Appendix F

Special-Status Species in the Project Region

Table 1: Special Status Plant Species with the Potential to Occur within the BSA

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Federally listed species				
Large-flowered fiddleneck *Amsinckia grandiflora*	FE/SE CNPS 1B	Inhabits steep slope grasslands with light-textured but stable soils	Absent	None: No suitable habitat (steep slope grasslands) occurs in the BSA.
Soft bird's-beak *Cordylanthus mollis ssp. mollis*	FE/SR CNPS 1B	Inhabits salt marsh	Present	None: Suitable salt marsh habitat is present in the BSA; however salt marsh is not located in the project Action Area; therefore the species would not be impacted by proposed project
Santa Cruz tarplant *Holocarpha macradenia*	FT/SE CNPS 1B	Inhabits coastal prairie, coastal scrub, valley and foothill grassland/often clay, sandy	Absent	None: The species is considered extirpated in Alameda County and only found in Contra Costa County within the East Bay Regional Parks. Therefore, the proposed project would not impact this species.
Contra Costa goldfields *Lasthenia conjugens*	FE/SE CNPS 1B	Inhabits cismontane woodland, playas (alkaline), valley and foothill grassland, vernal pools/mesic.	Absent	None: No suitable habitat within the BSA
California seablite *Suaeda californica*	FE/- CNPS 1B	Inhabits salt marsh	Present	None: Suitable salt marsh habitat is present in the BSA; however salt marsh is not located in the Project Action Area; therefore the species would not be impacted by proposed project

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
State Listed and California Species of Concern				
Mason's lilaeopsis *Lilaeopsis masonii*	-/SR CNPS 1B.1	Inhabits marshes and swamps(brackish or freshwater), riparian scrub	Present	None: Suitable riparian scrub habitat is present in the BSA; however riparian scrub is not located in the Project Action Area; therefore the species would not be impacted by the proposed project
Adobe sanicle	-/SR CNPS 1B.1	Inhabits chaparral, coastal prairie, meadows and seeps, valley and foothill grassland/clay, serpentine	Present	None: Suitable habitat may occur within the BSA However the last observation of this species occurred in 1895 in Potrero Hills, San Francisco (individual #5). Given the age of the last occurrence, CNPS assumes this species is extinct in this region (CNDDB 2010).
Bent-flowered fiddleneck *Amisinckia lunaris*	-/- CNPS 1B.2	Inhabits coastal bluff scrub, cismontane, woodland, valley and foothill grassland	Present	**Present**: Suitable habitat may occur within the BSA located within the grasslands adjacent to I-80. An individual (#80) was observed in 1883, location listed in Oakland within the 1 mile observation area of the BSA (CNDDB 2010).
Point Reyes bird's-beak *Cordylanthus maritimus ssp. palustris*	-/- CNPS 1B.2	Inhabits salt marsh	Present	None: Suitable salt marsh habitat is present in the BSA; however salt marsh is not located in the Project Action Area; therefore the species would not be impacted by proposed project
Alkali milk-vetch *Astragalus tener var. tener*	-/- CNPS 1B.2	Inhabits playas, valley and foothill grassland (alkaline soils), vernal pools/alkaline	Absent	None: No suitable habitat or alkaline soils within the BSA
San Joaquin spearscale *Atriplex joaquiniana*	-/- CNPS 1B.2	Inhabits chenopod scrub, meadows and seeps, playas, valley and foothill grassland/alkaline	Absent	None: No suitable habitat or alkaline soils within the BSA

