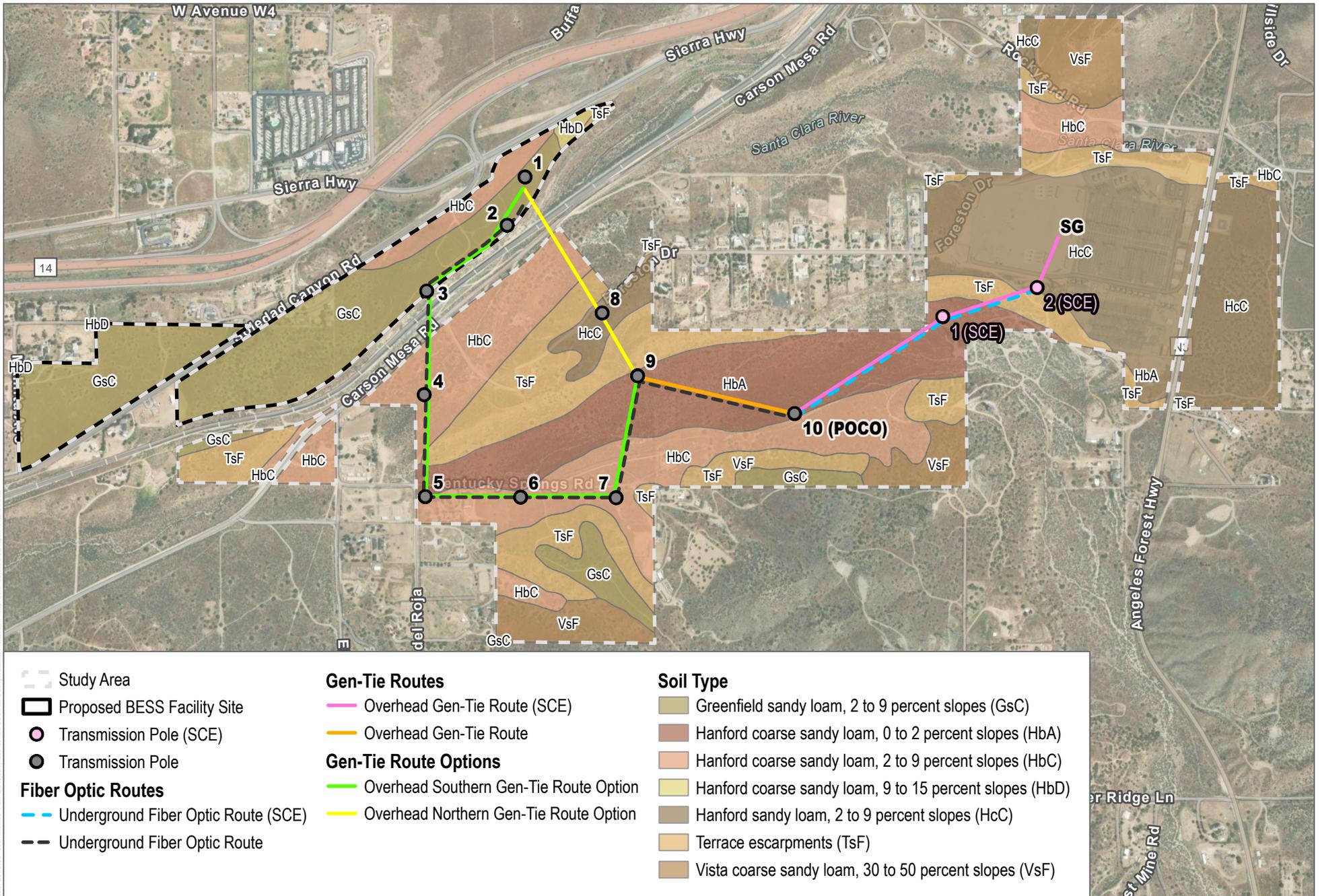


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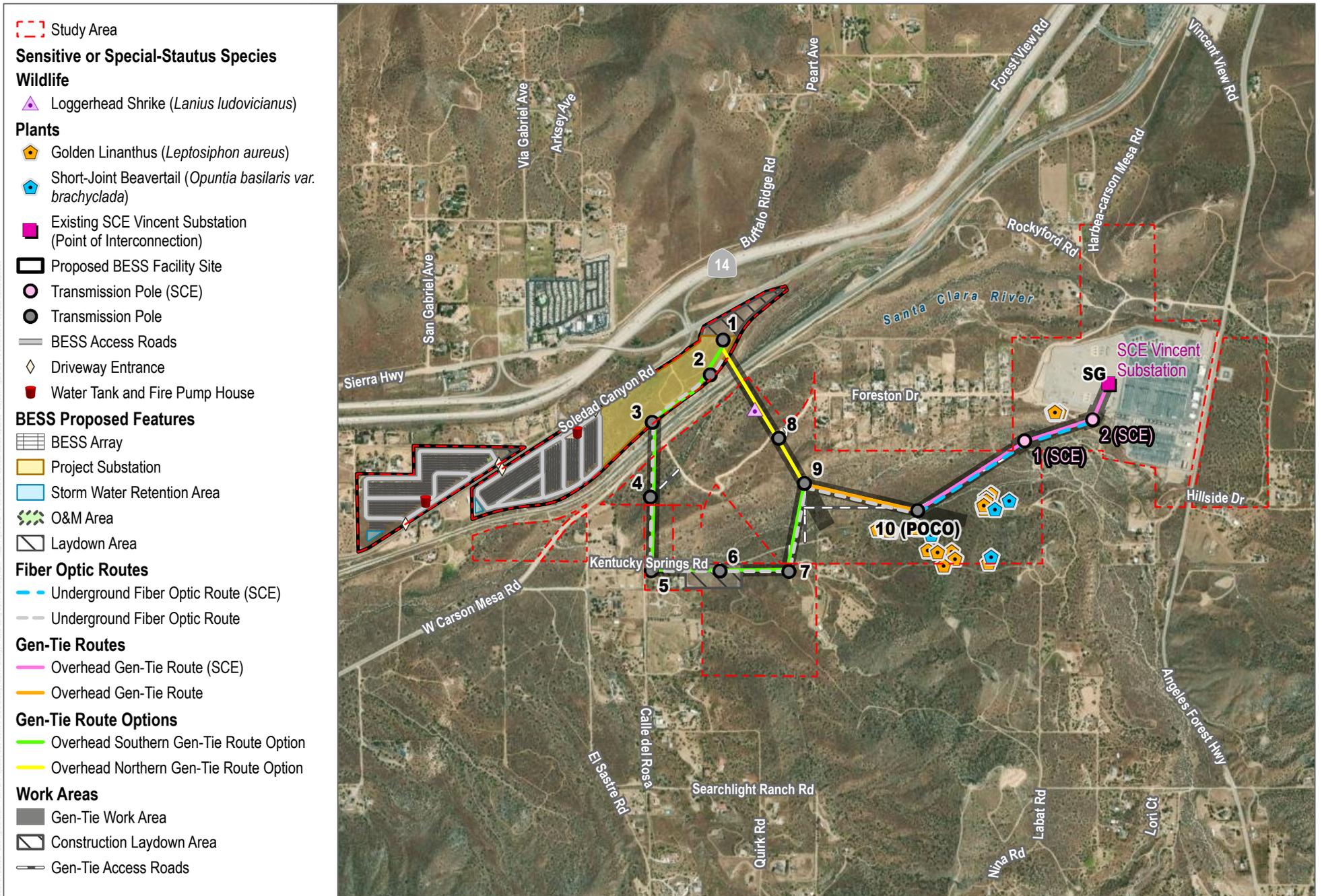


SOURCE: World Imagery; USDA



FIGURE 3

Soils



SOURCE: World Imagery



FIGURE 4
Sensitive or Special-Status Species Survey Results

Prairie Song Reliability Project

Attachment B

Potential to Occur Assessment

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Acanthoscyphus parishii</i> var. <i>abramsii</i>	Abrams' oxytheca	None/None/1B.2	Chaparral/annual herb/June–Aug/ 3,750–6,745	Not expected to occur. The Study Area is outside this species current range.
<i>Androsace elongata</i> ssp. <i>acuta</i>	California androsace	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Meadows and seeps, Pinyon and juniper woodland, Valley and foothill grassland/annual herb/ Mar–June/490–4,280	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Anomobryum julaceum</i>	slender silver moss	None/None/4.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest; Roadsides (usually)/moss/N.A./330–3,280	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Aphyllon validum</i> ssp. <i>validum</i>	Rock Creek broomrape	None/None/1B.2	Chaparral, Pinyon and juniper woodland; Granitic/perennial herb (parasitic)/May–Sep/3,380–6,560	Not expected to occur. Suitable micro-habitat (granitic) for the species is not present in the Study Area.
<i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>	San Gabriel manzanita	None/None/1B.2	Chaparral/perennial evergreen shrub/ Mar/1,950–4,920	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>	interior manzanita	None/None/4.3	Chaparral (montane), Cismontane woodland/perennial evergreen shrub/ Feb–Apr/6,890–7,580	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Asplenium vespertinum</i>	western spleenwort	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub; Rocky/perennial rhizomatous herb/Feb–June/ 590–3,280	Low potential to occur. Suitable habitat for the species is present in the Study Area, but records for the species are from the southern and eastern San Gabriel Mountains.
<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/ 195–2,785	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Berberis nevinii</i>	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; Gravelly (sometimes), Sandy (sometimes)/ perennial evergreen shrub/ (Feb)Mar-June/230-2,705	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Calochortus clavatus</i> var. <i>clavatus</i>	club-haired mariposa lily	None/None/4.3	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Clay, Rocky, Serpentine (usually)/perennial bulbiferous herb/(Mar)May-June/100-4,265	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus clavatus</i> var. <i>gracilis</i>	slender mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/Mar-June (Nov)/1,045-3,280	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus palmeri</i> var. <i>palmeri</i>	Palmer's mariposa-lily	None/None/1B.2	Chaparral, Lower montane coniferous forest, Meadows and seeps; Mesic/perennial bulbiferous herb/Apr-July/2,325-7,840	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Calochortus plummerae</i>	Plummer's mariposa-lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Granitic, Rocky/perennial bulbiferous herb/May-July/330-5,580	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus striatus</i>	alkali mariposa-lily	None/None/1B.2	Chaparral, Chenopod scrub, Meadows and seeps, Mojavean desert scrub; Alkaline, Mesic/perennial bulbiferous herb/Apr-June/230-5,230	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Calystegia peirsonii</i>	Peirson's morning-glory	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr-June/ 100-4,920	Low potential to occur. The species was initially assessed as having high potential due to the presence of suitable in the Study Area and recent local records (Calflora 2025); however, the species was not observed during focused rare plant surveys.
<i>Canbya candida</i>	white pygmy-poppy	None/None/4.2	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland; Granitic, Gravelly, Sandy/ annual herb/Mar-June/1,970-4,790	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	None/SR/1B.2	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; Granitic/perennial herb (hemiparasitic)/ May-June (Sep)/3,805-7,115	Not expected to occur. Suitable habitat for the species is present in the Study Area but the Study Area is outside the range of the species.
<i>Castilleja plagiotoma</i>	Mojave paintbrush	None/None/4.3	Great Basin scrub (alluvial), Joshua tree "woodland", Lower montane coniferous forest, Pinyon and juniper woodland/ perennial herb (hemiparasitic)/ Apr-June/985-8,205	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	None/None/1B.1	Marshes and swamps, Valley and foothill grassland, Vernal pools/annual herb/May-Nov/0-1,570	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower	None/SE/1B.1	Coastal scrub, Valley and foothill grassland/annual herb/Apr-July/ 490-4,000	Not expected to occur. Marginal habitat is present in the Study Area; however, no recent records along the SR-14.
<i>Chorizanthe spinosa</i>	Mojave spineflower	None/None/4.2	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Playas; Alkaline (sometimes)/annual herb/Mar-July/20-4,265	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Claytonia peirsonii</i> ssp. <i>peirsonii</i>	Peirson's spring beauty	None/None/1B.2	Subalpine coniferous forest, Upper montane coniferous forest; Granitic, Metamorphic, Scree, Talus/perennial herb/(Mar) May-June/4,955-9,005	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Clinopodium</i> <i>mimuloides</i>	monkey-flower savory	None/None/4.2	Chaparral, North Coast coniferous forest; Mesic, Streambanks/perennial herb/June-Oct/1,000-5,905	Not expected to occur. Suitable micro- habitats (mesic and streambanks) for the species are not present in the Study Area.
<i>Diplacus johnstonii</i>	Johnston's monkeyflower	None/None/4.3	Lower montane coniferous forest (disturbed areas, gravelly, roadsides, rocky, scree)/annual herb/May-Aug/ 3,200-9,580	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Dodecahema</i> <i>leptoceras</i>	slender-horned spineflower	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub; Flood deposited terraces and washes/annual herb/Apr-June/ 655-2,490	Not expected to occur. Suitable micro- habitats (Flood deposited terraces and washes) for the species are not present in the Study Area.
<i>Erigeron breweri</i> var. <i>jacinteus</i>	San Jacinto Mountains daisy	None/None/4.3	Subalpine coniferous forest, Upper montane coniferous forest; Rocky/ perennial rhizomatous herb/June-Sep/ 8,860-9,515	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Eriogonum</i> <i>umbellatum</i> var. <i>minus</i>	alpine sulfur- flowered buckwheat	None/None/4.3	Subalpine coniferous forest, Upper montane coniferous forest; Gravelly/ perennial herb/June-Sep/ 5,905-10,065	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Erythranthe diffusa</i>	Palomar monkeyflower	None/None/4.3	Chaparral, Lower montane coniferous forest; Gravelly (sometimes), Sandy (sometimes)/annual herb/Apr-June/ 4,005-6,005	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Frasera neglecta</i>	pine green-gentian	None/None/4.3	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest/perennial herb/May-July/4,595-8,205	Not expected to occur. The Study Area is below the elevation range of the species.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Galium angustifolium</i> ssp. <i>gabrielense</i>	San Antonio Canyon bedstraw	None/None/4.3	Chaparral, Lower montane coniferous forest; Granitic, Rocky (sometimes), Sandy (sometimes)/perennial herb/ Apr–Aug/3,935–8,695	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Galium angustifolium</i> ssp. <i>gracillimum</i>	slender bedstraw	None/None/4.2	Joshua tree "woodland", Sonoran desert scrub; Granitic, Rocky/perennial herb/ Apr–June (July)/425–5,085	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Galium jepsonii</i>	Jepson's bedstraw	None/None/4.3	Lower montane coniferous forest, Upper montane coniferous forest; Granitic, Gravelly (sometimes), Rocky (sometimes)/perennial rhizomatous herb/July–Aug/5,055–8,205	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Galium johnstonii</i>	Johnston's bedstraw	None/None/4.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland, Riparian woodland/perennial herb/ June–July/4,005–7,545	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Goodmania luteola</i>	golden goodmania	None/None/4.2	Meadows and seeps, Mojavean desert scrub, Playas, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/annual herb/Apr–Aug/ 65–7,220	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Heuchera abramsii</i>	Abrams' alumroot	None/None/4.3	Upper montane coniferous forest (rocky)/perennial rhizomatous herb/ July–Aug/9,185–11,485	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Heuchera caespitosa</i>	urn-flowered alumroot	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Riparian forest (montane), Upper montane coniferous forest; Rocky/perennial rhizomatous herb/May–Aug/3,790–8,695	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Horkelia cuneata</i> <i>var. puberula</i>	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/ perennial herb/Feb–July (Sep)/ 230–2,660	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Hulsea vestita</i> ssp. <i>gabrielensis</i>	San Gabriel Mountains sunflower	None/None/4.3	Lower montane coniferous forest, Upper montane coniferous forest; Rocky/perennial herb/May–July/ 4,920–8,205	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Hulsea vestita</i> ssp. <i>parryi</i>	Parry's sunflower	None/None/4.3	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest; Carbonate (sometimes), Granitic (sometimes), Openings, Rocky/perennial herb/ Apr–Aug/4,495–9,500	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Imperata brevifolia</i>	California satintail	None/None/2B.1	Chaparral, Coastal scrub, Meadows and seeps, Mojavean desert scrub, Riparian scrub; Mesic/perennial rhizomatous herb/Sep–May/0–3,985	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Juglans californica</i>	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/ perennial deciduous tree/Mar–Aug/ 165–2,955	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Juncus duranii</i>	Duran's rush	None/None/4.3	Lower montane coniferous forest, Meadows and seeps, Upper montane coniferous forest; Mesic/perennial rhizomatous herb/July–Aug/ 5,800–9,200	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Lepechinia fragrans</i>	fragrant pitcher sage	None/None/4.2	Chaparral/perennial shrub/Mar–Oct/ 65–4,300	Not expected to occur. This conspicuous species was not observed in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Lepidium virginicum</i> var. <i>robinsonii</i>	Robinson's pepper-grass	None/None/4.3	Chaparral, Coastal scrub/annual herb/ Jan–July/5–2,905	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Leptosiphon aureus</i>	Golden linanthus	None/None/4.2	Chaparral, Cismontane woodland, Valley and foothill grassland/annual herb/Apr–May/5-2,300	Present. Numerous observations of the species were mapped within the gentle portion of the Study Area
<i>Lilium humboldtii</i> ssp. <i>ocellatum</i>	ocellated Humboldt lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland; Openings/perennial bulbiferous herb/ Mar–July (Aug)/100–5,905	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Lilium parryi</i>	lemon lily	None/None/1B.2	Lower montane coniferous forest, Meadows and seeps, Riparian forest, Upper montane coniferous forest; Mesic/perennial bulbiferous herb/ July–Aug/4,000–9,005	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Linanthus concinnus</i>	San Gabriel linanthus	None/None/1B.2	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest; Openings, Rocky/annual herb/ Apr–July/4,985–9,185	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Loeflingia squarrosa</i> var. <i>artemisiarum</i>	sagebrush loeflingia	None/None/2B.2	Desert dunes, Great Basin scrub, Sonoran desert scrub; Sandy/annual herb/Apr–May/2,295–5,295	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Lupinus albifrons</i> var. <i>johnstonii</i>	interior bush lupine	None/None/4.3	Chaparral, Lower montane coniferous forest; Decomposed granitic/perennial shrub/May–July/4,920–8,205	Not expected to occur. The Study Area is below the elevation range of the species.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Lupinus elatus</i>	silky lupine	None/None/4.3	Lower montane coniferous forest, Upper montane coniferous forest/ perennial herb/June-Aug/ 4,920-9,845	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Lupinus peirsonii</i>	Peirson's lupine	None/None/1B.3	Joshua tree "woodland", Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest; Gravelly, Rocky/ perennial herb/Apr-June/3,280-8,205	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Lycium torreyi</i>	Torrey's box-thorn	None/None/4.2	Mojavean desert scrub, Sonoran desert scrub; Rocky, Sandy, Streambanks, Washes/perennial shrub/(Jan-Feb)Mar-June (Sep-Nov)/-165-4,005	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Malacothamnus davidsonii</i>	Davidson's bush-mallow	None/None/1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/ perennial deciduous shrub/June-Jan/ 605-3,740	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Monardella australis</i> ssp. <i>gabrielensis</i>	San Gabriel Mountains monardella	None/None/1B.2	Broadleafed upland forest, Chaparral, Lower montane coniferous forest; Granitic, Openings/shrub/July-Sep/ 5,245-7,215	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Monardella australis</i> ssp. <i>gabrielensis</i>	San Gabriel Mountains monardella	None/None/1B.2	Broadleafed upland forest, Chaparral (montane), Lower montane coniferous forest; Granitic, Openings/shrub/July-Sep/ 5,250-7,220	Not expected to occur. The Study Area is below the elevation range of the species.
<i>Monardella exilis</i>	Mojave monardella	None/None/4.2	Chenopod scrub, Desert dunes, Great Basin scrub, Joshua tree "woodland", Lower montane coniferous forest, Mojavean desert scrub, Pinyon and juniper woodland; Sandy/annual herb/ Apr-Sep/1,970-6,725	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Monardella viridis</i>	green monardella	None/None/4.3	Broadleaved upland forest, Chaparral, Cismontane woodland/perennial rhizomatous herb/June–Sep/330–3,315	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Mucronea californica</i>	California spineflower	None/None/4.2	Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland; Sandy/annual herb/Mar–July (Aug)/0–4,595	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Muhlenbergia californica</i>	California muhly	None/None/4.3	Chaparral, Coastal scrub, Lower montane coniferous forest, Meadows and seeps; Mesic, Seeps, Streambanks/perennial rhizomatous herb/June–Sep/330–6,560	Not expected to occur. Suitable microhabitats (mesic, seeps, and streambanks) for the species are not present in the Study Area.
<i>Muilla coronata</i>	crowned muilla	None/None/4.2	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland/perennial bulbiferous herb/Mar–Apr (May)/2,200–6,430	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Navarretia fossalis</i>	spreading navarretia	FT/None/1B.1	Chenopod scrub, Marshes and swamps (shallow freshwater), Playas, Vernal pools/annual herb/Apr–June/100–2,150	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Nemacladus secundiflorus</i> var. <i>robbinsii</i>	Robbins' nemacladus	None/None/1B.2	Chaparral, Valley and foothill grassland; Openings/annual herb/Apr–June/1,150–5,580	Low potential to occur. The species was initially assessed as having high potential due to the presence of suitable in the Study Area and recent local records (Calflora 2025); however, the species was not observed during focused rare plant surveys.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Opuntia basilaris</i> var. <i>brachyclada</i>	short-joint beavertail	None/None/1B.2	Chaparral, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland/perennial stem/ Apr-June (Aug)/1,390-5,905	Present. Four individuals were identified in the gen-tie portion of the Study Area during the 2023 focused rare plant surveys.
<i>Orcuttia californica</i>	California Orcutt grass	FE/SE/1B.1	Vernal pools/annual herb/Apr-Aug/ 50-2,165	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Oreonana vestita</i>	woolly mountain- parsley	None/None/1B.3	Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest; Gravelly (sometimes), Talus (sometimes)/ perennial herb/Mar-Sep/ 5,300-11,485	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Packera ionophylla</i>	Tehachapi ragwort	None/None/4.3	Lower montane coniferous forest, Upper montane coniferous forest; Granitic, Rocky/perennial herb/ June-July/4,920-8,860	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Perideridia pringlei</i>	adobe yampah	None/None/4.3	Chaparral, Cismontane woodland, Coastal scrub, Pinyon and juniper woodland; Clay (often), Serpentine/ perennial herb/Apr-June (July)/ 985-5,905	Not expected to occur. Suitable micro- habitats (clay and serpentine soils) for the species are not present in the Study Area.
<i>Phacelia mohavensis</i>	Mojave phacelia	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Pinyon and juniper woodland; Gravelly (sometimes), Sandy (sometimes)/ annual herb/Apr-Aug/4,595-8,205	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Pseudognaphalium leucocephalum</i>	white rabbit- tobacco	None/None/2B.2	Chaparral, cismontane woodland, Coastal scrub, Riparian woodland; gravelly benches, dry stream bottoms, Sandy/perennial herb/ (July) Aug-Nov (Dec)/0-6,885	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Quercus durata</i> var. <i>gabrielensis</i>	San Gabriel oak	None/None/4.2	Chaparral, Cismontane woodland/ perennial evergreen shrub/Apr–May/ 1,475–3,280	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Quercus engelmannii</i>	Engelmann oak	None/None/4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland/perennial deciduous tree/ Mar–June/165–4,265	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Selaginella asprella</i>	bluish spike-moss	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Pinyon and juniper woodland, Subalpine coniferous forest, Upper montane coniferous forest; Granitic, Rocky/perennial rhizomatous herb/July/5,250–8,860	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Senecio astephanus</i>	San Gabriel ragwort	None/None/4.3	Chaparral, Coastal scrub; Rocky, Slopes/perennial herb/May–July/ 1,310–4,920	Not expected to occur. The Study Area is outside the range of the species.
<i>Sidotheca caryophylloides</i>	chickweed oxytheca	None/None/4.3	Lower montane coniferous forest (sandy)/annual herb/July–Sep (Oct)/3,655–8,530	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Stylocline masonii</i>	Mason’s neststraw	None/None/1B.1	Chenopod scrub, Pinyon and juniper woodland; Sandy/annual herb/ Mar–May/330–3,935	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Symphotrichum greatae</i>	Greata’s aster	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland; Mesic/perennial rhizomatous herb/ June–Oct/985–6,590	Not expected to occur. Suitable micro- habitat (mesic conditions) for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Syntrichopappus lemmonii</i>	Lemmon's syntrichopappus	None/None/4.3	Chaparral, Joshua tree "woodland", Pinyon and juniper woodland; Gravelly (sometimes), Sandy (sometimes)/ annual herb/Apr–May (June)/ 1,640–6,005	Low potential to occur. The species was initially assessed as having high potential due to the presence of suitable in the Study Area and recent local records (Calflora 2025); however, the species was not observed during focused rare plant surveys.
<i>Thysanocarpus rigidus</i>	rigid fringedpod	None/None/1B.2	Pinyon and juniper woodland; Dry, Rocky, Slopes/annual herb/Feb–May/ 1,965–7,215	Not expected to occur. Herbarium records for the species are only from San Diego and Riverside counties.
<i>Yucca brevifolia</i>	western Joshua tree	None/SC/CBR	Great Basin grassland, Great Basin scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub, Valley and foothill grassland/perennial leaf succulent/Apr–May/1,310–6,560	Not expected to occur. This conspicuous species was not observed in the Study Area.

Status Legend**Federal**

FE: Federally listed as endangered

FT: Federally listed as threatened

State

SC: State candidate for listing

SE: State listed as endangered

SR: State designated as rare

CRPR: California Rare Plant Rank

1B: Plants rare, threatened, or endangered in California and elsewhere

2B: Plants rare, threatened, or endangered in California but more common elsewhere

4: Plants of limited distribution

CBR: Considered by Rejected for a CRPR

Threat Rank

0.1 – Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)

0.2 – Moderately threatened in California (20% - 80% of occurrences threatened/moderate degree and immediacy of threat)

0.3 – Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat)

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Attachment C

Plant Compendium

Plants

Gymnosperms and Gnetophytes

CUPRESSACEAE—CYPRESS FAMILY

Juniperus californica—California juniper

EPHEDRACEAE—EPHEDRA FAMILY

Ephedra californica—California joint fir

Ephedra viridis—Mormon tea

Eudicots

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

APIACEAE—CARROT FAMILY

Lomatium mohavense—Mojave desertparsley

ASTERACEAE—SUNFLOWER FAMILY

Ambrosia acanthicarpa—flatspine bur ragweed

Ambrosia salsola var. *salsola*—burrobrush

Artemisia ludoviciana—white sagebrush

Artemisia tridentata ssp. *parishii*—big sagebrush

Artemisia tridentata ssp. *tridentata*—basin big sagebrush

Artemisia tridentata—big sagebrush

Chaenactis artemisiifolia—white pincushion

Chaenactis fremontii—pincushion flower

Chaenactis glabriuscula—yellow pincushion

Corethrogyne filaginifolia—sand-aster

Encelia actoni—Acton's brittle brush

Encelia farinosa—brittle bush

Encelia frutescens—button brittlebush

Ericameria brachylepis—chaparral goldenbush

Ericameria linearifolia—narrowleaf goldenbush

Ericameria nauseosa var. *hololeuca*—rubber rabbitbrush

Ericameria pinifolia—pinebush

Eriophyllum confertiflorum var. *confertiflorum*—golden-yarrow

Eriophyllum pringlei—Pringle's woolly sunflower

Gutierrezia californica—California match weed

Lasthenia glaberrima—smooth goldfields
Lasthenia gracilis—needle goldfields
Layia glandulosa—whitedaisy tidytips
Layia platyglossa—coastal tidytips
Malacothrix glabrata—smooth desertdandelion
Matricaria discoidea—disc mayweed
Senecio flaccidus—threadleaf ragwort
Stephanomeria pauciflora—brownplume wirelettuce
Tetradymia stenolepis—Mojave cottonthorn
Uropappus lindleyi—Lindley's silverpuffs

BORAGINACEAE—BORAGE FAMILY

Amsinckia douglasiana—Douglas' fiddleneck
Amsinckia menziesii—Menzies' fiddleneck
Cryptantha angustifolia—Panamint cryptantha
Cryptantha intermedia—Clearwater cryptantha
Harpaogonella palmeri—Palmer's grapplinghook
Nemophila menziesii—baby blue eyes
Phacelia crenulata var. *ambigua*—purplestem phacelia
Phacelia distans—distant phacelia
Phacelia fremontii—Fremont's phacelia
Phacelia tanacetifolia—lacy phacelia
Pholistoma membranaceum—white fiestaflower

BRASSICACEAE—MUSTARD FAMILY

- * *Hirschfeldia incana*—shortpod mustard
- * *Sisymbrium altissimum*—tall tumbledustard

CACTACEAE—CACTUS FAMILY

Cylindropuntia echinocarpa—Wiggins' cholla
Opuntia basilaris var. *basilaris*—beavertail pricklypear
Opuntia basilaris var. *brachyclada*—short-joint beavertail
Opuntia littoralis—coast prickly pear

CHENOPODIACEAE—GOOSEFOOT FAMILY

Atriplex argentea—silverscale saltbush
Atriplex canescens—fourwing saltbush
Chenopodium californicum—California goosefoot
Grayia spinosa—spiny hop sage

CUCURBITACEAE—GOURD FAMILY

Marah macrocarpa—Cucamonga manroot

EUPHORBIACEAE—SPURGE FAMILY

Euphorbia albomarginata—whitemargin sandmat

FABACEAE—LEGUME FAMILY

Acmispon glaber—deer weed

Acmispon maritimus var. *maritimus*—coastal bird's-foot trefoil

Acmispon parviflorus—desert deervetch

Lupinus bicolor—miniature lupine

GERANIACEAE—GERANIUM FAMILY

* *Erodium cicutarium*—redstem stork's bill

LAMIACEAE—MINT FAMILY

Salvia apiana—white sage

Salvia carduacea—thistle sage

Salvia columbariae—chia

Salvia dorrii var. *pilosa*—purple sage

Scutellaria mexicana—Mexican bladdersage

LOASACEAE—LOASA FAMILY

Mentzelia ravenii—no common name

MONTIACEAE—MONTIA FAMILY

Calyptridium monandrum—common pussypaws

NYCTAGINACEAE—FOUR O'CLOCK FAMILY

Mirabilis laevis var. *crassifolia*—California four o'clock

ONAGRACEAE—EVENING PRIMROSE FAMILY

Camissonia contorta—plains evening primrose

Eulobus californicus—California suncup

* *Oenothera biennis*—common evening primrose

OROBANCHACEAE—BROOM-RAPE FAMILY

Castilleja exserta ssp. *exserta*—exserted Indian paintbrush

PAPAVERACEAE—POPPY FAMILY

Eschscholzia californica—California poppy

Eschscholzia minutiflora—pygmy poppy

Platystemon californicus—creamcups

PLANTAGINACEAE—PLANTAIN FAMILY

Penstemon spectabilis—showy penstemon

POLEMONIACEAE—PHLOX FAMILY

Eriastrum densifolium—giant woollystar

POLYGONACEAE—BUCKWHEAT FAMILY

Eriogonum fasciculatum—California buckwheat

Rumex hymenosepalus—canaigre dock

RANUNCULACEAE—BUTTERCUP FAMILY

Delphinium parishii—desert larkspur

SOLANACEAE—NIGHTSHADE FAMILY

Lycium cooperi—peach thorn

Monocots

AGAVACEAE—AGAVE FAMILY

- * *Agave americana*—American century plant
- Hesperoyucca whipplei*—chaparral yucca

POACEAE—GRASS FAMILY

- * *Avena fatua*—wild oat
- Bromus carinatus*—California brome
- * *Bromus diandrus*—ripgut brome
- * *Bromus hordeaceus*—soft brome
- * *Bromus madritensis* ssp. *rubens*—red brome
- * *Bromus tectorum*—cheatgrass
- Elymus elymoides*—squirreltail
- Festuca microstachys*—small fescue
- Hordeum jubatum*—foxtail barley
- * *Hordeum murinum*—mouse barley
- Melica imperfecta*—smallflower melicgrass
- Poa secunda*—onesided bluegrass
- * *Schismus arabicus*—Arabian schismus
- Stipa speciosa*—desert needlegrass

THEMIDACEAE—BRODIAEA FAMILY

Dichelostemma capitatum ssp. *capitatum*—bluedicks

- * signifies introduced (non-native) species

Attachment 12

Appendix 3.2E - California Desert Native Plants Act
Survey Report

MEMORANDUM

To: Garrett Lehman, Prairie Song Reliability Project LLC
From: Michael Cady, Senior Biologist
Subject: California Desert Native Plant Act Survey Report–Prairie Song Reliability Project
Date: September 26, 2025
cc: Erin Philips-Dudek
Attachment: A. Figures

This letter report documents the results of the 2023 and 2025 focused surveys for plants covered by the California Desert Native Plant Act (CDNPA) that was conducted by Dudek for the Prairie Song Reliability Project in unincorporated Los Angeles County, California, as shown on Figure 1 (all figures are found in Attachment A). For the purposes of the focused surveys, the survey area encompasses the Project footprint and a 150-foot buffer (where accessible), as shown in Figure 2. The survey area within the overall Study Area of the Project was chosen because individuals of the species covered by the CDNPA could require removal.

California Desert Native Plant Act

The purpose of the CDNPA is to protect certain species of California desert native plants from unlawful harvesting on both public and privately owned lands. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of specific native desert plants unless a person has a valid permit or wood receipt, and the required tags and seals. The appropriate permits, tags and seals must be obtained from the county sheriff or commissioner of the county where collecting will occur, and the county will charge a fee. More information on the CDNPA, including the species protected under the law, is available by reading the provisions of the law.

All native plant species in the following families, genera, and species are protected under the CDNPA and shall not be harvested except under a permit issued by the commissioner or sheriff where the native plants are found:

1. All species of the family Agavaceae (century plants, nolinias, yuccas).
2. All species of the family Cactaceae (cacti), except for sahuaro cactus (*Carnegieia gigantea*) and barrel cactus (*Ferocactus acanthode*) which may be harvested under a permit for science or education purposes.
3. All species of the family Fouquieriaceae (ocotillo, candlewood).
4. All species of the genus *Prosopis* (mesquites).
5. All species of the genus *Cercidium* (palos verdes).
6. *Acacia greggii* (catclaw)
7. *Atriplex hymenelytra* (desert-holly)

8. *Dalea spinosa* (smoke tree)
9. *Olneya tesota* (desert ironwood), including both dead and live desert ironwood.

Study Area Conditions

The Project is in the western San Gabriel Mountains, in the Transverse Ranges Geomorphic Province (California Geological Survey 2002). The Transverse Ranges are an east-west trending series of steep mountains and valleys (California Geological Survey 2002). The Project is located at the conjunction of Soledad Canyon and Kentucky Springs Canyon (USGS 2022), and at the boundary of the Western Transverse Ranges ecological subregion and Mojave Desert ecological region (Jepson Flora Project 2025). Elevations in the Project range from approximately 2,700 feet above mean sea level along the southwestern side to 3,500 feet above mean sea level along the northern hillsides (Google 2025).

The Project has an arid climate with the site being located on the northern side of the San Gabriel Mountains and bordering the Antelope Valley. August is the average warmest month with an average high of 93 degrees Fahrenheit (°F) and December is the coolest month on average with a low of 36°F. Rainfall occurs primarily between November and April, with the maximum average precipitation occurring in February. The mean annual rainfall for the area is approximately nine inches of rain per year (LACPW 2025).

Methods

Dudek biologists Aleen Vartivarian, Luz Badillo, Zarina Pringle, and Josh Elson conducted surveys for the species covered under the CDNPA over three days in August 2025 within the survey area. Meandering transects were conducted to provide 100% coverage of the survey area. A GPS with sub-meter accuracy was used to map each individual.

Results

Four CDNPA-covered species were observed within the survey area: Wiggins' cholla (*Cylindropuntia echinocarpa*), chaparral yucca (*Hesperoyucca whipplei*), and beavertail prickly pear (*Opuntia basilaris* var. *basilaris*), as shown in Figure 2. Most recorded individuals were Wiggins' cholla with 1,118 within the 150-foot buffer. A total of 1,856 CDNPA-covered individuals were recorded throughout the survey area. Four short-joint beavertail (*Opuntia basilaris* var. *brachyclada*) were previously mapped in the Study Area, but are outside of the survey area, as shown in Figure 2.

