

Appendix E

Special Status Species Evaluation

Special Status Species Evaluation Table

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Plants and Lichens				
<i>Abronia villosa</i> var. <i>aurita</i> chaparral sand-verbena	None/None G5T2?/S2 1B.1	Annual herb. Chaparral, coastal scrub, desert dunes. Sandy. Elevations: 245-5250ft. (75-1600m.) Blooms (Jan)Mar-Sep.	Not Expected	Suitable chaparral, coastal scrub, and desert dunes habitats are absent from the project site.
<i>Acanthoscyphus parishii</i> var. <i>parishii</i> Parish's oxytheca	None/None G4?T3T4/S3S4 4.2	Annual herb. Chaparral, lower montane coniferous forest. Gravelly (sometimes), sandy (sometimes). Elevations: 4005-8530ft. (1220-2600m.) Blooms Jun-Sep.	Not Expected	The project site is outside the known elevation range of this species.
<i>Allium howellii</i> var. <i>clokeyi</i> Mt. Pinos onion	None/None G4T2/S2 1B.3	Perennial bulbiferous herb. Great basin scrub, meadows and seeps, pinyon and juniper woodland. Elevations: 4265-6070ft. (1300-1850m.) Blooms Apr-Jun.	Not Expected	The project site is outside the known elevation range of this species.
<i>Ambrosia monogyra</i> singlewhorl burrobrush	None/None G5/S2 2B.2	Perennial shrub. Chaparral, sonoran desert scrub. Sandy. Elevations: 35-1640ft. (10-500m.) Blooms Aug-Nov.	Not Expected	Suitable chaparral and sonoran desert scrub habitats are absent from the project site
<i>Ambrosia pumila</i> San Diego ambrosia	FE/None G1/S1 1B.1	Perennial rhizomatous herb. Chaparral, coastal scrub, valley and foothill grassland, vernal pools. Alkaline (sometimes), clay (sometimes), disturbed areas (often), sandy (sometimes). Elevations: 65-1360ft. (20-415m.) Blooms Apr-Oct.	Not Expected	Suitable chaparral, coastal scrub, valley and foothill grassland, and vernal pool habitats are absent from the project site.
<i>Arenaria paludicola</i> marsh sandwort	FE/SCE G1/S1 1B.1	Perennial stoloniferous herb. Marshes and swamps. Openings, sandy. Elevations: 10-560ft. (3-170m.) Blooms May-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Artemisia palmeri</i> San Diego sagewort	None/None G3?/S3? 4.2	Perennial deciduous shrub. Chaparral, coastal scrub, riparian forest, riparian scrub, riparian woodland. Mesic, sandy. Elevations: 50-3000ft. (15-915m.) Blooms (Feb)May-Sep.	Not Expected	The project site is outside the known elevation range of this species.
<i>Asplenium vespertinum</i> western spleenwort	None/None G3?/S4 4.2	Perennial rhizomatous herb. Chaparral, cismontane woodland, coastal scrub. Rocky. Elevations: 590-3280ft. (180-1000m.) Blooms Feb-Jun.	Not Expected	Suitable chaparral, cismontane woodland, and coastal scrub habitats are absent from the project site.
<i>Astragalus hornii</i> var. <i>hornii</i> Horn's milk-vetch	None/None GUT1/S1 1B.1	Annual herb. Meadows and seeps, playas. Alkaline, lake margins. Elevations: 195-2790ft. (60-850m.) Blooms May-Oct.	Not Expected	Suitable meadow, seep, and playa habitats are absent from the project site.

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<i>Berberis nevinii</i> Nevin's barberry	FE/SCE G1/S1 1B.1	Perennial evergreen shrub. Chaparral, cismontane woodland, coastal scrub, riparian scrub. Gravelly (sometimes), sandy (sometimes). Elevations: 230-2705ft. (70-825m.) Blooms (Feb)Mar-Jun.	Not Expected	Suitable chaparral, woodland, coastal scrub, and riparian scrub habitat is absent from the project site.
<i>Bouteloua trifida</i> three-awned grama	None/None G4G5/S3 2B.3	Perennial herb. Mojavean desert scrub. Limestone ravines and rocky hills, sometimes in narrow crevices. Associates include Utah agave (<i>Agave utahensis</i>) and Death Valley sage (<i>Salvia funerea</i>). Elevations: 2295-6560ft. (700-2000m.) Blooms (Apr) May-Sep.	Not Expected	The project site is outside the known elevation range of this species.
<i>Brodiaea filifolia</i> thread-leaved brodiaea	FT/SCE G2/S2 1B.1	Perennial bulbiferous herb. Chaparral, cismontane woodland, coastal scrub, playas, valley and foothill grassland, vernal pools. Clay (often). Elevations: 80-3675ft. (25-1120m.) Blooms Mar-Jun.	Not Expected	Suitable chaparral, cismontane woodland, coastal scrub, playas, valley and foothill grassland, and vernal pool habitats are absent from the project site.
<i>Calochortus catalinae</i> Catalina mariposa lily	None/None G3G4/S3S4 4.2	Perennial bulbiferous herb. Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland. In heavy soils, open slopes, openings in brush. Elevations: 50-2295ft. (15-700m.) Blooms (Feb)Mar-Jun.	Not Expected	Suitable chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland habitats are absent from the project site.
<i>Calochortus palmeri</i> var. <i>palmeri</i> Palmer's mariposa-lily	None/None G3T2/S2 1B.2	Perennial bulbiferous herb. Chaparral, lower montane coniferous forest, meadows and seeps. Mesic. Elevations: 2330-7840ft. (710-2390m.) Blooms Apr-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Calochortus plummerae</i> Plummer's mariposa-lily	None/None G4/S4 4.2	Perennial bulbiferous herb. Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, valley and foothill grassland. Granitic, rocky. Elevations: 330-5580ft. (100-1700m.) Blooms May-Jul.	Not Expected	Suitable chaparral, coniferous forest, meadow, and seep habitats are absent from the project site.
<i>Calochortus simulans</i> La Panza mariposa-lily	None/None G2/S2 1B.3	Perennial bulbiferous herb. Chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland. Granitic (often), sandy, serpentinite (sometimes). Elevations: 1065-3775ft. (325-1150m.) Blooms Apr-Jun.	Not Expected	The project site is outside the known elevation range of this species.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Carex comosa</i> bristly sedge	None/None G5/S2 2B.1	Perennial rhizomatous herb. Coastal prairie, marshes and swamps, valley and foothill grassland. Lake margins, wet places; site below sea level is on a Delta island. Elevations: 0-2050ft. (0-625m.) Blooms May-Sep.	Not Expected	Suitable wet habitats such as marshes, swamps, and lake margins are absent from the project site.
<i>Castilleja lasiorhyncha</i> San Bernardino Mountains owl's-clover	None/None G2?/S2? 1B.2	Annual herb (hemiparasitic). Chaparral, meadows and seeps, pebble (pavement) plain, riparian woodland, upper montane coniferous forest. Mesic. Elevations: 4265-7840ft. (1300-2390m.) Blooms May-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Caulanthus simulans</i> Payson's jewelflower	None/None G4/S4 4.2	Annual herb. Chaparral, coastal scrub. Granitic, sandy. Elevations: 295-7220ft. (90-2200m.) Blooms (Feb)Mar-May(Jun).	Not Expected	Suitable chaparral and coastal scrub habitat is absent from the project site.
<i>Centromadia pungens</i> ssp. <i>laevis</i> smooth tarplant	None/None G3G4T2/S2 1B.1	Annual herb. Chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grassland. Alkaline. Elevations: 0-2100ft. (0-640m.) Blooms Apr-Sep.	Not Expected	Suitable chenopod scrub, meadows, seeps, riparian woodland, and valley and foothill grassland habitats are absent from the project site.
<i>Chloropyron maritimum</i> ssp. <i>maritimum</i> salt marsh bird's-beak	FE/SCE G4?T1/S1 1B.2	Annual herb (hemiparasitic). Coastal dunes, marshes and swamps. Limited to the higher zones of salt marsh habitat. Elevations: 0-100ft. (0-30m.) Blooms May-Oct(Nov).	Not Expected	The project site is outside the known elevation range of this species.
<i>Chorizanthe leptotheca</i> Peninsular spineflower	None/None G3/S3 4.2	Annual herb. Chaparral, coastal scrub, lower montane coniferous forest. Granitic. Elevations: 985-6235ft. (300-1900m.) Blooms May-Aug.	Not Expected	Suitable chaparral, coastal scrub, and lower montane coniferous forest habitats are absent from the project site.
<i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower	None/None G3T2/S2 1B.1	Annual herb. Chaparral, cismontane woodland, coastal scrub, valley and foothill grassland. Openings, Rocky (sometimes), sandy (sometimes). Elevations: 900-4005ft. (275-1220m.) Blooms Apr-Jun.	Not Expected	Suitable chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland habitats are absent from the project site.
<i>Chorizanthe xanti</i> var. <i>leucotheca</i> white-bracted spineflower	None/None G4T3/S3 1B.2	Annual herb. Coastal scrub, Mojavean desert scrub, pinyon and juniper woodland. Gravelly (sometimes), sandy (sometimes). Elevations: 985-3935ft. (300-1200m.) Blooms Apr-Jun.	Not Expected	Suitable coastal scrub, Mojavean desert scrub, and pinyon and juniper woodland habitats are absent from the project site.

