/--	Serpentine bunchgrass grassland	Low Potential. Nearby sightings at San Bruno Mt.; no larval food plants or habitat identified.	March-May
Mission blue butterfly <i>Icaricia icarioides missionensis</i>	FE/--	Grassland with <i>Lupinus albifrons</i> , <i>L. formosa</i> , and <i>L. varicolor</i>	Low Potential. Nearby sightings at San Bruno Mt.; no larval food plants or habitat identified.	March-June
San Bruno elfin butterfly <i>Incisalia mossii bayensis</i>	FE/--	Found in coastal scrub	Low Potential. Nearby sightings at San Bruno Mt.; no larval food plants or habitat identified.	March-April
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	FE/--	Grassland vernal pools	Low Potential. No nearby sightings; no vernal pool habitat.	March-April
Callippe silverspot butterfly <i>Speyeria callippe callippe</i>	FE/--	Found in native grasslands with <i>Viola pedunculata</i> as larval food plant	Low Potential. Nearby sightings at San Bruno Mt.; no larval food plants or habitat identified.	Spring
Myrtle silverspot butterfly <i>Speyeria zerene myrteleae</i>	FE/--	Found in native grasslands with <i>Viola pedunculata</i> as larval food plant	Low Potential. No nearby sightings; no larval food plants identified.	Spring
<i>Fish</i>				
Tidewater goby <i>Eucyclogobius newberryi</i>	FT/CSC	Shallow waters of bays and estuaries	Low Potential. No streams in the project area support this species.	Year-round
Steelhead – Central California Coast (ESU) <i>Oncorhynchus mykiss</i>	FT/CSC	Unblocked Bay Area and coastal rivers and streams	Moderate Potential. Streams in the project area support this species.	Year-round

TABLE H-1 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
SAN FRANCISCO BAY AREA NETWORK AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
Winter-run Chinook salmon <i>Oncorhynchus tshawytscha</i>	FE/CE	Unblocked Bay Area and coastal rivers and streams	Moderate Potential. Streams in the project area support this species.	Winter

TABLE H-1 (Continued)
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SPECIES LISTED OR PROPOSED FOR LISTING				
Amphibians				
California red-legged frog <i>Rana aurora draytonii</i>	FT/CSC	Breed in stock ponds, pools, and slow-moving streams with emergent vegetation for escape cover and egg attachment	Moderate Potential. Several streams in the project area provide suitable habitat and will be avoided by boring. See Table 5.4-2 for detail.	Year-round
California tiger salamander <i>Ambystoma californiense</i>	FC/CSC	Seasonal freshwater ponds with little or no emergent vegetation	Moderate Potential. At least two streams in the project area provide suitable habitat and will be avoided by boring. See Table 5.4-2 for detail.	November-May
Reptiles				
San Francisco garter snake <i>Thamnophis sirtalis tetrataenia</i>	FE/CE	Freshwater ponds and slow streams with emergent vegetation; nearby upland grasslands with small rodent burrows may also provide habitat for this species (USFWS, 1985). Little is known about the seasonal movements of this species or their capacity for using upland areas.	Moderate Potential. This species occurs in a large freshwater marsh in Burlingame; all habitat will be avoided by feeding cable through an existing duct system.	Year-round
Birds				
Marbled murrelet <i>Brachyramphus marmoratus</i>	FT/CE	Nests in dense, old growth forests along coast	Low Potential. Suitable habitat does not occur in the project sites.	Year-round
Aleutian Canada goose <i>Branta canadensis leucopareia</i>	FT/--	Winters in marshes, meadows, and on small islands	Low Potential. The project sites does not provide habitat for this species.	Winter
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	FT/CSC	Nests and forages on sandy beaches on marine and estuarine shores - requires sandy, gravely, or friable soils for nesting	Low Potential. The project sites does not provide habitat for this species.	Year-round
American peregrine falcon <i>Falco peregrinus anatum</i>	--/CE	Forages in marshes and grasslands. Nesting habitat includes high, protected cliffs and ledges near water	Low Potential. Suitable habitat does not occur in the project area.	Year-round

**TABLE H-1 (Continued)
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SPECIES LISTED OR PROPOSED FOR LISTING				
<i>Birds (cont.)</i>				
Bald eagle ¹ <i>Haliaeetus leucocephalus</i>	FT/CE	Nests and forages on inland lakes, reservoirs, and rivers; winter foraging at lakes and along major rivers	Low Potential. Suitable habitat does not occur in the project area.	Winter
California black rail <i>Laterallus jamaicensis coturniculus</i>	FSC/CT/3511	Nests and forages in tidal emergent wetland with pickleweed and cordgrass	Low Potential. Suitable habitat does not occur in the project area.	Year-round
California clapper rail <i>Rallus longirostris obsoletus</i>	FE/CE	Nests and forages in emergent wetlands with pickleweed, cordgrass, and bulrush	Low Potential. Suitable habitat does not occur in the project area.	Year-round
California least tern <i>Sterna antillarum browni</i>	FE/CE	Colonial breeder on bare or sparsely vegetated flat substrates including sand beaches, alkali flats, land fills, or paved areas	Low Potential. Suitable habitat does not occur in the project area.	Spring-Summer
Northern spotted owl <i>Strix occidentalis caurina</i>	FT/--	Nests in old growth forests	Low Potential. Suitable habitat does not occur in the project area.	Year-round
<i>Mammals</i>				
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	FE/CE	Saline emergent marsh with dense pickleweed	Moderate Potential. Known to occur in marshlands adjacent to Newbuild Segments 26 and 27. See Table 5.D.2 for more detail.	Year-round
<i>Plants</i>				
San Bruno Mtn. Manzanita <i>Arctostaphylos imbricata</i>	FSC/CE/List 1B	Chaparral, coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	February- May
Pacific manzanita <i>Arctostaphylos pacifica</i>	FSC/CE/--	Chaparral, coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	February- May

¹ The bald eagle was proposed for delisting by the U.S. Fish and Wildlife Service on July 6, 1999.