Table 2. California Desert Native Plants Observed in the Survey Area

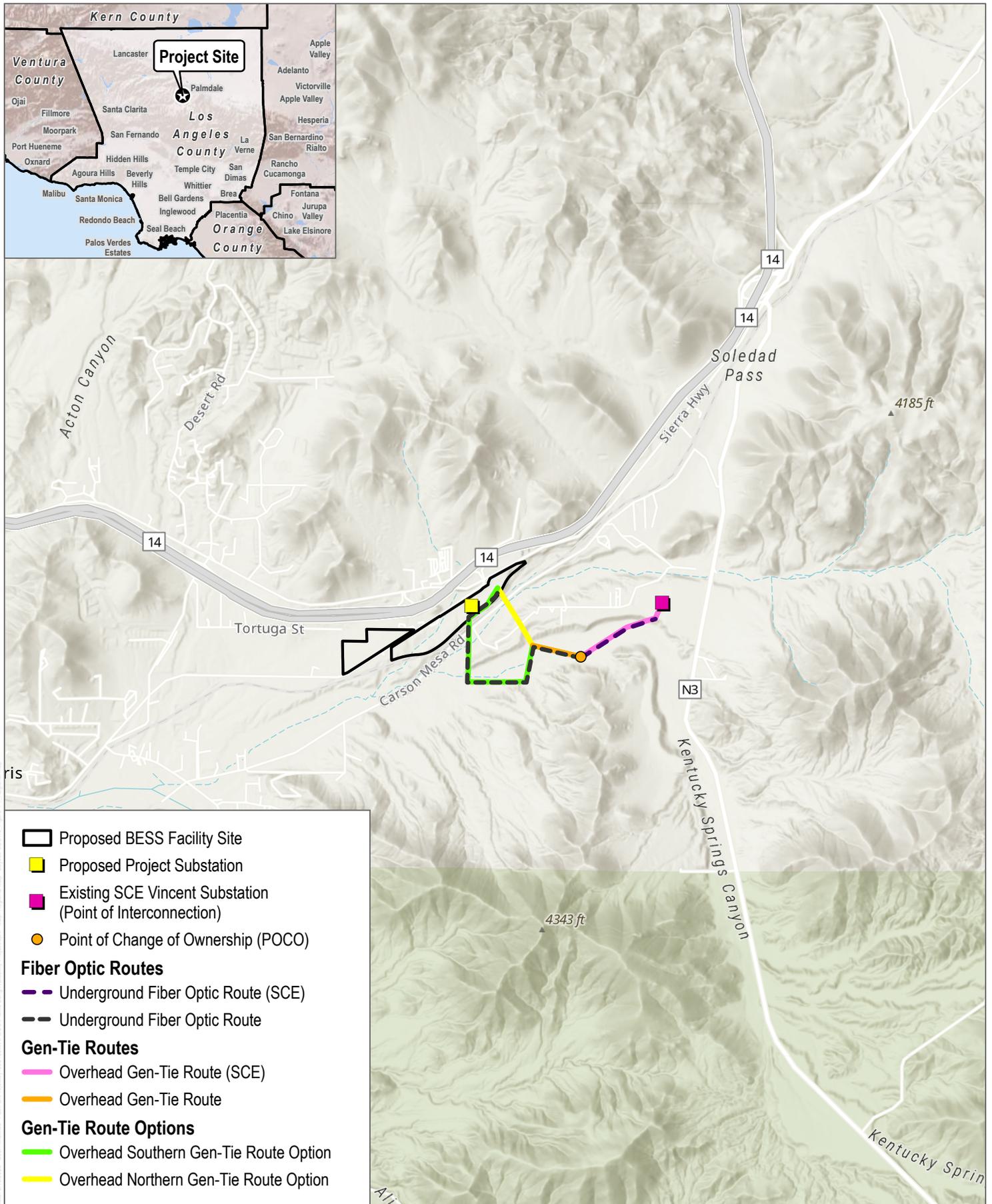
Scientific Name	Common Name	Number of Individuals
<i>Cylindropuntia echinocarpa</i>	Wiggins' cholla	1,118
<i>Hesperoyucca whipplei</i>	chaparral yucca	644
<i>Opuntia basilaris</i> var. <i>basilaris</i>	beavertail pricklypear	94
Grand Total		1,856

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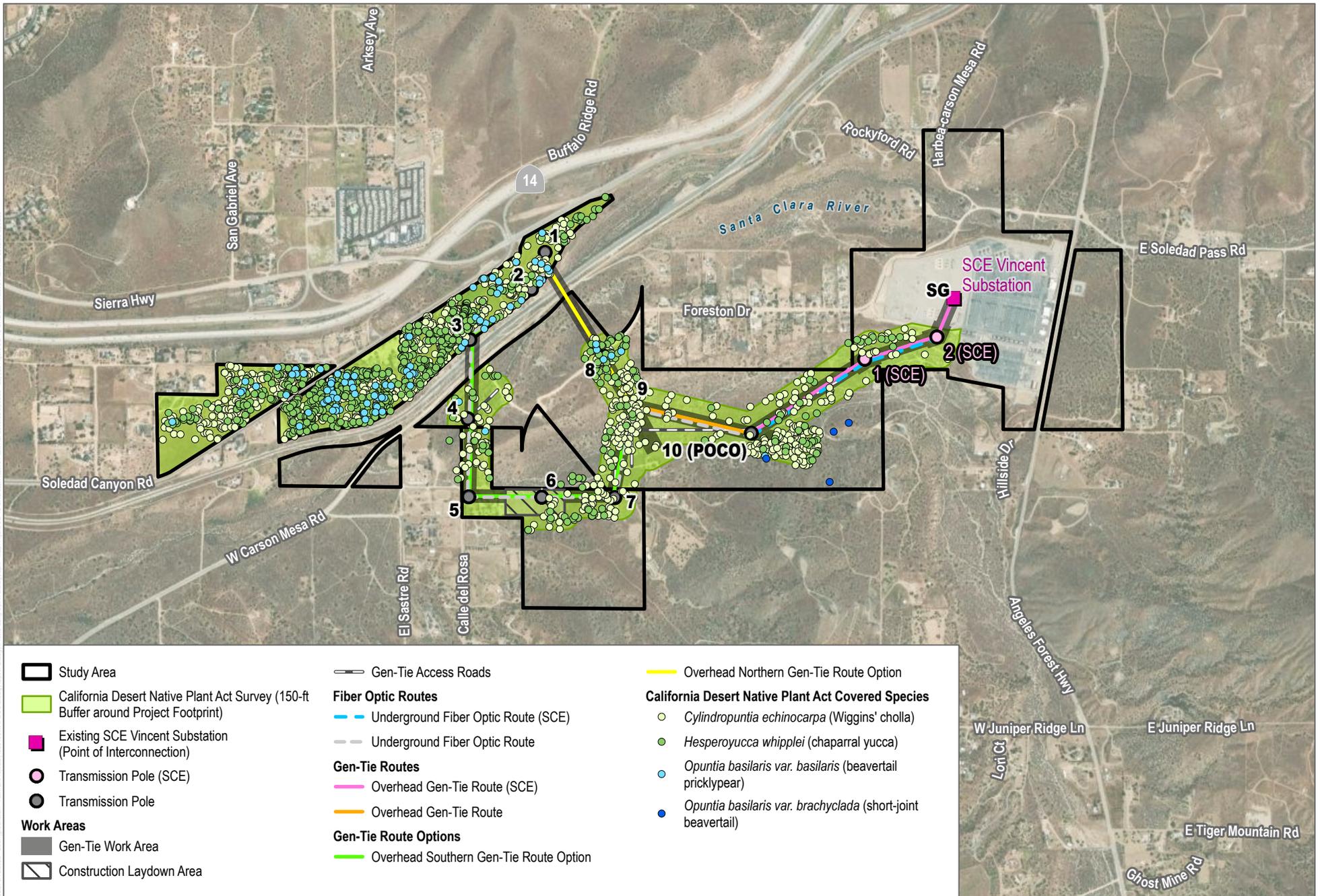
Attachment A

Figures



SOURCE: World Topographic

FIGURE 1
Project Location
Prairie Song Reliability Project



SOURCE: World Imagery

DUDEK



0 700 1,400 Feet

FIGURE 2
California Desert Native Plant Act Covered Species in the Survey Area

Prairie Song Reliability Project

Attachment 13

Appendix 3.2F – Crotch’s Bumble Bee Survey Report

MEMORANDUM

To: Garrett Lehman, Prairie Song Reliability Project LLC
From: Michael Cady, Senior Biologist
Subject: 2024 and 2025 Focused Crotch's Bumble Bee Survey Report-Prairie Song Reliability Project
Date: September 26, 2025
cc: Erin Philips-Dudek.
Attachment: A. Figures; B. Field Data Forms

This letter report documents the results of the 2024 and 2025 focused surveys conducted by Dudek for Crotch's bumble bee (CBB; *Bombus crotchii*). These surveys were conducted for the Prairie Song Reliability Project in unincorporated Los Angeles County, California, as shown on Figure 1, Project Location (Attachment A). For the purposes of the focused surveys, the Study Area (approximately 531 acres) encompasses the Project site parcels and a 100-foot buffer, as shown in Figure 2, Vegetation Communities and Land Cover (Attachment A).

Study Area Conditions

The Study Area is in the western San Gabriel Mountains, in the Transverse Ranges Geomorphic Province (California Geological Survey 2002). The Transverse Ranges are an east-west trending series of steep mountains and valleys (California Geological Survey 2002). The Study Area is located at the conjunction of Soledad Canyon and Kentucky Springs Canyon (USGS 2022), and at the boundary of the Western Transverse Ranges ecological subregion and Mojave Desert ecological region (Jepson Flora Project 2025). Elevations in the Study Area range from approximately 2,700 feet above mean sea level along the southwestern side to 3,500 feet above mean sea level along the northern hillsides (Google 2025).

The Study Area has an arid climate with the site being located on the northern side of the San Gabriel Mountains and bordering the Antelope Valley. August is the average warmest month with an average high of 93 degrees Fahrenheit (°F) and December is the coolest month on average with a low of 36 °F. Rainfall occurs primarily between November and April, with the maximum average precipitation occurring in February. The mean annual rainfall for the area is approximately 9 inches of rain per year (LACPW 2025).

Native Vegetation Communities

Vegetation communities and land covers mapped in the Study Area are shown Attachment B.

Big Sagebrush

Big sagebrush (*Artemisia tridentata* Alliance) has big sagebrush (*Artemisia tridentata*) as dominant or co-dominant in the shrub canopy with Acton's encelia (*Encelia actoni*), mormon tea (*Ephedra viridis*), and California buckwheat

(*Eriogonum fasciculatum*). Shrub canopy is open to continuous and emergent trees may be present at low cover. The herbaceous layer is usually sparse to intermittent and grassy. Habitat where big sagebrush occurs includes plains, alluvial fans, bajadas, pediments, lower slopes, valley bottoms, seasonal and perennial stream channels, and dry washes. Soils are well drained and consist of loam or sand. Three associations of the alliance were mapped within the Study Area: *Artemisia tridentata* Association, *Artemisia tridentata*-*Eriogonum fasciculatum* Association, and *Artemisia tridentata*-*Ericameria nauseosa* Association. These associations were found in the BESS and Southern Gen-tie portions of the Study Area.

Fiddleneck–Phacelia Fields

Fiddleneck–phacelia fields (*Amsinckia [menziesii, tessellata]*–*Phacelia* spp. Herbaceous Alliance) has Menzies' fiddleneck (*Amsinckia menziesii*), bristly fiddleneck (*Amsinckia tessellate*) and/or *Phacelia* spp. or other *Amsinckia* sp. as seasonally co-dominant in the herbaceous layer. Additional local species present include California saltbush (*Atriplex californica*), *Avena* spp., great brome (*Bromus diandrus*), soft brome (*Bromus hordeaceus*), red brome (*Bromus rubens*), purple owl's clover (*Castilleja exserta*), and *Erodium* spp. Emergent shrubs may be present at low cover. Fiddleneck–Phacelia fields can be found along upland slopes, broad valleys, ocean bluffs, grazed or recently burned hills, fallow fields. Soils are well drained and loamy, and they are often subject to high levels of disturbance. One association of the alliance, *Amsinckia menziesii*–*Erodium* spp., was mapped in the BESS portion of the Study Area.

Fourwing Saltbush Scrub

Fourwing saltbush scrub (*Atriplex canescens* Shrubland Alliance) has fourwing saltbush (*Atriplex canescens*) as dominant or co-dominant in the shrub canopy with burrobush (*Ambrosia dumosa*), cheesebush (*Ambrosia salsola*), spiny saltbush (*Atriplex confertifolia*), cattle spinach (*Atriplex polycarpa*), mormon tea, hop sage (*Grayia spinosa*), and creosote bush (*Larrea tridentata*). Emergent trees may be present at low cover. This alliance can be found along playas, old beach and shores, lake deposits, dissected alluvial fans, rolling hills or channel beds. Soils are carbonate rich, alkaline, sandy, or sandy clay loams. One association, *Atriplex canescens*, was mapped in the gen-tie portion of the Study Area.

Mormon Tea Scrub

Mormon tea scrub (*Ephedra viridis* Shrubland Alliance) has mormon tea as dominant or co-dominant in the shrub canopy with big sagebrush and rubber rabbitbrush (*Ericameria nauseosa*). Emergent trees may be present at low cover, including California juniper (*Juniperus californica*). This alliance can be found along ridges, hills, mountains, and channel beds. Soils are shallow derived from alluvium, granitic substrate, bedrock, colluvium. One association, *Ephedra viridis*, was mapped primarily in the BESS portion of the Study Area.

Rubber Rabbitbrush Scrub

Rubber rabbitbrush scrub (*Ericameria nauseosa* Shrubland Alliance) has rubber rabbitbrush as dominant or co-dominant in the shrub canopy with big sagebrush, *Ephedra* spp., and California buckwheat (*Eriogonum fasciculatum*). Emergent trees may be present at low cover, including California juniper. Rubber rabbitbrush can be found along all topographic settings, especially in disturbed settings. Soils are well-drained sands and gravels. Two associations *Ericameria nauseosa* and *Ericameria nauseosa*-*Juniperus californica*/herb, were mapped within the BESS and gen-tie portions of the Study Area.

California Juniper Woodland

California juniper woodland has California juniper as dominant or co-dominant in the small tree canopy with single-leaf pinyon (*Pinus monophyla*) and blue oak (*Quercus douglasii*). Local shrubs may include big sagebrush, *Ephedra* spp., chaparral yucca (*Hesperoyucca whipplei*), and scale broom (*Lepidospartum squamatum*). This alliance can be found along ridges, slopes, valleys, alluvial fans, and valley bottoms. Soils are porous, rocky, coarse, sandy, or silty, and are often very shallow. Three associations, *Juniperus californica*, *Juniperus californica-Adenostoma fasciculatum-Eriogonum fasciculatum*, and *Juniperus californica-Ericameria linearifolia*/annual-perennial herb, were mapped within the BESS and gen-tie portions of the Study Area.

Wild oats and Annual Brome Grasslands

Wild oats and annual brome grasslands (*Avena* spp.-*Bromus* spp. Herbaceous Semi-Natural Alliance) have slender oat (*Avena barbata*), common wild oat (*Avena fatua*), stiff brome (*Brachypodium distachyon*), greater quaking-grass (*Briza maxima*), great brome, soft brome (*Bromus hordeaceus*) and/or wall barley (*Hordeum murinum*) as dominant or co-dominant with other non-natives in the herbaceous layer. Emergent trees and shrubs may be present at low cover. Wild oats and annual brome grasslands can be found along all topographic settings in foothills, waste places, rangelands, and openings in woodlands. One association, *Bromus hordeaceus-Amsinckia menziesii-Hordeum murinum*, was mapped adjacent to the Vincent Substation in the Study Area.

Non-Natural Land Covers

Urban/Developed

This mapping unit describes areas supporting human-made structures, including homes, yards, sidewalks, and other highly modified lands supporting structures associated with dwellings or other permanent structures. Vegetation in these areas, if present at all, is typically associated with ornamental landscaping that has been included in the development footprint. Most of the developed lands in the Study Area included the large, paved substation and roads.

Disturbed Habitat

Disturbed habitat is described as areas generally lacking vegetation due to high levels of existing or historical human disturbance and are no longer recognizable as a native or naturalized vegetation association. Areas mapped as disturbed habitat may include unpaved roads, trails, and graded areas. Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species. Areas mapped as disturbed habitat were found throughout the Study Area and were usually associated with developments or infrastructure.

Crotch's Bumble Bee Background

CBB is one of several bumble bee species proposed (Xerces Society for Invertebrate Conservation 2018) for listing as endangered under California's Endangered Species Act. CBB is generally distributed through wildlands and rural areas in low to middle elevations (sea level to at least 6,000 feet) of California and exploits a wide range of habitats including native and exotic grasslands, coastal marshes, scrub lands, chaparral, oak-juniper woodlands, pinon woodlands, and desert transition vegetation (on western margins of the Mojave and Colorado deserts). The range

and overall abundance of the CBB is believed to have declined substantially over the last two decades (Hatfield et al. 2021, The Xerces Society for Invertebrate Conservation et al. 2018) due to habitat loss from urban and agricultural expansion, as well as the effects of herbicides (Motta et al. 2018) and insecticides (Whitehorn et al. 2012, Muth, F. and A. S. Leonard. 2019) in agricultural settings, especially in California's central valley.

Over recent centuries, competition for floral resources (as well as associated exotic diseases) from the introduced European honeybee (*Apis mellifera*) has likely led to a decline of many bumble bee species (and many other bees) across the western hemisphere. Like most bumble bees, CBB nest in cavities in the soil, often abandoned rodent burrows, and the adults (queens, workers, and males), active in the daytime, all visit nectar and pollen resources. The CBB utilize a diverse range of floral resources including those among Asclepiadaceae, Asteraceae, Boraginaceae, Brassicaceae, Ericaceae, Fabaceae, Hydrophyllaceae, Lamiaceae, Orobanchaceae, Plumbaginaceae, Polygonaceae, Scrophulariaceae, and Solanaceae families; and exhibit clear contextual preferences associated with flower species availability on any given time and location. Typically, *Asclepias* spp., *Salvia* spp., *Astragalus* spp., *Acmispon* spp., and *Vicia* spp. are among the preferred flowers by the species. Bumble bees commonly utilize floral resources 0.2 to 0.3 km from their nests, but may forage more than two kilometers from their nests (Osborne et al. 1999, Keyer et al., 2004). This vagility allows the bumble bees to utilize disconnected patches of suitable forage resources on such a landscape scale that populations may exist on habitat patches within a matrix of urban developed areas.

As the spring season progresses, workers (small female non-reproductive bees) are produced with increasing numbers and escalate the provisioning of the colony, which continues to grow until in early to mid-summer when new males (from unfertilized eggs) are produced along with the new generation of future queens. Workers and males live for only a few weeks. Thus, overall CBB numbers are highest (include workers and males) in late spring through mid-summer seasons, very low in fall and early spring (gynes only), and virtually undetectable during the overwintering season (when dormant underground).

Survey Methods

The surveys for Crotch's bumble bee (*Bombus crotchii*) were conducted in accordance with the CDFW survey guidance (CDFW 2023a). The survey passes were led by Callie Amoaku, who holds a Memorandum of Understanding (MOU) and Scientific Collecting Permit (SCP) to capture Crotch's bumble bee. Dudek conducted five protocol level surveys for Crotch's bumble bee spaced in June and July 2024 (June 12, July 1, July 2, July 23, and July 24), and two in April and May 2025 (April 16 and May 21), as summarized in Table 1. The surveys were split across two years because the project owner did not have access to the entire project gen-tie area during the 2024 surveys. The 2024 surveys were conducted from June through July, during the Colony Active Period of April through August, which according to CDFW guidelines had the highest detection period, and were spaced between two and four weeks apart. The three 2025 surveys, that covered the remainder of the project site and the battery energy storage system location, were conducted between April and June, which is during the Colony Active Period. The 2025 surveys were spaced four weeks apart to cover a wider period during the Colony Active Period while also meeting recommended guidelines.

The surveys were conducted by qualified biologists with experience in surveying for Crotch's bumble bee. Surveys occurred after sunrise and three hours before sunset and were not conducted during wet conditions (e.g., foggy, raining, or drizzling) or windy conditions (i.e., sustained winds greater than eight (8) mph). The surveys were conducted during optimal conditions when there were sunny to partly sunny skies that were greater than 60°

Fahrenheit. Suitable habitat within the Study Area was visually surveyed for one person-hour per three acres of potential habitat. Biologists walked wandering transects through these resources with a goal of observing bumble bees in passing and observing bumble bee nest sites associated with small mammal burrow or other appropriate soil cavities. Field data forms are included as Attachment B.

Table 1. Schedule of Surveys

Date	Hours	Personnel	Conditions (temperature, cloud cover, wind speed)
6/12/2024	9:30 AM–10:17 AM	Anna Cassady, Callie Amoaku ¹ , Kimberly Narel, Sony Leming	74–80 °F; 0% cloud cover; 0–4 mph wind
7/1/2024	7:41 AM–1:34 PM	Joshua Elson, Luz Badillo, Dahlia Serrato	73–90 °F; 0% cloud cover; 0–8 mph wind
7/2/2024	7:02 AM–9:07 AM	Joshua Elson	70–81 °F; 1–7 mph wind
7/23/2024	7:18 AM–11:01 AM	Luz Badillo	80–95 °F; 0% cloud cover; 0–2 mph wind
7/24/2024	7:27 AM–10:54 AM	Luz Badillo	80–95 °F; 0–50% cloud cover; 0–1 mph wind
4/16/2025	8:21 AM–1:08 PM	Callie Amoaku, Eileen Salas	48–59 °F; 30–100% cloud cover; 0–3 mph wind
5/21/2025	8:21 AM–1:08 PM	Callie Amoaku, Eileen Salas	59–71 °F; 0% cloud cover; 0–1 mph wind
6/30/2025	9:16 AM–1:30 PM	Eileen Salas, Luz Badillo	79–86 °F; 0% cloud cover;

Note:

¹ Memorandum of Understanding (MOU) and Scientific Collecting Permit (SCP) No. 221820002-22332-001

Results

No bumble bees were observed during the 2024 and 2025 focused surveys, including CBB. Common invertebrates were observed during the surveys, including common buckeye (*Junonia coenia*) and cabbage white (*Pieris rapae*).

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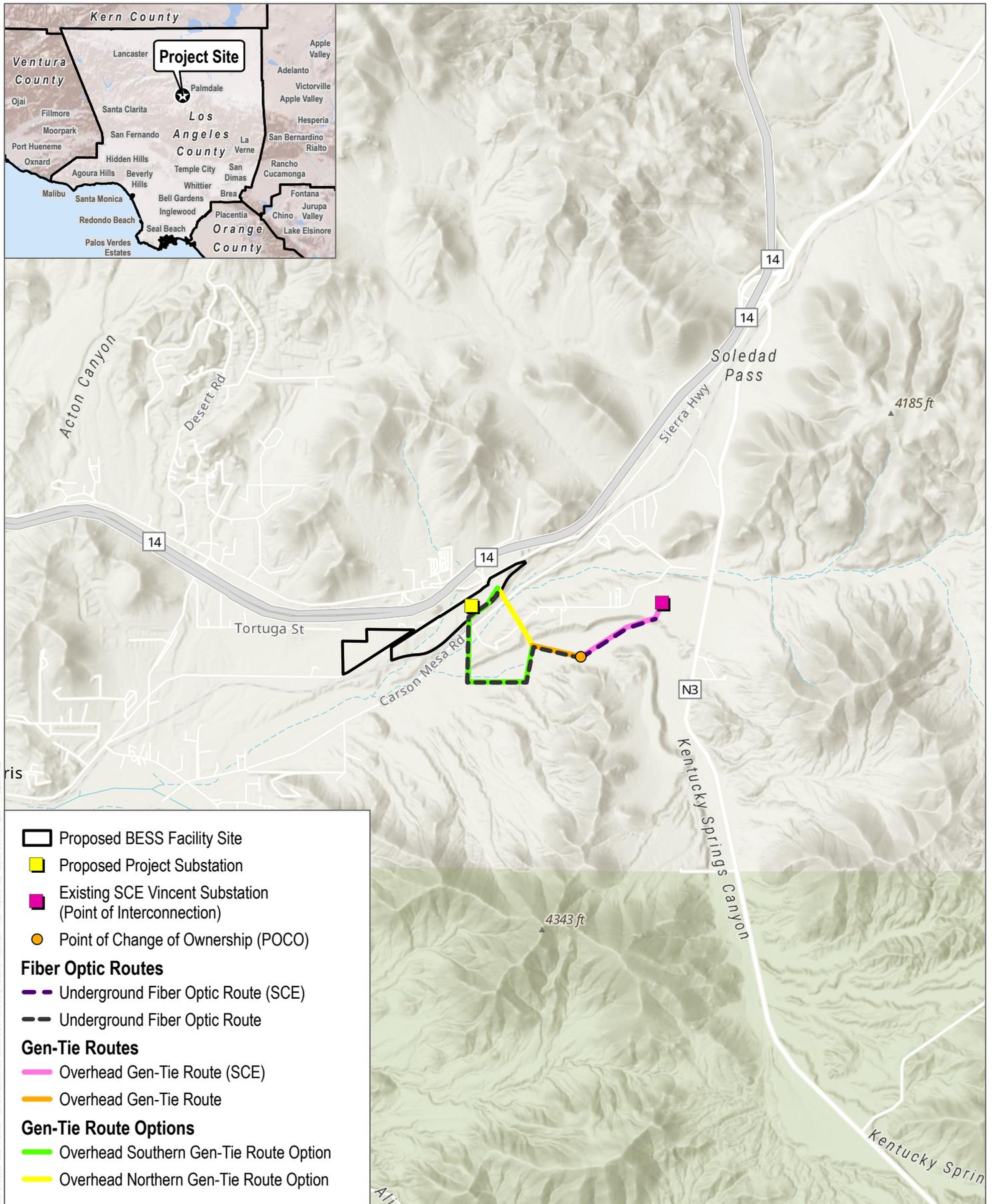
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Attachment A

Figures



- Proposed BESS Facility Site
- Proposed Project Substation
- Existing SCE Vincent Substation (Point of Interconnection)
- Point of Change of Ownership (POCO)

Fiber Optic Routes

- Underground Fiber Optic Route (SCE)
- Underground Fiber Optic Route

Gen-Tie Routes

- Overhead Gen-Tie Route (SCE)
- Overhead Gen-Tie Route

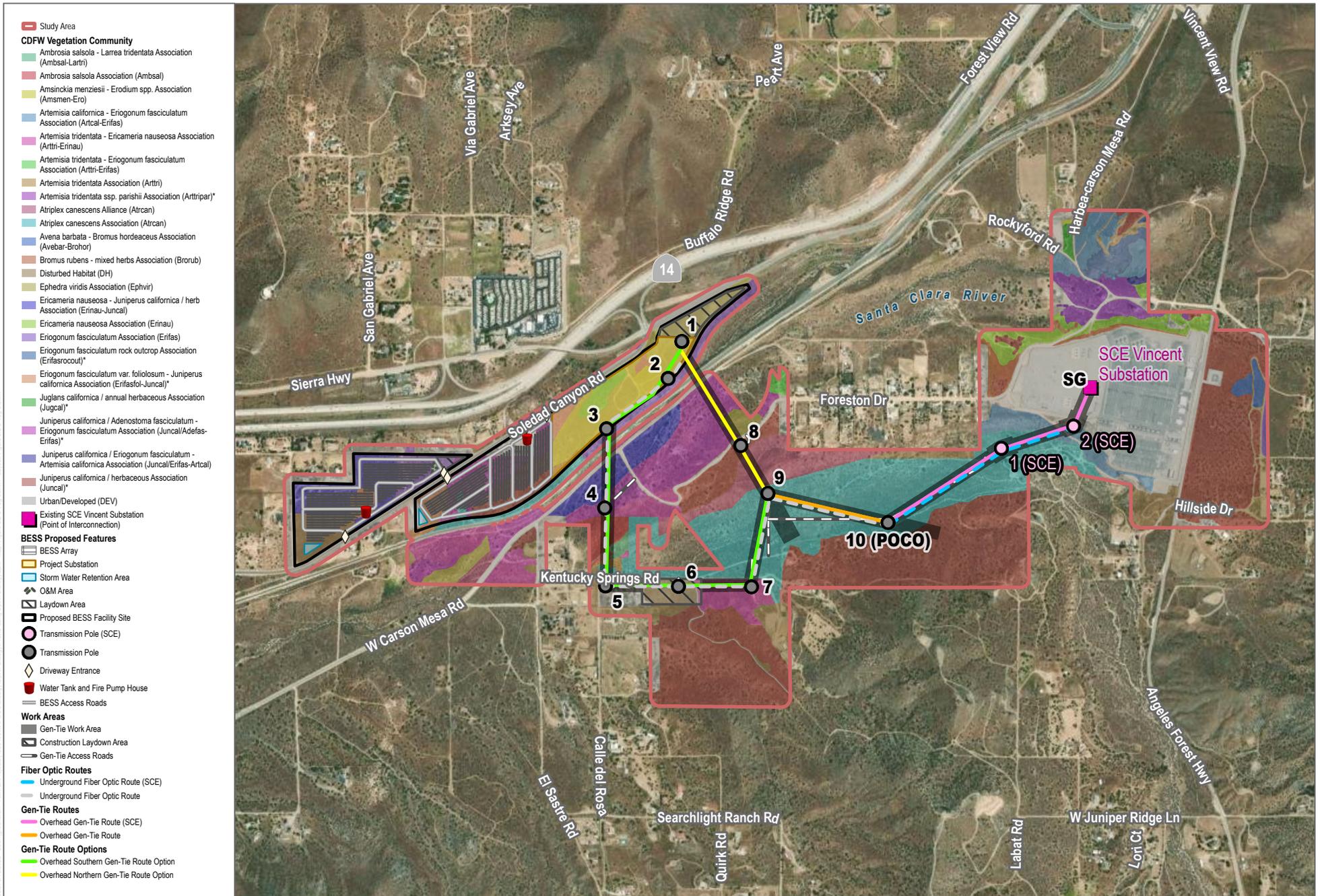
Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option
- Overhead Northern Gen-Tie Route Option

SOURCE: World Topographic



FIGURE 1
Project Location
Prairie Song Reliability Project



SOURCE: World Imagery



Figure 2
Vegetation Communities and Land Cover
Prairie Song Reliability Project

Attachment B

Field Data Forms

Bio Field Data

Record: 42555

Date	2024-06-12
Biologist	Anna Cassady, Callie Amoaku, Kimberly Narel, Sony Leming
Project	Angeleno
Survey Area	Along tracks where some Erifas and Acmgla were in
Survey Type	Bumble Bee
Time	9:30 AM-10:17 AM
Conditions	74-80°F; 0% cloud cover; 0-4 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	09:30:00
TEMPERATURE	°F
Air Temp	74
Air Temp	74
Soil Temp	0
Water Temp	0
Visibility	

Humidity	
Cloud Cover	0
WIND	mph
Minimum Wind Speed (mph)	0

Survey Conditions	
Status	End
Time	10:17:00
TEMPERATURE	°F
Air Temp	80
Air Temp	80
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Minimum Wind Speed (mph)	0

Bumble Bee	
Survey Pass	0
Habitat Type(s)	
Describe Surrounding Habitat	Rural residential, dirt roads, train tracks, undeveloped
How much of Survey Area has flowering resources available?	0%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	Rodent burrows, bare ground, logs
Anthropogenic Disturbance	Roads
List up to 10 species in bloom	Eriastrum, Erifas, a few Acmgla. Overall there is less than 1% of flowering plants on site during June 2024 site visit. Recommend surveys in March - May 2025
Bumble bee observed	No

Wildlife List	
Species Name	(), B-GRRO

Wildlife List	
Species Name	(), B-

Wildlife List	
Species Name	(), M-BTJR

Wildlife List

Species Name

(), *M-WTAS*

Wildlife List

Species Name

(), *I-COBU*

Wildlife List

Species Name

(), *I-CAWH*

Wildlife List

Species Name

(), *B-RTHA*

Wildlife List

Species Name

(), *B-CORA*

Bio Field Data

Record: 43461

Date	2024-07-01
Biologist	Dahlia Serrato, Josh Elson, Luz Badillo
Project	Angeleno
Survey Area	Entire Site
Survey Type	Bumble Bee
Time	7:41 AM-1:34 PM
Conditions	73-90°F; 0% cloud cover; 0-8 mph wind
Visit Type	
Wildlife Species Count Summary	
Notes	Only listed species in bloom at the time of the survey
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	07:41:00
TEMPERATURE	°F
Air Temp	73
Air Temp	73
Soil Temp	0
Water Temp	0

Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Minimum Wind Speed (mph)	0

Survey Conditions	
Status	End
Time	13:34:00
TEMPERATURE	°F
Air Temp	90
Air Temp	90
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Minimum Wind Speed (mph)	1

Bumble Bee	
Survey Pass	2
Habitat Type(s)	Shrub / Scrub, Developed / Roadside
Describe Surrounding Habitat	Developed, shrub, disturbed, non-native grassland, rocky outcrop
How much of Survey Area has flowering resources available?	10%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	Bunch grasses, burrows, rock piles, bare soil
Anthropogenic Disturbance	Dirt road, bike trails, homes, fencing, debris
How many different species of flowers (incl. trees and shrubs) are in bloom in the survey area (whether they were visited by bumble bee or not)?	12
List up to 10 species in bloom	Erifas, senfla, steexi, eriden, les gla, saldor, penspe, encfar, encact, atrcan
Bumble bee observed	No

Wildlife List	
Common Name	desert cottontail
Species Name	desert cottontail (<i>Sylvilagus audubonii</i>), M-DECO
Scientific Name	<i>Sylvilagus audubonii</i>
Federal and State Status	None/None

Wildlife List	
Common Name	common raven
Species Name	common raven (<i>Corvus corax</i>), B-CORA
Scientific Name	<i>Corvus corax</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>bushitit</i>
Species Name	<i>bushitit (Psaltriparus minimus), B-BUSH</i>
Scientific Name	<i>Psaltriparus minimus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>house sparrow</i>
Species Name	<i>house sparrow (Passer domesticus), B-HOSP</i>
Scientific Name	<i>Passer domesticus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>red-tailed hawk</i>
Species Name	<i>red-tailed hawk (Buteo jamaicensis), B-RTHA</i>
Scientific Name	<i>Buteo jamaicensis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>tiger whiptail</i>
Species Name	<i>tiger whiptail (Aspidoscelis tigris), R-TIWH</i>
Scientific Name	<i>Aspidoscelis tigris</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>Costa's hummingbird</i>
Species Name	<i>Costa's hummingbird (Calypte costae), B-COHU</i>
Scientific Name	<i>Calypte costae</i>
Federal and State Status	<i>BCC/None</i>

Wildlife List	
Common Name	<i>loggerhead shrike</i>
Species Name	<i>loggerhead shrike (Lanius ludovicianus), B-LOSH</i>
Scientific Name	<i>Lanius ludovicianus</i>
Federal and State Status	<i>None/SSC</i>

Wildlife List	
Common Name	<i>house finch</i>
Species Name	<i>house finch (Haemorhous mexicanus), B-HOFI</i>
Scientific Name	<i>Haemorhous mexicanus</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>black-tailed jackrabbit</i>
Species Name	<i>black-tailed jackrabbit (Lepus californicus), M-BTJR</i>
Scientific Name	<i>Lepus californicus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California ground squirrel</i>
Species Name	<i>California ground squirrel (Otospermophilus beecheyi), M-CAGS</i>
Scientific Name	<i>Otospermophilus beecheyi</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California thrasher</i>
Species Name	<i>California thrasher (Toxostoma redivivum), B-CATH</i>
Scientific Name	<i>Toxostoma redivivum</i>
Federal and State Status	<i>BCC/None</i>