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<i>Convolvulus simulans</i> small-flowered morning-glory	None/None G4/S4 4.2	Annual herb. Chaparral, coastal scrub, valley and foothill grassland. Clay, seeps, serpentinite. Elevations: 100-2430ft. (30-740m.) Blooms Mar-Jul.	Not Expected	Suitable chaparral, coastal scrub, and valley and foothill grassland habitats are absent from the project site.
<i>Cryptantha incana</i> Tulare cryptantha	None/None G2/S2 1B.3	Annual herb. Lower montane coniferous forest. Gravelly or rocky sites. Elevations: 4690-7055ft. (1430-2150m.) Blooms Jun-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Cuscuta obtusiflora</i> var. <i>glandulosa</i> Peruvian dodder	None/None G5T4?/SH 2B.2	Annual vine (parasitic). Marshes and swamps. Freshwater marsh. Elevations: 50-920ft. (15-280m.) Blooms Jul-Oct.	Not Expected	The project site is outside the known elevation range of this species.
<i>Deinandra paniculata</i> paniculate tarplant	None/None G4/S4 4.2	Annual herb. Coastal scrub, valley and foothill grassland, vernal pools. Usually in vernal mesic sites. Sometimes in vernal pools or on mima mounds near them. Elevations: 80-3085ft. (25-940m.) Blooms (Mar)Apr-Nov.	Not Expected	Suitable coastal scrub, valley and foothill grassland, and vernal pool habitats are absent from the project site.
<i>Dodecahema leptoceras</i> slender-horned spineflower	FE/SCE G1/S1 1B.1	Annual herb. Chaparral, cismontane woodland, coastal scrub. Flood deposited terraces and washes; associates include Encelia, Dalea, Lepidospartum, etc. Sandy soils. Elevations: 655-2495ft. (200-760m.) Blooms Apr-Jun.	Not Expected	Suitable chaparral, cismontane woodland, and coastal scrub habitats are absent from the project site.
<i>Eriastrum densifolium</i> ssp. <i>sanctorum</i> Santa Ana River woollystar	FE/SCE G4T1/S1 1B.1	Perennial herb. Chaparral, coastal scrub. In sandy soils on river floodplains or terraced fluvial deposits. Elevations: 300-2000ft. (91-610m.) Blooms Apr-Sep.	Not Expected	Suitable chaparral and coastal scrub habitats are absent from the project area.
<i>Eriophyllum lanatum</i> var. <i>obovatum</i> southern Sierra woolly sunflower	None/None G5T4/S4 4.3	Perennial herb. Lower montane coniferous forest, upper montane coniferous forest. Sandy loam. Elevations: 3655-8205ft. (1114-2500m.) Blooms Jun-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Fimbristylis thermalis</i> hot springs fimbristylis	None/None G4/S1S2 2B.2	Perennial rhizomatous herb. Meadows and seeps. Near hot springs. Elevations: 360-4395ft. (110-1340m.) Blooms Jul-Sep.	Not Expected	The project site is not near hot springs and does not contain meadow or seep habitats.
<i>Frasera neglecta</i> pine green-gentian	None/None G4/S4 4.3	Perennial herb. Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest. Dry, open woodlands. Elevations: 4595-8205ft. (1400-2500m.) Blooms May-Jul.	Not Expected	The project site is outside the known elevation range of this species.