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Round-leafed filaree *California macrophylla*	-/- CNPS 1B.1	Inhabits cismontane woodland, valley and foothill grassland/friable clay soils	Absent	None: No suitable habitat or friable clay soils within the BSA
Western leatherwood *Dirca occidentalis*	-/- CNPS 1B.2	Inhabits broadleafed upland forest, closed-cone coniferous forest, chaparral, cismontane woodland, north coast coniferous forest, riparian forest, riparian woodland/mesic	Present	None: Suitable riparian habitat is present in the BSA; however riparian habitat is not located in the project Action Area; therefore the species would not be impacted by the proposed project
Fragrant fritillary *Fritillaria liliacea*	-/- CNPS 1B.2	Inhabits cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland/often serpentine	Absent	None: No suitable habitat or serpentine soils within the BSA
Diablo helianthella *Helianthella castanea*	-/- CNPS 1B.2	Inhabits broadleafed upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, valley and foothill grassland and is associated with thin, rocky, well-drained soils	Absent	None: No suitable habitat or thin, rocky soils occur in the BSA
Loma Prieta hoita *Hoita strobilina*	-/- CNPS 1B.1	Inhabits chaparral, cismontane woodland, riparian woodland/usually serpentinite	Present	None: Suitable riparian habitat is present in the BSA; however riparian habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Robust monardella *Monardella villosa ssp. globosa*	-/- CNPS 1B.2	Inhabits broadleafed upland forest(openings), chaparral(openings), cismontane woodland, coastal scrub, valley and foothill grassland	Present	**Present**: Suitable habitat may occur within the BSA located within the grasslands adjacent to I-80. An individual (#4) was observed in 1903 in the East Bay Regional Park District, east of I-80 and outside of the 1 mile observation area of the BSA (CNDDB 2010).
Most beautiful jewel-flower *Streptanthus albidus ssp. peramoenus*	-/- CNPS 1B.2	Inhabits Chaparral, cismontane woodland, valley and foothill grassland/serpentinite	Absent	None: No suitable habitat or serpentine soils within the BSA
Suisun Marsh aster *Symphyotrichum lentum*	-/- CNPS 1B.2	Inhabits marshes and swamps(brackish and freshwater)	Present	None: Suitable freshwater marsh is present in the BSA; however freshwater marsh is not located in the Project Action Area; therefore the species would not be impacted by the proposed project
Saline clover *Trifolium depauperatum var. hydrophilum*	-/- CNPS 1B.2	Inhabits marshes and swamps, valley and foothill grassland (mesic, alkaline), vernal pools	Absent	None: No suitable habitat or serpentine soils within the BSA

State Rare (SR); and CNPS, as described below:

CNPS Status: List 1B - Plants rare, threatened, or endangered in California or Elsewhere; List 2 - Plants rare or endangered in California, but more common elsewhere; List 3 - Plants about which more information is needed; List 4 – Plants of limited distribution.

Threat Code Extensions and Their Meanings (e.g. 1B**.** 1**)**
.1 - Seriously endangered in California
.2 – Fairly endangered in California
.3 – Not very endangered in California

Table 2: Sensitive Animal Species Potentially Occurring or Known to Occur within the BSA