Wildlife List

Common Name	<i>common side-blotched lizard</i>
Species Name	<i>common side-blotched lizard (Uta stansburiana), R-CSBL</i>
Scientific Name	<i>Uta stansburiana</i>
Federal and State Status	<i>None/None</i>

Plant List (CA)

Species code	<i>Senfla</i>
Scientific Name	<i>Senecio flaccidus</i>
Observation ID (Copy and paste into Collector)	<i>07010757LB-01-01</i>
Common Name	<i>threadleaf ragwort</i>

Plant List (CA)

Species code	<i>Hirinc</i>
Scientific Name	<i>Hirschfeldia incana</i>
Observation ID (Copy and paste into Collector)	<i>07010757LB-02-02</i>
Common Name	<i>shortpod mustard</i>
Synonyms	<i>syn: Brassica geniculata (Desf.) Benth.</i>

Plant List (CA)	
Species code	<i>Erifas</i>
Scientific Name	<i>Eriogonum fasciculatum</i>
Observation ID (Copy and paste into Collector)	07010758LB-03-03
Common Name	California buckwheat

Plant List (CA)	
Species code	<i>Steexi</i>
Scientific Name	<i>Stephanomeria exigua</i>
Observation ID (Copy and paste into Collector)	07010810LB-04-04
Common Name	small wirelettuce

Plant List (CA)	
Species code	<i>Eriden</i>
Scientific Name	<i>Eriastrum densifolium</i>
Observation ID (Copy and paste into Collector)	07010828LB-05-05
Common Name	giant woollystar

Plant List (CA)	
Species code	<i>Lesgla</i>
Scientific Name	<i>Lessingia glandulifera</i>
Observation ID (Copy and paste into Collector)	07010921LB-06-06

Common Name	<i>valley lessingia</i>
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Plant List (CA)	
Species code	<i>Saldor</i>
Scientific Name	<i>Salvia dorrii</i>
Observation ID (Copy and paste into Collector)	07010948LB-07-07
Common Name	<i>purple sage</i>

Plant List (CA)	
Species code	<i>Penspe</i>
Scientific Name	<i>Penstemon spectabilis</i>
Observation ID (Copy and paste into Collector)	07011311LB-08-08
Common Name	<i>showy penstemon</i>

Plant List (CA)	
Species code	<i>Encfar</i>
Scientific Name	<i>Encelia farinosa</i>
Observation ID (Copy and paste into Collector)	07011330LB-09-09
Common Name	<i>brittle bush</i>

Plant List (CA)	
Species code	<i>Atrcan</i>
Scientific Name	<i>Atriplex canescens</i>
Observation ID (Copy and paste into Collector)	07011330LB-10-10
Common Name	<i>fourwing saltbush</i>
Synonyms	<i>syn: Calligonum canescens Pursh; syn: Atriplex nuttallii S. Watson</i>

Plant List (CA)	
Species code	<i>Stepau</i>
Scientific Name	<i>Stephanomeria pauciflora</i>
Observation ID (Copy and paste into Collector)	07021040LB-11-11
Common Name	<i>brownplume wirelettuce</i>
Synonyms	<i>syn: Stephanomeria pauciflora var. parishii (Jeps.) Munz; syn: Stephanomeria runcinata Nutt. var. parishii Jeps.</i>

Plant List (CA)	
Species code	<i>Encact</i>
Scientific Name	<i>Encelia actoni</i>
Observation ID (Copy and paste into Collector)	07031230LB-12-12
Common Name	<i>Acton's brittle brush</i>

Photos

Type	Photo
Photo	 <p> ☀ 88°E (T) 📍 34°29'10"N, 118°7'56"W ±13ft ▲ 3128ft 01 Jul 2024, 08:49:15 </p>
Description	Potential nesting site

Bio Field Data

Record: 43458

Date	2024-07-02
Biologist	Josh Elson
Project	Angeleno
Survey Area	Two square parcels of study area
Survey Type	Bumble Bee
Time	7:02 AM-9:07 AM
Conditions	70-81°F; 1-7 mph wind
Visit Type	
Wildlife Species Count Summary	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	07:02:00
TEMPERATURE	°F
Air Temp	70
Air Temp	70
Soil Temp	0
Water Temp	0

Visibility	
Humidity	
WIND	<i>mph</i>
Minimum Wind Speed (mph)	1

Survey Conditions	
Status	<i>End</i>
Time	09:07:00
TEMPERATURE	°F
Air Temp	81
Air Temp	81
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	<i>mph</i>
Minimum Wind Speed (mph)	2

Bumble Bee	
Survey Pass	2
Habitat Type(s)	<i>Shrub / Scrub, Developed / Roadside, Disturbed</i>
Describe Surrounding Habitat	<i>Project site is located within an ecotone between montane chaparral and desert vegetation. Surrounding habitat consists of shrub land, and developed/disturbed areas associated with homes and roads</i>
How much of Survey Area has flowering resources available?	10%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	<i>Rodent hotels/tunnels, brush piles, bare soil</i>
Anthropogenic Disturbance	<i>Survey area mainly undisturbed besides several fences passing through site and nearby homes and substation</i>
How many different species of flowers (incl. trees and shrubs) are in bloom in the survey area (whether they were visited by bumble bee or not)?	10
List up to 10 species in bloom	<i>Stephanomeria exigua, stephanomeria pauciflora, erigonum fasciculatum, senecio flaccidus, eriastrum densiflorum</i>
Bumble bee observed	No

Wildlife List	
Common Name	<i>northern mockingbird</i>
Species Name	<i>northern mockingbird (Mimus polyglottos), B-NOMO</i>
Scientific Name	<i>Mimus polyglottos</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>mourning dove</i>
Species Name	<i>mourning dove (Zenaida macroura)</i> , B-MODO
Scientific Name	<i>Zenaida macroura</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>house finch</i>
Species Name	<i>house finch (Haemorhous mexicanus)</i> , B-HOFI
Scientific Name	<i>Haemorhous mexicanus</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>California scrub-jay</i>
Species Name	<i>California scrub-jay (Aphelocoma californica)</i> , B-CASJ
Scientific Name	<i>Aphelocoma californica</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>cactus wren</i>
Species Name	<i>cactus wren (Campylorhynchus brunneicapillus)</i> , B-CACW
Scientific Name	<i>Campylorhynchus brunneicapillus</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>common raven</i>
Species Name	<i>common raven (Corvus corax), B-CORA</i>
Scientific Name	<i>Corvus corax</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>red-tailed hawk</i>
Species Name	<i>red-tailed hawk (Buteo jamaicensis), B-RTHA</i>
Scientific Name	<i>Buteo jamaicensis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California quail</i>
Species Name	<i>California quail (Callipepla californica), B-CAQU</i>
Scientific Name	<i>Callipepla californica</i>
Federal and State Status	<i>None/None</i>

Plant List (CA)	
Species code	<i>Erifas</i>
Scientific Name	<i>Eriogonum fasciculatum</i>
Observation ID (Copy and paste into Collector)	07031217JE-01-01
Common Name	California buckwheat

Plant List (CA)	
Species code	<i>Senfla</i>
Scientific Name	<i>Senecio flaccidus</i>
Observation ID (Copy and paste into Collector)	07031217JE-02-02
Common Name	threadleaf ragwort

Plant List (CA)	
Species code	<i>Steexi</i>
Scientific Name	<i>Stephanomeria exigua</i>
Observation ID (Copy and paste into Collector)	07031217JE-03-03
Common Name	small wirelettuce

Plant List (CA)	
Species code	<i>Stepau</i>
Scientific Name	<i>Stephanomeria pauciflora</i>
Observation ID (Copy and paste into Collector)	07031217JE-04-04

Common Name	<i>brownplume wirelettuce</i>
Synonyms	<i>syn: Stephanomeria pauciflora var. parishii (Jeps.) Munz; syn: Stephanomeria runcinata Nutt. var. parishii Jeps.</i>

Plant List (CA)	
Species code	<i>Eriden</i>
Scientific Name	<i>Eriastrum densifolium</i>
Observation ID (Copy and paste into Collector)	07031217JE-05-05
Common Name	<i>giant woollystar</i>

Plant List (CA)	
Species code	<i>Encact</i>
Scientific Name	<i>Encelia actoni</i>
Observation ID (Copy and paste into Collector)	07031218JE-06-06
Common Name	<i>Acton's brittle brush</i>

Plant List (CA)	
Species code	<i>Lesgla</i>
Scientific Name	<i>Lessingia glandulifera</i>
Observation ID (Copy and paste into Collector)	07031219JE-07-07
Common Name	<i>valley lessingia</i>

Bio Field Data

Record: 44157

Date	2024-07-23
Biologist	Luz Badillo
Project	Angeleno
Topics Reviewed:	Hydration; bee allergy; PPE; be vigilant of neighbors; rattlesnakes
Survey Area	Entire Site
Survey Type	Bumble Bee
Time	7:18 AM–11:01 AM
Conditions	80–95°F; 0% cloud cover; 0–2 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	07:18:00
TEMPERATURE	°F
Air Temp	80
Air Temp	80
Soil Temp	0
Water Temp	0

Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Survey Conditions	
Status	End
Time	11:01:00
TEMPERATURE	°F
Air Temp	95
Air Temp	95
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Minimum Wind Speed (mph)	0

Bumble Bee

Survey Pass	2
Survey Area #	
Habitat Type(s)	<i>Non-Native Grassland, Shrub / Scrub, Developed / Roadside, Disturbed</i>
Describe Surrounding Habitat	<i>Developed, disturbed, NNG, scrub, rock outcrop</i>
How much of Survey Area has flowering resources available?	10%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	<i>Rodent burrows, bare ground, rock piles</i>
Anthropogenic Disturbance	<i>Dirt road, residential areas, cell towers</i>
How many different species of flowers (incl. trees and shrubs) are in bloom in the survey area (whether they were visited by bumble bee or not)?	8
List up to 10 species in bloom	<i>Erifas, atriplex, steexi, lesгла, eriden, stepau, croset, senfla</i>
Bumble bee observed	No

Wildlife List

Common Name	<i>desert cottontail</i>
Species Name	<i>desert cottontail (Sylvilagus audubonii), M-DECO</i>
Scientific Name	<i>Sylvilagus audubonii</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>greater roadrunner</i>
Species Name	<i>greater roadrunner (Geococcyx californianus), B-GRRO</i>
Scientific Name	<i>Geococcyx californianus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>black-tailed jackrabbit</i>
Species Name	<i>black-tailed jackrabbit (Lepus californicus), M-BTJR</i>
Scientific Name	<i>Lepus californicus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>common side-blotched lizard</i>
Species Name	<i>common side-blotched lizard (Uta stansburiana), R-CSBL</i>
Scientific Name	<i>Uta stansburiana</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>mourning dove</i>
Species Name	<i>mourning dove (Zenaida macroura), B-MODO</i>
Scientific Name	<i>Zenaida macroura</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>California towhee</i>
Species Name	<i>California towhee (Melospiza crissalis), B-CALT</i>
Scientific Name	<i>Melospiza crissalis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>common raven</i>
Species Name	<i>common raven (Corvus corax), B-CORA</i>
Scientific Name	<i>Corvus corax</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California ground squirrel</i>
Species Name	<i>California ground squirrel (Otospermophilus beecheyi), M-CAGS</i>
Scientific Name	<i>Otospermophilus beecheyi</i>
Federal and State Status	<i>None/None</i>

Bio Field Data

Record: 44184

Date	2024-07-24
Biologist	Luz Badillo
Project	Angeleno
Topics Reviewed:	Hydration; bee allergy; PPE; be vigilant of neighbors; rattlesnakes
Survey Area	Entire Site
Survey Type	Bumble Bee
Time	7:27 AM–10:54 AM
Conditions	80–95°F; 0–50% cloud cover; 0–1 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	07:27:00
TEMPERATURE	°F
Air Temp	80
Air Temp	80
Soil Temp	0
Water Temp	0

Visibility	
Humidity	
Cloud Cover	50
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Survey Conditions	
Status	End
Time	10:54:00
TEMPERATURE	°F
Air Temp	95
Air Temp	95
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Bumble Bee

Survey Pass	2
Survey Area #	
Habitat Type(s)	<i>Non-Native Grassland, Shrub / Scrub, Developed / Roadside, Disturbed</i>
Describe Surrounding Habitat	<i>Developed, disturbed, NNG, scrub, rock outcrop</i>
How much of Survey Area has flowering resources available?	10%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	<i>Rodent burrows, bare ground</i>
Anthropogenic Disturbance	<i>Dirt road, residential areas, cell towers, fences</i>
How many different species of flowers (incl. trees and shrubs) are in bloom in the survey area (whether they were visited by bumble bee or not)?	7
List up to 10 species in bloom	<i>Erifas, atriplex, steexi, les gla, eriden, stepau, croset</i>
Bumble bee observed	No

Wildlife List

Common Name	<i>desert cottontail</i>
Species Name	<i>desert cottontail (Sylvilagus audubonii), M-DECO</i>
Scientific Name	<i>Sylvilagus audubonii</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>black-tailed jackrabbit</i>
Species Name	<i>black-tailed jackrabbit (Lepus californicus)</i> , M-BTJR
Scientific Name	<i>Lepus californicus</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>mourning dove</i>
Species Name	<i>mourning dove (Zenaida macroura)</i> , B-MODO
Scientific Name	<i>Zenaida macroura</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>common raven</i>
Species Name	<i>common raven (Corvus corax)</i> , B-CORA
Scientific Name	<i>Corvus corax</i>
Federal and State Status	None/None

Wildlife List	
Common Name	<i>California quail</i>
Species Name	<i>California quail (Callipepla californica)</i> , B-CAQU
Scientific Name	<i>Callipepla californica</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>American crow</i>
Species Name	<i>American crow (Corvus brachyrhynchos), B-AMCR</i>
Scientific Name	<i>Corvus brachyrhynchos</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>red-tailed hawk</i>
Species Name	<i>red-tailed hawk (Buteo jamaicensis), B-RTHA</i>
Scientific Name	<i>Buteo jamaicensis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>cactus wren</i>
Species Name	<i>cactus wren (Campylorhynchus brunneicapillus), B-CACW</i>
Scientific Name	<i>Campylorhynchus brunneicapillus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>Say's phoebe</i>
Species Name	<i>Say's phoebe (Sayornis saya), B-SAPH</i>
Scientific Name	<i>Sayornis saya</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>northern mockingbird</i>
Species Name	<i>northern mockingbird (Mimus polyglottos), B-NOMO</i>
Scientific Name	<i>Mimus polyglottos</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California towhee</i>
Species Name	<i>California towhee (Melozone crissalis), B-CALT</i>
Scientific Name	<i>Melozone crissalis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>coyote</i>
Species Name	<i>coyote (Canis latrans), M-COYO</i>
Scientific Name	<i>Canis latrans</i>

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>common side-blotched lizard</i>
Species Name	<i>common side-blotched lizard (Uta stansburiana), R-CSBL</i>
Scientific Name	<i>Uta stansburiana</i>
Federal and State Status	<i>None/None</i>

Bio Field Data

Record: 48388

Date	2025-04-16
Biologist	Callie Amoaku, Eileen Salas
Project	Angeleno
Topics Reviewed:	Hostile property owners / public, Vehicular traffic
Completion of G-A-R Assessment	Yes
Survey Area	Entire Site
Survey Type	Bumble Bee, Reconnaissance
Time	8:21 AM-1:08 PM
Conditions	48-59°F; 30-100% cloud cover; 0-3 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	End
Time	13:08:00
TEMPERATURE	°F
Air Temp	59
Air Temp	59
Soil Temp	0

Water Temp	0
Visibility	
Humidity	
Cloud Cover	30
WIND	mph
Minimum Wind Speed (mph)	1

Bumble Bee	
Survey Pass	0
Survey Area #	Entire Site
Habitat Type(s)	Non-Native Grassland, Shrub / Scrub, Developed / Roadside, Disturbed
Describe Surrounding Habitat	Rural residential
How much of Survey Area has flowering resources available?	0%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	Small mammal burrows, brush piles
Anthropogenic Disturbance	Trash
List up to 10 species in bloom	Ericameria linearifolia, Erodium cic, Amsinckia, Lycium cooperi, Sisalt - all sparse and just budding or starting to bloom
Bumble bee observed	No

Bio Field Data

Record: 48257

Date	2025-04-16
Biologist	Callie Amoaku, Eileen Salas
Project	Angeleno
Topics Reviewed:	Hostile property owners / public, Vehicular traffic
Survey Area	Entire Site
Survey Type	Bumble Bee
Time	8:21 AM–1:08 PM
Conditions	48–59°F; 30–100% cloud cover; 0–3 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	08:21:00
TEMPERATURE	°F
Air Temp	48
Air Temp	48
Soil Temp	0
Water Temp	0

Visibility	
Humidity	
Cloud Cover	100
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Wildlife List	
Common Name	<i>California scrub-jay</i>
Species Name	<i>California scrub-jay (Aphelocoma californica), B-CASJ</i>
Scientific Name	<i>Aphelocoma californica</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>mourning dove</i>
Species Name	<i>mourning dove (Zenaida macroura), B-MODO</i>
Scientific Name	<i>Zenaida macroura</i>
Federal and State Status	<i>None/None</i>

Wildlife List

Common Name	<i>common raven</i>
Species Name	<i>common raven (Corvus corax), B-CORA</i>
Scientific Name	<i>Corvus corax</i>
Federal and State Status	<i>None/None</i>

Wildlife List

Common Name	<i>western kingbird</i>
Species Name	<i>western kingbird (Tyrannus verticalis), B-WEKI</i>
Scientific Name	<i>Tyrannus verticalis</i>
Federal and State Status	<i>None/None</i>

Wildlife List

Common Name	<i>black-tailed jackrabbit</i>
Species Name	<i>black-tailed jackrabbit (Lepus californicus), M-BTJR</i>
Scientific Name	<i>Lepus californicus</i>
Federal and State Status	<i>None/None</i>

Wildlife List

Common Name	<i>red-tailed hawk</i>
Species Name	<i>red-tailed hawk (Buteo jamaicensis), B-RTHA</i>
Scientific Name	<i>Buteo jamaicensis</i>

Federal and State Status	None/None
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Wildlife List	
Common Name	California thrasher
Species Name	California thrasher (<i>Toxostoma redivivum</i>), B-CATH
Scientific Name	<i>Toxostoma redivivum</i>
Federal and State Status	BCC/None

Wildlife List	
Common Name	white-crowned sparrow
Species Name	white-crowned sparrow (<i>Zonotrichia leucophrys</i>), B-WCSP
Scientific Name	<i>Zonotrichia leucophrys</i>
Federal and State Status	None/None

Wildlife List	
Common Name	California ground squirrel
Species Name	California ground squirrel (<i>Otospermophilus beecheyi</i>), M-CAGS
Scientific Name	<i>Otospermophilus beecheyi</i>
Federal and State Status	None/None

Bio Field Data

Record: 48483

Date	2025-05-21
Biologist	Callie Amoaku
Project	Angeleno
Topics Reviewed:	Hostile property owners / public, Vehicular traffic
Completion of G-A-R Assessment	Yes
Survey Area	Entire Site
Survey Type	Bumble Bee, Swainson's Hawk
Time	8:21 AM-1:08 PM
Conditions	59-71°F; 0% cloud cover; 0-1 mph wind
Visit Type	
Notes	
Number of Nests Observed	0

Survey Conditions

Status	Start
Time	08:21:00
TEMPERATURE	°F
Air Temp	71
Air Temp	71
Soil Temp	0

Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Survey Conditions	
Status	End
Time	13:08:00
TEMPERATURE	°F
Air Temp	88
Air Temp	88
Soil Temp	0
Water Temp	0
Visibility	
Humidity	
Cloud Cover	0
WIND	mph
Wind	
Minimum Wind Speed (mph)	0

Bumble Bee	
Survey Pass	1
Survey Area #	Entire Site
Habitat Type(s)	Non-Native Grassland, Shrub / Scrub, Developed / Roadside, Disturbed
Describe Surrounding Habitat	Rural residential
How much of Survey Area has flowering resources available?	10%
Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles]	Small mammal burrows, brush piles
Anthropogenic Disturbance	Trash
List up to 10 species in bloom	Scumex, Stephanomeria sp, Ericameria linearifolia, Erifas, Opubas, Erodium cic, Amsinckia, Lycium cooperi, Sisalt, Lesgla, Encfar
Bumble bee observed	No

Wildlife List	
Common Name	California scrub-jay
Species Name	California scrub-jay (Aphelocoma californica), B-CASJ
Scientific Name	Aphelocoma californica
Federal and State Status	None/None

Wildlife List	
Common Name	mourning dove
Species Name	mourning dove (Zenaida macroura), B-MODO
Scientific Name	Zenaida macroura

Federal and State Status	<i>None/None</i>
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Wildlife List	
Common Name	<i>common raven</i>
Species Name	<i>common raven (Corvus corax), B-CORA</i>
Scientific Name	<i>Corvus corax</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>western kingbird</i>
Species Name	<i>western kingbird (Tyrannus verticalis), B-WEKI</i>
Scientific Name	<i>Tyrannus verticalis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>black-tailed jackrabbit</i>
Species Name	<i>black-tailed jackrabbit (Lepus californicus), M-BTJR</i>
Scientific Name	<i>Lepus californicus</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>red-tailed hawk</i>
Species Name	<i>red-tailed hawk (Buteo jamaicensis), B-RTHA</i>
Scientific Name	<i>Buteo jamaicensis</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California thrasher</i>
Species Name	<i>California thrasher (Toxostoma redivivum), B-CATH</i>
Scientific Name	<i>Toxostoma redivivum</i>
Federal and State Status	<i>BCC/None</i>

Wildlife List	
Common Name	<i>white-crowned sparrow</i>
Species Name	<i>white-crowned sparrow (Zonotrichia leucophrys), B-WCSP</i>
Scientific Name	<i>Zonotrichia leucophrys</i>
Federal and State Status	<i>None/None</i>

Wildlife List	
Common Name	<i>California ground squirrel</i>
Species Name	<i>California ground squirrel (Otospermophilus beecheyi), M-CAGS</i>
Scientific Name	<i>Otospermophilus beecheyi</i>

Federal and State Status

None/None

Bio Field Data

ID	49306
Date	2025-06-30
Biologist	Eilleen Salas, Luz Badillo
Project	Angeleno
Topics Reviewed:	Slips, trips, falls, Snakes, Bees, ticks, or other biting/stinging insects, Heat-related illness, Wildfire
Completion of G-A-R Assessment	Yes
Survey Area	Entire Site
Survey Type	Bumble Bee
Time	9:16 AM–1:30 PM
Conditions	79–86°F
Visit Type	

Wildlife Species Count Summary

Notes Minimal number of plants were flowering. No CBB observed.

Number of Nests Observed 0

Bumble Bee

ID S49306

Survey Pass 3

Survey Area #

Habitat Type(s) Shrub / Scrub

Describe Surrounding Habitat Desert native scrub with some ranches/residential homes.

How much of Survey Area has flowering resources available? 10%

Do you see any of the following (describe)? [Bunch grasses, rodent holes/tunnels, brush piles, bare soil, leaf litter, pine needle duff layer, rock piles] Bare soil, small mammal burrows

Anthropogenic Disturbance Dirt roads throughout

How many different species of flowers (incl. trees and shrubs) are in bloom in the survey area (whether they were visited by bumble bee or not)? 3

List up to 10 species in bloom Eriastrum densifolium
Erifas
Lassingia gladulifera

Bumble bee observed No

Wildlife List

ID **S49306**

Common Name northern mockingbird

Species Name northern mockingbird (*Mimus polyglottos*), B-NOMO

Scientific Name *Mimus polyglottos*

Federal and State Status None/None

ID **S49306**

Common Name California thrasher

Species Name California thrasher (*Toxostoma redivivum*), B-CATH

Scientific Name *Toxostoma redivivum*

Federal and State Status BCC/None

ID **S49306**

Common Name Cassin's kingbird

Species Name Cassin's kingbird (*Tyrannus vociferans*), B-CAKI

Scientific Name *Tyrannus vociferans*

Federal and State Status None/None

ID **S49306**

Common Name red-tailed hawk

Species Name red-tailed hawk (*Buteo jamaicensis*), B-RTHA

Scientific Name *Buteo jamaicensis*

Federal and State Status None/None

ID S49306

Common Name American crow

Species Name American crow (*Corvus brachyrhynchos*), B-AMCR

Scientific Name *Corvus brachyrhynchos*

Federal and State Status None/None

ID S49306

Common Name California ground squirrel

Species Name California ground squirrel (*Otospermophilus beecheyi*), M-CAGS

Scientific Name *Otospermophilus beecheyi*

Federal and State Status None/None

ID S49306

Common Name black-tailed jackrabbit

Species Name black-tailed jackrabbit (*Lepus californicus*), M-BTJR

Attachment 14

Appendix 3.2G - Biota Report

Biota Report

Prairie Song Reliability Project

OCTOBER 2025

Prepared for:

PRAIRIE SONG RELIABILITY PROJECT LLC

Prepared by:

DUDEK

225 South Lake Avenue, Suite M210

Pasadena, California 91101

Contact: Michael Cady, Senior Biologist

Table of Contents

SECTION	PAGE NO.
Acronyms and Abbreviations.....	v
1 Introduction.....	1
1.1 Project Location.....	1
1.2 Project Description.....	1
2 Environmental Setting.....	5
2.1 On-Site Conditions.....	5
2.2 Soils.....	5
2.3 Regional Conditions.....	6
2.3.1 Hydrologic Features.....	6
3 Regulatory Context.....	11
3.1 Federal Regulations.....	11
3.2 State Regulations.....	12
3.3 Local Regulations.....	15
4 Methods.....	19
4.1 Literature/Database Review.....	19
4.2 Special-Status Plant and Wildlife Species Assessment.....	19
4.3 Field Effort.....	20
4.3.1 Vegetation Community and Land Cover Mapping.....	22
4.3.2 Aquatic Resource Delineation.....	22
4.3.3 Rare Plants.....	23
4.3.4 California Desert Native Plants Act.....	23
4.3.5 Crotch’s Bumble Bee Surveys.....	23
4.3.6 Raptor Nest Survey.....	24
4.3.7 Protected Tree Census.....	24
5 Results.....	25
5.1 Vegetation Communities and Land Covers.....	25
5.2 Special-Status Plant Species.....	32
5.3 Special-Status Wildlife Species.....	33
5.4 Potential Jurisdictional Wetlands and Waters.....	39
5.5 Wildlife Corridors and Habitat Linkages.....	43
5.6 California Desert Native Plant Act Covered Species.....	43
5.7 Significant Ecological Area Protected Trees.....	47
6 Project Impacts to Significant Ecological Area Resources.....	51
6.1 Definition of Impacts.....	51

6.1.1	Explanation of Project Consistency with Significant Ecological Area Conditional Use Permit Compatibility Criteria	51
6.2	Impacts to Special-Status Plants.....	52
6.3	Impacts to Special-Status Wildlife.....	52
6.4	Impacts to Vegetation Communities	54
6.5	Impacts to Water Resources.....	55
6.6	Impacts to Protected Trees.....	55
7	Mitigation Measures	59
8	Significant Ecological Areas Statement of Findings.....	67
9	References	71

TABLES

1	Recommended Preservation Ratios for SEA CUP	17
2	Schedule of Surveys	21
3	Vegetation Communities and Land Covers in the Study Area.....	25
4	Summary of Potential Jurisdictional Waters Within the Study Area	40
5	California Desert Native Plant Act Covered Species in the Survey Area.....	43
6	Summary of Trees in the Study Area	47
7	Potential Impacts to Special-Status Wildlife Habitat Within the SEA.....	53
8	Potential Impacts to Vegetation Communities and Land Covers in the Santa Clara River Significant Ecological Area Portion of the Study Area	54
9	Summary of Potential Impacts to SEA Protected Trees (Non-Heritage)	56
10	Summary of Potential Impacts to SEA Protected Heritage Trees.....	56
11	Summary of Potential Individual Species Replacement Quantities.....	57
12	Unimpacted Vegetation Communities and Land Cover Types in the Santa Clara River Significant Ecological Area Portion of the Study Area That Could Be Conserved	61

FIGURES

1	Project Location	3
2	Soils	7
3	Hydrologic Setting	9
4	Vegetation Communities and Land Cover	27
5	Biological Survey Results.....	35
6	Potential Jurisdictional Aquatic Resources	41
7	California Desert Native Plant Act Covered Species in the Survey Area.....	45
8	Protected Trees	49

APPENDICES

- A Protected Tree Report
- B Biological Constraints Map
- C Potential to Occur Tables and Compendia

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Acronyms and Abbreviations

Acronym	Definition
BESS	battery energy storage system
CDFW	California Department of Fish and Wildlife
CDNPA	California Desert Native Plants Act
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
County	County of Los Angeles
CRPR	California Rare Plant Rank
CUP	Conditional Use Permit
FESA	federal Endangered Species Act
gen-tie	generation interconnection
MM	Mitigation Measure
OHWM	ordinary high-water mark
Project	Prairie Song Reliability Project
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
SEA	Significant Ecological Area
SR	State Route
SSC	California Species of Special Concern
TPZ	tree protection zone
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

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1 Introduction

This report presents the findings of a biological resources assessment conducted for the proposed Prairie Song Reliability Project (Project). The purpose of this assessment was to evaluate the existing biological conditions and provide an analysis of the Project's potential impacts on the County of Los Angeles (County) Significant Ecological Area (SEA) resources as identified within the Los Angeles County SEA Ordinance Implementation Guide (Los Angeles County Regional Planning 2020). The generation interconnection (gen-tie) line route alignments for the Project are located in the Santa Clara River SEA, but the existing conditions are given for the Project as a whole.

1.1 Project Location

The Project is in unincorporated Los Angeles County, California, south of State Route (SR) 14. The Project is within the U.S. Geological Survey (USGS) 7.5-minute Acton and Pacifico Mountain quadrangles, Township 5N, Range 12W, Sections 27, 28, 33, and 34 (Figure 1, Project Location). The battery energy storage system (BESS) site consists of Assessor's Parcel Numbers 3056-017-007, 3056-017-020, 3056-017-021, 3056-019-013, 3056-019-026, 3056-019-037, and 3056-019-040. Development of the BESS facility will occur on an area of land situated between two existing transportation corridors, the Antelope Valley Freeway (SR-14) to the north and Southern Pacific Railroad lines and Carson Mesa Road to the south, which are approximately 1,200 feet apart.

The Project will utilize one (1) of two (2) potential gen-tie routes. Either route will extend south and east from the Project substation, crossing Southern Pacific Railroad tracks and West Carson Mesa Road, and then proceed northeast to the Point of Interconnection at the Vincent Substation. The Northern Gen-Tie Route is approximately 1.1 miles long and will be sited on Assessor's Parcel Numbers 3056-015-008, 3056-015-023, 3056-017-026, 3056-017-904, 3056-017-905, 3056-005-816, 3056-005-817, 3056-005-818, 3056-015-801, and 3056-015-802. The Southern Gen-Tie Route is approximately 1.8 miles long and will be sited on Assessor's Parcel Numbers 3056-015-008, 3056-015-023, 3056-017-016, 3056-017-022, 3056-017-026, 3056-017-027, 3056-017-028, 3056-027-007, 3056-027-031, 3056-005-816, 3056-005-817, 3056-005-818, 3056-015-801, and 3056-015-802. The Project will also include three (3) fiber optic telecommunications lines: one (1) will be installed aboveground on the gen-tie structures (along whichever gen-tie route is ultimately selected), and the other two (2) will be installed underground within the Southern Gen-Tie Route corridor. The two (2) other fiber optic lines will be installed underground within the Southern Gen-Tie Route corridor regardless of which gen-tie route corridor option is selected. The Project's interconnection facilities will be located within the Southern California Edison (SCE) Vincent Substation. Land uses in the immediate vicinity of the Project include undeveloped and rural lands, multiple high-voltage transmission lines and an electrical substation, paved and rural roads, SR-14, and railroad lines.

The nearest municipality to the Project site is the City of Palmdale, which is located approximately 4 miles to the northeast. There are a few single-family residences adjacent to the BESS facility site's northern and western boundaries, as well as a few other single-family residences in the vicinity of the gen-tie line.

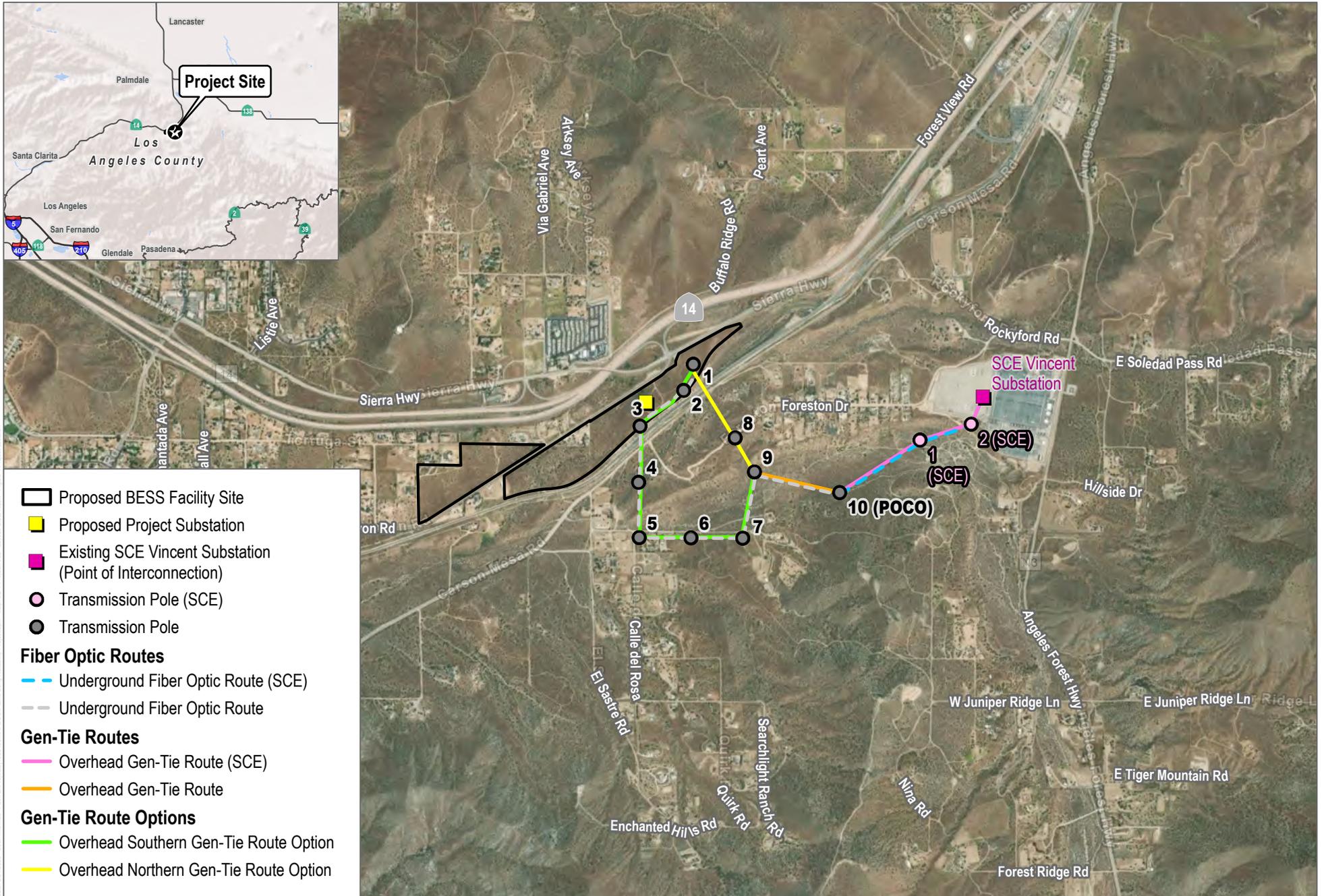
1.2 Project Description

Prairie Song Reliability Project LLC, a Delaware limited liability company (applicant), a subsidiary of Coval Infrastructure DevCo LLC, a Delaware limited liability company, proposes to construct, operate, and eventually repower or decommission the up to 1,150-megawatt Project located on up to approximately 107 acres in

unincorporated Los Angeles County. The primary components of the Project include a containerized BESS facility utilizing lithium-iron phosphate cells, or similar technology, operations and maintenance buildings, an on-site Project substation, a 500-kilovolt overhead gen-tie transmission line, and interconnection facilities within the existing SCE-owned and operated Vincent Substation.