TABLE H-1 (Continued)
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SPECIES LISTED OR PROPOSED FOR LISTING				
<i>Plants (cont.)</i>				
Robust spineflower <i>Chorizanthe robusta</i>	FE/--/List 1B	Coastal scrub, coastal sand dunes, openings in oak woodlands with sandy or gravelly soil	Low Potential. The project area does not provide habitat for this species.	April-September
Fountain thistle <i>Cirsium fontinale var fontinale</i>	FE/CE/List 1B	Grassland and openings in chaparral, in serpentinite seeps	Low Potential. Serpentinite soils do not occur in the project area.	June-October
Presidio clarkia <i>Clarkia franciscana</i>	FE/CE/List 1B	Coastal scrub, grassland (ultramafic)	Low Potential. Suitable habitat does not occur in the project area.	May-July
Santa Clara Valley dudleya <i>Dudleya setchellii</i>	FE/--/List 1B	Ultramafic grasslands	Low Potential. Suitable habitat does not occur in the project area.	May-June
San Mateo woolly sunflower <i>Eriophyllum latilobum</i>	FE/CE/List 1B	Grassland, woodland slopes	Low Potential. The project area does not provide habitat for this species.	May-June
Marin dwarf flax <i>Hesperolinon congestum</i>	FT/CT/List 1B	Grassland and openings in chaparral, often on serpentinite	Low Potential. Serpentinite soils do not occur in the project area.	May-July
Santa Cruz tarplant <i>Holocarpha macradenia</i>	FPT/CE/List 1B	Coastal scrub, coastal sand dunes, openings in oak woodlands with sandy or gravelly soil	Low Potential. The project area does not provide habitat for this species.	June-October
Contra Costa goldfields <i>Lasthenia conjugens</i>	FE/--/List 1B	Moist grasslands, vernal pools	Low Potential. The project area does not provide habitat for this species.	March-June
White rayed pentachaeta <i>Pentachaeta bellidiflora</i>	FE/CE/List 1B	Coastal scrub, grassland	Low Potential. The project area does not provide habitat for this species.	March-May

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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
<i>Invertebrates</i>				
Opler's longhorn moth <i>Adella oplerella</i>	FSC/--	Serpentine grasslands	Low Potential. Suitable habitat not present on the project sites.	Spring
Serpentine phalangid <i>Calcina serpentina</i>	FSC/--	Serpentine rocks and barrens	Low Potential. Suitable habitat not present on the project sites.	Fall-Winter
Monarch butterfly <i>Danaus plexippus</i>	--/*	Eucalyptus groves (winter sites)	Low Potential. Wintering sites not used in project area..	Winter
Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	FSC/--	Found in freshwater ponds, shallow water of streams marshes and lakes	Low Potential. Suitable habitat not present on the project sites.	January-July
Leech's skyline diving beetle <i>Hydroporus leechi</i>	FSC/--	Found in freshwater ponds, shallow water of streams marshes and lakes	Low Potential. Suitable habitat not present on the project sites.	January-July
Curved-foot hygrotus diving beetle <i>Hygrotus curvipes</i>	FSC/--	Found in vernal pools and alkali flats	Low Potential. Suitable habitat not present on the project sites.	January-July
Opler's longhorn moth <i>Adella oplerella</i>	FSC/--	Serpentine bunchgrass grassland	Low Potential. Suitable habitat not present on the project sites.	Spring
Edgewood blind harvestman <i>Calcinia minor</i>	FSC/--	Serpentine rock outcrops and barrens	Low Potential. Suitable habitat not present on the project sites.	Fall-Winter
San Francisco forked-tailed damselfly <i>Ischnura gemina</i>	FSC/--	Wetlands with emergent vegetation	Low Potential. Suitable habitat not present on the project sites.	April-October
San Francisco lacewing <i>Nothochrysa californica</i>	FSC/--	Grasslands	Low Potential. Suitable habitat not present on the project sites.	Spring
Unsilvered fritillary butterfly <i>Speyeria adiastrae adiastrae</i>	FSC/--	Found in native grasslands with <i>Viola pedunculata</i> as larval food plant	Low Potential. No nearby sightings; no larval food plants required by this species.	Spring