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<i>Fritillaria pinetorum</i> pine fritillary	None/None G4/S4 4.3	Perennial bulbiferous herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland, subalpine coniferous forest, upper montane coniferous forest. Granite or metamorphics. Elevations: 5695-10825ft. (1735-3300m.) Blooms May-Jul(Sep).	Not Expected	The project site is outside the known elevation range of this species.
<i>Galium californicum</i> ssp. <i>primum</i> Alvin Meadow bedstraw	None/None G5T2/S2 1B.2	Perennial herb. Chaparral, lower montane coniferous forest. Grows in shade of trees and shrubs at the lower edge of the pine belt, in pine forest-chaparral ecotone. Granitic, sandy soils. Elevations: 4430-5580ft. (1350-1700m.) Blooms May-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Galium jepsonii</i> Jepson's bedstraw	None/None G3/S3 4.3	Perennial rhizomatous herb. Lower montane coniferous forest, upper montane coniferous forest. On granite; gravelly hillsides and slopes. Elevations: 5055-8205ft. (1540-2500m.) Blooms Jul-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Galium johnstonii</i> Johnston's bedstraw	None/None G4/S4 4.3	Perennial herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland, riparian woodland. Open, mixed forest. Elevations: 4005-7545ft. (1220-2300m.) Blooms Jun-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Helianthus nuttallii</i> ssp. <i>parishii</i> Los Angeles sunflower	None/None G5TX/SX 1A	Perennial rhizomatous herb. Marshes and swamps. Elevations: 35-5005ft. (10-1525m.) Blooms Aug-Oct.	Not Expected	Suitable marsh and swamp habitat is absent from the project site.
<i>Heuchera caespitosa</i> urn-flowered alumroot	None/None G3/S3 4.3	Perennial rhizomatous herb. Cismontane woodland, lower montane coniferous forest, riparian forest, upper montane coniferous forest. Rocky sites. Elevations: 3790-8695ft. (1155-2650m.) Blooms May-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Heuchera parishii</i> Parish's alumroot	None/None G3/S3 1B.3	Perennial rhizomatous herb. Alpine boulder and rock field, lower montane coniferous forest, subalpine coniferous forest, upper montane coniferous forest. Rocky places. Sometimes on carbonate. Elevations: 4920-12470ft. (1500-3800m.) Blooms Jun-Aug.	Not Expected	The project site is outside the known elevation range of this species.

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<i>Hordeum intercedens</i> vernal barley	None/None G3G4/S3S4 3.2	Annual herb. Coastal dunes, coastal scrub, valley and foothill grassland, vernal pools. Vernal pools, dry, saline streambeds, alkaline flats. 5-. Elevations: 15-3280ft. (5-1000m.) Blooms Mar-Jun.	Not Expected	Coastal dunes, vernal pools, and dry saline streambeds do not occur within the project site.
<i>Horkelia cuneata</i> var. <i>puberula</i> mesa horkelia	None/None G4T1/S1 1B.1	Perennial herb. Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites. Elevations: 230-2660ft. (70-810m.) Blooms Feb-Jul(Sep).	Not Expected	Suitable chaparral, cismontane woodland, and coastal scrub habitats are absent from the project site.
<i>Hulsea vestita</i> ssp. <i>parryi</i> Parry's sunflower	None/None G5T4/S4 4.3	Perennial herb. Lower montane coniferous forest, pinyon and juniper woodland, upper montane coniferous forest. Rocky sites; limestone or granite; sagebrush to fir forest. Elevations: 4495-9500ft. (1370-2895m.) Blooms Apr-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Imperata brevifolia</i> California satintail	None/None G3/S3 2B.1	Perennial rhizomatous herb. Chaparral, coastal scrub, meadows and seeps, mojavean desert scrub, riparian scrub. Mesic sites, alkali seeps, riparian areas. 3-. Elevations: 0-3985ft. (0-1215m.) Blooms Sep-May.	Not Expected	Suitable chaparral, coastal scrub, meadow, seep, desert scrub, and riparian scrub habitats are absent from the project site.
<i>Ivesia argyrocoma</i> var. <i>argyrocoma</i> silver-haired ivesia	None/None G2T2/S2 1B.2	Perennial herb. Meadows and seeps, pebble (pavement) plain, upper montane coniferous forest. In pebble plains and meadows with other rare plants. Elevations: 4800-9710ft. (1463-2960m.) Blooms Jun-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Juglans californica</i> Southern California black walnut	None/None G4/S4 4.2	Perennial deciduous tree. Chaparral, cismontane woodland, coastal scrub, riparian woodland. Slopes, canyons, alluvial habitats. Elevations: 165-2955ft. (50-900m.) Blooms Mar-Aug.	Not Expected	The project site does not contain any slopes, canyons, or alluvial habitats suitable for this species.
<i>Juncus duranii</i> Duran's rush	None/None G3/S3 4.3	Perennial rhizomatous herb. Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest. Wet places in montane conifer forests. Elevations: 5800-9200ft. (1768-2804m.) Blooms Jul-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Lasthenia glabrata</i> ssp. <i>coulteri</i> Coulter's goldfields	None/None G4T2/S2 1B.1	Annual herb. Marshes and swamps, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-. Elevations: 5-4005ft. (1-1220m.) Blooms Feb-Jun.	Not Expected	Suitable marsh, swamp, playa, and vernal pool habitats are absent from the project site.

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<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	None/None G5T3/S3 4.3	Annual herb. Chaparral, coastal scrub. Dry soils, shrubland. 4-. Elevations: 5-2905ft. (1-885m.) Blooms Jan-Jul.	Not Expected	Suitable chaparral and coastal scrub habitats are absent from the project site.
<i>Lilium humboldtii</i> ssp. <i>ocellatum</i> ocellated Humboldt lily	None/None G4T4?/S4? 4.2	Perennial bulbiferous herb. Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland. Yellow-pine forest or openings, oak canyons. Elevations: 100-5905ft. (30-1800m.) Blooms Mar-Jul(Aug).	Not Expected	The project site does not contain yellow-pine forest or openings, oak canyons or other suitable riparian woodland for this species.
<i>Lilium parryi</i> lemon lily	None/None G3/S3 1B.2	Perennial bulbiferous herb. Lower montane coniferous forest, meadows and seeps, riparian forest, upper montane coniferous forest. Wet, mountainous terrain; generally in forested areas; on shady edges of streams, in open boggy meadows and seeps. Elevations: 4005-9005ft. (1220-2745m.) Blooms Jul-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Lycium parishii</i> Parish's desert-thorn	None/None G4/S1 2B.3	Perennial shrub. Coastal scrub, sonoran desert scrub. Elevations: 445-3280ft. (135-1000m.) Blooms Mar-Apr.	Not Expected	Suitable coastal scrub and desert scrub habitats are absent from the project site.
<i>Malacothamnus parishii</i> Parish's bush-mallow	None/None GXQ/SX 1A	Perennial deciduous shrub. Chaparral, coastal scrub. In a wash. Elevations: 1000-1495ft. (305-455m.) Blooms Jun-Jul.	Not Expected	Suitable chaparral and coastal scrub habitat is absent from the project site. Also, the project site falls short of the required elevation range of this species.
<i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella	None/None G5T3/S3 1B.3	Perennial rhizomatous herb. Broad-leafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland. Dry slopes and ridges in openings. Elevations: 2395-7200ft. (730-2195m.) Blooms Jun-Oct.	Not Expected	The project site is outside the known elevation range of this species.
<i>Monardella pringlei</i> Pringle's monardella	None/None GX/SX 1A	Annual herb. Coastal scrub. Sandy hills. Elevations: 985-1310ft. (300-400m.) Blooms May-Jun.	Not Expected	Suitable coastal scrub and sandy hill habitats are absent from the project area. This species is presumed to be extirpated from this region (CNPS 2022).