Electrical energy will be transferred from the existing power grid to the Project for storage and from the Project to the power grid when additional electricity is needed. The Project will provide additional capacity to the electrical grid to assist with serving load during periods of peak demand by charging when demand is low and discharging when demand is high. This operating principle increases the integration of additional intermittent renewable energy, such as wind and solar, in California's energy mix and reduces the need to operate natural gas power plants. The Project will also serve as an additional local/regional capacity resource that will enhance grid reliability, particularly to the Los Angeles Basin local reliability area and may allow for the deferral or avoidance of regional transmission facilities.

The Project will be remotely operated and monitored year-round and supported by on-site operations and maintenance staff 7 days a week. The Project will be available to receive or deliver energy 24 hours a day and 365 days a year. During the operational life of the Project, qualified technicians will inspect the Project facilities and conduct necessary maintenance to ensure reliable and safe operational readiness.



- Proposed BESS Facility Site
 - Proposed Project Substation
 - Existing SCE Vincent Substation (Point of Interconnection)
 - Transmission Pole (SCE)
 - Transmission Pole
- Fiber Optic Routes**
- Underground Fiber Optic Route (SCE)
 - Underground Fiber Optic Route
- Gen-Tie Routes**
- Overhead Gen-Tie Route (SCE)
 - Overhead Gen-Tie Route
- Gen-Tie Route Options**
- Overhead Southern Gen-Tie Route Option
 - Overhead Northern Gen-Tie Route Option

SOURCE: World Imagery



FIGURE 1
Project Location
 Prairie Song Reliability Project

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2 Environmental Setting

2.1 On-Site Conditions

The Project site refers to the area that may be physically affected by construction activities associated with the Project, including the location of permanent structures (including both gen-tie options), as well as staging and other temporary disturbance areas described. For the purposes of the biological surveys, the Study Area encompasses the parcels that make up the Project site and additional parcels that have been acquired by the Project applicant. The Study Area for focused species surveys was expanded per protocol and where necessary to capture nearby resources.

2.2 Soils

According to the U.S. Department of Agriculture (2025a) Web Soil Survey, there are seven (7) soil map units that occur within the Study Area, as shown in Figure 2, Soils: Greenfield sandy loam, 2% to 9% slopes (GsC); Hanford coarse sandy loam, 0% to 2% slopes (HbA); Hanford coarse sandy loam, 2% to 9% slopes (HbC); Hanford coarse sandy loam, 9% to 15% slopes (HbD); Hanford sandy loam, 2% to 9% slopes (HcC); Terrace escarpments (TsF); and Vista coarse sandy loam, 30% to 50% slopes (VsF). Of the seven (7) soil map units, only one (1) is ranked as partially hydric: Hanford coarse sandy loam, 0% to 2% slopes.

The Greenfield soil series consists of deep, well-drained soils formed in moderately coarse to coarse-textured alluvium derived from granitic and mixed rock sources. These soils are typically found on alluvial fans and terraces with slopes ranging from 0% to 30%. In Southern California, Greenfield soils experience a dry, subhumid climate with hot, dry summers and cool, moist winters, receiving approximately 9 to 20 inches of annual precipitation. The soils exhibit moderately rapid permeability and low organic matter content, supporting vegetation such as annual grasses, forbs, scattered shrubs, and occasional oak trees in uncultivated areas (USDA 2025a)

The Hanford soil series, common in alluvial valleys of Southern California, consists of well-drained, moderately permeable soils formed in coarse-loamy alluvium derived primarily from granitic sources. These soils typically occur on stream terraces and alluvial fans with slopes ranging from 0% to 15%. Hanford soils exhibit low organic content and are generally dry from late spring through fall, with seasonal moisture during winter months. Their physical characteristics support a range of land uses, including agriculture and urban development, and they typically host annual grasses and herbaceous vegetation in undeveloped areas (USDA 2025a).

The Vista soil series consists of moderately deep, well-drained soils formed in material weathered from decomposed granitic rocks. These soils typically occur on hills and mountainous uplands with slopes ranging from 2% to 85%. Vista soils exhibit coarse sandy loam textures, moderately rapid permeability, and low organic matter content. They are found in areas with a subhumid mesothermal climate, receiving approximately 10 to 22 inches of annual precipitation. Native vegetation includes annual grasses, forbs, and drought-tolerant shrubs such as California sagebrush (*Artemisia californica*), chamise (*Adenostoma fasciculatum*), and scrub oak (*Quercus* spp.) (USDA 2025a).

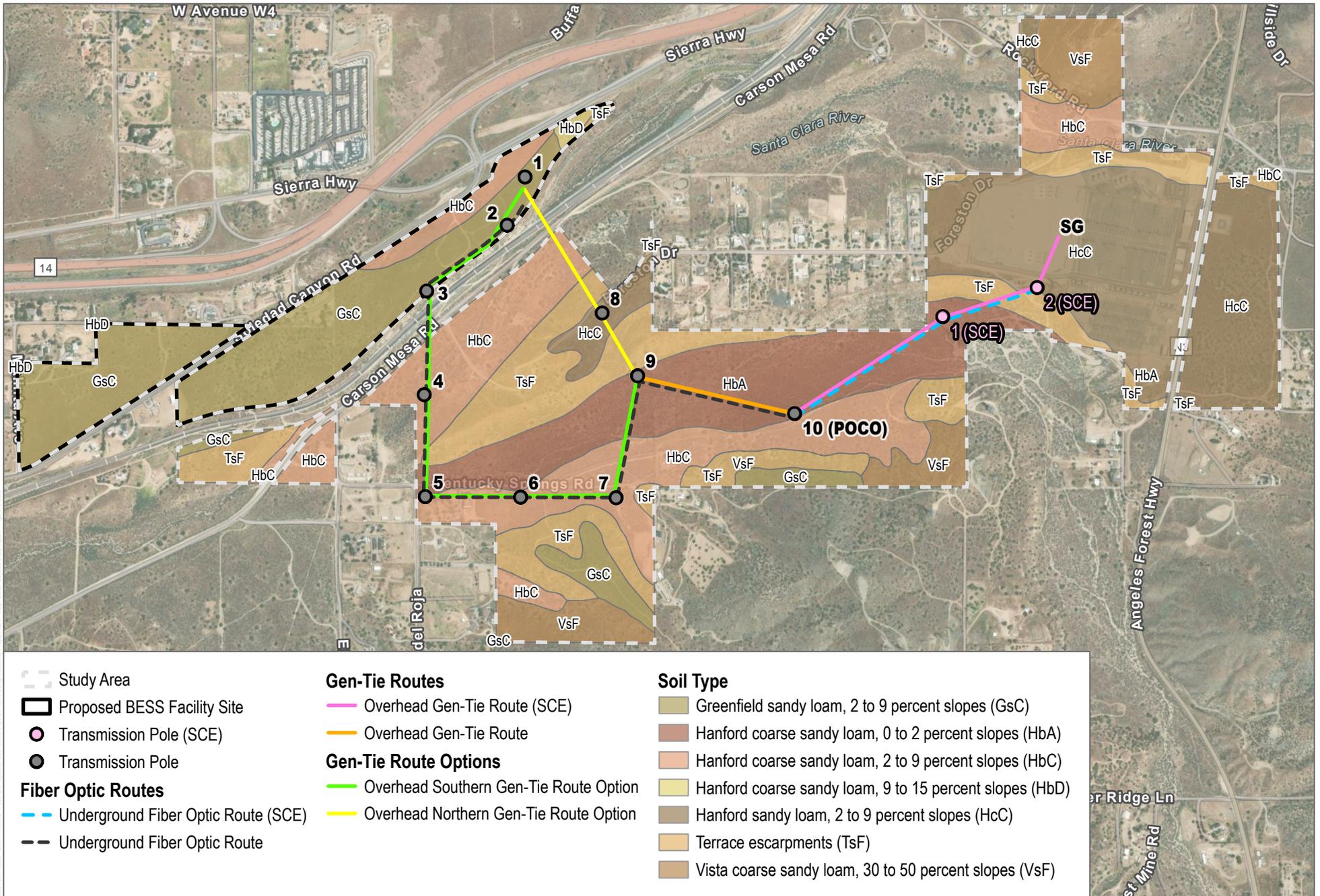
2.3 Regional Conditions

The Study Area is in the western San Gabriel Mountains, in the Transverse Ranges Geomorphic Province (CGS 2002). The Transverse Ranges are an east/west-trending series of steep mountains and valleys (CGS 2002). The Study Area is located at the conjunction of Soledad Canyon and Kentucky Springs Canyon (USGS 2022) and at the boundary of the Western Transverse Ranges ecological subregion and the Mojave Desert ecological region (Jepson Flora Project 2025). Elevations in the Study Area range from approximately 2,700 feet above mean sea level along the southwestern side to 3,500 feet above mean sea level along the northern hillsides (Google Earth 2025).

The Study Area has an arid climate with the site being located on the northern side of the San Gabriel Mountains and bordering the Antelope Valley. August is the average warmest month, with an average high of 93 °F, and December is the coolest month on average, with a low of 36 °F. Rainfall occurs primarily between November and April, with the maximum average precipitation occurring in February. The mean annual rainfall for the area is approximately 9 inches of rain per year (LACPW 2025).

2.3.1 Hydrologic Features

The Study Area is in the Santa Clara subbasin (HUC 18070102), Headwaters Santa Clara River watershed (HUC 1807010201), and primarily Kentucky Springs Canyon–Santa Clara River subwatershed, with the westernmost area of the Project overlapping into the Arrastre Canyon–Santa Clara River subwatershed. The Santa Clara River is the primary natural surface water feature in the vicinity of the Study Area. The Santa Clara River is the largest natural river remaining in Southern California and travels through two (2) counties, Los Angeles and Ventura (Kennedy/Jenks Consultants 2014). The northern portion in Los Angeles County is largely classified as an intermittent stream/river and only contains flowing water during certain times of the year (USGS 2023 Kennedy/Jenks Consultants 2014). The intermittent stream channel traverses the southern end of the Study Area within parcels 3056-019-040, 3056-017-907, 3056-017-028, 3056-017-027, 3056-015-008, and 3056-015-023, as shown in Figure 3, Hydrologic Setting. Several other smaller, unnamed ephemeral washes from Soledad Canyon and Kentucky Springs Canyon drain across the northern and southern portions of the Study Area, respectively. The National Wetlands Inventory and National Hydrography Dataset were reviewed to identify wetland or hydrologic features in the Study Area (USFWS 2025a; USGS 2023). Figure 3 depicts the mapped wetland and hydrologic features in the Study Area.



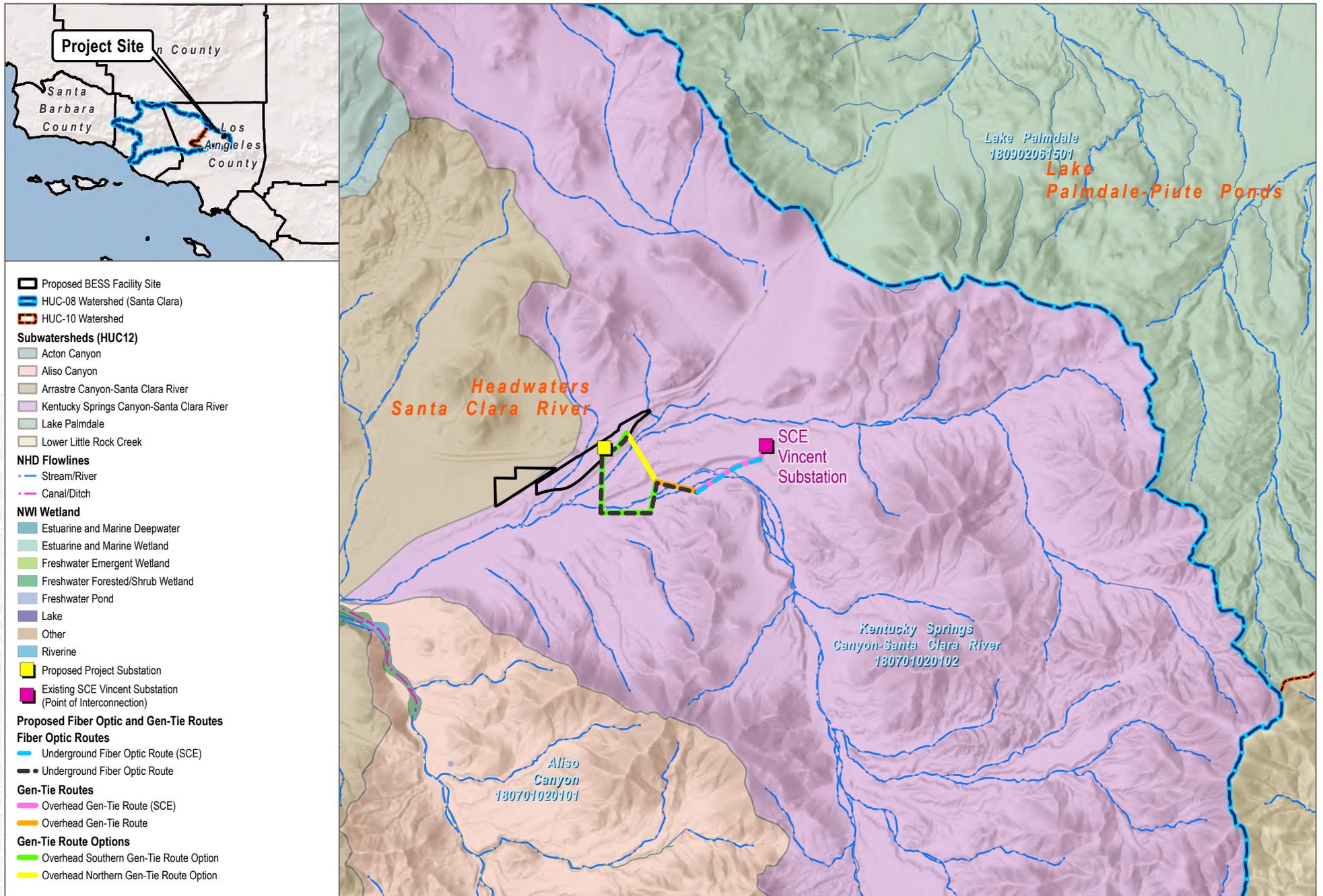
SOURCE: World Imagery; USDA



FIGURE 2
Soils

Prairie Song Reliability Project

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SOURCE: World Hillshade; SWRQCB



FIGURE 3

Hydrologic Setting

Prairie Song Reliability Project

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3 Regulatory Context

3.1 Federal Regulations

Federal Endangered Species Act

The federal Endangered Species Act (FESA) of 1973 (16 USC 1531 et seq.), as amended, is administered by the U.S. Fish and Wildlife Service (USFWS) for most plant and wildlife species and by the National Oceanic and Atmospheric Administration National Marine Fisheries Service for certain marine species. FESA is intended to provide a means to conserve the ecosystems upon which endangered and threatened species depend and to provide programs for the conservation of those species, thus preventing extinction of plants and wildlife. FESA defines an endangered species as “any species which is in danger of extinction throughout all or a significant portion of its range.” A threatened species is defined as “any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.” Under FESA, it is unlawful to take any listed species; “take” is defined as “to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.”

FESA allows for the issuance of Incidental Take Permits for listed species under Section 7, which is generally available for projects that also require other federal agency permits or other approvals, and under Section 10, which provides for the approval of habitat conservation plans on private property without any other federal agency involvement. Upon development of a habitat conservation plan, USFWS can issue Incidental Take Permits for listed species.

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (16 USC 703 et seq.), as amended, prohibits the intentional take of any migratory bird or any part, nest, or eggs of any such bird. Under the Migratory Bird Treaty Act, “take” is defined as pursuing, hunting, shooting, capturing, collecting, or killing, or attempting to do so. Additionally, Executive Order 13186, Responsibilities of Federal Agencies to Protect Migratory Birds, requires that any project with federal involvement address impacts of federal actions on migratory birds with the purpose of promoting conservation of migratory bird populations (66 FR 3853–3856). The Executive Order requires federal agencies to work with USFWS to develop a Memorandum of Understanding. USFWS reviews actions that might affect these species.

Clean Water Act

The Clean Water Act provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation’s waters. Section 401 requires a project operator for a federal license or permit that allows activities resulting in a discharge to waters of the United States to obtain state certification, thereby ensuring that the discharge will comply with provisions of the Clean Water Act. The Regional Water Quality Control Boards (RWQCBs) administer the certification program in California. Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the United States. Section 404 establishes a permit program administered by the U.S. Army Corps of Engineers (USACE) that regulates the discharge of dredged or fill material into waters of the United States, including wetlands. USACE implementing regulations are found at 33 Code of Federal Regulations (CFR) 320 and 330. Guidelines for implementation are referred to as the Section 404(b)(1) Guidelines, which were developed by the U.S. Environmental Protection Agency in conjunction with USACE

(40 CFR 230). The guidelines allow the discharge of dredged or fill material into the aquatic system only if there is no practicable alternative that would have less adverse impacts.

Wetlands and Other Waters of the United States

Aquatic resources, including riparian areas, wetlands, and certain aquatic vegetation communities, are considered sensitive biological resources and can fall under the jurisdiction of several regulatory agencies. USACE exerts jurisdiction over waters of the United States, including all waters that are subject to the ebb and flow of the tide; wetlands and other waters, such as lakes, rivers, streams (including intermittent or ephemeral streams), mudflats, sandflats, sloughs, prairie potholes, vernal pools, wet meadows, playa lakes, or natural ponds; and tributaries of the above features.

The extent of waters of the United States is generally defined as that portion that falls within the limits of an ordinary high-water mark (OHWM). Typically, the OHWM corresponds to the water surface elevation of a 2-year flood event (USACE 2008b). In addition, waters of the United States may include wetlands, including swamps, bogs, seasonal wetlands, seeps, marshes, and similar areas, defined by USACE as “those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions” (33 CFR 328.3[c]). Indicators of three (3) wetland parameters (i.e., hydric soils, hydrophytic vegetation, and wetlands hydrology), as determined by field investigation, must be present for a site to be classified as a wetland by USACE.

3.2 State Regulations

California Endangered Species Act

The California Department of Fish and Wildlife (CDFW) administers the California Endangered Species Act (CESA), which prohibits the take of plant and wildlife species designated by the Fish and Game Commission as endangered or threatened in California. Under CESA Section 86, “take” is defined as to “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” CESA declares the policy of the state that public agencies should not approve projects that would “jeopardize the continued existence of any endangered species or threatened species or result in the destruction or adverse modification of habitat essential to the continued existence of those species, if there are reasonable and prudent alternatives available consistent with conserving the species or its habitat which would prevent jeopardy.”

CESA defines an endangered species as “a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease.” CESA defines a threatened species as “a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any wildlife determined by the commission as rare on or before January 1, 1985, is a “threatened species.” A candidate species is defined as “a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to either list.” CESA does not list invertebrate species.

Porter–Cologne Water Quality Control Act

The intent of the Porter–Cologne Water Quality Control Act is to protect water quality and the beneficial uses of water, and it applies to both surface water and groundwater. Under this law, the State Water Resources Control Board develops statewide water quality plans, and the nine (9) RWQCBs develop basin plans that identify beneficial uses, water quality objectives, and implementation plans. The RWQCBs have the primary responsibility to implement the provisions of both statewide and basin plans. Waters regulated under the Porter–Cologne Water Quality Control Act include isolated waters that are no longer regulated by USACE. Developments with impact to jurisdictional waters must demonstrate compliance with the goals of the act by developing stormwater pollution prevention plans, standard urban stormwater mitigation plans, and other measures to obtain an order of Waste Discharge Requirement (or, in cases where a Clean Water Act Section 401 certification is required, a waiver of Waste Discharge Requirement).

California Fish and Game Code

Fully Protected Species

Sections 3511, 4700, 5050, and 5515 of the California Fish and Game Code outline protection for fully protected species of birds, mammals, reptiles and amphibians, and fish. Species that are fully protected by these sections may not be taken or possessed at any time, except under certain circumstances, such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of livestock. Furthermore, it is the responsibility of CDFW to maintain viable populations of all native species. Toward that end, CDFW has designated certain vertebrate species as Species of Special Concern (SSC) because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

Section 1602

Under Section 1602 of the California Fish and Game Code, a project operator is required to notify CDFW prior to any project that would divert, obstruct, or change the natural flow, bed, channel, or bank of any river, stream, or lake. Pursuant to the code, a “stream” is defined as “a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life” (14 CCR 1.72). Based on this definition, a watercourse with “a surface or subsurface flows that supports or has supported riparian vegetation” is a stream and is subject to CDFW jurisdiction. Altered or artificial watercourses valuable to fish and wildlife are subject to CDFW jurisdiction. CDFW also has jurisdiction over dry washes that carry water during storm events.

Preliminary notification and project review generally occur during the environmental process. When an existing fish or wildlife resource may be substantially adversely affected, CDFW may require implementation of reasonable measures necessary to protect the resource. These modifications are formalized in a Streambed Alteration Agreement, which becomes part of the plans, specifications, and bid documents for the project.

Nesting Birds

Section 3503 of the California Fish and Game Code states that “it is unlawful to take, possess, or needlessly destroy the nests or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.” Section 3503.5 protects all birds of prey (raptors) and their eggs and nests. Section 3511 states that fully protected birds or parts thereof “may not be taken or possessed at any time,” unless otherwise provide for by law or authorized by CDFW.

Section 3513 states that “it is unlawful to take or possess any migratory nongame bird as designated in the federal Migratory Bird Treaty Act.”

California Native Plant Protection Act

The Native Plant Protection Act of 1977 (see Section 1900 et seq. of the California Fish and Game Code) directed CDFW to carry out the legislature’s intent to “preserve, protect and enhance rare and endangered plants in this state.” The Native Plant Protection Act gave the California Fish and Game Commission the power to designate native plants as “endangered” or “rare” and protect endangered and rare plants from take. CESA expanded on the original Native Plant Protection Act and enhanced legal protection for plants, but the Native Plant Protection Act remains part of the California Fish and Game Code. To align with federal regulations, CESA created the categories of “threatened” and “endangered” species. It converted all “rare” wildlife into the act as threatened species but did not do so for rare plants. Thus, there are three (3) listing categories for plants in California: rare, threatened, and endangered. Because rare plants are not included in CESA, mitigation measures for impacts to rare plants are typically specified in a formal agreement between CDFW and the project proponent.

California Desert Native Plant Act

The purpose of the California Desert Native Plants Act (CDNPA) is to protect certain species of California desert native plants from unlawful harvesting on both public and privately owned lands. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of specific native desert plants unless a person has a valid permit or wood receipt, and the required tags and seals. The appropriate permits, tags, and seals must be obtained from the county sheriff or commissioner of the county where collecting will occur, and the county will charge a fee.

California Environmental Quality Act

The California Environmental Quality Act (CEQA) (California Public Resources Code, Section 21000 et seq.) requires identification of a project’s potentially significant impacts on biological resources and ways that such impacts can be avoided, minimized, or mitigated. CEQA also provides guidelines and thresholds for use by lead agencies for evaluating the significance of potential impacts.

Special-Status Plants and Wildlife

CEQA Guidelines Section 15380(b)(1) defines endangered wildlife or plants as species or subspecies whose “survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors.” A rare wildlife or plant is defined in CEQA Guidelines Section 15380(b)(2) as a species that, although not currently threatened with extinction, exists “in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens; or ... is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered ‘threatened’ as that term is used in the Federal Endangered Species Act.” Additionally, a wildlife or plant species may be presumed to be endangered, rare, or threatened if it meets the criteria for listing as defined further in CEQA Guidelines Section 15380(c) or otherwise meets the criteria of Section 15380(b).

Special-Status Vegetation Communities

Section IV, Appendix G (Environmental Checklist Form) of the CEQA Guidelines (14 CCR 15000 et seq.) requires an evaluation of impacts to “any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service.”

3.3 Local Regulations

Los Angeles County 2035 General Plan

The General Plan includes guiding principles that inform the County’s goals, policies, and implementation actions. The following goals and policies are relevant to the Project and applicable to biological resources (County of Los Angeles 2015):

Goal C/NR 1: Open space areas that meet the diverse needs of Los Angeles County.

Policy C/NR 1.3: Support the acquisition of new available open space areas. Augment this strategy by leveraging County resources in concert with the compatible open space stewardship actions of other agencies, as feasible and appropriate.

Goal C/NR 2: Effective collaboration in open space resource preservation.

Policy C/NR 2.2: Encourage the development of multi-benefit dedicated open spaces.

Policy C/NR 3.8: Discourage development in areas with identified significant biological resources, such as SEAs.

County of Los Angeles Significant Ecological Areas

SEAs are officially designated areas within the County with irreplaceable biological resources. The SEA program objective is to conserve genetic and physical diversity within the County by designating biological resource areas that can sustain themselves into the future. The SEA program also protects native trees and provides a list of the protected species and the size of the diameter of the trunk that triggers protection. The SEA Ordinance establishes the permitting, design standards, and review process for development within SEAs, balancing preservation of the County’s natural biodiversity with private property rights.

The SEA Ordinance includes 60 tree species to be protected in addition to already protected oak trees (Los Angeles County Regional Planning 2020). The SEA Protected Tree List specifies the species of tree protected in each individual SEA and the size of the tree when regulations are applied. Per County Code 22.102.070 (Protected Tree Permit), development that complies with Section 22.102.090 (SEA Development Standards) shall require a Protected Tree Permit from the County except for Subsection 22.102.090.B (SEA Protected Trees) of the County Code, and which includes any of the following impacts:

1. Pruning or trimming of branches of SEA Protected Trees in excess of two inches in diameter or 25 percent of live foliage for one or more trees;

2. Encroachments of up to 30 percent into an SEA Protected Tree’s protected zone. Any encroachment of more than 30 percent into the protected zone of a tree shall be considered as a tree removal...;
3. Removal of up to two SEA Protected Trees that are not designated as Heritage Trees [(single trunk that measures 36 inches or more in diameter or two trunks that collectively measure 54 inches or more in diameter)]; or
4. Tree relocation poses significant risk to the health or survival rate of a tree. Any relocation of an SEA Protected Tree shall, therefore, be processed as a removal.

A discretionary SEA Conditional Use Permit (CUP) application is required for development that cannot demonstrate compliance with Section 22.102.070 (Protected Tree Permit) or Sections 22.102.090 (SEA Development Standards) and 22.102.100 (Natural Open Space Preservation) of the County Code. Los Angeles County Regional Planning has issued the SEA Ordinance Implementation Guide (Los Angeles County Regional Planning 2020) to help proposed development comply with the ordinance.

The gen-tie line route alignments for the Project are located in the Santa Clara River SEA. Depending on the final route and pole locations, the proposed Project may require an SEA CUP, but for the California Energy Commission’s Opt-In Application for Certification process, because it may have impacts to SEA Resource Categories (as defined below) that are greater than those allowed by SEA Development Standards and may require removal of more than two SEA Protected Trees that also include heritage trees.

Significant Ecological Area Resource Categories

The SEA Ordinance includes SEA Resource Categories 1 through 5. These categories are defined as follows (Los Angeles County Regional Planning 2020):

- Category 1: FESA and CESA listed plant and wildlife species; CESA candidate species, California Rare Plant Ranks (CRPR) 1A or B, 2A or B, and 3 (CNPS 2025a), critically imperiled natural communities (those that have a Global [G] and/or State [S] ranking of 1) (NatureServe 2023), and water resources
- Category 2: CDFW SSC and their occupied habitat and imperiled natural communities (those that are G2/S2) (NatureServe 2023)
- Category 3: Vulnerable natural communities that are G3/S3 (NatureServe 2023), sensitive local native resources, and oak woodlands
- Category 4: Apparently secure natural communities that are G4/S4 (NatureServe 2023), secure natural communities that are G5/S5 (NatureServe 2023), and CRPR 4 species
- Category 5: All other lands including those “dominated by non-native [vegetation], agricultural fields, hedges, early successional vegetation that has yet to form into a distinct natural community, cleared or disturbed areas, and non-native trees and shrubs.”

On-Site Preservation for Significant Ecological Areas Conditional Use Permit

To evaluate the appropriate location and mechanism for preserved natural open space, staff will first need to determine whether an adequate amount of suitable habitat is present on site. Projects that do not have an adequate amount of suitable habitat available to protect on site will need to provide any necessary natural open space preservation off site. Mitigation areas that fall short of SEA recommended mitigation ratios may be given

added conservation value should they possess the following characteristics (Los Angeles County Regional Planning 2020):

“Added value” can be given to proposed natural open space areas if they also contain unique or valuable habitat linkage resources, additional special-status species, surface waters, or sensitive habitats, etc. Proposed open-space with such added-value characteristics may be allowed to be smaller than the area that would typically be required and still be determined to be consistent with the SEA Program goals, subject to the discretion of the Department and a determination of consistency with the SEA Findings by SEATAC.

Table 1, Recommended Preservation Ratios for SEA CUP, lists the recommended preservation ratios for impacts to SEA Resources Categories for projects that require a CUP.

Table 1. Recommended Preservation Ratios for SEA CUP

SEA Resources	Preservation Ratio
Category 1 <ul style="list-style-type: none"> • State or federally listed species and their habitats • California Rare Plant Ranks 1, 2, 3 • Natural communities ranked G1/S1 • Water resources (e.g., wetlands, streams, ponds, lakes, vernal pools, marshes) • Beach and dune 	5:1
Category 2 <ul style="list-style-type: none"> • Natural communities ranked G2/S2 • Species of Special Concern and their habitats 	4:1
Category 3 <ul style="list-style-type: none"> • Natural communities ranked G3/S3 • Oak woodland • Sensitive local native resources • Rock outcrops/rocklands 	3:1
Category 4 <ul style="list-style-type: none"> • Natural communities ranked G4/S4/G5/S5 • California Rare Plant Rank 4 • Non-native grasslands 	2:1
Category 5 <ul style="list-style-type: none"> • Wildlife linkage or corridor or open space buffer 	1:1

Source: Los Angeles County Regional Planning 2020.

Note: SEA = Significant Ecological Area; CUP = Conditional Use Permit; G = Global; S = State.

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4 Methods

4.1 Literature/Database Review

The following data sources were reviewed to assist with the assessment of biological resources:

- CDFW California Natural Diversity Database (CNDDDB) (CDFW 2025a)
- USFWS Information for Planning and Consultation (USFWS 2025b)
- California Native Plant Society (CNPS) Rare Plant Inventory (CNPS 2025a)
- U.S. Department of Agriculture National Resources Conservation Service Web Soil Survey (USDA 2025a)
- CDFW Biogeographic Information and Observation System (CDFW 2025b)

Prior to conducting field surveys, Dudek reviewed regional CNDDDB occurrence data (CDFW 2025a), the Rare Plant Inventory (CNPS 2025a), and USFWS occurrence data (USFWS 2025c) for USGS 7.5-minute Acton and Pacifico Mountain quadrangles and the surrounding 14 quadrangles. In addition, Dudek reviewed the USFWS Information for Planning and Consultation (USFWS 2025b), the National Wetlands Inventory (USFWS 2025a), and the U.S. Department of Agriculture’s Natural Resources Conservation Service Web Soil Survey (USDA 2025a) to analyze the occurrence potential of special-status species and jurisdictional aquatic resources that are known to occur or may potentially occur within the study area.

Other literature reviewed included A Manual of California Vegetation, Online Edition (CNPS 2025b); the California Natural Community List (CDFW 2025c); State and Federally Listed Endangered, Threatened, and Rare Plants of California (CDFW 2025d); State and Federally Listed Endangered and Threatened Animals of California (CDFW 2025e); and the CDFW California Wildlife Habitat Relationships Life History Accounts and Range Maps (CDFW 2025f).

The following available resources were reviewed to assess the potential for jurisdictional waters: aerial photographs (Google Earth 2025; NETR 2025), the USGS Newhall 7.5-minute topographic quadrangle map (USGS 2018), the National Hydrography Dataset and Watershed Boundary Dataset (USGS 2023), and the USFWS National Wetland Inventory (USFWS 2025a).

4.2 Special-Status Plant and Wildlife Species Assessment

Endangered, rare, or threatened plant species as defined in CEQA Guidelines Section 15380(b) are referred to as “special-status plant species” and, as used in this report, include (1) plant species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of CESA and FESA (CDFW 2025d); and/or (2) plant species with a CRPR of 1 or 2 as designated by CNPS (2025a). Species with a CRPR of 3 or 4 generally do not qualify for protection under CEQA; therefore, they are not considered special-status, and impacts to these species are not analyzed in this report.

Endangered, rare, or threatened wildlife species as defined in CEQA Guidelines Section 15380(b) are referred to as “special-status wildlife species” and, as used in this report, include (1) wildlife species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of CESA and FESA (CDFW 2025e);

(2) California SSC as designated by CDFW (2025g); and (3) mammals and birds that are fully protected species as described in the California Fish and Game Code, Sections 4700 and 3511 (CDFW 2025h).

The potential for special-status plant species to occur within the Study Area was assessed based on known geographic and elevation ranges as well as habitat and soil conditions that are known to support species occurring in the region. The potential for special-status wildlife species to occur within the Study Area was assessed based on known geographic ranges, the presence/absence of suitable habitat, and other natural history elements that might predict their occurrence. After completion of the reconnaissance surveys, the potential for special-status plant and wildlife species to occur on or near the Project site was summarized according to the following categories:

- Known to occur
- High potential to occur
- Moderate potential to occur
- Low potential to occur
- Not expected to occur

Because not all species are accommodated precisely by a given category (i.e., category definitions may be too restrictive), an expanded rationale for each category assignment is provided:

- Known to occur: The species has been documented on the property by a reliable source.
- High potential to occur: The species has not been documented on the property but is known to recently occur in the vicinity, and suitable habitat is present.
- Moderate potential to occur: The species has not been documented on the property or in the vicinity, but the site is within the known range of the species, and suitable habitat for the species is present.
- Low potential to occur: The species has not been documented in the vicinity or on the property, but the site is within the known range of the species; however, suitable habitat for the species on site is of low quality.
- Not expected to occur: The property is outside the known geographic or elevational range of the species, and/or the site does not support suitable habitat for the species.

4.3 Field Effort

Surveys for the BESS facility site and Northern Gen-Tie option portions of the Study Area were conducted in 2023. In 2024, surveys were conducted on additional parcels for the Southern Gen-Tie option. Dudek conducted comprehensive surveys for sensitive plants for the BESS and Northern Gen-Tie option portions of the Study Area in the spring of 2023 following an above-average wet season. Dudek conducted surveys for Crotch's bumble bee (*Bombus crotchii*) in the summer of 2024 on the BESS and Northern Gen-Tie option portions of the Study Area. Dudek conducted supplemental Crotch's bumble bee surveys in 2025 for parcels associated with the Southern Gen-Tie option of the Study Area. Table 2, Schedule of Surveys, shows the survey type, date, time, conditions, and biologist(s) for each survey.