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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Fish				
Sacramento Perch <i>Archoplites interruptus</i>	FSC/CSC	Slow moving sloughs, streams, rivers, and lakes	Moderate Potential. Species occurs in Alameda creek.	Year-round
River lamprey <i>Lampetra ayresi</i>	FSC/CSC	Pacific Ocean and estuaries; spawning in coastal streams from Alaska to San Francisco Bay	Low Potential. In California, this species has only been recorded from the lower reaches of the Russian, Sacramento, and San Joaquin rivers.	April-July
Pacific lamprey <i>Lampetra tridentata</i>	FSC/--	Pacific Ocean and estuaries; spawning in coastal streams from Alaska to Baja California	Moderate-high Potential. Several streams in the project area support this species. See Table 5.4-2 for detail.	April-July
Amphibians				
Foothill yellow-legged frog <i>Rana boylei</i>	FSC/CSC	Streams with quiet pools absent of predatory fish	Low Potential. Suitable habitat not present on the project sites or project area streams.	April-June
Western spadefoot toad <i>Scaphiopus hammondi</i>	FSC/CSC	Floodplains and grassland pools	Low Potential. Suitable habitat not present; out of species range.	February-August
Reptiles				
Western pond turtle <i>Clemmys marmorata</i>	FSC/CSC	Freshwater ponds and slow streams edged with sandy soils for laying eggs	Low Potential. Suitable habitat not present in lower reaches of project area streams; though may be present in upstream reaches.	Year-round
San Joaquin coachwhip <i>Masticophis flagellum ruddocki</i>	FSC/CSC	Prairie, scrublands, woodlands, farmlands or grasslands with varying amounts of cover	Low Potential. Suitable habitat not present on the project sites; range may include east San Francisco Bay	Year-round
California horned lizard <i>Phrynosoma coronatum frontale</i>	FSC/CSC	Patchy open areas with sandy soils	Low Potential. Suitable habitat not present	Year-round

TABLE H-1 (Continued)
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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Birds				
Cooper's hawk <i>Accipiter cooperi</i>	--/CSC	Nests in riparian growths of deciduous trees and live oak woodlands	Moderate Potential. Habitat identified in dense riparian habitats. See Table 5.4-2 for detail.	March-July
Sharp-shinned hawk <i>Accipiter striatus</i>	--/CSC	Nests in riparian growths of deciduous trees and live oaks	Moderate Potential. Habitat identified in dense riparian habitats. See Table 5.4-2 for detail.	March-July
Tricolored blackbird <i>Agelaius tricolor</i>	FSC/CSC	Riparian thickets and emergent vegetation	Moderate Potential. Habitat identified at Stiver's Lagoon, Fremont and Brisbane Lagoon.	Spring
Great blue heron <i>Ardea herodias</i>	--/*	Nests in trees along lakes and estuaries	Low Potential. Nesting habitat may occur at MP 29; nesting colonies have not been reported previously.	December-July
Northern harrier <i>Circus cyaneus</i>	--/CSC	Mostly nests in emergent vegetation, wet meadows or near rivers and lakes, but may nest in grasslands away from water.	Moderate Potential. Nesting habitat may occur in project area grasslands.	Year-round
White-tailed kite <i>Elanus leucurus</i>	--/3511	Nests near wet meadows and open grasslands dense oak, willow or other large tree stands.	Moderate Potential. Nesting habitat identified in Burlingame. See Table 5.4-2 for detail.	March-July
Saltmarsh common yellowthroat <i>Geothlypis trichas sinuosa</i>	FSC/CSC	Saline and freshwater marshes	Low Potential. Habitat for this species not identified in the project area.	Year-round
Loggerhead shrike <i>Lanius ludovicianus</i>	FSC/CSC	Nests in shrublands and forages in open grasslands	Moderate Potential. Suitable habitat occurs near the project area	March-Sept.
Osprey <i>Pandion haliaetus</i>	--/CSC	Nests near fresh water lakes and large streams on large snags	Low Potential. Suitable habitat not present.	March-June
American white pelican <i>Pelecanus erythrorhynchos</i>	--/CSC	Nests on protected islets near freshwater lakes for protection from predators	Low Potential. Suitable habitat not present.	May-July

TABLE H-1 (Continued)
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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Birds				
Burrowing owl <i>Speotyto (=Athene) cucularia</i> (burrow sites)	FSC/CSC	Nests in mammal burrows in open, sloping grasslands	High Potential. Suitable habitat identified in at least two areas; see Table 5.4-2 for detail.	February-June
California spotted owl <i>Strix occidentalis occidentalis</i>	FSC/CSC	Nests in old growth forests	Low Potential. Suitable habitat not present.	March-Sept.
Mammals				
Salt marsh wandering shrew <i>Sorex vagrans halicoetes</i>	FSC/CSC	Salt-marshes	Low Potential. Suitable habitat identified at Newbuild Sections 26 and 27; see Table 5.4-2 for detail.	Year-round
Plants				
Santa Clara thorn mint <i>Acanthomintha lanceolata</i>	--/--/List 4	Chaparral, shale scree	Low Potential. Suitable habitat does not occur in the project area.	March-June
Montara manzanita <i>Arctostaphylos montaraensis</i>	FC/--/List 1B	Maritime chaparral, coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	January-March
Alkali milk-vetch <i>Astragalus tener var tener</i>	--/--/List 1B	Alkali flats, valley grasslands	Low Potential. Suitable habitat does not occur in the project area.	March-June
Big-scale balsamroot <i>Balsamorhiza macrolepis var macrolepis</i>	--/--/List 1B	Cismontane woodland, grassland	Low Potential. Suitable habitat does not occur in the project area.	March-June
Brewer's calandrinia <i>Calandrinia breweri</i>	--/--/List 4	Burns and disturbed areas in coastal scrub and chaparral	Low Potential. Suitable habitat does not occur in the project area.	March-June