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<i>Monardella saxicola</i> rock monardella	None/None G3/S3 4.2	Perennial rhizomatous herb. Chaparral, closed-cone coniferous forest, lower montane coniferous forest. Dry, rocky exposed places within chaparral or yellow pine forest; usually serpentine. May show fire response. Elevations: 1640-5905ft. (500-1800m.) Blooms Jun-Sep.	Not Expected	The project site is outside the known elevation range of this species.
<i>Muhlenbergia californica</i> California muhly	None/None G4/S4 4.3	Perennial rhizomatous herb. Chaparral, coastal scrub, lower montane coniferous forest, meadows and seeps. Usually found near streams or seeps. Elevations: 330-6560ft. (100-2000m.) Blooms Jun-Sep.	Not Expected	Suitable streams and seeps are absent from the project site.
<i>Nasturtium gambelii</i> Gambel's water cress	FE/SCT G1/S1 1B.1	Perennial rhizomatous herb. Marshes and swamps. Freshwater and brackish marshes at the margins of lakes and along streams, in or just above the water level. Elevations: 15-1085ft. (5-330m.) Blooms Apr-Oct.	Not Expected	The project site does not contain marsh or swamp habitat.
<i>Opuntia basilaris</i> var. <i>brachyclada</i> short-joint beavertail	None/None G5T3/S3 1B.2	Perennial stem. Chaparral, Joshua tree woodland, Mojavean desert scrub, pinyon and juniper woodland. Sandy soil or coarse, granitic loam. Elevations: 1395-5905ft. (425-1800m.) Blooms Apr-Jun(Aug).	Not Expected	The project site is outside the known elevation range of this species.
<i>Pelazoneuron puberulum</i> var. <i>sonorensis</i> Sonoran maiden fern	None/None G5T3/S2 2B.2	Meadows and seeps. 50-610m. Blooms Jan-Sep.	Not Expected	Suitable meadow and seep habitats are absent from the project area.
<i>Perideridia parishii</i> ssp. <i>parishii</i> Parish's yampah	None/None G4T3T4/S2 2B.2	Perennial herb. Lower montane coniferous forest, meadows and seeps, upper montane coniferous forest. Damp meadows or along streambeds-prefers an open pine canopy. Elevations: 4805-9845ft. (1465-3000m.) Blooms Jun-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Phacelia mohavensis</i> Mojave phacelia	None/None G4Q/S4 4.3	Annual herb. Cismontane woodland, lower montane coniferous forest, meadows and seeps, pinyon and juniper woodland. Sandy or gravelly soils, dry streambeds. Elevations: 4595-8205ft. (1400-2500m.) Blooms Apr-Aug.	Not Expected	The project site is outside the known elevation range of this species.