Table 2. Schedule of Surveys

Date	Focus	Biologists	Time	Survey Conditions
1/6/2023	<ul style="list-style-type: none"> Vegetation mapping Jurisdictional delineation 	MM, ES	7:30 a.m. – 2:55 p.m.	38°F–52°F; 0%–10% cloud cover; 1–8 mph wind
1/11/2023	<ul style="list-style-type: none"> Vegetation mapping Jurisdictional delineation 	MM, ES	Not recorded	Not recorded
1/12/2023	<ul style="list-style-type: none"> Vegetation mapping Jurisdictional delineation 	MM, ES	Not recorded	Not recorded
4/28/2023	<ul style="list-style-type: none"> Rare plants 	VG, TP	6:40 a.m. – 3:04 p.m.	60°F–80°F; 0% cloud cover; 0–2 mph wind
4/28/2023	<ul style="list-style-type: none"> Rare plants 	TP	6:40 a.m. – 2:46 p.m.	57°F–94°F; 0% cloud cover; 0–2 mph wind
5/1/2023	<ul style="list-style-type: none"> Rare plants 	CB, DM, SN, JR	7:30 a.m. – 3:25 p.m.	48°F–61°F; 60%–90% cloud cover; 3–5 mph wind
5/2/2023	<ul style="list-style-type: none"> Rare plants 	DM, VG, SN, JR	7:30 a.m. – 3:25 p.m.	48°F–70°F; 60%–90% cloud cover; 3–5 mph wind
6/12/2024	<ul style="list-style-type: none"> Crotch’s bumble bee 	CA, AC, SL, KN	9:30 a.m. – 10:17 a.m.	74°F–80°F; 0% cloud cover; 0–4 mph wind
6/22/2023–7/7/2023	<ul style="list-style-type: none"> Protected tree mapping 	ACa, ST, AP	Not recorded	Not recorded
7/1/2024	<ul style="list-style-type: none"> Crotch’s bumble bee 	LB, JE, DS	7:41 a.m. – 1:34 p.m.	73°F–90°F; 0% cloud cover; 0–8 mph wind
7/2/2024	<ul style="list-style-type: none"> Crotch’s bumble bee 	JE	7:02 a.m. – 9:07 a.m.	70°F–81°F; 1–7 mph wind
7/23/2024	<ul style="list-style-type: none"> Crotch’s bumble bee 	LB	7:27 a.m. – 10:54 a.m.	80°F–95°F; 0%–50% cloud cover; 0–1 mph wind
7/24/2024	<ul style="list-style-type: none"> Crotch’s bumble bee 	LB	7:18 a.m. – 11:01 a.m.	80°F–95°F; 0% cloud cover; 0–2 mph wind
11/18/2024	<ul style="list-style-type: none"> Vegetation mapping Jurisdictional delineation 	ES, ZP	8:50 a.m. – 12:56 p.m.	49°F–56°F; 0% cloud cover; 5–16 mph wind
11/19/2024	<ul style="list-style-type: none"> Vegetation mapping Jurisdictional delineation 	TP, RS	9:30 a.m. – 3:35 p.m.	53°F–54°F; 0% cloud cover; 1–7 mph wind
2/26/2025	<ul style="list-style-type: none"> Raptor nest survey 	TP, RS	8:28 a.m. – 3:30 p.m.	63°F–78°F; 0% cloud cover; 2–15 mph wind
4/16/2025	<ul style="list-style-type: none"> Crotch’s bumble bee 	CA, ES	8:21 a.m. – 1:08 p.m.	48°F–59°F; 30%–100% cloud cover; 0–3 mph wind
5/21/2025	<ul style="list-style-type: none"> Crotch’s bumble bee 	CA, ES	8:21 a.m. – 1:08 p.m.	59°F–71°F; 0% cloud cover; 0–1 mph wind
6/5/2025	<ul style="list-style-type: none"> Rare plants 	RSw	7:00 a.m. – 12:00 a.m.	84°F; 0% cloud cover; 0–5 mph wind

Table 2. Schedule of Surveys

Date	Focus	Biologists	Time	Survey Conditions
6/30/2025	<ul style="list-style-type: none"> Crotch’s bumble bee 	ES, LB	9:16 a.m. – 1:30 p.m.	79° F–86° F; 0% cloud cover
8/22/2025	<ul style="list-style-type: none"> Jurisdictional delineation 	ES, RS	Not recorded	Not recorded

Notes: °F = degrees Fahrenheit; mph = miles per hour.

Biologists: AC = Anna Cassidy; ACa = Aida Castro; AP = Ana Pflieger; CA = Callie Amoaku; CB = Chelsea Bowers-Doerning; DM = Dilip Mahto; DS = Dahlia Serrato; ES = Eilleen Salas; JE = Joshua Elson; JR = Jacob Rogers; KN = Kimberly Narel; LB = Luz Badillo; MM = Max Murray; RS = Ryan Stanley; RSw = Robert Sweet; SL = Sony Leming; SN = Sandra Nash; ST = Sarah Tian; TP = Tracy Park; VG = Valerie Goodwin; ZP = Zarina Pringle.

4.3.1 Vegetation Community and Land Cover Mapping

Vegetation communities and land uses within the Study Area were mapped in the field using Esri Collector, a mobile data collection application, on a digital aerial-based background (Esri 2025). Following completion of the fieldwork, all vegetation linework was finalized using Esri ArcGIS software, and geographic information system coverage was created. Once in ArcGIS, the acreage of each vegetation community and land cover type within the Study Area was determined. Vegetation communities within the Study Area were mapped using CDFW’s List of Vegetation Alliances and Associations (or California Natural Community List) (CDFW 2025c), which is based on A Manual of California Vegetation, Second Edition (Sawyer et al. 2009) and A Manual of California Vegetation, Online Edition (CNPS 2025b), where feasible, with modifications made to accommodate the lack of conformity of the observed communities (e.g., developed/disturbed land cover types) using Oberbauer et al. (2008) and Jones and Stokes (1993). Vegetation communities were classified based on site factors, descriptions, distribution, and characteristic species present within an area. Each natural community was mapped to the association level, where feasible. Special-status vegetation communities are those communities identified as high priority for inventory in the California Natural Community List (CDFW 2025c).

4.3.2 Aquatic Resource Delineation

Prior to conducting the jurisdictional delineation, USFWS National Wetland Inventory data (USFWS 2025a) was reviewed to determine if the Study Area contained any features mapped by USFWS. Site-specific topographical data was reviewed in conjunction with aeriels, both current and historical, to determine the potential presence of non-wetland waters. Current vegetation mapping was reviewed to assess whether the Study Area supported hydrophytic vegetation and potential wetlands. Jurisdictional boundaries were mapped in the field using Esri Collector on a mobile device with sub-meter accuracy. Remote sensing was not used for the delineation.

U.S. Army Corps of Engineers – Potential Waters of the United States

The USACE wetlands delineation was conducted in accordance with the 1987 USACE Wetlands Delineation Manual (USACE 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a). A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual (USACE 2008b) was used to determine the limits of non-wetland waters. Non-wetland waters were delineated on aerial maps in conjunction with Esri Collector on a mobile device. The widths of each non-wetland water were determined in the field according to the OHWM manual. USACE OHWM forms were completed at representative cross-sections of non-wetland waters to capture their characteristics and widths.

Regional Water Quality Control Board – Potential Waters of the United States and Waters of the State

Waters of the state regulated by RWQCB were mapped in accordance with the State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (SWRCB 2021). As described in these procedures, wetland waters of the state are mapped based on the procedures in the Corps of Engineers Wetlands Delineation Manual (USACE 1987) and its 2008 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0) (USACE 2008a). Non-wetland waters are mapped at the OHWM based on the procedures defined in A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States: A Delineation Manual (USACE 2008b).

California Department of Fish and Wildlife – Streams

Potential CDFW jurisdictional areas were mapped to include the bank of the stream/channel and outer dripline of adjacent riparian vegetation, as set forth under California Fish and Game Code Section 1602. Streambeds under the jurisdiction of CDFW were delineated using the Cowardin method of waters classification, which defines waters boundaries by a single parameter (i.e., hydric soils, hydrophytic vegetation, or hydrology) (Cowardin et al. 1979).

4.3.3 Rare Plants

The rare plant surveys were guided by the CNPS Botanical Survey Guidelines (CNPS 2001) and CDFW Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities (CDFW 2018). The biologists walked transects in suitable habitat, spaced approximately 5 meters to 10 meters apart based on the density of vegetative cover, throughout the Study Area. Digital mobile maps and 200-scale topographic plots of vegetation polygons were utilized to navigate the survey area. Plant species encountered during the field surveys were identified to subspecies or variety, if applicable, to determine sensitivity status. When rare plants were encountered, field personnel recorded data points demarcating the edge of polygon surrounding the population and assessed population numbers using a GPS with sub-meter accuracy.

4.3.4 California Desert Native Plants Act

Dudek biologists conducted a focused desert native plant survey within the survey area (defined as the Project impact footprint and a 150-foot buffer, where accessible). The desert native plant survey was focused on the species subject to the CDNPA. Biologists walked meandering transects spaced approximately 10 meters apart to obtain 100% visual coverage of the survey area. If desert native plants identified under the CDNPA were encountered, field personnel recorded data points using a GPS with sub-meter accuracy (i.e., Trimble® GeoXT) and a data dictionary. The data dictionary included, at a minimum, the species name, the number of individuals, and the botanist collecting the data. The survey methodology and results were documented in a memorandum, with figures illustrating the location of the mapped desert native plants and representative photos of the species.

4.3.5 Crotch's Bumble Bee Surveys

The surveys for Crotch's bumble bee were conducted in accordance with the CDFW survey guidance (CDFW 2023). The survey passes were led by Callie Amoaku, who holds a Memorandum of Understanding and Scientific Collecting Permit to capture Crotch's bumble bee. Dudek conducted five (5) protocol level surveys for Crotch's bumble bee spaced in June and July 2024 (June 12, July 1, July 2, July 23, and July 24), and three (3) in April, May, and June

2025 (April 16, May 21, and June 30). The surveys were split across 2 years because the Project owner did not have access to the entire Project gen-tie area during the 2024 surveys. The 2024 surveys were conducted from June through July, during the Colony Active Period of April through August, which according to CDFW guidelines had the highest detection period, and were spaced between 2 and 4 weeks apart. The three (3) 2025 surveys, which covered the remainder of the Project site and the BESS location, were conducted between April and June, which is during the Colony Active Period. The 2025 surveys were spaced 4 weeks apart to cover a wider period during the Colony Active Period while also meeting recommended guidelines.

The surveys were conducted during optimal conditions when there were sunny to partly sunny skies with temperatures that were greater than 60°F. Suitable habitat within the Study Area was visually surveyed for 1 person-hour per 3 acres of potential habitat. Biologists walked wandering transects through these resources with a goal of observing bumble bees in passing and observing bumble bee nest sites associated with small mammal burrows or other appropriate soil cavities.

4.3.6 Raptor Nest Survey

Surveys for nesting raptors (i.e., eagles, hawks, kites, falcons, and owls) were conducted in early 2025. Dudek biologists conducted a 1-day survey for the Study Area and a 500-foot buffer, with a focus on areas with larger trees and shrubs, residential areas with large ornamental trees, and transmission towers that have potential to support raptor nests.

4.3.7 Protected Tree Census

The portions of the Study Area east of the railroad tracks, south of Carson Mesa Road and the SCE Vincent Substation, and east of the SCE substation are within a County of Los Angeles SEA (County of Los Angeles 2025). The County's SEA Ordinance includes 60 tree species to be protected, including all sizes of California juniper (*Juniperus californica*) (Los Angeles County Regional Planning 2020). Dudek biologists mapped the California juniper within the SEA portions of the Study Area. Field personnel recorded data points and circumference for each individual plant using a mobile device with sub-meter accuracy. An evaluation of existing health for each California juniper was conducted. Appendix A, Protected Tree Report, has additional details on the census.

5 Results

The cumulative results of the surveys can be found in Appendix B, Biological Constraints Map.

5.1 Vegetation Communities and Land Covers

All plant species encountered during the field reconnaissance surveys and jurisdictional delineations were identified and recorded. Latin and common names for plant species with a CRPR (formerly CNPS List) follow the CNPS Rare Plant Inventory (CNPS 2025a). For plant species without a CRPR, Latin names follow Jepson eFlora (Jepson Flora Project 2025), and common names follow the California Natural Community List (CDFW 2025c) or the U.S. Department of Agriculture Natural Resources Conservation Service PLANTS Database (USDA 2025b). A list of plant species observed in the Study Area during initial surveys is presented in Appendix C, Potential to Occur Tables and Compendia.

Six (6) vegetation communities are considered sensitive by CDFW. The vegetation communities and land cover locations are summarized in Table 3, Vegetation Communities and Land Covers in the Study Area, and illustrated in Figure 4, Vegetation Communities and Land Cover. Vegetation communities within 1,000 feet of the gen-tie route options are expected to be similar to the Study Area because there are no significant changes in topography, geology, or hydrology within that distance.

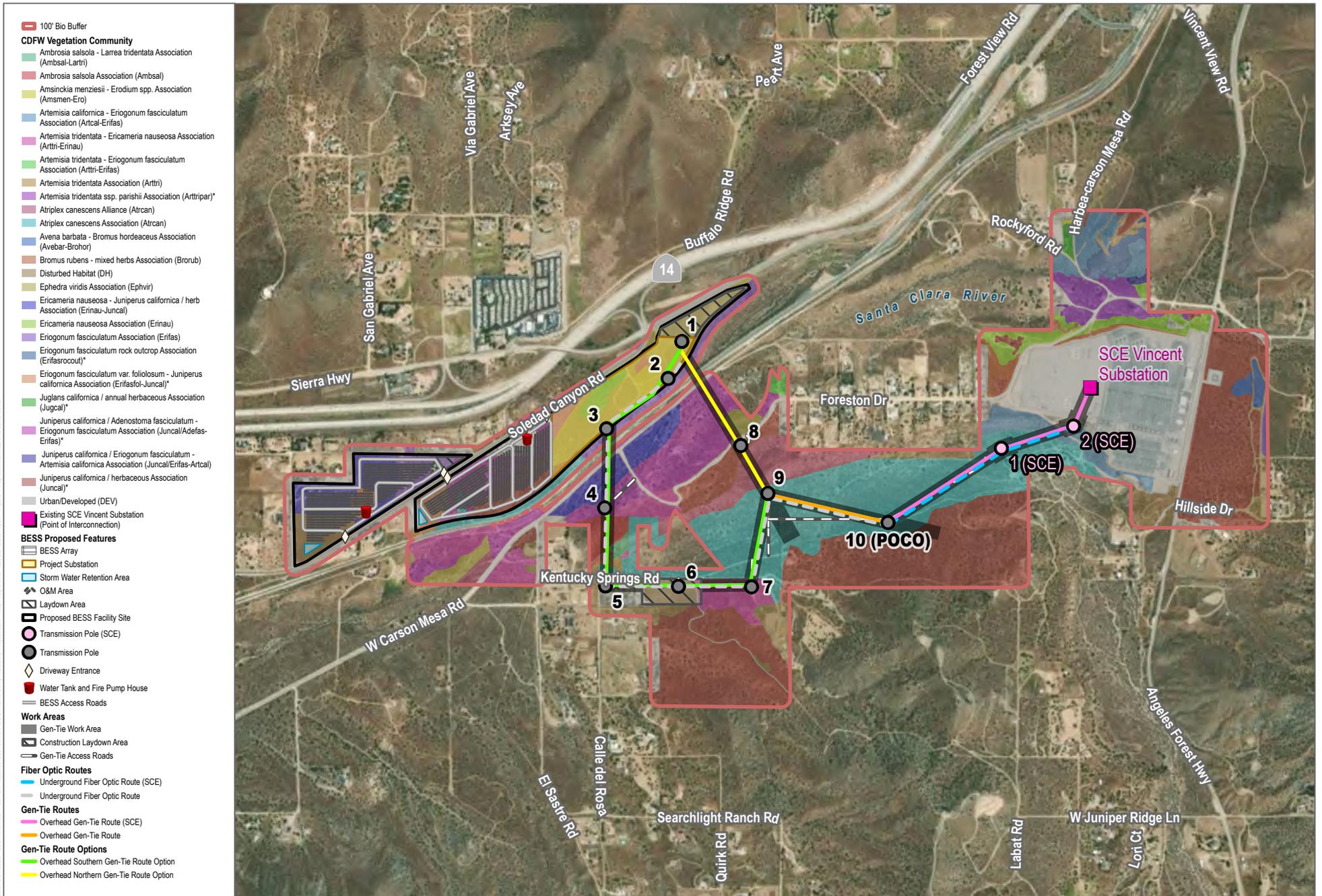
Table 3. Vegetation Communities and Land Covers in the Study Area

Alliance	Association	Acres
Cheesebush – sweetbush scrub	<i>Ambrosia salsola</i> – <i>Larrea tridentata</i>	0.82
	<i>Ambrosia salsola</i> Association	2.60
Fiddleneck – phacelia fields	<i>Amsinckia menziesii</i> – <i>Erodium</i> spp.	2.21
California sagebrush – (purple sage) scrub	<i>Artemisia californica</i> – <i>Eriogonum fasciculatum</i>	12.68
Big sagebrush	<i>Artemisia tridentata</i> – <i>Ericameria nauseosa</i>	15.42
	<i>Artemisia tridentata</i> – <i>Eriogonum fasciculatum</i>	3.98
	<i>Artemisia tridentata</i>	0.48
	<i>Artemisia tridentata</i> ssp. <i>parishii</i>	7.66
Fourwing saltbush scrub	<i>Atriplex canescens</i>	75.57
Mormon tea scrub	<i>Ephedra viridis</i>	20.87
Rubber rabbitbrush scrub	<i>Ericameria nauseosa</i> – <i>Juniperus californica</i> / herb	18.49
	<i>Ericameria nauseosa</i>	5.38
California buckwheat scrub	<i>Eriogonum fasciculatum</i>	4.75
	<i>Eriogonum fasciculatum</i> var. <i>foliolosum</i> – <i>Juniperus californica</i>	4.50
California buckwheat – Parish’s goldeneye scrub	<i>Eriogonum fasciculatum</i> rock outcrop	3.82
California walnut groves	<i>Juglans californica</i> / annual herbaceous	0.89
California juniper woodland	<i>Juniperus californica</i> / <i>Adenostoma fasciculatum</i> – <i>Eriogonum fasciculatum</i>	31.66
	<i>Juniperus californica</i> / herbaceous	106.67

Table 3. Vegetation Communities and Land Covers in the Study Area

Alliance	Association	Acres
	<i>Juniperus californica</i> / <i>Eriogonum fasciculatum</i> - <i>Artemisia californica</i>	0.23
<i>Subtotal:</i>		317.35
Naturalized (Non-Native)		
Wild oats and annual brome grasslands	<i>Avena barbata</i> - <i>Bromus hordeaceus</i>	2.22
Red brome or Mediterranean grass grasslands	<i>Bromus rubens</i> - mixed herbs	2.99
<i>Subtotal:</i>		5.21
Land Cover Types		
Disturbed habitat	Not applicable	19.38
Urban/Developed	Not applicable	71.95
<i>Subtotal:</i>		91.33
Total:		413.88

Notes: Totals may not sum due to rounding.



SOURCE: World Imagery

FIGURE 4
Vegetation Communities and Land Cover
Prairie Song Reliability Project

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Native Vegetation Communities

Vegetation community descriptions are taken from A Manual of California Vegetation, Online Edition (CNPS 2025b).

Cheesebush – Sweetbush Scrub

Cheesebush – sweetbush scrub (*Ambrosia salsola* – *Bebbia juncea* Shrubland Alliance) has cheesebush (*Ambrosia salsola*), sweetbush (*Bebbia juncea*), woolly brickellbush (*Brickellia incana*), and/or desertsenna (*Senna armata*) as dominant or co-dominant in the shrub canopy with Wiggins' cholla (*Cylindropuntia echinocarpa*), brittlebush (*Encelia farinosa*), California jointfir (*Ephedra californica*), Mojave rabbitbrush (*Ericameria paniculata*), California buckwheat (*Eriogonum fasciculatum*), white ratany (*Krameria grayi*), creosote bush (*Larrea tridentata*), and beavertail pricklypear (*Opuntia basilaris*). This alliance can be found on intermittently flooded channels, arroyos, washes, valleys, flats, and rarely flooded low-gradient deposits. Soils are alluvial, sandy and gravelly, and disturbed desert pavement. Two (2) associations of the alliance were mapped within the Study Area: *Ambrosia salsola* – *Larrea tridentata* and *Ambrosia salsola* Association. These associations were mapped in the gen-tie portion Study Area.

Fiddleneck – Phacelia Fields

Fiddleneck – phacelia fields (*Amsinckia [menziesii, tessellata]* – *Phacelia* spp. Herbaceous Alliance) has Menzies' fiddleneck (*Amsinckia menziesii*), bristly fiddleneck (*Amsinckia tessellate*) and/or *Phacelia* spp. or other *Amsinckia* sp. as seasonally co-dominant in the herbaceous layer. Additional local species present include California saltbush (*Atriplex californica*), *Avena* spp., ripgut brome (*Bromus diandrus*), soft brome (*Bromus hordeaceus*), red brome (*Bromus rubens*), exserted Indian paintbrush (*Castilleja exserta*), and *Erodium* spp. Emergent shrubs may be present at low cover. This alliance can be found along upland slopes, broad valleys, ocean bluffs, grazed or recently burned hills, and fallow fields. Soils are well drained and loamy, and they are often subject to high levels of disturbance. One (1) association of the alliance, *Amsinckia menziesii* – *Erodium* spp., was mapped in the BESS portion of the Study Area.

California Sagebrush – (Purple Sage) Scrub

California sagebrush – (purple sage) scrub (*Artemisia californica* – [*Salvia leucophylla*] Shrubland Alliance) has California sagebrush and/or purple sage (*Salvia leucophylla*) as dominant or co-dominant in the shrub canopy with chamise, coyotebrush (*Baccharis pilularis*), bladderpod spiderflower (*Cleome isomeris*), orange bush monkeyflower (*Diplacus aurantiacus*), California brittlebush (*Encelia californica*), brittlebush, California jointfir, narrowleaf goldenbush (*Ericameria linearifolia*), California buckwheat, and chaparral yucca (*Hesperoyucca whipplei*). This alliance can be found on slopes of variable aspects, but usually steep and rarely flooded, low-gradient deposits along streams. Soils are alluvial or colluvial derived. One (1) association of the alliance, *Artemisia californica* – *Eriogonum fasciculatum*, was mapped in the gen-tie portion Study Area.

Big Sagebrush

Big sagebrush (*Artemisia tridentata* Alliance) has big sagebrush (*Artemisia tridentata*) as dominant or co-dominant in the shrub canopy with Acton's encelia (*Encelia actoni*), Mormon tea (*Ephedra viridis*), and California buckwheat. Shrub canopy is open to continuous, and emergent trees may be present at low cover. The herbaceous layer is usually sparse to intermittent and grassy. This alliance can be found on plains, alluvial fans, bajadas, pediments, lower slopes, valley bottoms, seasonal and perennial stream channels, and dry washes. Soils are well drained and

consist of loam or sand. Three (3) associations of the alliance were mapped within the Study Area: *Artemisia tridentata* Association, *Artemisia tridentata* – *Eriogonum fasciculatum* Association, and *Artemisia tridentata* – *Ericameria nauseosa* Association. These associations were found in the BESS and Southern Gen-tie portions of the Study Area.

Fourwing Saltbush Scrub

Fourwing saltbush scrub (*Atriplex canescens* Shrubland Alliance) has fourwing saltbush (*Atriplex canescens*) as dominant or co-dominant in the shrub canopy with burrobush (*Ambrosia dumosa*), cheesebush, spiny saltbush (*Atriplex confertifolia*), cattle spinach (*Atriplex polycarpa*), Mormon tea, hop sage (*Grayia spinosa*), and creosote bush. Emergent trees may be present at low cover. This alliance can be found along playas, old beaches and shores, lake deposits, dissected alluvial fans, rolling hills, or channel beds. Soils are carbonate rich, alkaline, sandy, or sandy clay loams. One (1) association, *Atriplex canescens*, was mapped in the gen-tie portion Study Area.

Mormon Tea Scrub

Mormon tea scrub (*Ephedra viridis* Shrubland Alliance) has Mormon tea as dominant or co-dominant in the shrub canopy with big sagebrush and rubber rabbitbrush (*Ericameria nauseosa*). Emergent trees may be present at low cover, including California juniper. This alliance can be found along ridges, hills, mountains, and channel beds. Soils are shallow and derived from alluvium, granitic substrate, bedrock, and colluvium. One (1) association, *Ephedra viridis*, was mapped primarily in the BESS portion of the Study Area.

Rubber Rabbitbrush Scrub

Rubber rabbitbrush scrub (*Ericameria nauseosa* Shrubland Alliance) has rubber rabbitbrush as dominant or co-dominant in the shrub canopy with big sagebrush, *Ephedra* spp., and California buckwheat. Emergent trees may be present at low cover, including California juniper. This alliance can be found along all topographic settings, especially in disturbed settings. Soils are well-drained sands and gravels. Two (2) associations, *Ericameria nauseosa* and *Ericameria nauseosa* – *Juniperus californica*/herb, were mapped within the BESS and gen-tie portions of the Study Area.

California Buckwheat Scrub

California buckwheat scrub (*Eriogonum fasciculatum* Shrubland Alliance) has California buckwheat or chaparral yucca as dominant or co-dominant in the shrub canopy in cismontane stands with California sagebrush, coyotebrush, orange bush monkeyflower, California brittlebush, brittlebush, and Menzies' goldenbush (*Isocoma menziesii*). Emergent trees may be present at low cover, including California juniper. This alliance can be found in upland slopes, intermittently flooded arroyos, channels and washes, and rarely flooded low-gradient deposits. Soils are coarse, well drained, and moderately acidic to slightly saline. Two (2) associations, *Eriogonum fasciculatum* and *Eriogonum fasciculatum* var. *foliolosum* – *Juniperus californica*, were mapped in the BESS and north of the Vincent Substation portions of the Study Area.

California Buckwheat – Parish's Goldeneye Scrub

California buckwheat – Parish's goldeneye scrub (*Eriogonum fasciculatum* – *Viguiera parishii* Shrubland Alliance) has California buckwheat and/or Parish's goldeneye (*Viguiera parishii*) as dominant or co-dominant in the shrub canopy with burrobush, cheesebush, big sagebrush, sweetbush, blackbrush (*Coleogyne ramosissima*), buck-horn

cholla (*Cylindropuntia acanthocarpa*), Wiggins' cholla, brittlebush, and Nevada jointfir (*Ephedra nevadensis*). This alliance can be found in wash and arroyo margins, rocky to bouldery alluvium, canyons, and moderate to steep colluvial slopes and ridges. Soils are well drained and derived from granitic or volcanic rock. One (1) association, *Eriogonum fasciculatum* rock outcrop, was mapped north of the Vincent Substation in the Study Area.

California Walnut Groves

California walnut groves (*Juglans californica* Forest and Woodland Alliance) have Southern California walnut (*Juglans californica*) as dominant or co-dominant in the tree canopy with other native trees. One (1) association, *Juglans californica*/annual herbaceous, was mapped adjacent to residential property (possibly ornamental plantings in origin) north of the Vincent Substation in the Study Area.

California Juniper Woodland

California juniper woodland has California juniper as dominant or co-dominant in the small tree canopy with single-leaf pinyon (*Pinus monophyla*) and blue oak (*Quercus douglasii*). Local shrubs may include big sagebrush *Ephedra* spp., chaparral yucca, and scale broom (*Lepidospartum squamatum*). This alliance can be found along ridges, slopes, valleys, alluvial fans, and valley bottoms. Soils are porous, rocky, coarse, sandy, or silty, and are often very shallow. Three (3) associations, *Juniperus californica*, *Juniperus californica* – *Adenostoma fasciculatum* – *Eriogonum fasciculatum*, and *Juniperus californica* – *Ericameria linearifolia*/annual-perennial herb, were mapped within the BESS and gen-tie portions of the Study Area.

Naturalized (Non-Native) Vegetation Communities

Wild Oats and Annual Brome Grasslands

Wild oats and annual brome grasslands (*Avena* spp. – *Bromus* spp. Herbaceous Semi-Natural Alliance) has slender oat (*Avena barbata*), common wild oat (*Avena fatua*), stiff brome (*Brachypodium distachyon*), greater quaking-grass (*Briza maxima*), ripgut brome, soft brome, and/or wall barley (*Hordeum murinum*) as dominant or co-dominant with other non-natives in the herbaceous layer. Emergent trees and shrubs may be present at low cover. This alliance can be found along all topographic settings in foothills, waste places, rangelands, and openings in woodlands. One (1) association, *Bromus hordeaceus* – *Amsinckia menziesii* – *Hordeum murinum*, was mapped adjacent to the Vincent Substation in the Study Area.

Red Brome or Mediterranean Grass Grasslands

Red brome or Mediterranean grass grasslands (*Bromus rubens* – *Schismus* [*arabicus*, *barbatus*] *Bromus rubens* Alliance) has red brome, Arabian schismus (*Schismus arabicus*), and/or common Mediterranean grass (*Schismus barbatus*) as dominant or co-dominant with other non-natives in the herbaceous layer. Emergent shrubs may be present at low cover. This habitat can be found in all topography settings and soil textures. One (1) association, *Bromus rubens* – mixed herbs, was mapped adjacent to the Vincent Substation in the Study Area.

Disturbed and Developed Land Cover Types

Disturbed Habitat

Although not recognized by the Manual of California Vegetation, Online Edition (CNPS 2025b) or the California Natural Community List (CDFW 2025c), disturbed habitat is described in the Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008). Disturbed habitat is described as areas generally lacking vegetation due to high levels of existing or historical human disturbance that are no longer recognizable as a native or naturalized vegetation association. Areas mapped as disturbed habitat may include unpaved roads, trails, and graded areas (Oberbauer et al. 2008). Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species (Oberbauer et al. 2008). Areas mapped as disturbed habitat were found throughout the Study Area and were usually associated with developments or infrastructure.

Urban/Developed

Although not recognized by the Manual of California Vegetation (CNPS 2025b) or the California Natural Community List (CDFW 2025c), the urban/developed mapping unit (or developed land) is described in Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008). This mapping unit describes areas supporting human-made structures, including homes, yards, sidewalks, and other highly modified lands supporting structures associated with dwellings or other permanent structures. Vegetation in these areas, if present at all, is typically associated with ornamental landscaping that has been included in the development footprint (Oberbauer et al. 2008). Most of the developed lands in the Study Area included the large, paved substation and roads.

5.2 Special-Status Plant Species

Appendix C (CDFW 2025a; CNPS 2025a; USFWS 2025b) lists the 80 plant species that are considered endangered, rare, or threatened under CEQA Guidelines Section 15380 and that are known to occur within the 14 USGS 7.5-minute topographic quadrangles that the Study Area is in and the quadrangles that the 10-mile buffer intersects, as well as the species provided by the query of the USFWS' Information for Planning and Consultation. This appendix provides evaluations for each of the special-status species' occurrence in the Study Area vicinity and their potential to occur based on known range, habitat associations, preferred soil substrate, life form, elevation, and blooming period. Special-status plant species that have low potential or are not expected to occur are not further analyzed in this document because no direct, indirect, or cumulative impacts are expected based on the negative surveys and evaluation that these species do not have a moderate or high potential to occur on site.

Two (2) sensitive plant species, short-joint beavertail (*Opuntia basilaris* var. *brachyclada*) and golden linanthus (*Leptosiphon aureus*), were mapped during the focused special-status plant surveys in 2023 within the proposed gen-tie route portion of the Study Area, as shown in Figure 5, Biological Survey Results.

Short-Joint Beavertail

Short-joint beavertail has a CRPR of 1B.2, which is defined as plants rare, threatened, or endangered in California and elsewhere, with 20%–80% of occurrences threatened (CNPS 2025a). The species is a cactus that can be found in creosote bush scrub, chaparral, pinyon-juniper woodland, and Joshua tree woodland (CDFW 2025a). Short-joint beavertail was mapped within the proposed gen-tie alignment portion of the Study Area, as shown in Figure 5.

Golden Linanthus

Golden linanthus has a CRPR of 4.2, which is defined as a plant with limited distribution and is moderately threatened in California (CNPS 2025a). The species can be found in chaparral, cismontane woodland, coastal prairie, and valley and foothill grassland (CDFW 2025a). The species was mapped within the proposed gen-tie alignment portion of the Study Area, as shown in Figure 5.

5.3 Special-Status Wildlife Species

Appendix C (CDFW 2025a; CNPS 2025a; USFWS 2025b) lists the 61 wildlife species that are considered endangered, rare, or threatened under CEQA Guidelines Section 15380 and that are known to occur within the 14 USGS 7.5-minute topographic quadrangles that the Study Area is in and the quadrangles that the 10-mile buffer intersects, as well as the species provided by the query of the USFWS' Information for Planning and Consultation. This appendix provides evaluations for each of the special-status species' occurrence in the Study Area vicinity and their potential to occur based on known range and habitat associations. Special-status wildlife species that have low potential or are not expected to occur are not further analyzed in this document because no direct, indirect, or cumulative impacts are expected based on the negative surveys and evaluation that these species do not have a moderate or high potential to occur on site.

Two (2) special-status species were observed foraging in the BESS portion of the Study Area, loggerhead shrike (*Lanius ludovicianus*) and greater roadrunner (*Geococcyx californianus*). The following six (6) special-status species had moderate to high potential to occur in the Study Area: Crotch's bumble bee, California legless lizard (*Anniella* spp.), Blainville's horned lizard (*Phrynosoma blainvillii*), Southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*), Bell's sage sparrow (*Artemisiospiza belli belli*), and mountain lion (*Puma concolor*). One species in the previous list, mountain lion, has a high potential to occur as a transient. The 52 special-status species with a low potential to occur (six [6] species) or species that are not expected to occur (46 species) are excluded from further discussion below, except for western burrowing owl (*Athene cunicularia hypugaea*) and American badger (*Taxidea taxus*). A discussion of western burrowing owl is provided below; however, since burrowing owl is not expected in the Study Area, it is not further analyzed apart from the discussion in this section. Sensitive wildlife species potential within 1,000 feet of the gen-tie route options are expected to be similar to the Study Area because there are no significant changes in topography, geology, or hydrology within that distance.

Crotch's Bumble Bee

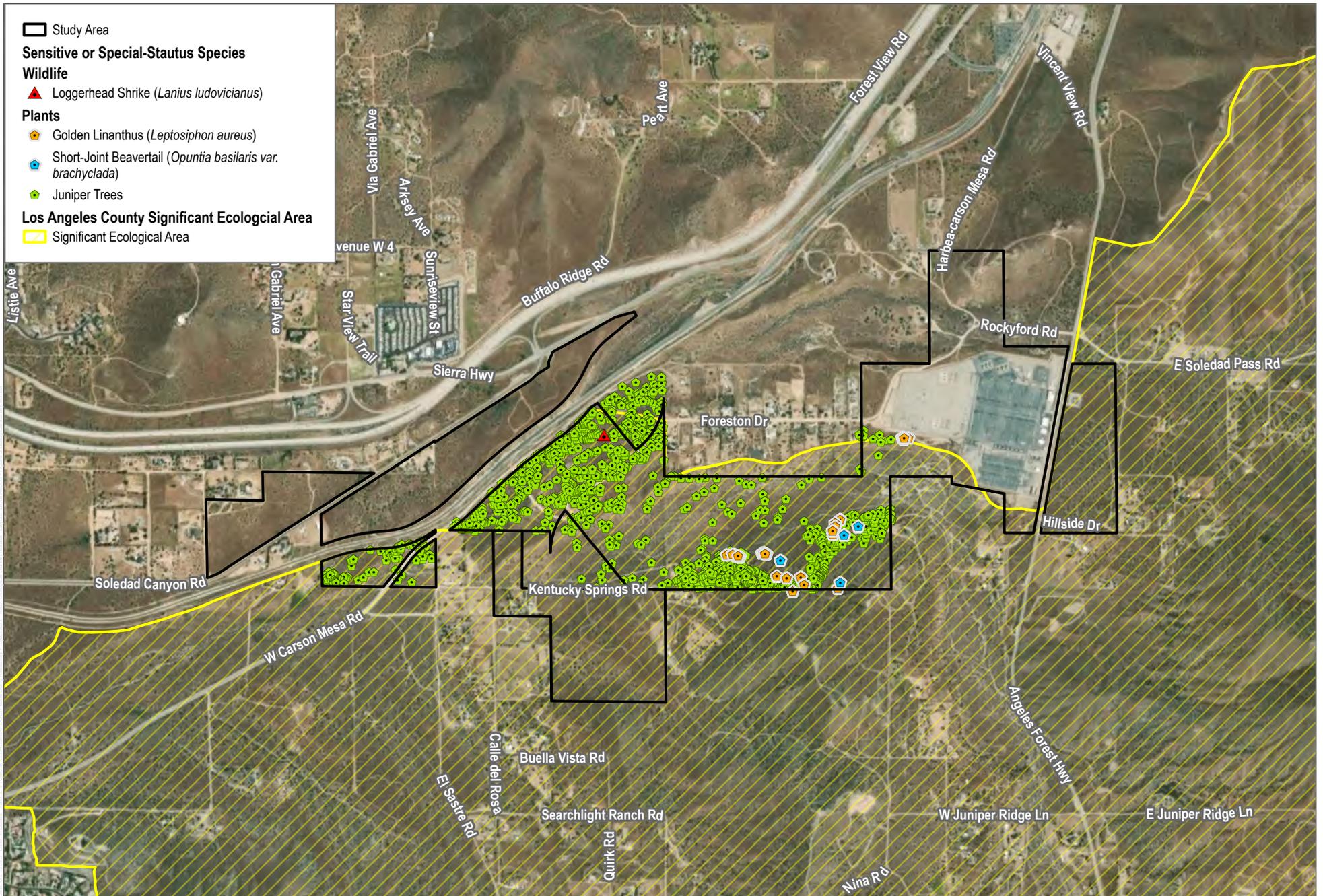
Crotch's bumble bee is a candidate for listing as "Endangered" under CESA and is afforded the protection of CESA while the California Fish and Game Commission decides if listing the species is warranted. This species occurs primarily in California, including the Mediterranean region, Pacific Coast, Western Desert, Great Valley, and adjacent foothills through most of southwestern California (The Xerces Society 2018). In California, the species inhabits open grassland and scrub habitats (The Xerces Society 2018). The size of Crotch's bumble bee colonies has not been well documented, but like most other species of bumble bees, the species primarily nests underground (The Xerces Society 2018). Bumble bees, including Crotch's bumble bee, are generalist foragers and have been reported visiting a wide variety of flowering plants. Since it has a very short tongue, Crotch's bumble bee is best suited to forage at open flowers with short corollas (The Xerces Society 2018). The plant families most associated with observations or collections of the species from California include Fabaceae, Apocynaceae, Asteraceae, Lamiaceae, and Boraginaceae (The Xerces Society 2018). Nectar plants known to be visited by Crotch's bumble bee include the

genera *Asclepias*, *Chaenactis*, *Lupinus*, *Medicago*, *Phacelia*, and *Salvia* (Williams et al. 2014; Xerces Society et al. 2018), but it is assumed flowering plants in other genera could also support foraging by this species.