TABLE H-1 (Continued)
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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Oakland star-tulip <i>Calochortus umbellatus</i>	--/--/List 4	Broadleafed upland forests, chaparral, lower montane coniferous forests, grasslands, often on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	March-May
Sharsmith's harebell <i>Campanula sharsmithiae</i>	FSC/--/List 1B	Chaparral, ultramafic talus	Low Potential. The project area does not provide habitat for this species.	May-June
San Francisco Bay spineflower <i>Chorizanthe cuspidata var cuspidata</i>	FSC/--/List 1B	Coastal bluff scrub, coastal dunes, coastal prairie, on sandy soils	Low Potential. Suitable habitat does not occur in the project area.	April-July
Franciscan thistle <i>Cirsium andrewsii</i>	--/--/List 4	Broadleafed upland forests, coastal bluff scrub, sometimes on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	June-July
Mt. Hamilton thistle <i>Cirsium fontinale var campylon</i>	FSC/--/List 1B	Ultramafic seeps, sandy streams	Low Potential. Suitable habitat does not occur in the project area.	February-October
Palo alto thistle <i>Cirsium praeteriens</i>	--/--/List 1B	Ultramafic seeps, sandy streams	Low Potential. Suitable habitat does not occur in the project area.	February-October
San Francisco collinsia <i>Collinsia multicolor</i>	--/--/List 4	Closed-cone coniferous forests, coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	March-May
Serpentine collomia <i>Collomia diversifolia</i>	--/--/List 4	Serpentine seeps, streams	Low Potential. Suitable habitat does not occur in the project area.	May-June
Mt. Hamilton coreopsis <i>Coreopsis hamiltonii</i>	FSC/--/List 1B	Steep, shale talus, woodland	Low Potential. Suitable habitat does not occur in the project area.	March-May
Clustered lady's-slipper <i>Cypripedium fasciculatum</i>	FSC/--/List 4	Lower montane coniferous forests, North coast coniferous forests, usually serpentinite seeps and streambanks	Low Potential. Suitable habitat does not occur in the project area.	March-July

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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Mountain lady's-slipper <i>Cypripedium montanum</i>	FCS/--/List 4	Broadleaved upland forests, lower montane coniferous forests	Low Potential. Suitable habitat does not occur in the project area.	March-July
Inner Co. range Larkspur <i>Delphinium californicum</i> ssp. <i>interius</i>	FSC/--/List 1B	Dry ravines	Low Potential. Suitable habitat does not occur in the project area.	April-June
Western leatherwood <i>Dirca occidentalis</i>	--/--/List 1B	Broadleaved upland forests, closed-cone coniferous forests, chaparral, cismontane woodland, North coast coniferous forests, riparian forests, riparian woodland; mesic sites	Low Potential. Suitable habitat does not occur in the project area.	January-April
Jepson's woolly sunflower <i>Eriophyllum jepsonii</i>	--/--/List 4	Coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	April-June
Ben Lomond buckwheat <i>Eriogonum nudum</i> var <i>decurrens</i>	--/--/List 1B	Chaparral, coastal prairie, grasslands, usually on serpentine	Low Potential. Suitable habitat does not occur in the project area.	June-September
Marsh horsetail <i>Equisetum palustre</i>	--/--/List 3	Marshes	Low Potential. Suitable habitat does not occur in the project area.	--
Hoover's button-celery <i>Eryngium aristulatum</i> var <i>hooveri</i>	FSC/--/List 1B	Vernal pools	Low Potential. Suitable habitat does not occur in the project area.	May-August
San Francisco wallflower <i>Erysimum franciscanum</i>	FSC/--/List 4	Coastal dunes, coastal scrub, grasslands, often on serpentinite or granitic soils	Low Potential. Suitable habitat does not occur in the project area.	March-June
Stink bells <i>Fritillaria agrestis</i>	--/--/List 4	Valley and foothill grasslands, oak woodlands; on clay flats; sometimes on serpentine	Low Potential. Suitable habitat does not occur in the project area.	March-April
Hillsborough chocolate lily <i>Fritillaria biflora</i> var <i>ineziana</i>	--/--/List 1B	Cismontane woodland, grassland, on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	March-April