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<i>Phacelia stellaris</i> Brand's star phacelia	None/None G1/S1 1B.1	Annual herb. Coastal dunes, coastal scrub. Open areas. Elevations: 5-1310ft. (1-400m.) Blooms Mar-Jun.	Not Expected	Suitable coastal dunes and coastal scrub habitats are absent from the project site.
<i>Piperia leptopetala</i> narrow-petaled rein orchid	None/None G4/S4 4.3	Perennial herb. Cismontane woodland, lower montane coniferous forest, upper montane coniferous forest. Elevations: 1245-7300ft. (380-2225m.) Blooms May-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Pseudorontium cyathiferum</i> Deep Canyon snapdragon	None/None G4G5/S1 2B.3	Annual herb. Sonoran desert scrub. Rocky sites. Elevations: 0-2625ft. (0-800m.) Blooms Feb-Apr.	Not Expected	Suitable Sonoran desert scrub habitat is absent from the project area.
<i>Quercus durata</i> var. <i>gabrielensis</i> San Gabriel oak	None/None G4T3/S3 4.2	Perennial evergreen shrub. Chaparral, cismontane woodland. Elevations: 1475-3280ft. (450-1000m.) Blooms Apr-May.	Not Expected	The project site is outside the known elevation range of this species.
<i>Ribes divaricatum</i> var. <i>parishii</i> Parish's gooseberry	None/None G5TX/SX 1A	Perennial deciduous shrub. Riparian woodland. Salix swales in riparian habitats. Elevations: 215-985ft. (65-300m.) Blooms Feb-Apr.	Not Expected	The project site does not contain riparian woodland habitat.
<i>Romneya coulteri</i> Coulter's matilija poppy	None/None G4/S4 4.2	Perennial rhizomatous herb. Chaparral, coastal scrub. In washes and on slopes; also after burns. Elevations: 65-3935ft. (20-1200m.) Blooms Mar-Jul(Aug).	Not Expected	Suitable chaparral and coastal scrub habitats are not present at the project site.
<i>Schoenus nigricans</i> black bog-rush	None/None G4/S2 2B.2	Perennial herb. Marshes and swamps. Often in alkaline marshes. Elevations: 490-6560ft. (150-2000m.) Blooms Aug-Sep.	Not Expected	Suitable marsh and swamp habitat is absent from the project site.
<i>Senecio aphanactis</i> chaparral ragwort	None/None G3/S2 2B.2	Annual herb. Chaparral, cismontane woodland, coastal scrub. Drying alkaline flats. Elevations: 50-2625ft. (15-800m.) Blooms Jan-Apr(May).	Not Expected	Drying alkaline flats are absent from the project site.
<i>Senecio astephanus</i> San Gabriel ragwort	None/None G3/S3 4.3	Perennial herb. Chaparral, coastal bluff scrub. Rocky slopes. Elevations: 1310-4920ft. (400-1500m.) Blooms May-Jul.	Not Expected	The project site is outside the known elevation range of this species.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Sidalcea malviflora</i> ssp. <i>dolosa</i> Bear Valley checkerbloom	None/None G5T2/S2 1B.2	Perennial herb. Lower montane coniferous forest, meadows and seeps, riparian woodland, upper montane coniferous forest. Known from wet areas within forested habitats. Affected by hydrological changes. Elevations: 4905-8810ft. (1495-2685m.) Blooms May-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Sidalcea neomexicana</i> salt spring checkerbloom	None/None G4/S2 2B.2	Perennial herb. Chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, playas. Alkali springs and marshes. Elevations: 50-5020ft. (15-1530m.) Blooms Mar-Jun.	Not Expected	Suitable alkali springs and marshes are absent from the project site.
<i>Sidothea caryophylloides</i> chickweed oxytheca	None/None G4/S4 4.3	Annual herb. Lower montane coniferous forest. Sandy sites. Elevations: 3655-8530ft. (1114-2600m.) Blooms Jul-Sep(Oct).	Not Expected	The project site is outside the known elevation range of this species.
<i>Sphenopholis obtusata</i> prairie wedge grass	None/None G5/S2 2B.2	Perennial herb. Cismontane woodland, meadows and seeps. Open moist sites, along rivers and springs, alkaline desert seeps. Elevations: 985-6560ft. (300-2000m.) Blooms Apr-Jul.	Not Expected	Suitable moist habitats along rivers and springs are absent from the project site.
<i>Streptanthus bernardinus</i> Laguna Mountains jewelflower	None/None G3G4/S3S4 4.3	Perennial herb. Chaparral, lower montane coniferous forest. Clay or decomposed granite soils; sometimes in disturbed areas such as streambanks or roadcuts. Elevations: 2200-8205ft. (670-2500m.) Blooms May-Aug.	Not Expected	The project site is outside the known elevation range of this species.
<i>Streptanthus campestris</i> southern jewelflower	None/None G3/S3 1B.3	Perennial herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland. Open, rocky areas. Elevations: 2955-7545ft. (900-2300m.) Blooms (Apr)May-Jul.	Not Expected	The project site is outside the known elevation range of this species.
<i>Symphyotrichum defoliatum</i> San Bernardino aster	None/None G2/S2 1B.2	Perennial rhizomatous herb. Cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, meadows and seeps, valley and foothill grassland. Vernal mesic grassland or near ditches, streams and springs; disturbed areas. Elevations: 5-6695ft. (2-2040m.) Blooms Jul-Nov.	Not Expected	Suitable cismontane woodland, coastal scrub, coniferous forest, marsh, swamp, meadow, seep, and valley and foothill grassland habitats are absent from the project site.
<i>Thelypteris puberula</i> var. <i>sonorensis</i> Sonoran maiden fern	None/None G5T3/S2 2B.2	Perennial rhizomatous herb. Meadows and seeps. Along streams, seepage areas. Elevations: 165-2000ft. (50-610m.) Blooms Jan-Sep.	Not Expected	Suitable meadow and seep habitats are absent from the project area.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Yucca brevifolia</i> western Joshua tree	None/SCT G3G4/SNR CBR	Perennial Broadleaf evergreen. Joshua tree woodland, montane chaparral, pinyon and juniper woodland, Sonoran and Mojavean desert scrub. Elevation:1600-7200ft (490-823m. Blooms Mar - May.	Not Expected	The project site is outside the known elevation range of this species.
Animals				
Invertebrates				
<i>Bombus crotchii</i> Crotch bumble bee	None/SCE G2/S1S2	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	Not Expected	Suitable habitat and foot plant genera are absent from the project site.
<i>Bombus morrisoni</i> Morrison bumble bee	None/None G3/S1S2	From the Sierra-Cascade ranges eastward across the intermountain west. Food plant genera include Cirsium, Cleome, Helianthus, Lupinus, Chrysothamnus, and Melilotus.	Not Expected	Suitable habitat and foot plant genera are absent from the project site.
<i>Ceratochrysis longimale</i> Desert cuckoo wasp	None/None G1/S1	Inhabits chaparral habitats.	Not Expected	The nearest CNDDDB record is approximately 6.5 miles southeast of the project site and was recorded over 100 years ago in 1915 and presumed to be extirpated.
<i>Cicindela tranquebarica viridissima</i> greenest tiger beetle	None/None G5T1/S1	Inhabits the woodlands adjacent to the Santa Ana River basin. Usually found in open spots between trees.	Not Expected	Suitable woodland habitat is absent from the project site.
<i>Euchloe hyantis andrewsi</i> Andrew's marble butterfly	None/None G4G5T1/S1	Inhabits yellow pine forest near Lake Arrowhead and Big Bear Lake, San Bernardino Mtns, San Bernardino Co, 5000-6000 ft. Hostplants are Laguna Mountains jewelflower (<i>Streptanthus bernardinus</i>) and woodland rockcress (<i>Boechera pinetorum</i>); larval foodplant is soft mountain tansy-mustard (<i>Descurainia incana</i>).	Not Expected	Suitable yellow pine forest habitat is absent from the project site.
<i>Eugnosta busckana</i> Busck's gallmoth	None/None G1G3/SH	Coastal sand dunes.	Not Expected	Suitable coastal sand dunes are absent from the project site.