Crotch's bumble bee could use small mammal burrows within all the vegetation communities in the Study Area and forage on suitable plant species within those communities. However, no Crotch's bumble bee were observed during the surveys that occurred over two (2) survey seasons. No bumble bees of any kind were observed during that period. Floral resources for the species are present but in limited numbers, with the Study Area being dominated by California juniper woodland, fourwing saltbush scrub, and Mormon tea scrub, as shown in Table 3. Vegetation Communities and Land Covers in the Study Area. Additionally, there are few records for the occurrence of the species or any other bumble bee from the Acton region (CDFW 2025a; iNaturalist 2025; The Xerces Society 2025). Due to the limited foraging opportunities and the few records of bumble bees as a whole in the region, the Project is not expected to involve take of Crotch's bumble bee.

California Legless Lizard

This description provides information for three (3) potential species of legless lizard that may be found in the Study Area: Northern California legless lizard (*Anniella pulchra*), Southern California legless lizard (*Anniella stebbinsi*), and California legless lizard (*Anniella* spp.). This is due to the current uncertainty of the taxonomy of the genus in the Study Area's region (Nafis 2025). All three (3) are considered CDFW SSC. These species are most commonly found in coastal dunes and coastal scrub, but also oak woodland, Joshua tree woodland, and pinyon-juniper woodland (Hansen and Shedd 2025), and are generally found in moist, loose soil (CDFW 2025a). California legless lizard has moderate potential to occur in the Study Area beneath the larger California junipers due to the expected higher moisture content of the soil.



SOURCE: World Imagery

DUDEK



0 500 1,000 Feet

FIGURE 5

Biological Survey Results

Prairie Song Reliability Project

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Blainville's Horned Lizard

Blainville's horned lizard is a CDFW SSC that occurs throughout most of California in locations west of the desert and Cascade-Sierran highlands, in elevations from sea level to around 2,438 meters (8,000 feet) above mean sea level (Hansen and Shedd 2025). Despite a wide-ranging distribution, the species seems to be restricted to localized populations because of its association with loose soils that have a high sand content (Jennings and Hayes 1994). The species is found in a wide variety of vegetation types with the requisite loose sandy soils, including California sagebrush scrub, annual grassland, chaparral, oak woodland, riparian woodland, and coniferous forest (Klauber 1939; Stebbins 1954). Up to 90% of the diet of Blainville's horned lizard consists of native harvester ants (*Pogonomyrmex* spp.) (Pianka and Parker 1975), and the species does not appear to eat non-native Argentine ants (*Linepithema humile*) (Jennings and Hayes 1994). The species has a moderate potential to occur in a variety of the vegetation communities in the Study Area.

Greater Roadrunner

Observations of greater roadrunner were made in the Study Area but were not mapped since the species is highly mobile and expected to occur throughout the area. The species habitats include areas dominated by creosote, mesquite, chaparral, and tamarisk, as well as grasslands, riparian woodlands, and canyons (Cornell Lab 2025). Greater roadrunner nest sites are 3 to 10 feet or more off the ground, on a horizontal branch or in the crotch of a sturdy bush, cactus, or small tree (Cornell Lab 2025). Greater roadrunner is considered sensitive by the County (Los Angeles Audubon 2009). The species could use the California juniper in the Study Area for nesting and could forage throughout the Study Area.

Loggerhead Shrike

A single observation of loggerhead shrike was made in the Study Area, as shown in Figure 5. The species is a CDFW SSC that occurs throughout the United States, Mexico, and portions of Canada and is widespread at the lower elevations in California (Humple 2008). Preferred habitats for the species are open areas that include scattered shrubs, trees, posts, fences, utility lines, or other structures that provide hunting perches with views of open ground, as well as nearby spiny vegetation or human-made structures (such as the top of chain-link fences or barbed wire) that provide a location to impale prey items for storage or manipulation (Humple 2008). Nest sites are chosen based more on the cover than the particular vegetation species and are usually constructed in a dense shrub or tree well below the crown and are well concealed (Yosef 1996). The species could use the California juniper in the Study Area for nesting and could forage throughout the Study Area.

Southern California Rufous-Crowned Sparrow

Southern California rufous-crowned sparrow is on the CDFW Watch List and occurs in sparse, mixed chaparral and coastal scrub habitats (CDFW 2025a). The species frequents relatively steep, often rocky hillsides with grass and forb patches and also grassy slopes without shrubs, if rock outcrops are present (CDFW 2025a). The species has a moderate potential to occur on the slopes of the gen-tie portion of the Study Area.

Bell's Sage Sparrow

Bell's sage sparrow is on the CDFW Watch List and occupies semi-open habitats with evenly spaced shrubs that are 1 meters to 2 meters (3.3 feet to 6.6 feet) high (County of Riverside 2025). CDFW still recognizes *A. belli belli*, but the subspecies has been reclassified as its own species Bell's sparrow (*A. belli*), with the other subspecies *A.*

belli nevadensis reclassified as sagebrush sparrow (*A. nevadensis*). For site selection, specific shrub species may be less important than overall vertical structure, habitat patchiness, and vegetation density (Wiens and Rotenberry 1981). At higher elevations in Southern California, Bell's sage sparrow often occurs in big sagebrush (County of Riverside 2008). Sage sparrows seek cover in fairly dense stands in chaparral and scrub habitats during the breeding season. Bell's sage sparrow has a moderate potential to occur in the *Artemisia tridentata* dominant and co-dominant vegetation communities in the Study Area.

Mountain Lion

Mountain lions associated with Southern California and Central Coast populations are designated as a State candidate endangered species. On April 16, 2020, the California Fish and Game Commission voted to designate the Southern California and Central Coast mountain lions as a candidate for listing as an endangered species under CESA. The vote triggered a 1-year review by CDFW to determine whether these mountain lion populations should be formally protected under CESA; however, the listing status of this species is still currently unresolved at the time of this report.

The California mountain lion occurs throughout much of California open space, occurring in or moving through nearly all but the most urbanized settings. This species inhabits a wide range of habitat types where prey items such as mule deer (*Odocoileus hemionus*) and bighorn sheep (*Ovis canadensis*) are present, from interior, arid rocky scrublands, to upper montane coniferous forest, to chaparral, coastal scrub, and woodland habits along the coastal plain.

According to the Mountain Lion Predicted Habitat dataset (CDFW 2025b), the proposed BESS portion of the Study Area consists primarily of high-quality habitat and most of the proposed gen-tie route is within low quality habitat. However, CDFW's Mountain Lion Habitat Suitability dataset has most of the proposed BESS portion of the Study Area and gen-tie alignment as low suitable habitat (Dellinger et al. 2020; CDFW 2025b). As such, the species could occur throughout most of the Project area during home range movement, dispersal, and foraging. The potential to occur is based on habitat suitability: scrub vegetation, presence of mule deer, and proximity to high-quality habitat on large swaths of public lands to the east in the Angeles Nation Forest. However, females keep their young in dens located in rocky terrain or in dense vegetation that provide cover but avoid roads and stay at a distance from human disturbance four (4) times greater (approximately 600 meters) than non-reproductive mountain lions (Center for Biological Diversity and the Mountain Lion Foundation 2019). The Study Area is located adjacent to residential neighborhoods, Sierra Highway, the Southern Pacific Railroad lines, Carson Mesa Road, and SR-14, all of which have associated human presence. As such, females of the species are not expected to establish natal dens in the Study Area.

Western Burrowing Owl

As of October 15, 2024, western burrowing owl is being considered for listing under CESA, and the species is provided with the protection of CESA. Primary habitat requisites for burrowing owl are the presence of burrows for roosting and nesting and vegetation structure that is relatively short and sparse (Center for Biological Diversity et al. 2024). The species was historically abundant throughout southwestern California, including up to the 610-meter (2,001.31 feet) elevation contour in the Transverse Ranges, but have been extirpated from Ventura, western Los Angeles, and Orange Counties and are near extirpation in San Diego County (Center for Biological Diversity et al. 2024). The petition to list the species does not include the Study Area in the breeding range of the species and does not include the Study Area in one (1) of the 16 burrowing owl regions in California (Center for Biological Diversity et al. 2024).

CDFW's range and predicted habitat for burrowing owl does not include the Study Area (CDFW 2025f). There are five (5) CNDDDB records of the species within 10 miles that are in the Antelope Valley to the north of the Study Area, with the most recent being 2006 (CDFW 2025a). Citizen science-based databases have only five (5) records within 10 miles that are in the Antelope Valley to the north of the Study Area (eBird 2025; iNaturalist 2025).

The Study Area is dominated by shrub-dominant vegetation communities that have relatively high density. The Study Area elevation ranges from 2,700 feet to 3,500 feet above mean sea level, which is above the known historic occurrences of the species in the Transverse Ranges. California ground squirrel (*Otospermophilus beecheyi*) burrows are present but are sparse, and none of the extensive surveys of the Study Area have identified burrowing owl or diagnostic sign (i.e., pellets, feathers, and extensive whitewash). Based upon the lack of suitable habitat, the Study Area being above the known elevation occurrence of the species in the region, the lack of observations of the species during extensive surveys, and the limited number of records of the species within 10 miles, burrowing owl is not expected in the Study Area and will not be further analyzed.

American Badger

American badger is a CDFW SSC that is an uncommon, permanent resident found throughout most of the state, except in the northern North Coast (CDFW 2025f). Suitable habitat for the species is characterized by herbaceous, shrub, and open stages of most habitats with dry, friable soils (CDFW 2025f). American badger dig burrows in friable soil for dens and frequently reuse old burrows, although some may dig a new den each night, especially in summer (CDFW 2025f). American badger is a highly specialized burrowing mammal that primarily eats burrowing rats, mice, chipmunks, and especially ground squirrels and pocket gophers (CDFW 2025f).

There is one (1) CNDDDB record of American badger within 20 miles of the Study Area from 1930 at Lake Los Angeles (CDFW 2025a). There is one (1) 2021 iNaturalist record of the species approximately 8.6 miles to the west near Agua Dulce (iNaturalist 2025). American badger has been determined to have a low potential to occur in the Study Area due to the presence of suitable habitat, but no individuals were observed and no diagnostic signs (i.e., burrows or digs with the species' conspicuous claw marks) were observed during the extensive surveys of the Study Area. As such, the species will not be further analyzed.

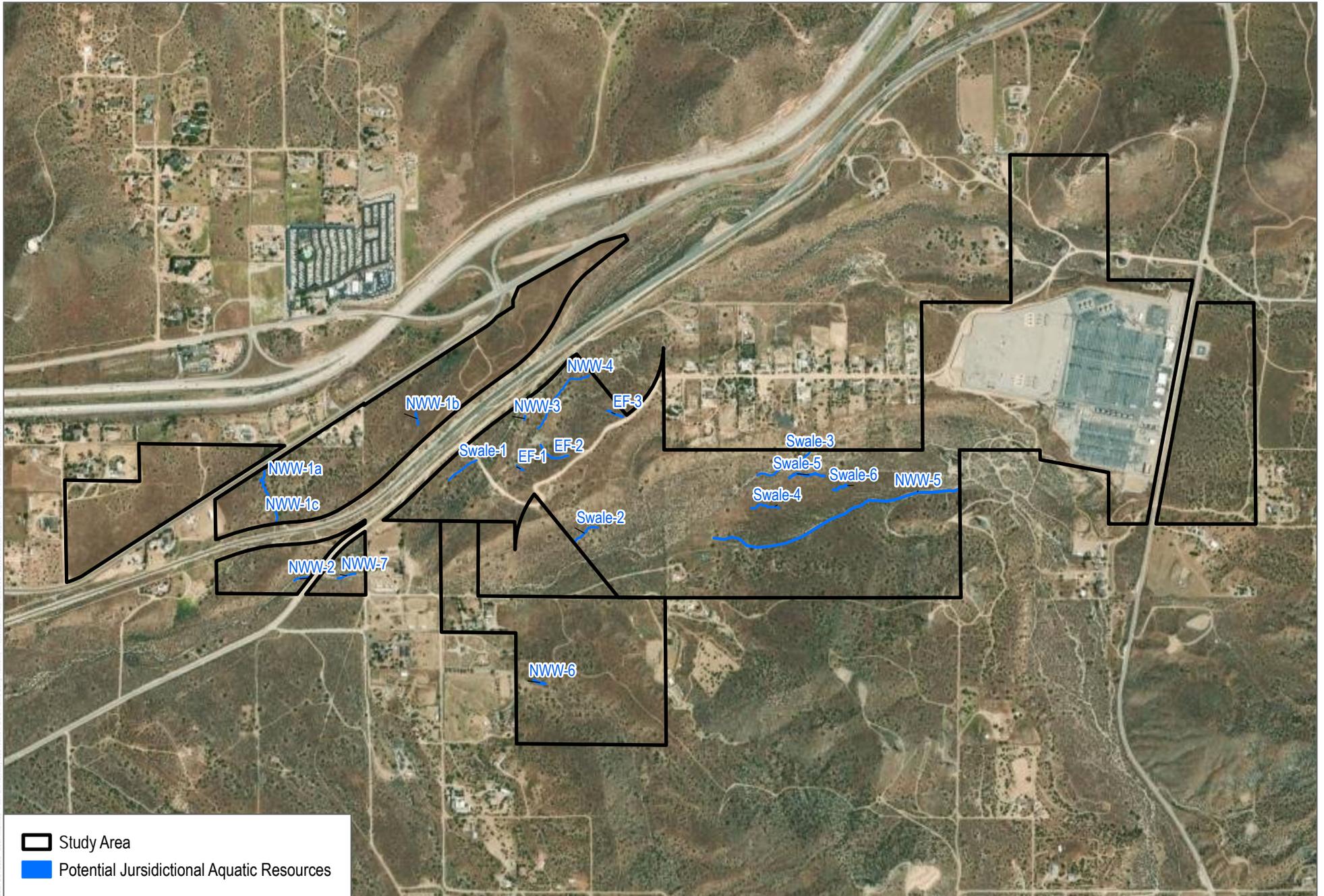
5.4 Potential Jurisdictional Wetlands and Waters

Approximately 3.80 acres of potential jurisdictional waters regulated by RWQCB and CDFW were found within the Study Area, as summarized in Table 4, Summary of Potential Jurisdictional Waters Within the Study Area, and illustrated in Figure 6, Potential Jurisdictional Aquatic Resources. Impacts to these features will require permits from RWQCB and CDFW before any Project activities take place. Based upon the current definition of waters of the United States per the Clean Water Act, no features were considered to be water of the United States under the jurisdiction of USACE due to the ephemeral-nature of each; however, an Approved Jurisdictional Determination will need to be sought from the agency to document this conclusion.

Table 4. Summary of Potential Jurisdictional Waters Within the Study Area

Jurisdiction	Study Area (acres)
RWQCB/CDFW	
Features	
Non-Wetland Waters	3.34
Swales	0.27
	0.05
Total	.3.80

Note: RWQCB = Regional Water Quality Control Board; CDFW = California Department of Fish and Wildlife.



SOURCE: World Imagery

FIGURE 6
Potential Jurisdictional Aquatic Resources

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5.5 Wildlife Corridors and Habitat Linkages

Wildlife movement corridors have been recognized by federal and state agencies as important habitats worthy of conservation. Wildlife corridors provide migration channels seasonally (i.e., between winter and summer habitats) and provide non-migrant wildlife with the opportunity to move within their home range for food, cover, reproduction, and refuge. Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation. Habitat linkages provide a potential route for gene flow and long-term dispersal of plants and animals and may also serve as primary habitat for smaller animals, such as reptiles and amphibians. Habitat linkages may be continuous habitat or discrete habitat islands that function as stepping stones for dispersal.

The Study Area does not overlap with any South Coast Missing Linkages, California Essential Habitat Connectivity Areas, or Natural Landscape Blocks (South Coast Wildlands 2020; CDFW 2014, 2017). Given that the existing vegetation is surrounded on three (3) sides by similar habitats, the Study Area likely provides habitat for local wildlife movement but is not recognized as an important regional wildlife corridor by any state agency or jurisdiction and is of limited linkage value on a landscape scale. Furthermore, although local wildlife may utilize the Study Area for movement, regional connectivity is highly limited by residential neighborhoods, Sierra Highway, the Southern Pacific Railroad lines, Carson Mesa Road, and SR-14 to the west. Thus, the Project is not expected to impose significant barriers to wildlife movement.

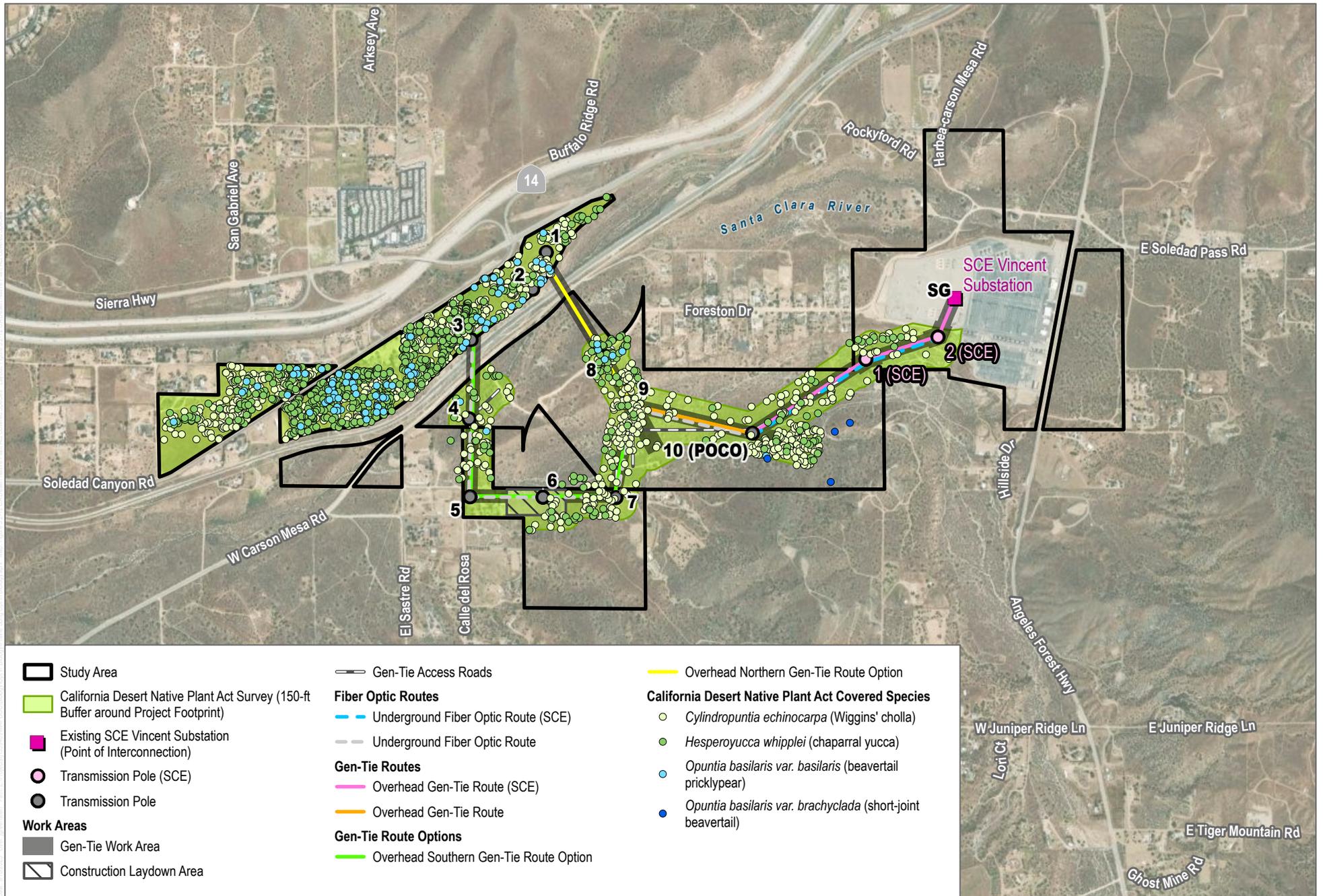
5.6 California Desert Native Plant Act Covered Species

Four (4) species covered by the CDNPA were mapped within the Project footprint and a 150-foot buffer (except for adjacent private properties), as shown in Figure 7, California Desert Native Plant Act Covered Species in the Survey Area: chaparral yucca, Wiggins’ cholla, beavertail pricklypear (*Opuntia basilaris* var. *basilaris*) and short-joint beavertail. Table 5, California Desert Native Plant Act Covered Species in the Survey Area, summarizes the numbers within each area and Figure 7.

Table 5. California Desert Native Plant Act Covered Species in the Survey Area

Species	Amount
chaparral yucca	1,118
Wiggins’ cholla	644
beavertail pricklypear	94
short-joint beavertail	4
Total	1,860

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SOURCE: World Imagery

DUDEK



0 700 1,400 Feet

FIGURE 7
California Desert Native Plant Act Covered Species in the Survey Area

Prairie Song Reliability Project

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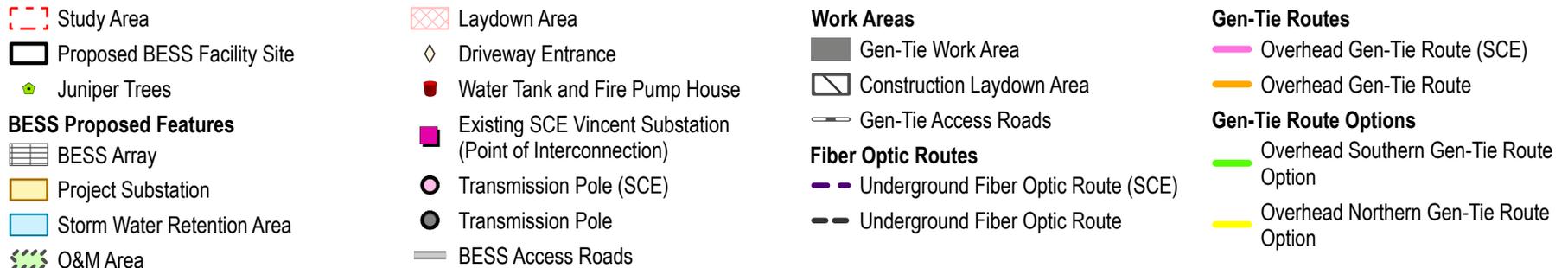
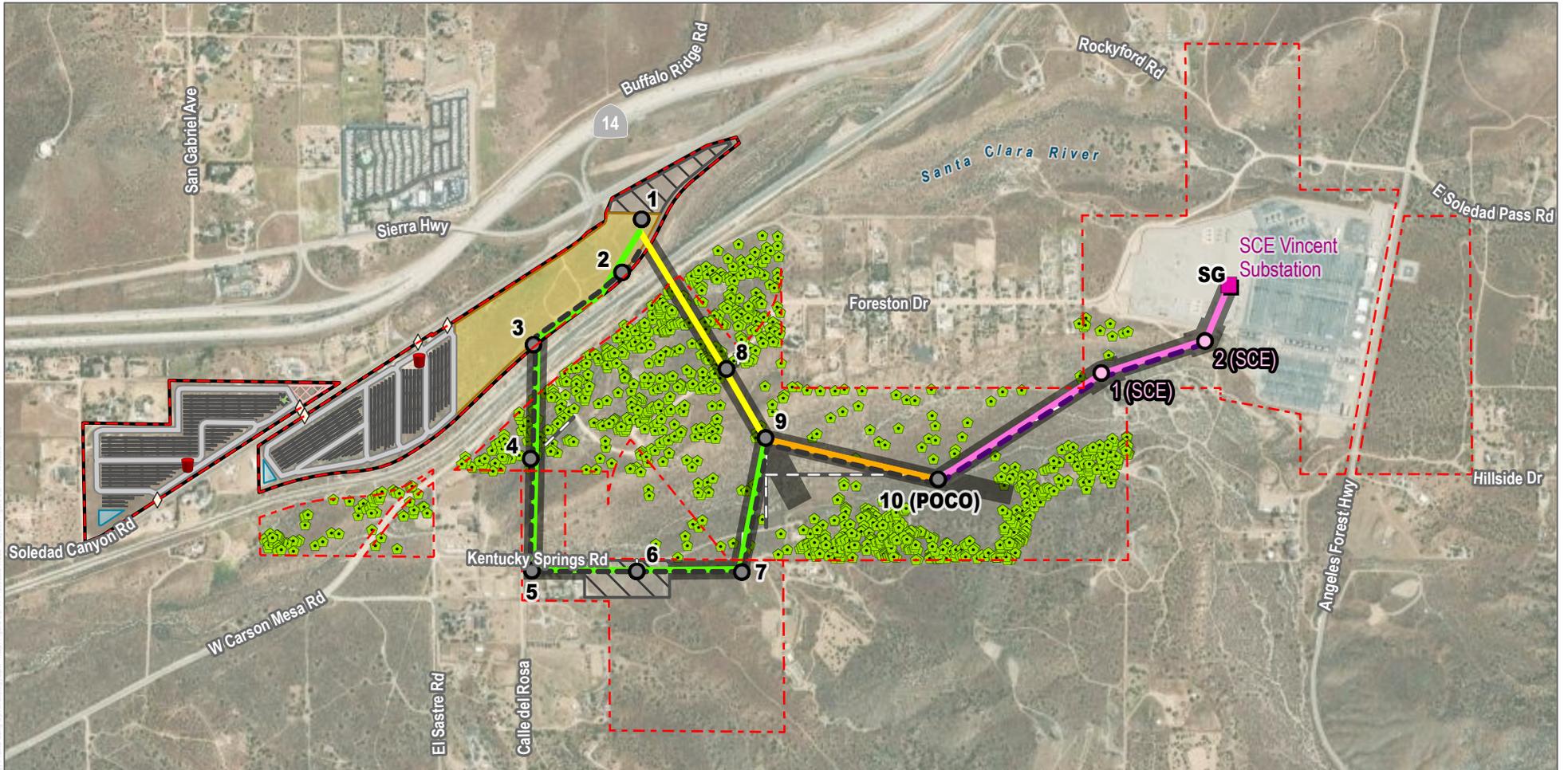
5.7 Significant Ecological Area Protected Trees

A total of 1,215 trees were documented within the survey area, as shown in Figure 8, Protected Trees, and summarized in Table 6, Summary of Trees in the Study Area. Of these, 1,134 trees are located within the Santa Clara River SEA, and 1,021 of those are classified as protected California junipers. The species is a shrub that is native to California and found only slightly beyond California borders (Calflora 2025). California juniper typically has several trunks and grows up to 13 feet (Jepson Flora Project 2025). The protected trees include 953 standard protected trees and 68 heritage trees. The remaining 194 trees consist of 81 located outside the SEA and 113 trees within the SEA that are classified as dead. Table 6 summarizes the protected trees, heritage trees, and non-protected trees that were mapped and evaluated within the Survey Area. Appendix A, Tree Location, of Appendix A of this report provides detailed locations of all individual trees assessed for the proposed Project. Full results are included in Appendix A.

Table 6. Summary of Trees in the Study Area

Scientific Name	Common Name	Total Number of Protected Trees	Number of Heritage Trees	Total Number of Non-Protected Trees	Total Number of Trees
<i>Juniperus californica</i>	California juniper	953	68	113	1,134
Total		953	68	113	1,134

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SOURCE: World Imagery



FIGURE 8

Protected Trees

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6 Project Impacts to Significant Ecological Area Resources

This chapter addresses the maximum direct and indirect potential impacts to biological resources within the Santa Clara SEA that would result from implementation of the Project.

6.1 Definition of Impacts

Direct. Section 15358 of the CEQA Guidelines defines direct impacts as those that result from the project and “occur at the same time and place.” Project-related activities, such as alteration, disturbance, or destruction of sensitive biological resources, are considered a direct impact. Direct impacts for this Project are those associated with the Project, including grading and development of the BESS facility site and gen-tie route.

Indirect. Section 15358 of the CEQA Guidelines defines indirect impacts as impacts that are caused by the project and “are later in time or farther removed in distance, but are still reasonably foreseeable.” Indirect impacts associated with the proposed Project include effects to biological or aquatic resources as a result of dust, noise, vibration, or potential erosion.

Permanent. All impacts that result in the irreversible removal of biological resources are considered permanent. Permanent impacts for the proposed Project include the conversion of land for the BESS facility site and associated access facilities.

Temporary. Temporary impacts are considered to have reversible effects on biological resources. Temporary impacts associated with the proposed Project include tension/pulling sites along the gen-tie right of way, and other work associated with temporary access along the gen-tie line.

6.1.1 Explanation of Project Consistency with Significant Ecological Area Conditional Use Permit Compatibility Criteria

As noted in the SEA Ordinance Implementation Guide (Los Angeles County Regional Planning 2020), “When development does not meet the SEA Development Standards, [but for the California Energy Commission’s Opt-In Application for Certification process,] a SEA CUP will be required to consider whether the project is compatible with the goals and policies of the SEA Program.” Additionally, “The natural open space preservation requirement for SEA CUPs is dependent on the amount of proposed development, degree of impact, type and quality (e.g., intactness) of SEA Resources being disturbed, location, and setting of those SEA Resources, and the project’s ability to address the SEA Findings.”

The SEA Ordinance Implementation Guide also notes the following (Los Angeles County Regional Planning 2020):

Development in the SEAs must demonstrate how the proposed development is designed to:

- A. Be highly compatible with the SEA Resources, including the preservation of natural open space areas and providing for the long-term maintenance of ecosystem functions;...

- B. Avoid or minimize impacts to the SEA Resources and wildlife movement through one or more of the following: avoiding habitat fragmentation, minimizing edge effects, or siting development in the least sensitive location;...
- C. Buffer important habitat areas from development by retaining sufficient natural vegetation cover and/or natural open spaces and integrating sensitive design features;...
- D. Maintain the ecological and hydrological functions of water bodies, watercourses, and their tributaries;...
- E. Ensure that roads, access roads, driveways, and utilities do not conflict with Priority Biological Resources, habitat areas or migratory paths; and...
- F. Promote the resiliency of the SEA to the greatest extent possible. For purposes of this finding, SEA resiliency cannot be preserved when the proposed development may cause any of the following:
 - a. Significant unmitigated loss of contiguity or connectivity of the SEA;
 - b. Significant unmitigated impact to a Priority Biological Resource;
 - c. Removal of habitat that is the only known location of a new or rediscovered species; or
 - d. Other factors as identified by SEATAC.

6.2 Impacts to Special-Status Plants

Two (2) special-status plant species, short-joint beavertail and golden linanthus, were mapped in the gen-tie route portion of the Study Area during surveys in 2023. None of the mapped individuals will be directly impacted by the Project. However, some of the individuals of both species are in close proximity to the Project construction limits. Mitigation Measure (MM) BIO-1, Demarcation of Disturbance Limits, requires that the limits of construction be clearly marked to avoid impacting biological resources outside those limits. MM-BIO-2, Biological Monitoring, requires full-time monitoring during all vegetation removal and initial grading activities, and the Biological Monitor(s) will be responsible for ensuring the flagged limits are adhered to during construction. MM-BIO-3, Worker Education Awareness Program (WEAP), requires that a program be developed that informs all construction personnel of the sensitive resources that occur on the Project site and Study Area and measures to avoid and minimize impacts to those resources. MM-BIO-5, On-Site Preservation, requires the establishment of a conservation area that will preserve up to approximately 175 acres of native vegetation communities within the Study Area parcels associated with the gen-tie routes, which will preserve individuals and habitat for the species. MM-BIO-6, Habitat Mitigation and Monitoring Plan, requires the preparation of a restoration plan, its implementation, and a monitoring period to restore temporarily impacted areas and will include flora resources that the species could use. Project implementation of MM-BIO-1, MM-BIO-2, MM-BIO-3, MM-BIO-5, and MM-BIO-6 will provide the mitigation for the Project to be compatible with SEA Resources.

6.3 Impacts to Special-Status Wildlife

For all wildlife, MM-BIO-1 requires that the limits of construction be clearly marked to avoid impacting biological resources outside those limits. MM-BIO-2 requires full-time monitoring during all vegetation removal and initial grading activities, and the Biological Monitor(s) will be responsible for ensuring the integrity of any buffers established for active nests. MM-BIO-3 requires that a program be developed that informs all construction personnel of the sensitive resources that occur on the Project site and measures to avoid and minimize impacts to

those resources. For Crotch’s bumble bee, MM-BIO-4, Crotch’s Bumble Bee Avoidance and Minimization Measures, requires pre-construction surveys for the Crotch’s bumble nests, with buffers established around active nests until the nests are deemed inactive. For special-status reptiles, MM-BIO-7, Special-Status Wildlife Relocation Plan, will provide a process of clearance surveys and relocation of special-status wildlife into non-impacted portions of the Study Area. For nesting birds, including loggerhead shrike, Southern California rufous-crowned sparrow, and Bell’s sage sparrow, MM-BIO-8, Nesting Bird Avoidance, requires pre-construction surveys and buffer establishment for active nests. Project implementation of MM-BIO-1, MM-BIO-2, MM-BIO-3, MM-BIO-4, MM-BIO-7, and MM-BIO-8 will provide the mitigation for the Project to be compatible with SEA Resources.

The Project may impact habitat in the SEA that supports or has the potential to support several special-status species that are candidates for listing under CESA or are CDFW SSC: Crotch’s bumble bee, California legless lizard, Blainville’s horned lizard, loggerhead shrike, Southern California rufous-crowned sparrow, and mountain lion. Each species is expected to have potentially suitable habitat in all of the native habitats in the Study Area, with the exception of California legless lizard, which is only expected in habitats with California juniper. Indirect impacts to these species will be from the substantial loss of foraging and breeding habitat, as shown in Table 7, Potential Impacts to Special-Status Wildlife Habitat Within the SEA.

Table 7. Potential Impacts to Special-Status Wildlife Habitat Within the SEA

Species	SEA Resource Category ¹	SEA Preservation Ratio ¹	Potential Impacted Habitat (acres) ²	Restored Temporarily Impacted Habitat (Gross acreage) ^{2,3}	Needed Conserved Habitat (Gross acreage) ^{2,4,5,6}
Crotch’s bumble bee	1	5:1	29.35 ⁷	25.91	120.84
California legless lizard	2	4:1	3.59 ⁸	2.67	11.69
Blainville’s horned lizard	2	4:1	29.35 ⁷	25.91	91.49
loggerhead shrike	2	4:1	29.35 ⁷	25.91	91.49
greater roadrunner	3	3:1	29.35 ⁷	25.91	62.14
mountain lion	1	5:1	33.06 ⁹	29.26 ¹⁰	136.04

Notes: SEA = Significant Ecological Area; gen-tie = generation interconnection; MM = Mitigation Measure.