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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Fragrant fritillary <i>Fritillaria liliacea</i>	FSC/--/List 1B	Coastal scrub, valley and foothill grassland, coastal prairie; on heavy clay soils, often on ultramafic soils	Low Potential. Suitable habitat does not occur in the project area.	February- April
San Francisco gumplant <i>Grindelia hirsutula var maritima</i>	FSC/--/List 1B	Coastal bluff scrub, coastal scrub, grasslands, on sandy or serpentinite soils	Low Potential. Suitable habitat does not occur in the project area.	August- September
Marsh gumplant <i>Grindelia stricta var angustifolia</i>	--/--/4	Coastal salt marsh	High Potential. This common species occurs adjacent to Newbuild Sections 26 but will not be disturbed.	August- October
Diablo rock-rose <i>Helianthella castanea</i>	FSC/--/List 1B	Openings in chaparral and broadleaved upland forest	Low Potential. Suitable habitat does not occur in the project area.	April-June
Congdon's tarplant <i>Hemizonia parryi ssp congonii</i>	FSC/CSC/List 1B	Valley grassland	Low Potential. Suitable habitat does not occur in the project area.	June-October
Kellogg's horkelia <i>Horkelia cuneata ssp. sericea</i>	FSC/--/List 1B	Closed-cone coniferous forests, coastal scrub	Low Potential. Suitable habitat does not occur in the project area.	April- September
Crystal Springs lessingia <i>Lessingia arachnoidea</i>	FSC/--/List 1B	Cismontane woodland, coastal scrub, grasslands, on serpentinite, often on roadcuts	Low Potential. Suitable habitat does not occur in the project area.	July-October
Woolly-headed lessingia <i>Lessingia hololeuca</i>	--/--/List 3	Coastal scrub, lower montane coniferous forests, grasslands, usually on clay or serpentinite	Low Potential. Suitable habitat does not occur in the project area.	June-October
Bristly linanthus <i>Linanthus acicularis</i>	--/--/List 4	Chaparral, Cismontane woodland, coastal prairie	Low Potential. Suitable habitat does not occur in the project area.	April-July
Serpentine linanthus <i>Linanthus ambiguus</i>	--/--/List 4	Cismontane woodland, coastal scrub, grassland, usually on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	March-June

TABLE H-1 (Continued)
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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
<i>Plants (cont.)</i>				
Large-flower linanthus <i>Linanthus grandiflorus</i>	--/--List 4	Coastal bluff scrub, closed-cone coniferous forests, cismontane woodland, coastal dunes, coastal prairie, coastal scrub, grasslands	Low Potential. Suitable habitat does not occur in the project area.	April-July
San Mateo tree lupine <i>Lupinus eximius</i>	FSC/--/List 3	Chaparral and coastal	Low Potential. Suitable habitat does not occur in the project area.	April-July
Arcuate bush mallow <i>Malacothamnus arcuatus</i>	--/--List 4	Chaparral	Low Potential. Suitable habitat does not occur in the project area.	April-July
Hall's bush mallow <i>Malacothamnus hallii</i>	--/--/List 4	Chaparral	Low Potential. Suitable habitat does not occur in the project area.	May-September
Robust monardella <i>Monardella villosa</i> ssp. <i>globosa</i>	--/--/List 1B	Cismontane woodland, openings in chaparral	Low Potential. Suitable habitat does not occur in the project area.	June-July
Gairdner's yampah <i>Perideridia gairdneri</i> ssp. <i>gairdneri</i>	FSC/--/List 4	Broadleafed upland forests, chaparral, valley and foothill grasslands, vernal pools, usually in mesic sites	Low Potential. Suitable habitat does not occur in the project area.	June-October
Mt. Diablo phacelia <i>Phacelia phacelioides</i>	FSC/--/List 1B	Cismontane woodland, chaparral	Low Potential. Suitable habitat does not occur in the project area.	April-May
White-flowered rein orchid <i>Piperia candida</i>	--/--/List 4	Lower montane coniferous forests, North Coast coniferous forests, sometimes on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	May-August
Michael's rein orchid <i>Piperia michaelii</i>	--/--/List 4	Coastal bluff scrub, closed-cone coniferous forests, cismontane woodland, lower montane coniferous forests	Low Potential. Suitable habitat does not occur in the project area.	May-August
Choris's popcorn-flower <i>Plagiobothrys chorisianus</i> var <i>chorisianus</i>	--/--/List 3	Chaparral, coastal prairie, coastal scrub, on mesic sites	Low Potential. Suitable habitat does not occur in the project area.	April-June

TABLE H-1 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
SAN FRANCISCO BAY AREA NETWORK AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Hairless popcorn-flower <i>Plagiobothrys glaber</i>	--/--/List 1A	Coastal salt-marsh, alkali flats	Low Potential. Suitable habitat does not occur in the project area.	April-May
Forget-me-not popcorn flower <i>Plagiobothrys mysotoides</i>	--/--/List 4	Chaparral	Low Potential. Suitable habitat does not occur in the project area.	April-May
Lobb's aquatic buttercup <i>Ranunculus lobbii</i>	--/--/List 4	Ponds, pools, watering holes	Low Potential. Suitable habitat does not occur in the project area.	February-April
Rock sanicle <i>Sanicula saxatilis</i>	FSC/CR/List 1B	Broad-leaved upland forest, chaparral, valley and foothill grassland	Low Potential. Suitable habitat does not occur in the project area.	April-May
Hoffman's sanicle <i>Sanicula hoffmannii</i>	/--/List 4	Broadleafed upland forests, chaparral, coastal scrub, often on serpentinite or clay	Low Potential. Suitable habitat does not occur in the project area.	March-May
Marin checkerbloom <i>Sidalcea hickmanii</i> ssp. <i>viridis</i>	FSC/--/List 1B	Chaparral, usually on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	May-June
Maple-leaved checkerbloom <i>Sidalcea malachroides</i>	--/--/List 1B	Grasslands	Low Potential. Suitable habitat does not occur in the project area.	April-June
San Francisco campion <i>Silene verecunda</i> ssp. <i>verecunda</i>	FSC/--/List 1B	Coastal bluff scrub, chaparral, coastal prairie, coastal scrub, grasslands with sandy soil	Low Potential. Suitable habitat does not occur in the project area.	March-June
Most beautiful jewelflower <i>Streptanthus albidus</i> ssp. <i>peramoenus</i>	FSC/--/List 1B	Serpentine grassland, chaparral	Low Potential. Suitable habitat does not occur in the project area.	April-June
Mt. Hamilton jewelflower <i>Streptanthus callistus</i>	FSC/--/List 1B	Shale talus	Low Potential. Suitable habitat does not occur in the project area.	April-May