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<i>Euphydryas editha quino</i> quino checkerspot butterfly	FE/None G5T1T2/S1S2	Sunny openings within chaparral and coastal sage shrublands in parts of Riverside and San Diego counties. Hills and mesas near the coast. Need high densities of food plants including California dwarf plantain (<i>Plantago erecta</i>), ovate plantain (<i>P. ovata</i> var. <i>insularis</i>), and purple owl's clover (<i>Castilleja exserta</i> ssp. <i>exserta</i>).	Not Expected	The project site is outside the known range of this species.
<i>Neolarra alba</i> white cuckoo bee	None/None GH/SH	Known only from localities in Southern California. Cleptoparasitic in the nests of perdita bees.	Not Expected	There is one CNDDDB occurrence within one mile of the project site, but it was recorded in 1937 and is thought to be extirpated.
<i>Rhaphiomidas terminatus abdominalis</i> Delhi Sands flower-loving fly	FE/None G1T1/S1	Found only in areas of the Delhi Sands formation in southwestern San Bernardino and northwestern Riverside counties. Requires fine, sandy soils, often with wholly or partly consolidated dunes and sparse vegetation. Oviposition req. shade.	Not Expected	Suitable sand dunes are absent from the project site.
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	FE/None G1G2/S2	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.	Not Expected	Suitable vernal pool habitat is absent from the project site.
Fish				
<i>Catostomus santaanae</i> Santa Ana sucker	FT/None G1/S1	Endemic to Los Angeles Basin south coastal streams. Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	Not Expected	Suitable aquatic habitat is absent from the project site.
<i>Gila orcuttii</i> arroyo chub	None/None G2/S2 SSC	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez, Mojave and San Diego river basins. Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.	Not Expected	Suitable aquatic habitat is absent from the project site.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Oncorhynchus mykiss irideus</i> pop. 10 steelhead - southern California DPS	FE/SCE G5T1Q/S1	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	Not Expected	Suitable aquatic habitat is absent from the project site.
<i>Rhinichthys osculus</i> ssp. 8 Santa Ana speckled dace	None/None G5T1/S1 SSC	Headwaters of the Santa Ana and San Gabriel rivers. May be extirpated from the Los Angeles River system. Requires permanent flowing streams with summer water temps of 17-20 C. Usually inhabits shallow cobble and gravel riffles.	Not Expected	Suitable aquatic habitat is absent from the project site.
Amphibians				
<i>Batrachoseps gabrieli</i> San Gabriel slender salamander	None/None G2G3/S2S3	Known only from the San Gabriel Mtns. Found under rocks, wood, and fern fronds, and on soil at the base of talus slopes. Most active on the surface in winter and early spring.	Not Expected	The project site is outside the known range of this species.
<i>Rana draytonii</i> California red-legged frog	FT/None G2G3/S2S3 SSC	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Not Expected	Suitable aquatic habitat is absent from the project site.
<i>Rana muscosa</i> southern mountain yellow-legged frog	FE/SE G1/S1 WL	Disjunct populations known from southern Sierras (northern DPS) and San Gabriel, San Bernardino, and San Jacinto Mtns (southern DPS). Found at 1,000 to 12,000 ft in lakes and creeks that stem from springs and snowmelt. May overwinter under frozen lakes. Often encountered within a few feet of water. Tadpoles may require 2 - 4 yrs to complete their aquatic development.	Not Expected	Suitable aquatic habitat is absent from the project site.
<i>Spea hammondi</i> western spadefoot	None/None G2G3/S3S4 SSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	Not Expected	Suitable vernal pool habitat is absent from the project site.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Reptiles				
<i>Anniella stebbinsi</i> Southern California legless lizard	None/None G3/S3 SSC	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	Not Expected	Suitable sandy or loose soils are absent from the project site.
<i>Arizona elegans occidentalis</i> California glossy snake	None/None G5T2/S2 SSC	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	Not Expected	Suitable sandy or loose soils are absent from the project site.
<i>Aspidoscelis hyperythra</i> orange-throated whiptail	None/None G5/S2S3 WL	Inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats. Prefers washes and other sandy areas with patches of brush and rocks. Perennial plants necessary for its major food: termites.	Not Expected	Suitable coastal scrub, chaparral, and valley-foothill hardwood habitats are absent from the project site.
<i>Aspidoscelis tigris stejnegeri</i> coastal whiptail	None/None G5T5/S3 SSC	Found in deserts and semi-arid areas with sparse vegetation and open areas. Also found in woodland and riparian areas. Ground may be firm soil, sandy, or rocky.	Not Expected	Suitable desert, woodland, and riparian habitats are absent from the project site.
<i>Charina umbratica</i> southern rubber boa	None/ST G2G3/S2S3	Found in a variety of montane forest habitats. Previously considered morphologically intermediate, recent (2022) genomic analysis clarifies individuals from Mt Pinos, Tehachapi Mts, and southern Sierra Nevada are southern rubber boa. Found in vicinity of streams or wet meadows; requires loose, moist soil for burrowing; seeks cover in rotting logs, rock outcrops, and under surface litter.	Not Expected	Suitable montane forest habitat is absent from the project site.
<i>Coleonyx variegatus abbotti</i> San Diego banded gecko	None/None G5T5/S1S2 SSC	Coastal and cismontane Southern California. Found in granite or rocky outcrops in coastal scrub and chaparral habitats.	Not Expected	Suitable granite and rocky outcrops are absent from the project site.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Crotalus ruber</i> red-diamond rattlesnake	None/None G4/S3 SSC	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains. Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	Not Expected	Suitable rocky areas with dense vegetation are absent from the project site.
<i>Diadophis punctatus modestus</i> San Bernardino ringneck snake	None/None G5T2T3/S2?	Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams. Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.	Not Expected	Suitable moist habitats in rocky areas are absent from the project site.
<i>Emys marmorata</i> western pond turtle	None/None G3G4/S3 SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	Not Expected	Suitable aquatic habitat is absent from the project site and the nearest suitable habitat is greater than 5.5 miles southeast, so the project site would not provide suitable upland habitat for basking sites and egg laying.
<i>Phrynosoma blainvillii</i> coast horned lizard	None/None G3G4/S4 SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Not Expected	Suitable sandy washes are absent from the project site.
<i>Salvadora hexalepis virgultea</i> coast patch-nosed snake	None/None G5T4/S3 SSC	Brushy or shrubby vegetation in coastal Southern California. Require small mammal burrows for refuge and overwintering sites.	Not Expected	The project site does not contain suitable brushy or shrubby vegetation and no small mammal burrows were observed during the survey.
<i>Thamnophis hammondi</i> two-striped gartersnake	None/None G4/S3S4 SSC	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 ft elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.	Not Expected	Suitable aquatic habitat is absent from the project site.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Birds				
<i>Accipiter cooperii</i> Cooper's hawk	None/None G5/S4 WL	Woodland, chiefly of open, interrupted or marginal type. Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	Not Expected	Suitable woodland and riparian habitat is absent from the project site.
<i>Agelaius tricolor</i> tricolored blackbird	None/ST G1G2/S1S2 SSC	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony.	Not Expected	Suitable aquatic habitat and protected nesting substrate is absent from the project site.
<i>Aimophila ruficeps canescens</i> southern California rufous-crowned sparrow	None/None G5T3/S3 WL	Resident in Southern California coastal sage scrub and sparse mixed chaparral. Frequents relatively steep, often rocky hillsides with grass and forb patches.	Not Expected	Suitable coastal sage scrub and chaparral habitats are absent from the project site.
<i>Artemisiospiza belli belli</i> Bell's sage sparrow	None/None G5T2T3/S3 WL	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yds apart.	Not Expected	Suitable coastal sage scrub and chaparral habitats are absent from the project site.
<i>Athene cunicularia</i> burrowing owl	None/None G4/S3 SSC	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	Not Expected	No small mammal burrows were observed within the project site.
<i>Buteo regalis</i> ferruginous hawk	None/None G4/S3S4 WL	Open grasslands, sagebrush flats, desert scrub, low foothills and fringes of pinyon and juniper habitats. Eats mostly lagomorphs, ground squirrels, and mice. Population trends may follow lagomorph population cycles.	Not Expected	Suitable grasslands, sagebrush flats, desert scrub, and low foothills are absent from the project site.
<i>Buteo swainsoni</i> Swainson's hawk	None/ST G5/S3	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	Not Expected	Suitable grassland habitat with scattered trees, juniper-sage flats, riparian areas, and agricultural lands are absent from the project site.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	FT/SE G5T2T3/S1	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	Not Expected	Suitable riparian forest habitat is absent from the project site.
<i>Coturnicops noveboracensis</i> yellow rail	None/None G4/S1S2 SSC	Summer resident in eastern Sierra Nevada in Mono County. Freshwater marshlands.	Not Expected	The project site is outside of the known range for this species and does not contain freshwater marshlands.
<i>Empidonax traillii extimus</i> southwestern willow flycatcher	FE/SE G5T2/S1	Riparian woodlands in Southern California.	Not Expected	Suitable riparian woodlands are absent from the project site.
<i>Eremophila alpestris actia</i> California horned lark	None/None G5T4Q/S4 WL	Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills. Short-grass prairie, "bald" hills, mountain meadows, open coastal plains, fallow grain fields, alkali flats.	Not Expected	Suitable short-grass prairie, bald hills, mountain meadows, coastal plains, fallow grain fields, and alkali flats are absent from the project site.
<i>Falco columbarius</i> merlin	None/None G5/S3S4 WL	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms and ranches. Clumps of trees or windbreaks are required for roosting in open country.	Not Expected	Suitable coastal, tidal estuary, open woodland, savannah, grassland, and farm habitats are absent from the project site.
<i>Haliaeetus leucocephalus</i> bald eagle	FD/SE G5/S3 FP	Ocean shore, lake margins, and rivers for both nesting and wintering. Most nests within 1 mile of water. Nests in large, old-growth, or dominant live tree with open branches, especially ponderosa pine. Roosts communally in winter.	Not Expected	Suitable water sources are absent from the project site due to the developed nature of the surrounding region.
<i>Icteria virens</i> yellow-breasted chat	None/None G5/S3 SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	Not Expected	Suitable riparian habitat is absent from the project site.
<i>Lanius ludovicianus</i> loggerhead shrike	None/None G4/S4 SSC	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	Not Expected	Suitable open country is absent from the project site due to the developed nature of the surrounding region.