- 1 Los Angeles County Regional Planning 2020.
- 2 Includes impacts from both gen-tie options.
- 3 Restoration for areas that are temporary impacts (MM-BIO-6).
- 4 Total impacts multiplied by the ratio and minus the restored habitat (MM-BIO-5).
- 5 Includes preservation for impacts from both gen-tie options.
- 6 Acreages are not additive. Conserved habitat needed is overlapping since the species share suitable habitat, so the 136.04 acres for mountain lion will cover all species.
- 7 Includes all native habitats impacted, as listed in Table 8.
- 8 Includes all habitats that support California juniper, as listed in Table 8.
- 9 Includes all native habitats and disturbed habitat impacted, as listed in Table 8.
- 10 Includes all restoration of native habitats and disturbed habitats.

MM-BIO-5 requires the establishment of a conservation area that will preserve up to approximately 162 acres of native vegetation communities within the Study Area parcels associated with the gen-tie routes, which will preserve individuals and habitat for the species. MM-BIO-6 requires the preparation of a restoration plan, its implementation, and a monitoring period to restore temporarily impacted areas and will include flora resources that the species could use. MM-BIO-1 requires that the limits of construction be clearly marked to avoid impacting biological resources outside those limits. MM-BIO-2 requires full-time monitoring during all vegetation removal and initial

grading activities, and the Biological Monitor(s) will be responsible for ensuring that Project construction does not extend beyond Project limits. MM-BIO-3 requires that a program be developed that informs all construction personnel of the sensitive resources that occur on the Project site and measures to avoid and minimize impacts to those resources, which will include a discussion about sensitive vegetation communities. Project implementation of MM-BIO-1, MM-BIO-2, MM-BIO-3, MM-BIO-5, and MM-BIO-6 will provide the mitigation for the Project to be compatible with SEA Resources.

6.4 Impacts to Vegetation Communities

Table 8, Potential Impacts to Vegetation Communities and Land Covers in the Santa Clara River Significant Ecological Area Portion of the Study Area, summarizes the Project’s potential direct impacts to vegetation communities and land covers in the Santa Clara River SEA. There will be approximately 3.44 acres of permanent impacts and approximately 25.91 acres of temporary impacts, which includes both gen-tie options. Potential direct impacts will occur due to removal of vegetation, alteration of soils from grading, and the development of the Project.

Table 8. Potential Impacts to Vegetation Communities and Land Covers in the Santa Clara River Significant Ecological Area Portion of the Study Area

Alliance	Association	SEA Category ¹	Ratio ¹	Permanent Impacts (gross acreage) ²	Temporary Impacts (gross acreage) ²	Total Impacts (gross acreage) ²
Native Communities						
Cheesebush – sweetbush scrub	<i>Ambrosia salsola</i> – <i>Larrea tridentata</i>	4	2:1	–	0.05	0.05
	<i>Ambrosia salsola</i> Association	4	2:1	–	1.57	1.57
California sagebrush – (purple sage) scrub	<i>Artemisia californica</i> – <i>Eriogonum fasciculatum</i>	4	2:1	–	1.15	1.15
Big sagebrush	<i>Artemisia tridentata</i> – <i>Ericameria nauseosa</i>	4	2:1	0.46	2.21	2.67
	<i>Artemisia tridentata</i> ssp. <i>parishii</i>	4	2:1	–	0.20	0.20
Fourwing saltbush scrub	<i>Atriplex canescens</i>	4	2:1	2.07	18.09	20.15
Rubber rabbitbrush scrub	<i>Ericameria nauseosa</i> – <i>Juniperus californica</i> / herb	4	2:1	–	1.12	1.12
	<i>Juniperus californica</i> / <i>Adenostoma</i>	3	3:1	0.53	0.35	0.87

Table 8. Potential Impacts to Vegetation Communities and Land Covers in the Santa Clara River Significant Ecological Area Portion of the Study Area

Alliance	Association	SEA Category ¹	Ratio ¹	Permanent Impacts (gross acreage) ²	Temporary Impacts (gross acreage) ²	Total Impacts (gross acreage) ²
California juniper woodland	<i>fasciculatum</i> – <i>Eriogonum fasciculatum</i>					
	<i>Juniperus californica</i> / <i>herbaceous</i>	3	3:1	0.39	1.16	1.55
Total:				3.44	25.91	29.35³

Notes:

- ¹ Significant Ecological Area Ordinance Implementation Guide (Los Angeles County Regional Planning 2020).
- ² Includes impacts from both gen-tie options and permanent and temporary impacts.
- ³ Impacts also include 3.70 acres of Disturbed Habitat and 2.18 acres of Urban/Developed.

MM-BIO-5 requires the establishment of a conservation area that will preserve up to approximately 175 acres of native vegetation communities within the Study Area parcels associated with the gen-tie routes, which will preserve individuals and habitat for the species. MM-BIO-6 requires the preparation of a restoration plan, its implementation, and a monitoring period to restore the approximately 26 acres of temporarily impacted areas within the conservation area. Project implementation of MM-BIO-5 and MM-BIO-6 will provide the preservation needed for the Project to be compatible with SEA Resources.

6.5 Impacts to Water Resources

The Project will have potential impacts to up to approximately 0.34 acres (approximately 0.01 acres of permanent impacts and 0.33 acres of temporary impacts) of SEA Water Resources (i.e., streams and swales), which includes both gen-tie options. Potential direct impacts will occur due to grading and the development of the Project. Water Resources are to be preserved at 5:1, resulting in the need for 1.70 acres of preservation. MM-BIO-5 requires the establishment of a conservation area that has the potential to preserve up to 2.28 acres of unimpacted Water Resources in the Study Area parcels associated with the gen-tie routes, which will preserve individuals and habitat for the species. MM-BIO-6 requires the preparation of a restoration plan, its implementation, and a monitoring period to restore an additional approximately 0.33 acres of temporarily impacted Water Resources within the conservation area. Project implementation of MM-BIO-5 and MM-BIO-6 will provide the preservation needed for the Project to be compatible with SEA Resources.

6.6 Impacts to Protected Trees

Direct impacts are associated with tree removal or encroachment within the tree protection zone (TPZ; i.e., canopy dripline plus 5 feet or 15 feet from trunk, whichever is greater) of a protected tree. Specifically, potential tree impacts were determined using geographic information system technology, spatial locations of tree crowns, and a minimum distance of each tree relative to the project impact. A tree is considered removed if it falls within the Project’s limits of disturbance or if 30% or more of its TPZ is impacted. A tree is considered encroached upon if less than 30% of its TPZ is affected by project activities, including soil or root disturbance and/or pruning, but the tree

is not removed, and a tree is considered preserved if they are not removed and do not experience any TPZ disturbance. Impact totals presented herein are based on proposed disturbance limits, fuel modification zones, and development plans as of the date of this report. The following tree impact findings are organized into two categories: non-heritage tree impacts and heritage tree impacts. Heritage tree status is based on the SEA tree classifications (i.e., riparian, coniferous, upland hardwood) and minimum trunk diameter for protected and heritage trees.

Non-Heritage Tree Impacts (Protected Trees)

Of the 953 protected trees that occur within the Survey Area (non-inclusive of heritage trees), 47 protected non-heritage trees would be directly impacted by the proposed Project’s gen-tie line route alignments. The 47 protected non-heritage tree impacts consist of 38 potential removals (trees are within the grading limits or grading activities affect more than 30% of a TPZ) and nine (9) potential encroachments (trees that are not removed, but root damage, soil excavation and compaction, grade changes, loss of canopy, and trunk wounds are anticipated). The nine (9) encroachment trees, as presented in Appendix A, have encroachments that range from 1% to 24%. The remaining 906 protected non-heritage trees would not be directly impacted by the Project. Table 9, Summary of Potential Impacts to SEA Protected Trees (Non-Heritage), provides a summary of the proposed impacts to non-heritage SEA protected trees within and adjacent to the Project.

Table 9. Summary of Potential Impacts to SEA Protected Trees (Non-Heritage)

Scientific Name	Common Name	Removals	Encroachments	Total Impacts
<i>Juniperus californica</i>	California juniper	38	9	47
Total		38	9	47

Note: SEA = Significant Ecological Area.

Appendix A presents the locations of the individual trees that would be subject to impacts by the proposed Project.

Heritage Tree Impacts

California juniper, which have naturally thin trunks, must have a height of 20 feet or a canopy spread of 35 feet to be designated as a heritage tree (Los Angeles County Regional Planning 2020). A total of 68 heritage trees are found on the Project site, of which eight (8) could be directly impacted by the Project. The eight (8) heritage tree impacts comprise six (6) potential removals and two (2) potential encroachments. The remaining 60 heritage trees would not be directly impacted by the Project. Table 10, Summary of Potential Impacts to SEA Protected heritage trees, provides a summary of the proposed impacts to SEA protected heritage trees within and adjacent to the Project.

Table 10. Summary of Potential Impacts to SEA Protected Heritage Trees

Scientific Name	Common Name	Removals	Encroachments	Total Impacts
<i>Juniperus californica</i>	California juniper	6	2	8
Total		6	2	8

Note: SEA = Significant Ecological Area.

Appendix A presents the locations of the individual trees that would be potentially subject to impacts by the proposed Project.

Per the County requirements, the removal of any SEA protected tree requires mitigation in the form of two (2) replacement plantings, and the removal of a heritage tree requires mitigation in the form of 10 replacement plantings. Replacement trees should be seedlings of the same species as those being removed and should be planted in an area of the Project site where there is suitable habitat and where the trees would be able to remain in perpetuity. As such, based on the August 2025 impact analysis of the current design that identified 44 potential direct tree removals (six [6] heritage trees and 38 non-heritage protected trees), the SEA rules may require a minimum of 136 mitigation trees to be planted in an area of the Project site where there is suitable habitat and where the trees would be able to remain in perpetuity. This number is based on the potential impacts from both gen-tie options. The final number of impacted trees is expected to be less due to only one gen-tie option being constructed and impact avoidance during final design and field survey. Per the County, Table 11, Summary of Potential Individual Species Replacement Quantities, details the quantity of each species required for planting.

Table 11. Summary of Potential Individual Species Replacement Quantities

Scientific Name	Common Name	Total Impacted	Replacement Ratio	Total Replacement Required
<i>Juniperus californica</i>	California juniper	38	2:1	76
<i>Juniperus californica</i> (Heritage Tree)	California juniper	6	10:1	60
Total:		44	N/A	136

Note: N/A = not applicable.

MM-BIO-5 requires the establishment of a conservation area. The currently contemplated conservation area has the potential to preserve up to 749 California junipers. MM-BIO-6 requires the preparation of a restoration plan, its implementation, and a monitoring period to restore temporarily impacted areas within the conservation area, including areas mapped as California juniper woodland. Based on current design, up to 136 replacement California juniper would be planted and monitored as part of the implementation of MM-BIO-6. Project implementation of MM-BIO-5 and MM-BIO-6 will provide the preservation needed for the Project to be compatible with SEA Resources.

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7 Mitigation Measures

The following mitigation measures shall be implemented for the Project to make the Project compatible with SEA Resources.

MM-BIO-1 Demarcation of Disturbance Limits

Prior to commencement of ground-disturbing activities for each phase of Project construction, the construction limits shall be clearly demarcated (e.g., installation of flagging or temporary high visibility construction fence), as recommended by the California Energy Commission–approved Biological Monitor. All construction activities including equipment staging and maintenance shall be conducted within the marked disturbance limits to prevent inadvertent disturbance to sensitive vegetation communities outside the limits of work. The flagging shall be maintained throughout construction.

MM-BIO-2 Biological Monitoring

Prior to ground-disturbing activities, the applicant shall submit the qualifications of potential Biological Monitor(s) to the California Energy Commission (CEC) for review and approval. The CEC-approved Biological Monitors shall monitor construction activities and ensure compliance with all mitigation measures. The Biological Monitors shall be present on site during all vegetation removal and each day prior to the commencement of grading activities. The Biological Monitors shall be responsible for conducting a pre-construction clearance survey, and any special-status species shall be relocated to areas of the Study Area that will not be impacted by the Project (see MM-BIO-5). Pre-construction clearance surveys shall be conducted prior to construction of each new phase of the development. The Biological Monitors shall monitor to ensure that wildlife does not become entrapped in excavation or trenching areas. Safeguards shall be implemented during daytime periods of non-activity and overnight, such as placing a platform over trenches, flush with the ground surface; installing escape ramps in trenches; or installing exclusionary fencing. Should relocation of any trapped wildlife be required, construction shall be halted until a Biological Monitor arrives on site and clears the work area (in compliance with all applicable permits and authorizations).

The Biological Monitors shall regularly inspect the Project site as needed after the completion of all grading activities. Monthly spot-check monitoring is anticipated to be required throughout the construction of the Project for those areas that are graded but not yet developed/landscaped. During monthly visits, a Biological Monitor shall address the following: (1) the potential establishment of invasive species and require weed abatement (if necessary) in accordance with Mitigation Measure BIO-10; (2) address the potential establishment of native vegetation/habitat to reduce the potential for impacts between phases of construction; and (3) identify deficiencies, if applicable, with any erosion control measures that have the potential to negatively impact biological resources.

Daily monitoring reports shall be prepared by the Biological Monitors that document the results of any surveys conducted, wildlife relocated, construction activities performed, compliance issues observed, or corrective actions taken during the reporting period. The monitoring reports shall include photos as appropriate and be made available to the CEC at their request. Following the completion of the Project construction, a construction monitoring report will be prepared by the applicant to document compliance with the minimization measures and permit conditions for the Project.

MM-BIO-3 Worker Education Awareness Program (WEAP)

Prior to the initiation of the initial ground-disturbing activities, all personnel associated with those activities shall attend a worker education awareness program (program) prepared by a qualified biologist approved by the California Energy Commission (CEC). In general, the program shall discuss any potentially occurring sensitive biological resources or species and habitat preference(s), occupied habitat in the area, and life histories; potential construction impacts; protection measures; and Project limits. Legal protections and regulations pertinent to the biological resources that may be present shall also be included in the program. A species and habitat fact sheet shall be developed prior to the training program and distributed at the training program to all contractors, employers, and other personnel involved with the construction of the Project.

After the kickoff meeting, the Project applicant shall notify the CEC-approved qualified biologist in advance if additional contractors are employed during the initial vegetation removal or initial grading activities. A sign-in sheet will be circulated for signatures to all personnel that attend the workers' educational training to confirm that program materials were received and that they understand the information presented.

MM-BIO-4 Crotch's Bumble Bee Avoidance and Minimization Measures

If Crotch's bumble bee (*Bombus crotchii*) is still a candidate for listing under the California Endangered Species Act (CESA) or has been listed under CESA at the time of the start of construction of the Project, a pre-construction survey for Crotch's bumble bee shall be conducted within the construction footprint prior to the start of initial ground-disturbing activities occurring during the Crotch's bumble bee nesting period (February 1 through October 31). If construction commences outside of that period (November 1 through January 31), surveys would not be warranted since the daughter queens (gynes) disperse following a nest's life cycle and conducting surveys for dormant gynes would not be practical.

The pre-construction survey will be based on recommendations described in the Survey Considerations for California Endangered Species Act (CESA) Candidate Bumble Bee Species, released by the California Department of Fish and Wildlife (CDFW) on June 6, 2023, or the most current at the time of construction. The pre-construction survey will be performed by a biologist with expertise in surveying for bumble bees and include at least three (3) survey passes that are not on sequential days or in the same week. The biologist shall watch the nest resources for up to 5 minutes, looking for exiting or entering worker bumble bees. Worker bees should arrive and exit an active nest site with frequency, such that their presence will be apparent after 5 minutes of observation.

During the bumble bee active nesting season (April 1 through August 30), the Biological Monitors approved by the California Energy Commission (CEC) (Mitigation Measure [MM] BIO-2) shall continue to conduct daily sweeps of areas proposed for initial vegetation removal and ground disturbance.

If nest resources occupied by Crotch's bumble bee are detected within the construction area, no construction activities shall occur within 50 feet of the nest or as determined by a qualified biologist through evaluation of topographic features or distribution of floral resources. The nest resources shall be avoided for the duration of the Crotch's bumble bee nesting period (February 1 through October 31). The CEC-approved Biological Monitors (MM-BIO-2) shall ensure that the nest buffer is complied with during that period. Outside of the nesting season, it is assumed that no live individuals will be present within the nest as the gynes usually leave by September and all other individuals (original queen, workers, males) die. The gyne is highly mobile and can independently disperse to outside of the construction footprint to proposed open space or other suitable areas beyond that have suitable hibernacula resources. Because construction will have occurred in the area outside of the occupied nesting

resources, no suitable habitat will be present in the impact area, and it is assumed that new queens will disperse to habitat outside of the construction area.

If the nest resources cannot be avoided, as outlined in this measure, the Project applicant shall consult with CEC and CDFW regarding the need to obtain an Incidental Take Permit. In the event an Incidental Take Permit is needed, mitigation for direct impacts to Crotch’s bumble bee shall be fulfilled through compensatory mitigation at a minimum 1:1 nesting habitat replacement of equal or better functions and values to those impacted by the Project or as otherwise determined through the Incidental Take Permit process. The compensatory habitat mitigation would be accomplished by on site preservation of suitable habitat.

MM-BIO-5 On-Site Preservation

The applicant shall demonstrate recordation of a conservation easement, as defined by California Civil Code Section 815.1, that permanently preserves up to approximately 136 acres of non-impacted vegetation communities and up to approximately 26 acres of temporary impacted areas that will be restored within the Project boundaries for long-term conservation and management as a natural conservation area. Final acreages proposed for mitigation shall be determined once the generation interconnection line route is finalized. The Conservation Area will be up to approximately 162 acres and located within portions of the Study Area within the Santa Clara River SEA. Table 12, Unimpacted Vegetation Communities and Land Cover Types in the Santa Clara River Significant Ecological Area Portion of the Study Area That Could Be Conserved, summarizes the potential vegetation communities and land cover that could be preserved.

Table 12. Unimpacted Vegetation Communities and Land Cover Types in the Santa Clara River Significant Ecological Area Portion of the Study Area That Could Be Conserved

Alliance	Association	SEA Category ¹	Acres
Vegetation Communities			
Cheesebush – sweetbush scrub	<i>Ambrosia salsola – Larrea tridentata</i>	4	0.82
	<i>Ambrosia salsola</i> Association	4	2.60
Big sagebrush	<i>Artemisia tridentata – Ericameria nauseosa</i>	4	14.04
	<i>Artemisia tridentata – Eriogonum fasciculatum</i>	4	0.06
	<i>Artemisia tridentata</i> ssp. <i>parishii</i>	4	0.48
Fourwing saltbush scrub	<i>Atriplex canescens</i>	4	66.69
Mormon tea scrub	<i>Ephedra viridis</i>	4	1.99
Rubber rabbitbrush scrub	<i>Ericameria nauseosa – Juniperus californica</i> / herb	4	3.85
California juniper woodland	<i>Juniperus californica</i> / <i>Adenostoma fasciculatum – Eriogonum fasciculatum</i>	3	5.60
	<i>Juniperus californica</i> / herbaceous	3	69.90
<i>Vegetation Communities Subtotal:</i>			166.03
Land Cover Types			
Disturbed Habitat	N/A	N/A	6.39

Table 12. Unimpacted Vegetation Communities and Land Cover Types in the Santa Clara River Significant Ecological Area Portion of the Study Area That Could Be Conserved

Alliance	Association	SEA Category ¹	Acres
Urban Developed	N/A	N/A	2.76
<i>Land Cover Types Subtotal:</i>			9.15
Total:			175.18

Notes: SEA = Significant Ecological Area; N/A = not applicable.

¹ SEA Ordinance Implementation Guide (Los Angeles County Regional Planning 2020).

A cost estimate shall be prepared to estimate the initial start-up costs and ongoing annual costs of management activities for the management of the conservation easement area(s) in perpetuity. The funding source shall be in the form of an endowment to help the qualified natural lands management entity that is ultimately selected to hold the conservation easement(s). The endowment amount shall be established following the completion of a Project-specific Property Analysis Record (PAR) to calculate the costs of in-perpetuity land management. The PAR shall take into account all management activities required if an Incidental Take Permit for Crotch’s bumble bee (*Bombus crotchii*) is needed for the Project.

The conservation easement holder shall be an entity that has as part of its mission the protection of the environment, including lands, plant species, and/or wildlife species, and can be expected by its organization and history to remain in existence for the foreseeable future. The California Department of Fish and Wildlife per Government Code Section 65967(c) shall review the entity. The entity that holds the endowment shall first meet the criteria outlined in Government Code Section 65968(b).

Conservation Management Plan. As part of recording the conservation easement, a Conservation Management Plan (CMP) applicable to the Conservation Area shall be prepared and submitted to the California Energy Commission for approval. The CMP shall identify the required resource management activities and the entities that shall be responsible for managing those activities in perpetuity. The CMP shall set forth requirements that shall be implemented by the entity that holds the conservation easement and/or manages and stewards the Conservation Area, and may include the following: (1) there shall be no grading or other construction activities within the Conservation Area, except for the proposed habitat enhancement/restoration; (2) no fencing or other barriers to wildlife movement shall be installed; (3) commercial honeybee operations shall not be allowed to use the Conservation Area for storing their apiaries; (4) rodenticides shall be prohibited; (5) herbicides and pesticides shall be discouraged, and only those typically used for invasive plant management in California wildlands shall be allowed, per the California Invasive Plant Council and Pesticide Research Institute’s 2015 Best Management Practices (BMPs) for Wildland Stewardship; (6) at least one (1) annual walk-through survey shall be conducted by a biologist to qualitatively monitor the general condition of on-site habitats and to check for any new introduction or expansion of invasive plant species; (7) trash shall be collected and removed, vandalized signs shall be repaired, and trespass impacts shall be rectified; and (8) annual reporting that document the conditions of the Conservation Area shall be provided. Approved work shall be outlined in the CMP and in the conservation easement, including monitoring and maintenance efforts or for other activities associated with preserve management, and prohibited activities shall be delineated.

MM-BIO-6 Habitat Mitigation and Monitoring Plan

Prior to ground-disturbing activities, a qualified biologist shall be retained to prepare a Habitat Mitigation and Monitoring Plan (HMMP) detailing the specific approach for each type of habitat restoration and establishment area in the Conservation Area and short-joint beavertail (*Opuntia basilaris* var. *brachyclada*) transplant location, and shall outline detailed performance standards and monitoring requirements for each, following the monitoring and reporting methods and performance standards listed below. The HMMP shall be submitted to and approved by the California Energy Commission prior to the onset of Project-related ground-disturbing activities. The acreages allotted for on-site establishment apply to approximately 32 acres within the Conservation Area, including 0.19 acres of ephemeral streams. Up to 136 California juniper (*Juniperus californica*) (depending on actual Project impacts) shall be planted, and individuals of the plant species covered by the California Desert Native Plant Act shall be evaluated to be used in the installation of native plants. The HMMP shall set out measures for habitat restoration/enhancement implementation, including but not limited to the following:

- Identification of proposed plant materials
- Signage in the habitat restoration area
- Schedule for habitat restoration/enhancement work
- Use of pesticides and elimination of non-native vegetation
- Habitat monitoring and reporting
- Performance standards

MM-BIO-7 Special-Status Wildlife Relocation Plan

Prior to commencement of any ground-disturbing activities or the pre-construction staging of equipment on the Project site, the Project applicant shall contract with a biologist approved by the California Energy Commission (CEC) to develop a Pre-Construction Wildlife Survey and Relocation Plan for terrestrial reptiles, including California legless lizard (*Anniella* spp.) and Blainville's horned lizard (*Phrynosoma blainvillii*). The Pre-Construction Wildlife Survey and Relocation Plan shall be submitted to the CEC for review prior to any ground-disturbing activities within potentially occupied habitat.

The plan shall include, at a minimum, the following:

- Protocols for pre-construction surveys to flush out and/or move identified special-status wildlife within the Project site, as feasible
- Relocation to the portions of the Study Area outside of the Project construction limits and within the Conservation Area
- The timing, frequency, and locations where surveys should be conducted
- That surveys shall be conducted 24 hours prior to construction activities and repeated the morning of the proposed activity
- That surveys shall be conducted in all areas anticipated to be subject to vegetation clearing
- The habitat and conditions in the proposed relocation site(s)
- The methods that shall be used for trapping and relocating identified species
- That all equipment used in the effort shall be cleaned and decontaminated to minimize the spread of herpetofaunal pathogens, as noted by Julian and colleagues in their 2020 article in the Herpetological

Review, Minimizing the Spread of Herpetofaunal Pathogens in Aquatic Habitats by Decontaminating Construction Equipment

- That any wildlife handling and relocation methodology from the Streambed Alteration Agreement issued by the California Department of Fish and Wildlife (CDFW), if any, shall be incorporated in the Pre-Construction Wildlife Survey and Relocation Plan
- Protocols for documentation/recording of the species and number of animals relocated
- That relocations shall be logged and made available to the CEC, if requested
- Protocols for notifying CDFW if identified species cannot be relocated
- That attempts at relocation shall be logged and notification shall occur within 24 hours
- The timing and frequency of reports documenting the results of the surveys

MM-BIO-8 Nesting Bird Avoidance

Project construction shall be conducted in compliance with the conditions set forth in the Migratory Bird Treaty Act and California Fish and Game Code consistent with methods approved by the California Department of Fish and Wildlife to protect active bird/raptor nests. Vegetation removal shall occur during the non-breeding season for nesting birds and nesting raptors to avoid impacts to nesting birds and raptors.

For the remaining Project activities initiated during the breeding season for nesting birds and nesting raptors, a pre-construction survey shall be conducted by the Biological Monitor (Mitigation Measure BIO-3) for nesting birds and/or raptors within 3 days prior to any work within 300 feet for suitable nesting habitat for non-raptors and within 500 feet for suitable nesting habitat for raptors. If the Biological Monitor does not find any active nests immediately adjacent to the impact areas, the Project activity shall be allowed to proceed.

If the Biological Monitor finds an active nest adjacent to the construction area and determines that the nest may be indirectly impacted or breeding activities substantially disrupted, the Biological Monitor shall delineate an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activity. Any nest found during survey efforts shall be mapped on the construction plans, which shall be included in the report(s) documenting the survey(s) that shall be submitted to the California Energy Commission upon completion of the survey. The active nest shall be protected until nesting activity has ended. To protect any nest site, the following restrictions to construction activities shall be required until nests are no longer active, as determined by the Biological Monitor: (1) work limits shall be established within a buffer around any occupied nest (the buffer shall be 100–300 feet for nesting non-raptors and 300–500 feet for nesting raptors), unless otherwise determined by the Biological Monitors; and (2) access and surveying shall be restricted within the buffer of any occupied nest, unless otherwise determined by the Biological Monitor. Encroachment into the buffer area around a known nest shall only be allowed if the Biological Monitor determines that the proposed activity will not disturb the nest occupants. Construction can proceed when the Biological Monitor has determined that fledglings have left the nest or the nest has failed.

MM-BIO-9 Invasive Species Prevention Plan

To prevent the spread of invasive plant species during construction and until the establishment of common landscaped areas associated with the Project, the following measures shall be implemented:

- The Worker Education Awareness Program (see Mitigation Measure [MM] BIO-3) shall include invasive species prevention measures implemented by the Project.

- All mobile vehicles and construction equipment shall be washed prior to entering the Project site in an upland location where any seed material from invasive species shall be contained and not carried onto the Project site. Logs of the washing shall be submitted monthly to the California Energy Commission (CEC).
- Following the completion of grading activities, for those areas of the Project site that are graded but not yet developed/landscaped, the CEC-approved Biological Monitor shall conduct monthly spot checks to prevent the introduction or establishment of invasive plant species onto the graded areas (see MM BIO-2). If abundant invasive species are identified, the Biological Monitor shall inform the construction contractor about the infested area and recommend that the invasive species be removed. The recommendation shall be included in the daily report.
- All vegetative material removed from the Project footprint shall be transported in a covered vehicle and shall be disposed of at a certified disposal site.

MM-BIO-10 Jurisdictional Waters Compensation

Mitigation for up to approximately 0.99 acres of jurisdictional waters shall be implemented through off-site acquisition, such as mitigation bank credits, and/or turnkey projects with mitigation banks (as approved by the California Energy Commission) following the issuance of permits from the U.S. Army Corps of Engineers, and Los Angeles Regional Water Quality Control Board, as applicable, and those agencies' approval of the mitigation bank, and prior to the issuance of the grading permit. A turnkey mitigation project (establishment of the riparian habitat) will be used should credits not be available at the time of the jurisdictional waters permitting.

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8 Significant Ecological Areas Statement of Findings

A Be highly compatible with the SEA Resources, including the preservation of natural open space areas and providing for the long-term maintenance of ecosystem functions

The Santa Clara River SEA covers approximately 45,496 acres, and its overall boundaries extend upstream along several major tributary creeks and where contiguous drainage areas connect to the river basin through open habitat. On a regional basis, the Santa Clara River SEA contains biotic communities, vegetative associations, and habitat of plant or animal species that are either unique or are restricted in distribution. These include native grassland, coast live oak riparian forest, southern willow scrub, bigcone spruce-canyon oak forest, southern sycamore-alder woodland, southern cottonwood-willow riparian woodland and forest, freshwater marsh, alluvial fan sage scrub, and vernal pool (PCR 2000).

The portions of the Project within the Santa Clara River SEA consist of an approximately 1.1-mile-long or 1.8-mile-long new gen-tie line, depending on the alignment chosen. There will be a maximum of approximately 11 monopole or steel lattice tower structures. The proposed transmission structures were sited to avoid potential impacts to environmental resources. Where possible, the transmission structure access path will utilize existing access roads to minimize new ground disturbance. Fiber optic or other cabling required for the monitoring system typically will be installed in buried conduit within the access road or planned trenching.

The gen-tie portion of the Project consists of steel lattice tower structures, access roads, and buried lines that create a small footprint within the Santa Clara River SEA following the completion of construction activities. MM-BIO-5 requires the establishment of a conservation area that will preserve up to approximately 162 acres of native vegetation communities within the Study Area parcels associated with the gen-tie routes, which will preserve individuals and habitat for the species. MM-BIO-6 requires the preparation of a restoration plan, its implementation, and a monitoring period to restore temporarily impacted areas and will include flora resources that the species could use.

B Avoid or minimize impacts to the SEA Resources and wildlife movement through one or more of the following:

1 Avoiding habitat fragmentation

The monopole or steel lattice tower structures, access roads, and buried lines create a small footprint within the Santa Clara River SEA following the completion of construction activities, and with the restoration of the temporary impacted areas, the Project is not expected to fragment the habitats with the Study Area. Wildlife is expected to be able to pass through the Project post-construction because the transmission lines are not a barrier to movement.

2 Minimizing edge effects

The gen-tie portion of the Project consists of steel lattice tower structures, access roads, and buried lines that create a small footprint (approximately 4.12 acres) within the Santa Clara River SEA following the completion of construction activities. The up to approximately 32.25 acres of temporary impacts produced by the Project will be

restored per MM-BIO-6, and MM-BIO-5 will conserve up to approximately 162 acres of natural habitat. During the operation of the Project, maintenance work on the gen-tie and associated infrastructure is expected to be infrequent, so indirect impacts to wildlife are expected to be low.

3 Siting development in the least sensitive location

The Project has been sited to avoid impacts to special-status plants and only have temporary impacts to Water Resources, which will be restored per MM-BIO-6.

C Buffer important habitat areas from development by retaining sufficient natural vegetation cover and/or natural open spaces and integrating sensitive design features

The gen-tie portion of the Project consists of steel lattice tower structures, access roads, and buried lines that create a small footprint (approximately 4.12 acres) within the Santa Clara River SEA following the completion of construction activities. The up to approximately 32.25 acres of temporary impacts produced by the Project will be restored per MM-BIO-6, and MM-BIO-5 will conserve up to approximately 162 acres of natural habitat.

D Maintain the ecological and hydrological functions of water bodies, watercourses, and their tributaries

The gen-tie portion of the Project will impact up to approximately 0.34 acres of ephemeral Water Resources within the Santa Clara River SEA. The up to approximately 0.33 acres of temporary impacts produced by the Project will be restored per MM-BIO-6, and MM-BIO-5 will conserve up to approximately 2.28 acres of Water Resources.

E Ensure that roads, access roads, driveways, and utilities do not conflict with Priority Biological Resources, habitat areas or migratory paths

The gen-tie portion of the Project consists of steel lattice tower structures, access roads, and buried lines that create a small footprint (approximately 4.12 acres) within the Santa Clara River SEA following the completion of construction activities. The Project has potential impacts to Priority Biological Resources (SEA Resource Categories 1 through 3) in the form of special-status plants and wildlife, Water Resources, and vegetation communities; however, all such impacts are mitigated in accordance with the SEA Ordinance and CEQA Guidelines.

The Project transmission facilities will be designed consistent with the Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2006 (APLIC 2006) where feasible. Transmission facilities will also be evaluated for potential collision reduction devices in accordance with Reducing Avian Collisions with Power Lines: The State of the Art in 2012 (APLIC 2012). Based upon the low volume of human activity and the proposed avian-protecting Project design features, potential impacts to wildlife habitat and movement during Project operation are expected to be less than significant.

F Promote the resiliency of the SEA to the greatest extent possible. For purposes of this finding, SEA resiliency cannot be preserved when the proposed development may cause any of the following:

1 Significant unmitigated loss of contiguity or connectivity of the SEA

The gen-tie portion of the Project consists of steel lattice tower structures, access roads, and buried lines. These facilities create a small footprint (approximately 4.12 acres) within the Santa Clara River SEA following the completion of construction activities. The up to approximately 32.25 acres of temporary impacts produced by the Project will be restored per MM-BIO-6, and MM-BIO-5 will conserve up to approximately 162 acres of native vegetation communities within the SEA. These types of features do not create barriers for connectivity or contiguity within the SEA.

2 Significant unmitigated impact to a Priority Biological Resource

The Project has potential impacts to Priority Biological Resources (SEA Resource Categories 1 through 3) in the form of special-status plants and wildlife, Water Resources, and vegetation communities; however, all such potential impacts are mitigated in accordance with the SEA Ordinance and CEQA Guidelines. Ten preservation, avoidance, and minimization measures have been provided as a part of the Project (MM-BIO-1 through MM-BIO-10), including conserving in perpetuity up to approximately 162 of on-site natural open space; requiring pre-construction surveys, planning, and biological monitoring during construction; measures protecting against invasive species establishment and spread; preparation of conservation management plans; nesting bird avoidance; and strategically locating development as close as possible to existing urban uses/infrastructure. These measures serve to preserve and limit potential impacts to Priority Biological Resources. As such, potential impacts to Priority Biological Resources will be reduced to less than significant.

3 Removal of habitat that is the only known location of a new or rediscovered species

No new or rediscovered species are present on the Project site. As such, the Project complies with this finding.

4 Other factors as identified by SEATAC

This finding is not applicable due to the California Energy Commission Opt-In process.