**TABLE H-1 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
SAN FRANCISCO BAY AREA NETWORK AREA**

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Mt. Diablo jewelflower <i>Streptanthus hispidus</i>	FSC/--/List 1B	Grassland	Low Potential. Suitable habitat does not occur in the project area.	March-June
Mt. Diablo cottonweed <i>Stylocline amphibola</i>	--/--/List 4	Broad-leaved upland forest, chaparral	Low Potential. Suitable habitat does not occur in the project area.	April-May
Showy Indian clover <i>Trifolium amoenum</i>	FSC/--/List 1A	Grasslands	Low Potential. Suitable habitat does not occur in the project area.	April-June
San Francisco owl's-clover <i>Triphysaria floribunda</i>	FSC/--/List 1B	Coastal prairie and grasslands, on serpentinite	Low Potential. Suitable habitat does not occur in the project area.	April-May
Caper-fruited tropidocarpum <i>Tropidocarpum capparideum</i>	FSC/--/List 1A	Alkaline hills, grasslands	Low Potential. Suitable habitat does not occur in the project area.	March-April

STATUS CODES:

Federal Categories (U.S. Fish and Wildlife Service)

FE = Listed as Endangered by the Federal Government
 FT = Listed as Threatened by the Federal Government
 FPE = Proposed for Listing as Endangered
 FPT = Proposed for Listing as Threatened
 FC = Candidate for Federal Listing
 FSC = Federal Species of Concern
 BPA = Federal Bald Eagle Protection Act

California Native Plant Society (CNPS)

List 1A = Plants presumed extinct in California
 List 1B = Plants rare, threatened, or endangered in California and elsewhere
 List 2 = Plants rare, threatened, or endangered in CA
 List 3 = Plants about which more information is needed
 List 4 = Plants of limited distribution

State Categories (California Department of Fish and Game)

CE = Listed as Endangered by the State of California
 CT = Listed as Threatened by the State of California
 CR = Listed as Rare by the State of California

3511 = A Fully Protected Species
 * = Special Animals
 CSC = California Species of Special Concern

High Potential = Species expected to occur and meets all habitats as defined in list
 Moderate Potential = Habitat only marginally suitable or suitable but not within species geographic range
 Low Potential = Habitat does not meet species requirements as currently understood in the scientific community

**TABLE H-2
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES AREA NETWORK AREA**

Common name Scientific name	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Period of Identification / Flowering Period
SPECIES LISTED OR PROPOSED FOR LISTING ²			
Invertebrates			
San Diego fairy shrimp <i>Branchinecta sandiegonensis</i>	FE/--	Endemic to San Diego County mesas	February-March
El Segundo blue butterfly <i>Euphilotes battoides allyni</i>	FE/--	Restricted to remnant coastal dune habitat	Spring
Riverside fairy shrimp <i>Streptocephalus woottoni</i>	FE/--	Endemic to W. Riverside and San Diego Counties in swales and basins of grassland and coastal sage scrub	February-March
Fish			
Santa Ana sucker <i>Catostomus santaanae</i>	FPT/CSC	Los Angeles Basin coastal streams	Year-round
Tidewater goby <i>Eucyclogobius newberryi</i>	FE/CSC	Brackish water along California coast	Year-round
Southern steelhead trout <i>Oncorhynchus mykiss irideus</i>	FE/CSC	Freshwater streams	Year-round
Amphibians			
Arroyo toad <i>Bufo microscaphus californicus</i>	FE/CSC	Semi-arid, near washes or intermittent streams, including valley-foothill and desert riparian	March-July
Birds			
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	FT/CSC	Sandy beaches, estuarine shores, salt pond levees and alkali lakes	Year-round
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	--/CE	Riparian forests along flood bottoms of large river systems	Spring-Summer
California black rail <i>Laterallus jamaicensis coturniculus</i>	FSC/CT	Salt-marshes bordering large bays	Year-round

² None of the species identified in the Los Angeles Area Network project area had a moderate or greater potential to occur; thus no “Potential to Occur” determination was provided for this region. Based upon the urbanized setting in the project corridor, the likelihood of special status species occurrence in the Los Angeles Area Network project area is considered remote.

**TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA**

Common name Scientific name	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
SPECIES LISTED OR PROPOSED FOR LISTING				
Birds (cont.)				
Belding's savannah sparrow <i>Passericulus sandwichensis beldingi</i>	FSC/CE	Coastal salt-marshes		Year-round
Coastal California gnatcatcher <i>Polioptila californica californica</i>	FT/CSC	Coastal sage scrub		Year-round
Light-footed clapper rail <i>Rallus longirostris levipes</i>	FE/CE	Salt-marshes with cordgrass and pickleweed		Year-round
California least tern <i>Sterna antillarum browni</i>	FE/CE	Coastal beaches and sandbars		Spring-Summer
Least Bell's vireo <i>Vireo bellii pusillus</i>	FE/CE	Low riparian vegetation near river bottoms		Summer
Mammals				
Pacific pocket mouse <i>Perognathus longimembris pacificus</i>	FE/CSC	Narrow coastal plains		Year-round
Plants				
Braunton's milk-vetch <i>Astragalus brauntonii</i>	FE/--/List 1B	Closed-cone conifer forest, chaparral, coastal scrub, and valley foothill grasslands		February-June
Ventura marsh milk-vetch <i>Astragalus pycnostachyus var lanosissimus</i>	FPE/CC	Coastal salt-marsh		June-October
Nevin's barberry <i>Berberis nevinii</i>	FE/CE	Chaparral, cismontane woodland, coastal scrub, riparian scrub		March-April
Thread-leaved brodiaea <i>Brodiaea filifolia</i>	FT/CE	Cismontane woodland, coastal scrub, playas, valley and foothill grasslands, vernal pools		May-June
Salt marsh bird's-beak <i>Cordylanthus maritimus ssp maritimus</i>	FE/CE	Coastal salt-marsh, coastal dunes		May-October
Beach spectaclepod <i>Dithyrea maritima</i>	FSC/CT	Coastal dunes, coastal scrub		March-May
Slender-horned spineflower <i>Dodecahema leptoceras</i>	FE/CE	Chaparral, coastal scrub		March-May

**TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA**

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
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SPECIES LISTED OR PROPOSED FOR LISTING

<i>Plants (cont.)</i>				
Santa Monica mountains dudleya <i>Dudleya cymosa ssp ovatifolia</i>	FT/--/List 1B	Chaparral, coastal scrub		March-May
Laguna Beach dudleya <i>Dudleya stolonifera</i>	FT/CT	Chaparral, coastal scrub, cismontane woodland, valley and foothill grassland		May-July
Santa Ana River woolstar <i>Eriastrum densifolium ssp sanctorum</i>	FE/CE	Coastal sage scrub, chaparral		June-August
California Orcutt grass <i>Orcuttia californica</i>	FE/CE	Vernal pools		May-June
Crownbeard <i>Verbesina dissita</i>	FT/CT	Coastal chaparral, coastal sage scrub		May

FEDERAL OR STATE SPECIES OF SPECIAL CONCERN

<i>Invertebrates</i>				
Sandy beach tiger beetle <i>Cicindela hirticollis gravida</i>	FSC/--	Areas adjacent to non-brackish water along the coast		January-July
Globose dune beetle <i>Coelus globosus</i>	FSC/--	Coastal sand dunes		January-July
Henne's Eucosma moth <i>Eucosma hennei</i>	FSC/--	El Segundo dunes		Spring
Santa Monica shieldback katydid <i>Neduba longipennis</i>	FSC/--	Chaparral, canyon stream bottoms		Spring
Lange's El Segundo dune weevil <i>Onychobaris langei</i>	FSC/--	El Segundo dunes		Spring
Wandering skipper <i>Panoquina errans</i>	FSC/--	Coastal salt-marsh		February-October
Dorothy's El Segundo dune weevil <i>Trigonoscuta dorothea dorothea</i>	FSC/--	El Segundo dunes, coastal sand dunes		Spring
Mimic tryonia <i>Tryonia imitator</i>	FSC/--	Coastal lagoons, estuaries and salt- marshes		Year-round

TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Fish				
Santa Ana speckled dace <i>Rhinichthys osculus</i> ssp 3	--/CSC	Headwaters of the Santa Ana and San Gabriel rivers		Year-round
Amphibians				
Western spadefoot toad <i>Scaphiopus hammondi</i>	FSC/CSC	Floodplains and grassland pools		February-August
Reptiles				
Southwestern pond turtle <i>Clemmys marmorata pallida</i>	FSC/CSC	Permanent freshwater ponds and slow streams edged with sandy soils for laying eggs		Year-round
Orange-throated whiptail <i>Cnemidophorus hyperythrus beldingi</i>	FSC/CSC	Coastal scrub, chaparral, and valley-foothill hardwood habitats		Year-round
Northern red-diamond rattlesnake <i>Crotalus ruber ruber</i>	FSC/CSC	Chaparral, woodland, grassland and desert areas		Spring
San Diego mountain kingsnake <i>Lampropeltis zonata pulchra</i>	FSC/CSC	Restricted to the San Gabriel and San Jacinto Mountains		Year-round
San Diego horned lizard <i>Phrynosoma coronatum blainvillei</i>	FSC/CSC	Coastal sage scrub, arid chaparral		Year-round
Birds				
Cooper's hawk <i>Accipiter cooperi</i>	--/CSC	Nests in riparian growths of deciduous trees and live oaks		March-July
Tricolored blackbird <i>Agelaius tricolor</i>	FSC/CSC	Riparian thickets and emergent vegetation		Spring
Great blue heron <i>Ardea herodias</i>	--/*	Nests in trees along lakes and estuaries		December-July
Burrowing owl <i>Speotyto (=Athene) cucularia</i> (burrow sites)	FSC/CSC	Nests in mammal burrows in open, sloping grasslands		February-June
Coastal cactus wren <i>Campylorhynchus brunneicapillus couesi</i>	--/CSC	Coastal sage scrub		Year-round
Black Swift <i>Cypseloides niger</i> (nesting)	--/CSC	Coastal and mountain cliffs		March-September

TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Birds (cont.)				
Yellow-breasted chat <i>Icteria virens (nesting)</i>	--/CSC	Riparian corridors with willows or other dense foliage		March-September
Plants				
Aphanisma <i>Aphanisma blitoides</i>	FSC/--/List 1B	Coastal bluff scrub, coastal dunes		April-May
South Coast saltscale <i>Atriplex pacifica</i>	FSC/--/List 1B	Coastal bluff scrub, coastal dunes, playas, chenopod scrub		March-October
Parish's brittle scale <i>Atriplex parishii</i>	FSC/--/List 1B	Alkali meadows, vernal pools, chenopod scrub, playas		June-October
Davidson's saltscale <i>Atriplex serenana var davidsonii</i>	--/--/List 1B	Coastal bluff scrub, coastal scrub		April-September
Plummer's Mariposa lily <i>Calochortus plummerae</i>	FSC/--/List 1B	Coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, lower coniferous forest		May-July
Intermediate Mariposa lily <i>Calochortus weedii var intermedius</i>	FSC/--/List 1B	Coastal scrub, chaparral, valley and foothill grassland		June-July
Santa Barbara morning-glory <i>Calystegia sepium ssp binghamiae</i>	--/--/List 1B	Coastal marshes		June-August
San Fernando Valley spineflower <i>Chorizanthe parryi var fernandina</i>	FSC/--/List 1A	Coastal scrub		April-June
Parry's spineflower <i>Chorizanthe parryi var parryi</i>	FSC/--/List 3	Coastal scrub, chaparral		April-June
Many-stemmed Dudleya <i>Dudleya multicaulis</i>	FSC/--/List 1B	Chaparral, coastal scrub, valley and foothill grassland		May-June
Cliff spurge <i>Euphorbia misera</i>	--/--/List 2	Coastal bluff scrub		January-August
San Gabriel bedstraw <i>Galium grande</i>	FSC/--/List 1B	Cismontane woodland, chaparral, broadleaved upland forest, lower montane conifer forest		April-June

TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
FEDERAL OR STATE SPECIES OF SPECIAL CONCERN				
Plants (cont.)				
Los Angeles sunflower <i>Helianthus nuttallii ssp parishii</i>	FSC/--/List 1A	Coastal salt and freshwater marshes and swamps		August-October
Southern tarplant <i>Hemizonia parryi ssp australis</i>	FSC/--/List 1B	Marshes, swamps, valley and foothill grassland, vernal pools		June-September
Coulter's goldfields <i>Lasthenia glabrata ssp coulteri</i>	FSC/--/List 1B	Coastal salt-marsh, playas, valley and foothill grassland, vernal pools		March-May
Robinson's pepper-grass <i>Lepidium virginicum var robinsonii</i>	--/--/List 1B	Chaparral, coastal scrub		January-April
San Gabriel Linanthus <i>Linanthus concinnus</i>	FSC/--/List 1B	Montane conifer forest		May-July
Davidson's bush mallow <i>Malacothammus davidsonii</i>	FSC/--/List 1B	Coastal scrub, riparian woodland, chaparral		June-September
California muhly <i>Muhlenbergia californica</i>	--/--/List 1B	Coastal sage chaparral, montane conifer forest, meadows		July-September
Mud Nama <i>Nama stenocarpum</i>	--/--/List 2	Marshes and swamps		March-May
Coast woolly-heads <i>Nemacaulis denudata var denudata</i>	--/--/List 2	Coastal dunes		April-September
Brand's Phacelia <i>Phacelia stellaris</i>	--/--/List 1B	Coastal scrub, coastal dunes		March-April
Ballona cinquefoil <i>Potentilla multijuga</i>	FSC/--/--/List 1A	Meadows and seeps		June-July
Nuttall's scrub oak <i>Quercus dumosa</i>	FSC/--/List 1B	Closed-cone conifer forest, chaparral, coastal scrub		March-May
Parish's gooseberry <i>Ribes divaricatum var parishii</i>	FSC/--/List 1B	Riparian woodland		March-April
Salt spring checkerbloom <i>Sidalcea hammondii</i>	--/--/List 2	Alkali playas, brackish marshes, chaparral, coastal scrub, lower montane conifer forest, desert scrub		April-June

**TABLE H-2 (Continued)
SPECIAL STATUS SPECIES REPORTED OR POTENTIALLY OCCURRING IN THE
LOS ANGELES BASIN NETWORK AREA**

Common name <i>Scientific name</i>	Listing Status USFWS/ CDFG/CNPS	Habitat Requirements	Potential to Occur	Period of Identification / Flowering Period
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FEDERAL OR STATE SPECIES OF SPECIAL CONCERN

Birds (cont.)

Sonoran maiden fern <i>Thelypteris puberula var sonorensis</i>	--/--/List 2	Meadows and seeps		Year-round
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STATUS CODES:

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 CR = Listed as Rare by the State of California
 CSC = California Species of Special Concern

3511 = A Fully Protected Species
 * = Special Animals
 3503.5 = Protection for nesting species of Falconiformes (hawks) and Strigiformes (owls)

High Potential = Species expected to occur and meets all habitats as defined in list
 Moderate Potential = Habitat only marginally suitable or suitable but not within species geographic range
 Low Potential = Habitat does not meet species requirements as currently understood in the scientific community