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Sandy beach tiger beetle *Cincindela hirticollis gravida*	-/SA	Inhabits clean, dry, light-colored sand in the upper zone of the non-brackish water along the coast.	Absent	None: No suitable sandy beach habitat present. Historic occurrence along San Francisco beaches (CNDDB 2010).
Monarch butterfly *Danaus plexippus*	-/SA	Winter roosts located in wind protected tree groves of eucalyptus, Monterey pine, Monterey cypress, with nectar and water sources nearby.	Present	**Present**: Habitat occupied in December and January. Species reported on Albany Hill and in Codornices Creek, ~ 500 ft east of the BSA (#328, CNDDB 2010).
Western pond turtle *Emys marmorata*	SC/SSC	Prefers permanent, slow-moving creeks, streams, ponds, rivers, marshes and irrigation ditches with basking sites and a vegetated shoreline. Requires upland sites for egg-laying.	Present	**Present**: Suitable habitat present along riparian corridors. Species reported in Rodeo Creek <3 miles east of BSA (CNDDB 2010).
Cooper's hawk *Accipiter cooperi*	MB/SSC	Nests primarily in deciduous riparian forests. May also occupy dense canopied forests from gray pine-oak woodland to ponderosa pine. Forages in open woodlands.	Present	**Present:** Suitable nesting habitat present along riparian corridors. Species observed <3 miles east of BSA (CNDDB 2010).
Tricolored blackbird *Agelaius tricolor*	-/SSC	Highly colonial species, most numerous in Central Valley. Requires open water, protected nesting substrate, such as cattails, and foraging area within a few kilometers of the nesting area.	Present	None: Suitable open water and associated nesting habitat is present in the BSA; however open water and associated nesting habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project Species reported in Benicia, > 3 miles BSA (CNDDB 2010).
Golden eagle *Aquila chrysaetos*	MB/SA	Forages in a variety of habitats including grasslands, chaparral and oak woodland supporting abundant mammals. Nests on cliffs and escarpments and tall trees.	Absent	None: No suitable habitat present. Species reported east of Vallejo, > 3 mi north of BSA (CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Great blue heron *Ardea herodius*	MB/SA	Nests colonially in large trees near water.	Present	None: Suitable habitat present within the BSA; however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project Species reported at Mare Island (CNDDB 2010).
Burrowing owl *Athene cunicularia hypugea*	MB/SSC	Open, dry grasslands, deserts, prairies, farmland and scrublands with abundant active and abandoned mammal burrows. Prefers short grasses and moderate inclined hills.	Present	**Present**: Suitable nesting habitat present in northern portion of BSA. An individual (#1160) was observed in 2004 in a waste cleanup area near 48th Street, Richmond (approximately 0.75 miles west of the BSA) (CNDDB 2010).
Aleutian Canada goose *Branta canadensis leucopareia*	MB/SA	One of eleven recognized subspecies. Winters in wetlands, grasslands and cultivated fields.	Absent	None: No suitable habitat present within the BSA.
Red-shouldered hawk *Buteo lineatus*	MB/-	Nests in trees along riparian corridors and open fields.	Present	**Present**: Suitable habitat occurs in eucalyptus trees within the BSA.
Northern harrier *Circus cyaneus*	MB/SSC	Nests and forages in grasslands and open marshland, both salt and fresh. Nests consist of a thin to thick layer of small sticks and reeds, lined with grasses.	Present	None: Suitable habitat present in BSA; however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project. An individual (#15) was reported nesting in fennel at Berkeley Meadow west of University Avenue and I-80 (CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Snowy egret *Egretta thula*	MB/SA	Colonial nester with nests adjacent to foraging areas, such as marshes, tidal-flats, streams, wet meadows and lake edges.	Present	None: Suitable habitat present however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project. Species reported at Pt Potrero, Richmond (CNDDB 2010).
White-tailed kite *Elanus leucurus*	MB/FP	Inhabits low rolling foothills and valley margins with scattered oaks and river bottom- lands or marshes adjacent to deciduous woodlands. Prefers open grasslands, meadows and marshes for foraging close to isolated, dense-topped trees for nesting and perching.	Present	**Present**: Suitable habitat present in northern portion of site. This species would choose tall trees but typically at the edge of grasslands. An individual (#59) was reported breeding at Berkeley Yacht Harbor west of University Avenue and I-80 (CNDDB 2010).
American peregrine falcon *Falco peregrinus anatum*	MB/SA	Nests and roosts on protected ledges of high cliffs, usually adjacent to lakes, rivers or marshes. Forages on shorebirds and small passerines.	Absent	None: No suitable nesting habitat present.
Salt marsh common yellowthroat *Geothylpis trichas sinuosa*	MB/SSC	Nests in fresh and salt marshes in tall grasses, tule patches and willows and forages in thick, continuous cover down to the water surface.	Present	**Present**: Suitable habitat along southern portion of proposed project area. Species reported on south side of Emeryville Crescent Marsh (#31,CNDDB 2010).
Caspian tern *Hydroprogne caspia*	MB/SA	Nests on sandy or gravelly beaches and shell banks in small colonies. Nest in inland freshwater lakes and marshes and brackish or salt waters of estuaries and bays.	Absent	None: No suitable habitat present. Species reported on Brooks island, offshore of Pt Potrero (approximately 2 miles west of the BSA) (CNDDB 2010).
Suisun song sparrow *Melospiza melodia maxillaris*	MB/SSC	Resident of brackish-water marshes surrounding Suisun Bay. Inhabits Typha, Carex, and Sarcocornia.	Present	**Present**: Suitable habitat along southern portion of project area. An individual (#33) observed in 1901 north of Carquinez Straits (approximately 1 mile west of the BSA) (CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Alameda song sparrow *Melospiza melodia pusillula*	MB/SSC	Resident of salt marshes bordering San Francisco Bay, inhabiting Sarcocornia marshes, nesting low in Grindelia bushes, above high tide level and in Sarcocornia.	Present	**Present**: Suitable habitat along southern portion of project area. Individuals (#2 and #3) were observed in 2004 at Emeryville Crescent marsh within the 1 mile observation radius of the BSA. Individual (#20) was observed in 1942 along the Berkeley shoreline west of University Avenue. Individuals (#21 and #28) were observed in 1940 north of Solano Avenue within the 1 mile observation radius of the BSA. (CNDDB 2010).
San Pablo song sparrow *Melospiza melodia samuelis*	MB/SSC	Inhabits tidal sloughs in the Sarcocornia marshes, nesting in Grindelia bordering slough channels along the north side of the San Francisco and San Pablo Bays.	Present	**Present**: Suitable habitat occurs along the southern portion of the site. Individual (#42) was observed in 1901 west of Cummings Skyway and I-80, individual (#37) was observed north of San Pablo Creek and west of I-80, individual (#30) was observed in 1947 west of Pinole Valley Road and I-80, and individual (#29) was observed in 1941 north of San Pablo Dam Road and east of I-80 within the 1 mile observation radius of the BSA (CNDDB 2010).
Black-crowned night heron *Nycticorax nycticorax*	MB/SA	Colonial nester, usually in trees adjacent to lake margins, mud-bordered bays and marshy habitats.	Present	None: Suitable habitat present in BSA however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project.
Osprey *Pandion haliaetus*	-/SSC	Nests in large trees within 15 miles of good fish-producing water body.	Absent	None: No suitable habitat present. Species reported on Mare Island (CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Yellow-headed blackbird *Xanthocephalus xanthocephalus*	MB/SSC	Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds.	Present	None: Suitable habitat present in BSA however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project. An individual (#7) was observed in 1899 west of Pinole Valley Road and I-80 within the 1 mile observation radius of the BSA. (CNDDB 2010).
Pallid bat *Antrozous pallidus*	-/SSC	Day roosts include rock outcrops, mines, caves, buildings, bridges, and hollows and cavities in a wide variety of tree species. High reliance on oak woodland habitat in many portions of its range in California. Forages on larger prey taken on the ground or in the air, usually within 6-km of the day roost.	Present	**Present**: Roosting habitat may occur in the eucalyptus trees within the BSA. Individual (#127) was observed in 1945 north of Ashby and east of I-80 outside of the 1 mile observation area of the BSA. Individual (#137) was observed in 1943 east of the Portrero Avenue and I-80 interchange and individual (#139) was observed in 1937 west of Pinole Valley Road and I-80 interchange within the 1 mile observation radius of the BSA (CNDDB 2010).
Berkeley kangaroo rat *Dipodymus heermani*	-/SA	Inhabits open grassy hilltops and open spaces in chaparral, and blue oak/digger pine woodlands. Requires fine, deep, well-drained soil for burrowing.	Absent	None: No suitable habitat present within the BSA.
Silver haired bat *Lasionycteris noctivagans*	-/SA	Primarily a coastal and montane forest dweller. Roosts in hollow trees, beneath exfoliating bark, abandoned woodpecker holes and rarely under rocks.	Present	**Present**: Roosting habitat may occur in the eucalyptus trees within the BSA. Species reported in Tilden Park (#28, CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Hoary bat *Lasiurus cinereus*	-/SA	Roosts singly (except female-young association) in dense foliage of medium to large coniferous and deciduous trees. Highly migratory, but occurs year-round in California, overwintering in San Francisco Bay Area. Forages over tree canopy, often high altitude, often long distances from day roost.	Present	**Present**: Roosting habitat may occur in the eucalyptus trees within the BSA. Species reported Berkeley and El Cerrito earlier than 1940 (CNDDB 2010).
San Pablo vole *Microtus californicus sanpabloensis*	-/SSC	Salt marshes of San Pablo Creek, in San Pablo Bay.	Present	None: Suitable habitat present within the BSA; however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project. No individuals reported from salt marshes in southern portion of BSA. Species reported in San Pablo Creek Marsh and Giant Marsh, Richmond within 1 mile observation radius of BSA (#3 and 1,CNDDB 2010);.
Big-free-tailed bat *Nyctinomops macrotis*	-/SSC	Low-lying areas primarily in Southern California and other areas, roosting in high cliffs or rocky outcrops.	Absent	None: No suitable habitat and outside species range. Individual (#22) was observed in 1916 south of University Avenue and east of I-80 within the 1 mile observation radius of the BSA (CNDDB 2010).