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<i>Laterallus jamaicensis coturniculus</i> California black rail	None/ST G3T1/S1 FP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	Not Expected	Suitable freshwater marshes, wet meadows, and shallow margins of saltwater marshes are absent from the project site.
<i>Polioptila californica californica</i> coastal California gnatcatcher	FT/None G4G5T3Q/S2 SSC	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	Not Expected	Suitable coastal sage scrub habitat is absent from the project site.
<i>Setophaga petechia</i> yellow warbler	None/None G5/S3S4 SSC	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	Not Expected	Suitable riparian habitat is absent from the project site.
<i>Spinus lawrencei</i> Lawrence's goldfinch	None/None G3G4/S4	Nests in open oak or other arid woodland and chaparral, near water. Nearby herbaceous habitats used for feeding. Closely associated with oaks.	Not Expected	Suitable woodland and chaparral habitats are absent from the project site.
<i>Vireo bellii pusillus</i> least Bell's vireo	FE/SE G5T2/S2	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Not Expected	Suitable riparian habitat is absent from the project site.
Mammals				
<i>Antrozous pallidus</i> pallid bat	None/None G4/S3 SSC	Found in a variety of habitats including deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts in crevices of rock outcrops, caves, mine tunnels, buildings, bridges, and hollows of live and dead trees which must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	Not Expected	Suitable desert, grassland, shrubland, and woodlands are absent from the project site. The project site does not contain rock outcrops preferred for roosting for this species.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Chaetodipus fallax fallax</i> northwestern San Diego pocket mouse	None/None G5T3T4/S3S4 SSC	Inhabits coastal sage scrub, sagebrush scrub, grasslands, and chaparral communities. Found in open, sandy areas in southwestern California and northern Baja California. Prefers moderately gravelly and rocky substrates.	Not Expected	Suitable coastal sage scrub, sagebrush scrub, grassland, and chaparral habitats with open, sandy areas are absent from the project site.
<i>Chaetodipus fallax pallidus</i> pallid San Diego pocket mouse	None/None G5T3T4/S3S4 SSC	Occurs in desert and arid coastal border areas in eastern San Diego, Riverside, and San Bernardino Counties. Habitats include desert wash, desert scrub, desert succulent scrub, and pinyon-juniper. Prefers sandy soils, usually with rocks or coarse gravel.	Not Expected	Suitable desert wash, desert scrub, and pinyon-juniper woodland habitats are absent from the project site.
<i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat	FE/SCE G5T1/S1 SSC	Alluvial scrub vegetation on sandy loam substrates characteristic of alluvial fans and flood plains. Needs early to intermediate seral stages.	Not Expected	Suitable alluvial scrub vegetation is absent from the project site.
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	FT/ST G2/S2	Found primarily in annual & perennial grasslands, but also occurs in coastal scrub & sagebrush with sparse canopy cover. Prefers buckwheat, chamise, brome grass & filaree. Will burrow into firm soil and use the burrows of California ground squirrels and pocket gophers. Occurs only in southern California.	Not Expected	Suitable grassland, coastal scrub, and sagebrush habitats are absent from the project site. Small mammal burrows were also absent from the project site.
<i>Eumops perotis californicus</i> western mastiff bat	None/None G4G5T4/S3S4 SSC	Occurs in open, semi-arid to arid habitats, including coniferiferous and deciduous woodlands, coastal scrub, grasslands, and chaparral. Roosts in crevices in cliff faces and caves, and buildings. Roosts typically occur high above ground.	Not Expected	Suitable roosting habitat is absent from the project site.
<i>Glaucomys oregonensis californicus</i> San Bernardino flying squirrel	None/None G5T1T2/S1S2 SSC	Known from black oak or white fir dominated woodlands between 5200 - 8500 ft in the San Bernardino and San Jacinto ranges. May be extirpated from San Jacinto range. Needs cavities in trees/snags for nests and cover. Needs nearby water.	Not Expected	The project site is outside the known elevation range of this species.

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Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
<i>Lasiurus xanthinus</i> western yellow bat	None/None G4G5/S3 SSC	Occurs in arid regions of the southwestern United States. Typically found in riparian woodlands, oak or pinyon-juniper woodland, desert wash, palm oasis habitats, and urban or suburban areas. Roosts in trees, often between palm fronds.	Not Expected	Suitable roosting habitat is absent from the project site.
<i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	None/None G5T3T4/S3S4	Occurs in Los Angeles, San Bernardino, Riverside, and San Diego Counties of southern California. Typically found in open shrub habitats. Will also occur in woodland habitats with open understory adjacent to shrublands.	Not Expected	Suitable shrub and woodland habitats are absent from the project site.
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	None/None G5T3T4/S3S4 SSC	Occurs in scrub habitats of southern California from San Luis Obispo County to San Diego County.	Not Expected	Suitable scrub habitat is absent from the project site.
<i>Nyctinomops femorosaccus</i> pocketed free-tailed bat	None/None G5/S3 SSC	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. Rocky areas with high cliffs.	Not Expected	Suitable roosting habitat is absent from the project site.
<i>Onychomys torridus ramona</i> southern grasshopper mouse	None/None G5T3/S3 SSC	Desert areas, especially scrub habitats with friable soils for digging. Prefers low to moderate shrub cover. Feeds almost exclusively on arthropods, especially scorpions and orthopteran insects.	Not Expected	Suitable scrub habitats with friable soils are absent from the project site.
<i>Perognathus alticola alticola</i> white-eared pocket mouse	None/None G2TH/SH SSC	Ponderosa and Jeffrey pine habitats; also in mixed chaparral and sagebrush habitats in the San Bernardino Mountains. Burrows are constructed in loose soil.	Not Expected	Suitable pine, mixed chaparral and sagebrush habitats are absent from the project site. No burrows were observed.
<i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	None/None G5T2/S1S2 SSC	Lower elevation grasslands and coastal sage communities in and around the Los Angeles Basin. Open ground with fine, sandy soils. May not dig extensive burrows, hiding under weeds and dead leaves instead.	Not Expected	Suitable grassland and coastal sage habitats are absent from the project site.
<i>Taxidea taxus</i> American badger	None/None G5/S3 SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	Not Expected	Suitable habitat with friable soils are absent from the project site.

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Sensitive Natural Communities				
Riversidian Alluvial Fan Sage Scrub	None/None G1/S1.1	-	Not Expected	This natural community is absent from the project site.
Southern California Arroyo Chub/Santa Ana Sucker Stream	None/None GNR/SNR	-	Not Expected	This natural community is absent from the project site.
Southern Coast Live Oak Riparian Forest	None/None G4/S4	-	Not Expected	This natural community is absent from the project site.
Southern Cottonwood Willow Riparian Forest	None/None G3/S3.2	-	Not Expected	This natural community is absent from the project site.
Southern Mixed Riparian Forest	None/None G2/S2.1	-	Not Expected	This natural community is absent from the project site.
Southern Riparian Forest	None/None G4/S4	-	Not Expected	This natural community is absent from the project site.
Southern Riparian Scrub	None/None G3/S3.2	-	Not Expected	This natural community is absent from the project site.
Southern Sycamore Alder Riparian Woodland	None/None G4/S4	-	Not Expected	This natural community is absent from the project site.
Southern Willow Scrub	None/None G3/S2.1	-	Not Expected	This natural community is absent from the project site.
Status (Federal/State) FE = Federal Endangered FT = Federal Threatened FPE = Federal Proposed Endangered FPT = Federal Proposed Threatened FD = Federal Delisted FC = Federal Candidate SE = State Endangered ST = State Threatened SCE = State Candidate Endangered SCT = State Candidate Threatened SR = State Rare SD = State Delisted SSC = CDFW Species of Special Concern FP = CDFW Fully Protected WL = CDFW Watch List				
CRPR (CNPS California Rare Plant Rank) 1A = Presumed extirpated in California, and rare or extinct elsewhere 1B = Rare, Threatened, or Endangered in California and elsewhere 2A = Presumed extirpated in California, but common elsewhere 2B = Rare, Threatened, or Endangered in California, but more common elsewhere 3 = Need more information (Review List) 4 = Limited Distribution (Watch List)				
CRPR Threat Code Extension .1 = Seriously endangered in California (>80% of occurrences threatened/high degree and immediacy of threat) .2 = Moderately threatened in California (20-80% of occurrences threatened/moderate degree and immediacy of threat) .3 = Not very endangered in California (<20% of occurrences threatened/low degree and immediacy of threat)				

Scientific Name Common Name	Status	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Other Statuses				
G1 or S1	Critically Imperiled Globally or Subnationally (state)			
G2 or S2	Imperiled Globally or Subnationally (state)			
G3 or S3	Vulnerable to extirpation or extinction Globally or Subnationally (state)			
G4/5 or S4/5	Apparently secure, common and abundant			
GH or SH	Possibly Extirpated – missing; known from only historical occurrences but still some hope of rediscovery			
Additional notations may be provided as follows				
T – Intraspecific Taxon (subspecies, varieties, and other designations below the level of species)				
Q – Questionable taxonomy that may reduce conservation priority				
? – Inexact numeric rank				

Appendix C

Species Compendium - Plant and Wildlife Species Observed Onsite

Plant and Wildlife Species Observed Onsite

Scientific Name	Common Name	Native or Non-Native (i.e., Introduced)
Plants		
<i>Ailanthus altissima</i>	tree of heaven	Non-native
<i>Alopecurus myosuroides</i>	slender meadow foxtail	Non-native
<i>Amsinckia menziesii</i>	Menzies' fiddleneck	Native
<i>Bromus diandrus</i>	great brome	Non-native
<i>Chenopodium murale</i>	nettle-leaved goosefoot	Non-native
<i>Conyza canadensis</i>	Canada horseweed	Native
<i>Cynodon dactylon</i>	Bermuda grass	Non-native
<i>Erigeron bonariensis</i>	flax-leaved horseweed	Non-native
<i>Erodium moschatum</i>	Musky stork's bill	Non-native
<i>Heterotheca grandiflora</i>	telegraph weed	Native
<i>Malva parviflora</i>	cheeseweed	Non-native
<i>Nicotiana glauca</i>	tree tobacco	Non-native
<i>Rumex pulcher</i>	fiddle dock	Non-native
<i>Sisymbrium irio</i>	London rocket	Non-native
Wildlife		
Birds		
<i>Larus californicus</i>	California gull	Native
<i>Sayornis nigricans</i>	black phoebe	Native

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