Common Name *Scientific Name*	Status USFWS/ CDFG	Habitat Affinities and Reported Localities in the Proposed Project Area	Habitat Present/absent	Rationale for Species Occurrence and Reported Localities
Salt-marsh wandering shrew *Sorex vagrans halicoetes*	-/SSC	Occupies tidal marshes that provide dense cover, abundant food (primarily invertebrates), suitable nesting sites, and fairly continuous ground moisture. Occupies "medium high marsh," about 6 to 8 ft above sea level, and in lower-lying marsh not regularly inundated.	Absent	None: Suitable habitat present within the BSA; however suitable habitat is not located in the Project Action Area; therefore the species would not be impacted by the proposed project. No individuals reported from salt marshes in southern portion of BSA. Species reported in San Pablo Creek Marsh and Giant Marsh, Richmond > 1 mile from BSA (# 8 and 9, CNDDB 2010). No habitat connection between Emeryville Crescent marsh and other marshes.
American badger *Taxidea taxus*	-/SSC	Inhabits open grasslands, savannas and mountain meadows near timberline. Requires abundant burrowing mammals, their principal food source, and loose, friable soils.	Absent	None: No suitable habitat present within BSA.

Status: Federal Species of Concern (SC); State Fully Protected (FP); State Rare (SR); Special Animal (SA); State Species of Special Concern (SSC); Protected under the Migratory Bird Treaty Act (MB).