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Appendix A

Protected Tree Report

Significant Ecological Area Protected
Tree Report

Prairie Song Reliability Project

OCTOBER 2025

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Table of Contents

SECTION	PAGE NO.
Acronyms and Abbreviations.....	iii
1 Introduction	1
2 Project Location and Description	3
2.1 Project Location.....	3
2.2 Project Description	3
3 Methods.....	9
3.1 Tree Inventory.....	9
3.2 Impact Evaluation.....	10
3.3 Scope of Work Limitations	10
4 Regulatory Setting.....	11
4.1 Los Angeles County SEA Ordinance	11
4.1.1 Significant Ecological Area Protected Trees.....	11
4.1.2 Tree Protection Zone	12
5 Results.....	13
5.1 Tree Inventory Summary	13
5.2 Mapping	14
5.3 Tree Removal/Encroachment.....	14
5.3.1 Non-heritage Tree Impacts (Protected Trees).....	14
5.3.2 Heritage Tree Impacts	15
5.3.3 Non-protected Tree Impacts	16
6 Mitigation.....	17
6.1 Mitigation Requirements	17
7 Tree Protection	19
8 Conclusion	21
9 Arborist’s Disclosure	23
10 References Cited.....	25

TABLES

1 Summary of Trees at the Prairie Song Reliability Project	13
2 Summary of Potential Impacts to SEA Protected Trees (Non-heritage).....	15
3 Summary of Overall Health Ratings for Potentially Impacted SEA Protected Trees (Non-heritage)	15

4 Summary of Potential Impacts to SEA Protected Heritage Trees..... 15
5 Summary of Overall Health Ratings for Potentially Impacted SEA Heritage Trees 15
6 Summary of Potential Impacts Non-protected Trees..... 16
7 Summary of Overall Health Ratings for Potentially Impacted Non-protected Trees 16
8 Summary of Individual Species Estimated Replacement Quantities..... 17

FIGURES

1 Project Location5
2 SEA Location.....7

APPENDICES

A Tree Locations
B SEA Protected Tree List
C Tree Information Matrix
D Potential Tree Impacts
E Tree Protection Measures

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
County	County of Los Angeles
CUP	Conditional Use Permit
DBH	diameter at breast height
project	Prairie Song Reliability Project
SEA	Significant Ecological Area
TPZ	tree protection zone

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1 Introduction

This Significant Ecological Area (SEA) Protected Tree Report provides an inventory and evaluation of the Protected Trees located within the Santa Clara River Significant Ecological Area (SEA) that are potentially impacted by the Prairie Song Reliability Project (project).

The project will be located on up to approximately 107-acres in unincorporated Los Angeles County (County), California, south of State Route 14 (Figure 1, Project Location). Approximately 35.24 acres associated with the two gen-tie tie line route options are located within the Santa Clara River SEA and are the focus of this report. The remainder of the project is located outside of the SEA and no-protected trees were found beyond the limits of the SEA. The field inventory and assessments of tree resources were conducted in June and July 2023 and again in February 2025. The focus of Dudek's field evaluations was to identify and inventory all trees in the SEA survey area that are subject to regulation by the Los Angeles County Regional Planning Significant Ecological Areas Ordinance that could be affected by the proposed development. The survey area is depicted on Appendix A. This report meets the requirements of Los Angeles County Regional Planning Significant Ecological Areas Ordinance and includes a discussion of the tree inventory, evaluation, and analysis methods; a summary of findings; identification of anticipated impacts; and tree impact mitigation recommendations.

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2 Project Location and Description

2.1 Project Location

The project would be located in unincorporated Los Angeles County (County), California, south of State Route 14 approximately 3 miles northeast of the center of the unincorporated community of Acton (Figure 1, Project Location). The project is within the U.S. Geological Survey 7.5-minute Acton and Pacifico Mountain Quadrangles, Township 5N, Range 12W, Sections 27, 28, 33 and 34. The battery energy storage system (BESS) site is comprised of Assessor's Parcel Numbers 3056-017-007, 3056-017-020, 3056-017-021, 3056-019-013, 3056-019-026, 3056-019-037, and 3056-019-040. Development of the battery energy storage system facility would occur on an area of land sandwiched between two existing transportation corridors, the Antelope Valley Freeway (State Route 14) to the north and Los Angeles County Metropolitan Transportation Authority-owned Southern Pacific Railroad lines and Carson Mesa Road to the south, that are approximately 1,200 feet apart.

The project would utilize one of two potential gen-tie routes. Either route would extend south and east from the project substation, crossing Southern Pacific Railroad tracks and West Carson Mesa Road, and then proceed northeast to the Point of Interconnection at the Vincent Substation. The Northern Gen-Tie Route is approximately 1.1 miles long and would be sited on Assessor's Parcel Numbers 3056-015-008, 3056-015-023, 3056-017-026, 3056-017-904, and 3056-017-905, 3056-005-816, 3056-005-817, 3056-005-818, 3056-015-801, and 3056-015-802. The Southern Gen-Tie Route is approximately 1.8 miles long and would be sited on Assessor's Parcel Numbers 3056-015-008, 3056-015-023, 3056-017-016, 3056-017-022, 3056-017-026, 3056-017-027, 3056-017-028, 3056-027-007, 3056-027-031, 3056-005-816, 3056-005-817, 3056-005-818, 3056-015-801, and 3056-015-802. The project would also include three fiber optic telecommunications lines: one would be installed aboveground on the gen-tie structures (along whichever gen-tie route is ultimately selected), and the other two would be installed underground within the Southern Gen-Tie Route corridor. The two other fiber optic lines would be installed underground within the Southern Gen-Tie Route corridor regardless of which Gen-Tie Route corridor option is selected. The project's interconnection facilities would be located within the Southern California Edison Vincent Substation. Land uses in the immediate vicinity of the project include undeveloped and rural lands, multiple high-voltage transmission lines and an electrical substation, paved and rural roads, State Route 14, and railroad lines.

For the purposes of this report, the study area included the BESS site, parcels comprising the potential gen-tie routes, Southern California Edison's Vincent Substation, and other parcels (Survey Area). The Survey Area is depicted on Figure 1. The SEA Ordinance establishes the permitting, design standards, and review process for development within SEAs, balancing preservation of the County's natural biodiversity with private property rights.

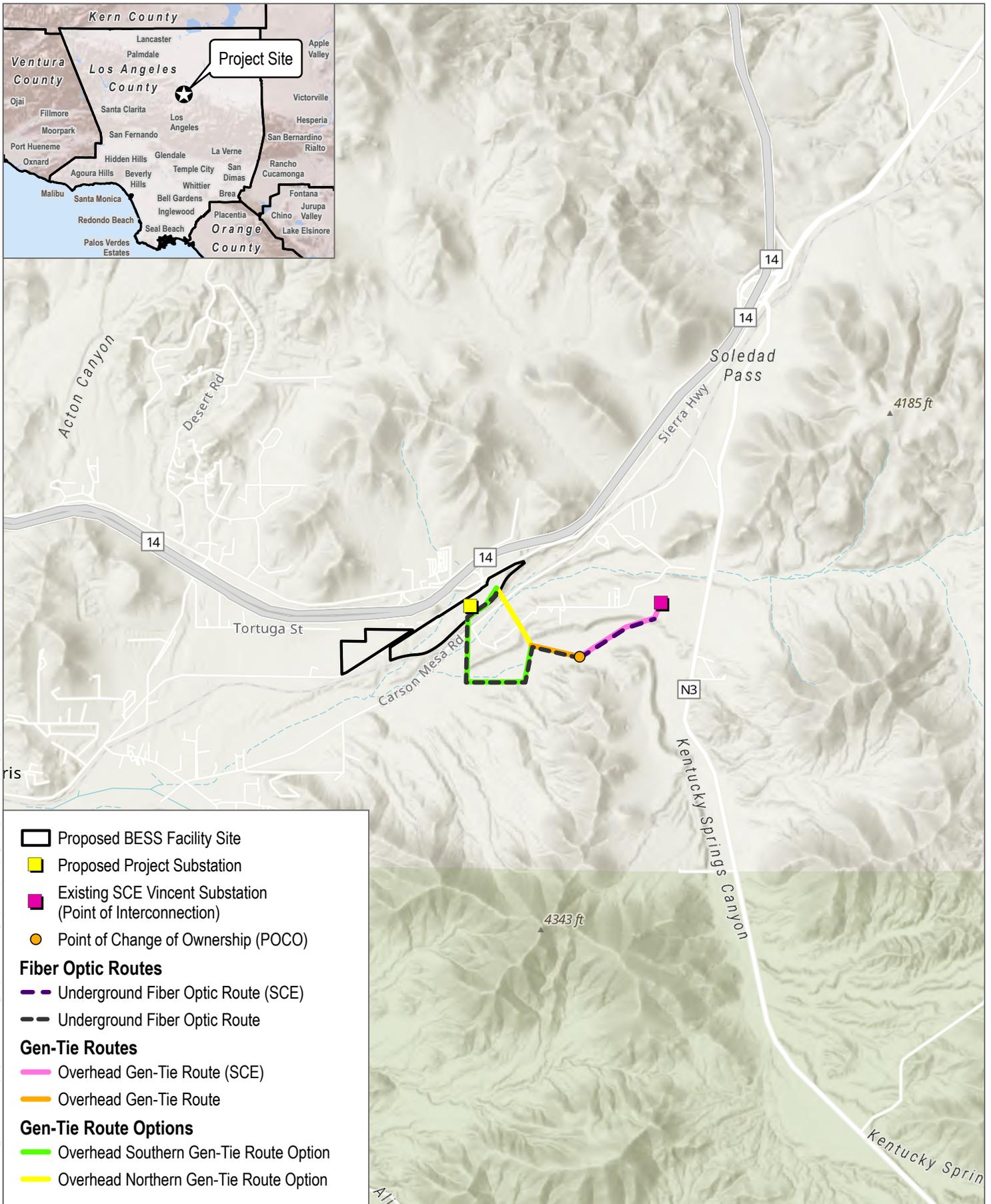
2.2 Project Description

Prairie Song Reliability Project LLC, a Delaware limited liability company (Applicant), a subsidiary of Coval Infrastructure DevCo LLC, a Delaware limited liability company, proposes to construct, operate, and eventually repower or decommission the up to 1,150-megawatt Prairie Song Reliability Project (project) located on up to approximately 107 acres in unincorporated Los Angeles County, of which approximately 35.24 acres associated with the two gen-tie line routes are located within the Santa Clara River SEA. The primary components of the project include a containerized battery energy storage system facility utilizing lithium-iron phosphate cells, or similar

technology, operations and maintenance buildings, an on-site project substation, a 500-kilovolt overhead generation interconnection (gen-tie) transmission line, and interconnection facilities within the existing Southern California Edison-owned and operated Vincent Substation.

Electrical energy would be transferred from the existing power grid to the project for storage and from the project to the power grid when additional electricity is needed. The project would provide additional capacity to the electrical grid to assist with serving load during periods of peak demand by charging when demand is low and discharging when demand is high. This operating principle increases the integration of additional intermittent renewable energy, such as wind and solar, in California's energy mix and reduces the need to operate natural gas power plants. The project would also serve as an additional local/regional capacity resource that would enhance grid reliability, particularly to the Los Angeles Basin local reliability area and may allow for the deferral or avoidance of regional transmission facilities.

The project would be remotely operated and monitored year-round as well as supported by on-site operations and maintenance staff 7 days a week. The project would be available to receive or deliver energy 24 hours a day and 365 days a year. During the operational life of the project, qualified technicians would inspect the project facilities and conduct necessary maintenance to ensure reliable and safe operational readiness.

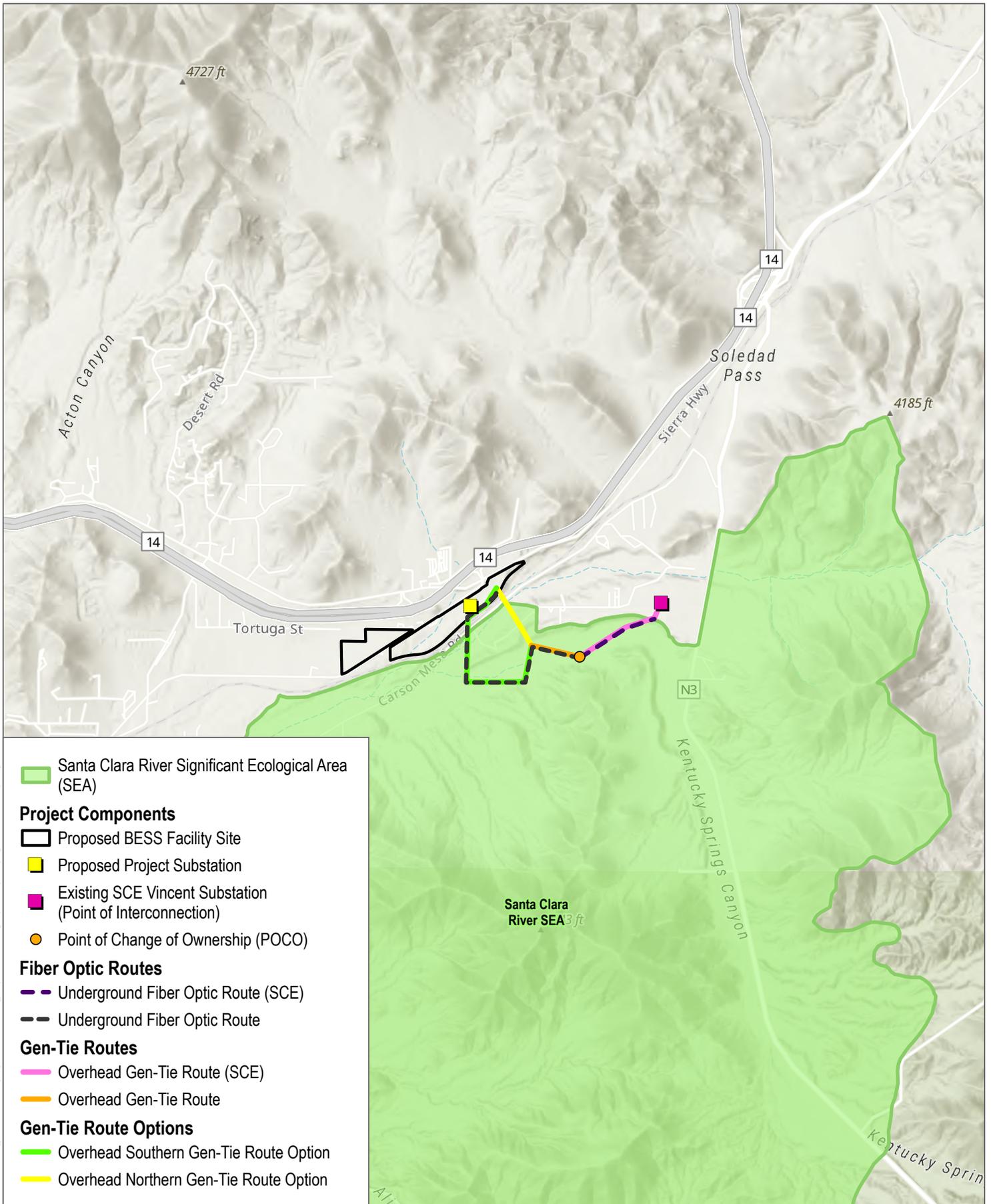


SOURCE: World Topographic



FIGURE 1
Project Location
 Prairie Song Reliability Project

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SOURCE: World Topographic; Los Angeles County

FIGURE 2
SEA Location

Prairie Song Reliability Project



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3 Methods

3.1 Tree Inventory

Dudek's International Society of Arboriculture Certified Arborists Aida Castro, Sarah Tian, Jannette Ly, and Anna Pflieger performed a comprehensive tree inventory update in June and July 2023. As a follow-up survey, International Society of Arboriculture Certified Arborists, Aida Castro and Ryan Allen conducted a supplemental survey on February 21, 2025. The Survey Area, for the purposes of the tree inventory, encompassed the approximately 107-acre potential project area. However, for the purposes of this report, only those trees located in the Santa Clara River SEA and subject to the SEA Program are included. It should be noted that no protected trees, outside of the SEA, were identified. The location of the Survey Area, including the SEA is depicted in Appendix A, Tree Location. During the survey, Dudek mapped and evaluated all trees that met the minimum requirements for protection under the Los Angeles County SEA Ordinance within the Survey Area.

Specifically, the Survey Area falls within the Santa Clara River SEA. As such, under the Santa Clara River SEA, the minimum size at which native tree species become protected within the project area SEA is as follows:

- Riparian species and trees listed as rare by California Native Plant Society ("CNPS") are generally protected at 3-inch diameter at breast height (DBH) for single trunk and 4-inch DBH for multi-trunk,
- Non-riparian native tree species, as detailed in Appendix B, SEA Protected Tree List, are generally protected at 6-inch DBH for single trunk and 8-inch DBH of the combined diameter of the two largest tree trunks for multi-trunk,
- All California junipers (*Juniperus californica*) regardless of diameter are protected.

Additionally, according to the SEA Protected trees are considered heritage trees if they meet the following criteria:

- Riparian species and trees listed as rare by California Native Plant Society ("CNPS") are generally considered heritage trees at 18-inch DBH for single trunk and 28-inch DBH for multi-trunk,
- Non-riparian native tree species, as detailed in Appendix B, SEA Protected Tree List, are generally protected at 36-inch DBH for single trunk and 56-inch DBH for multi-trunk,
- California junipers with a canopy spread of 35" or greater are considered heritage trees.

Detailed requirements for individual and multi-stem diameter thresholds that determine protection status for native tree species within the Santa Clara River SEA are provided in Appendix B, SEA Protected Tree List. Per the Los Angeles County SEA Ordinance, trunk diameter measurements were taken at 54 inches above the natural grade. In cases where the trunk of a tree split into multiple stems at approximately 54 inches above natural grade, the measurement was made at the location that best represented the trunk's diameter.

Tree attribute data collected during the field survey included species, number of stems, trunk diameter, and general health conditions. Trunk diameters were measured using a diameter tape, which provides adjusted numbers for diameter measurements when wrapping the tape around the circumference of a tree trunk. Diameter measurements were collected using standard protocol described by the Council of Tree and Landscape Appraisers in its Guide for Plant Appraisal (CTLA 2020), published by the International Society of Arboriculture, and in accordance with guidance given in the County's SEA Ordinance.

Pursuant to the Guide for Plant Appraisal (CTLA 2020), tree health was evaluated with respect to five distinct tree components: roots, trunk, scaffold branches, small branches, and foliage. Health and structure were graded as good, good/fair, fair, fair/poor, or poor. Good condition trees exhibit acceptable vigor, healthy foliage, minor if any structural issues, and no apparent maladies. Fair condition trees are typical, with few maladies and moderate structural issues, and may exhibit less vigor in foliage and new growth. Trees assigned a poor condition rating exhibit significant health or structural problems or damage.

Each regulated tree was mapped using Apple iPhones or iPads paired with external Bluetooth antennas (EOS Arrow 100 and Trimble R1) to enhance positional accuracy. Tree location data was collected and managed in the field using ArcGIS Field Maps. Each tree was assigned a unique digital identifier, which corresponds to the mapped locations in Appendix A, Tree Location, and the associated attributes in Appendix C, Tree Information Matrix.

Upon completion of field data collection and mapping, raw data was post-processed and individual tree location data was compiled and updated utilizing geographic information system technology. The digital tree locations were linked to individual tree identification numbers and associated tree attribute data. These data were then analyzed to evaluate the protection status of each tree (protected or heritage) and each tree's impact status, as presented in this report. For SEA Protected Trees with multiple trunks, the combined diameter at breast height (DBH) of the two largest trunks was calculated to determine the aggregate DBH for such trees. DBH was used to characterize individual trees as being a Protected or Heritage Tree under the SEA guidelines. Those specific measurements are provided in Appendix B, SEA Protected Tree List. Additional details regarding protection status (protected or heritage) are discussed in detail in Section 4, Regulatory Setting.

3.2 Impact Evaluation

There is wide variation in tolerance to construction impacts among tree species, and the response of an individual tree to impacts also varies with age and condition. Impacts assessed for this project include trees with protected zones within the proposed improvement and disturbance areas, as defined in the project's site plan (dated August 2023). Per the County Code, which establishes minimum setbacks for SEA Protected Trees, the tree protection zone (TPZ) is defined as the area that extends 5 feet out from the dripline of the Protected Tree or 15 feet from the trunk, whichever distance is greater. For the tree impact analysis conducted in August 2025, Dudek applied the SEA Protected Tree Ordinance criteria. Tree removal is anticipated when proposed grading activities affect more than 30% of a TPZ. Encroachment is expected when less than 30% of the TPZ is disturbed, such as through soil or root disruption, or when pruning is required. To determine impact designations, Dudek arborists used the County's definition of direct impact, which includes tree removal, root disturbance, soil excavation and compaction, grade changes, canopy loss, and trunk damage. Based on these criteria, project-related impacts are classified as either direct impacts (removal or encroachment) or no impact (trees preserved without disturbance).

3.3 Scope of Work Limitations

No root crown excavations or investigations or internal probing were performed during the tree assessment. Therefore, the presence or absence of internal decay or other hidden inferiorities in individual trees could not be confirmed. It is recommended that any large tree proposed for preservation or relocation be thoroughly inspected for internal and subterranean decay by a qualified arborist before finalizing a preservation or relocation plan.

4 Regulatory Setting

The following section summarizes the relevant policies regulating tree impacts and removals associated with the project.

4.1 Los Angeles County SEA Ordinance

The two gen-tie line routes under consideration by the project are in the Santa Clara River SEA, while the remainder of the project site is located outside of the Santa Clara River SEA. The following section summarizes portions of the ordinance that are specifically pertinent to this tree report (Los Angeles County Regional Planning 2020).

4.1.1 Significant Ecological Area Protected Trees

Chapter 3 (SEA Protected Trees) of the Los Angeles County SEA Ordinance Implementation Guide (County of Los Angeles 2020) describes tree protection regulations. Protected Trees are designated by species and trunk diameter of a minimum listed size specific to each SEA. The minimum size at which native tree species become protected within the project area SEA is as follows:

- Riparian species and trees listed as rare by California Native Plant Society (“CNPS”) are generally protected at 3-inch DBH for single trunk and 4-inch DBH for multi-trunk,
- Non-riparian native tree species, as detailed in Appendix B, SEA Protected Tree List, are generally protected at 6-inch DBH for single trunk and 8-inch DBH for multi-trunk,
- All California junipers (*Juniperus californica*) regardless of diameter are protected.

Additionally, according to the SEA Protected trees are considered heritage trees if they meet the following criteria:

- Riparian species and trees listed as rare by California Native Plant Society (“CNPS”) are generally considered heritage trees at 18-inch DBH for single trunk and 28-inch DBH for multi-trunk,
- Non-riparian native tree species, as detailed in Appendix B, SEA Protected Tree List, are generally protected at 36-inch DBH for single trunk and 56-inch DBH for multi-trunk,
- California junipers with a canopy spread of 35” or greater are considered heritage trees.

Detailed requirements for individual and multi-stem diameter thresholds that determine protection status for native tree species within the Santa Clara River SEA are provided in Appendix B, SEA Protected Tree List

As discussed in the following sections, because the number of project-related impacts is greater than two trees, the project would require discretionary SEA Conditional Use Permit (CUP) review but for the California Energy Commission’s Opt-In Application for Certification process, which is currently ongoing. Furthermore, mitigation and monitoring requirements for SEA CUPs should meet or exceed the mitigation and monitoring requirements of a Protected Tree permit.

4.1.2 Tree Protection Zone

Chapter 3 of the Implementation Guide establishes minimum setbacks for SEA Protected Trees, known as a TPZ. Since tree roots extend well beyond the visible crown of the tree and can be greatly impacted by disturbances to the ground around them, the TPZ extends 5 feet out from the dripline of the Protected Tree or 15 feet from the trunk, whichever distance is greater.

5 Results

5.1 Tree Inventory Summary

A total of 1,134 trees were documented within the Santa Clara River SEA, and 1,021 of those are classified as either protected or heritage California Junipers. The protected trees include 953 protected trees and 68 heritage trees. The remaining 113 trees are classified as dead and as such are not considered protected. Table 1 summarizes trees that were mapped and evaluated within the SEA Survey Area. Appendix A, Tree Location, provides detailed locations of all individual trees assessed for the proposed project.

Table 1. Summary of Trees at the Prairie Song Reliability Project

Scientific Name	Common Name	Total Number of Protected Trees	Number of Heritage Trees	Total Number of Non-protected Trees	Total Number of Trees
<i>Juniperus californica</i>	California juniper	953	68	113	1,134
Total		953	68	113	1,134

Trees in the Survey Area vary in size and stature and exhibit conditions typical of their locations as native trees in a natural setting. As presented in Appendix B, SEA Protected Tree List, of the 953 protected trees:

- 110 trees (11.54%) are in good health
- 450 trees (47.22%) are in fair health
- 293 trees (30.75%) are in poor health
- 100 trees (10.50%) are in critical health

The remaining 113 trees located in the SEA are classified as dead and are therefore not protected.

Trees in good condition exhibit acceptable vigor, healthy foliage, adequate structure, and lack major defects. Trees in fair condition show multiple defects and/or potentially declining vigor. Poor condition trees exhibit declining vigor, unhealthy foliage, poor structure, and multiple defects.

Among the 953 protected trees surveyed, single and aggregate trunk diameters for the two largest stems range from 1 inches to 27 inches. Tree heights vary from 2 feet for juvenile specimens to 25 feet for mature trees.

Based on the SEA minimum size requirement for Heritage Tree classification, defined as having a crown canopy of 35 feet or more, a total of 68 Heritage Trees were identified on the project site. All of which are multi-trunk California junipers.

The health of the 68 Heritage Trees ranges from good to critical. As detailed in Appendix B, SEA Protected Tree List:

- 7 trees (10.29%) are in good health
- 32 trees (47.06%) are in fair health
- 24 trees (35.29%) are in poor health
- 5 trees (7.35%) are in critical health

Among the 953 protected trees surveyed, single and aggregate trunk diameters for the two largest stems range from 2 inches to 21 inches. Tree heights vary from 1 foot for juvenile specimens to 25 feet for mature trees.

5.2 Mapping

The location of each tree identified on the project site is depicted in Appendix A, Tree Location.

5.3 Tree Removal/Encroachment

As previously stated, for the purposes of this arborist report, direct impacts are associated with tree removal or encroachment within the tree-protected zone (i.e., canopy dripline plus 5 feet or 15 feet from trunk, whichever is greater). Specifically, tree impacts were determined using geographic information system technology, spatial locations of tree crowns, and a minimum distance of each tree relative to the project impact. A tree is considered removed if it falls within the project's limits of disturbance or if 30% or more of its TPZ is impacted. The TPZ is defined as 5 feet beyond the dripline or 15 feet from the trunk, whichever is greater. A tree is considered encroached upon if less than 30% of its TPZ is affected by project activities, including soil or root disturbance and/or pruning, but the tree is not removed, and a tree is considered preserved if they are not removed and do not experience any TPZ disturbance. Impact totals presented herein are based on proposed disturbance limits, fuel modification zones, and development plans as of the date of this report. The following tree impact findings are organized into two categories: non-Heritage Tree impacts and Heritage Tree impacts. Heritage tree status is based on the SEA tree classifications (i.e., riparian, coniferous, upland hardwood) and minimum trunk diameter for protected and Heritage Trees. This impact evaluation includes both gen-tie route options, although only one will ultimately be selected. As a result, the total number of impacted trees is expected to be lower depending on the chosen route and final design. Additionally, field adjustments are likely to further minimize impacts to protected trees. The impact figures presented in this report represent a maximum potential impact, and actual impacts are expected to be reduced.

5.3.1 Non-heritage Tree Impacts (Protected Trees)

Of the 953 Protected Trees that occur within the Survey Area (non-inclusive of Heritage Trees), 47 protected non-Heritage- Trees could be directly impacted by the proposed project. The 47 protected non-Heritage Tree impacts consist of 38 potential removals (trees are within the grading limits or grading activities affect more than 30% of a TPZ), 9 potential encroachments (trees that are not removed, but root damage, soil excavation and compaction, grade changes, loss of canopy, and trunk wounds are anticipated. The nine potential encroachment trees, as presented in Appendix B, SEA Protected Tree List, have encroachments that range from 1% to 24%. The remaining 906 protected non-Heritage Trees would not be directly impacted by the project. Table 2 provides a summary of the proposed impacts to non-heritage SEA Protected Trees within and adjacent to the project.

Table 2. Summary of Potential Impacts to SEA Protected Trees (Non-heritage)

Scientific Name	Common Name	Removals	Encroachments	Total Impacts
<i>Juniperus californica</i>	California juniper	38	9	47
Total		38	9	47

Note: SEA = Significant Ecological Area.

Appendix D, Potential Tree Impacts, presents the locations of the individual trees that would be subject to impacts by the proposed project. Table 3 provides a summary of the overall health ratings for the proposed impacted non-Heritage Trees within the project site.

Table 3. Summary of Overall Health Ratings for Potentially Impacted SEA Protected Trees (Non-heritage)

Scientific Name	Common Name	Overall Health Rating				
		Dead**	Critical	Poor	Fair	Good
<i>Juniperus californica</i>	California juniper	0	1	9	29	8
Totals		0	1	9	29	8

Note: SEA = Significant Ecological Area.

** Dead trees are not protected by the County of Los Angeles and do not require mitigation.

5.3.2 Heritage Tree Impacts

A total of 68 Heritage Trees are found on site, of which eight could be directly impacted by the project. The eight Heritage Tree potential impacts comprise six potential removals and two potential encroachments. The remaining 60 Heritage Trees would not be directly impacted by the project. Table 4 provides a summary of the potential impacts to SEA protected Heritage Trees within and adjacent to the project.

Table 4. Summary of Potential Impacts to SEA Protected Heritage Trees

Scientific Name	Common Name	Removals	Encroachments	Total Impacts
<i>Juniperus californica</i>	California juniper	6	2	8
Total		6	2	8

Note: SEA = Significant Ecological Area.

Appendix D, Potential Tree Impacts, presents the locations of the individual trees that could be subject to impacts by the proposed project. Table 5 provides a summary of overall health ratings for the six Heritage Trees that could be impacted by the project.

Table 5. Summary of Overall Health Ratings for Potentially Impacted SEA Heritage Trees

Scientific Name	Common Name	Overall, Health Rating (Number)				
		Dead*	Critical	Poor	Fair	Good
<i>Juniperus californica</i>	California juniper	0	0	3	5	0
Totals		0	0	3	5	0

Note: SEA = Significant Ecological Area.

* Dead trees are not protected by the County of Los Angeles and do not require mitigation.

5.3.3 Non-protected Tree Impacts

Of the 113 non-protected trees that occur within the Survey Area, five non-protected trees could be directly impacted by the proposed project. The five non-protected potential tree impacts consist of three potential removals and two potential encroachments. The remaining 108 non-protected trees would not be directly impacted by the project. All of the non-protected tree removals are dead trees. Table 6 provides a summary of the potential impacts to non-protected trees within and adjacent to the project.

Table 6. Summary of Potential Impacts Non-protected Trees

Scientific Name	Common Name	Removals	Encroachments	Total Impacts
<i>Juniperus californica</i>	California juniper	3	2	5
Total		3	2	5

Appendix D, Potential Tree Impacts, presents the locations of the individual trees that could be subject to impacts by the proposed project. Table 7 provides a summary of overall health ratings for the six non-protected trees that could be impacted by the project.

Table 7. Summary of Overall Health Ratings for Potentially Impacted Non-protected Trees

Scientific Name	Common Name	Overall Health Rating				
		Dead	Critical	Poor	Fair	Good
<i>Juniperus californica</i>	California juniper	5	0	0	0	0
Totals		5	0	0	0	0

6 Mitigation

The proposed project’s mitigation effort would include tree planting mitigation for incurred tree impacts, which would be consistent with the goals and intent of the County.

6.1 Mitigation Requirements

Per the County SEA Ordinance, any development that would remove a Heritage Tree or would remove more than two non-heritage-size SEA Protected Trees requires a CUP. Mitigation and monitoring for such removals are determined as part of the discretionary SEA CUP review and included as conditions of approval in the CUP. Mitigation and monitoring requirements for SEA CUPs must meet or exceed the mitigation and monitoring requirements of a Protected Tree permit.

Furthermore, at a minimum and per the County requirements, the removal of any SEA Protected Tree requires mitigation in the form of 2 replacement plantings, and the removal of a heritage tree requires mitigation in the form of 10 replacement plantings. Replacement trees should be seedlings of the same species as those being removed and should be planted in an area of the project site where there is suitable habitat and where the trees would be able to remain in perpetuity. As such, based on the August 2025 impact analysis that identified 44 potential direct tree removals (6 Heritage Trees and 38 non-heritage protected Trees), but for the CEC’s Opt-In Application for Certification process, the County would require up to 136 mitigation trees (depending on actual project impacts of the selected gen-tie route and final design) to be planted in an area of the project site where there is suitable habitat and where the trees would be able to remain in perpetuity. Per the County requirements, Table 8, Summary of Individual Species Replacement Quantities, details the quantity of each species required for planting.

Table 8. Summary of Individual Species Estimated Replacement Quantities

Scientific Name	Common Name	Total Impacted	Replacement Ratio	Total Replacement Required
<i>Juniperus californica</i>	California juniper	38	2:1	76
<i>Juniperus californica</i> (Heritage Tree)	California juniper	6	10:1	60
Totals		44	N/A	136

It should be noted that mitigation can include the protection of undersized, naturally sprouted trees of the same species growing on site. In addition, per the County Code, the County may require additional mitigation and monitoring requirements following review of the SEA CUPs. At a minimum, the County requires that the replacement trees need to be nurtured and maintained in a healthy condition and be monitored for a period of 7 years. If any of the replacement plantings fail during the monitoring period of 7 years, the applicant would be responsible for replanting and nurturing those new trees.

The final number of impacts and subsequent mitigation will be based upon final project design. As a result, the total number of impacted trees is expected to be lower depending on the selected gen-tie route. The impact figures presented in this report represent a maximum potential impact, and actual impacts are expected to be reduced.

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7 Tree Protection

As currently designed, of the 1,021 protected trees within the Survey Area, 44 would require removal to accommodate the proposed project. As such, it is recommended that the remaining 966 preserved trees and 11 encroached-upon trees be protected in place. Furthermore, it is recommended that the 11 encroached-upon protected trees located immediately adjacent to the project site be protected in accordance with the tree protection standards found in Appendix E, Tree Protection Measures.

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8 Conclusion

The project could directly impact 60 trees, with 47 direct removals (6 Heritage Trees, 38 Protected Trees, and 3 non-protected trees), and 13 encroachments (2 Heritage Trees, 9 Protected Trees, and 2 non-protected trees), of which 44 require mitigation (38 protected tree removal and 6 heritage tree removals). Mitigation for the 44 impacted trees requires replacement using seedlings of the same species, at a ratio of 2:1 for Protected Trees and 10:1 for Heritage Trees. Based on these requirements, up to 136 mitigation trees may be needed to satisfy County standards. However, as previously noted, this impact evaluation includes both gen-tie route options, although only one will ultimately be selected. Consequently, the total number of impacted trees is expected to be lower depending on the chosen gen-tie route. In addition, field adjustments during implementation are likely to further reduce impacts to protected trees. The impact figures presented in this report represent a maximum potential impact, and actual impacts are expected to be lower.

The remaining 964 preserved trees and 13 encroached-upon trees located throughout the proposed project site are recommended to be preserved in place. It is recommended that the 13 encroached-upon protected trees located immediately adjacent to the project site be protected in accordance with the tree protection standards found in Appendix E Tree Protection Measures. Actual tree impact or encroachment numbers may be lower than anticipated, as presented in this report, once grading plans are staked in the field and are being implemented.

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9 Arborist's Disclosure

This report provides conclusions and recommendations based only on a visual examination of the trees and surrounding site by an International Society of Arboriculture Certified Arborist and reasonable reliance upon the completeness and accuracy of the information provided to the arborist. The examination did not include subterranean or internal examination of the trees.

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near them. Although trees provide many benefits to those who live near them, they also include inherent risks from breakage or failure that can be minimized but not eliminated.

Arborists cannot detect every condition that could possibly lead to the failure of a tree. Trees are living organisms subject to attack by disease, insects, fungi, weather, and other forces of nature, and conditions that lead to failure are often hidden within trees and below ground. There are some inherent risks with trees that cannot be predicted with any degree of certainty, even by a skilled and experienced arborist. Arborists cannot predict acts of nature that can cause even an apparently healthy tree to fail, including storms of sufficient strength. Additionally, arborists cannot guarantee that a tree will be healthy or safe under all circumstances or for any specific period of time. A tree's condition could change over a short or long period of time due to climatic, cultural, or environmental conditions. Further, there is no guarantee or certainty that recommendations or efforts to correct unsafe conditions will prevent future breakage or failure of a tree.

To live or work near trees is to accept some degree of risk. Neither the author of this report nor Dudek have assumed any responsibility for, nor will either of them be liable for, any claims, losses, or damages for damage to any tree, death or injury to any person, or any loss of or damage to any personal or real property.

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10 References Cited

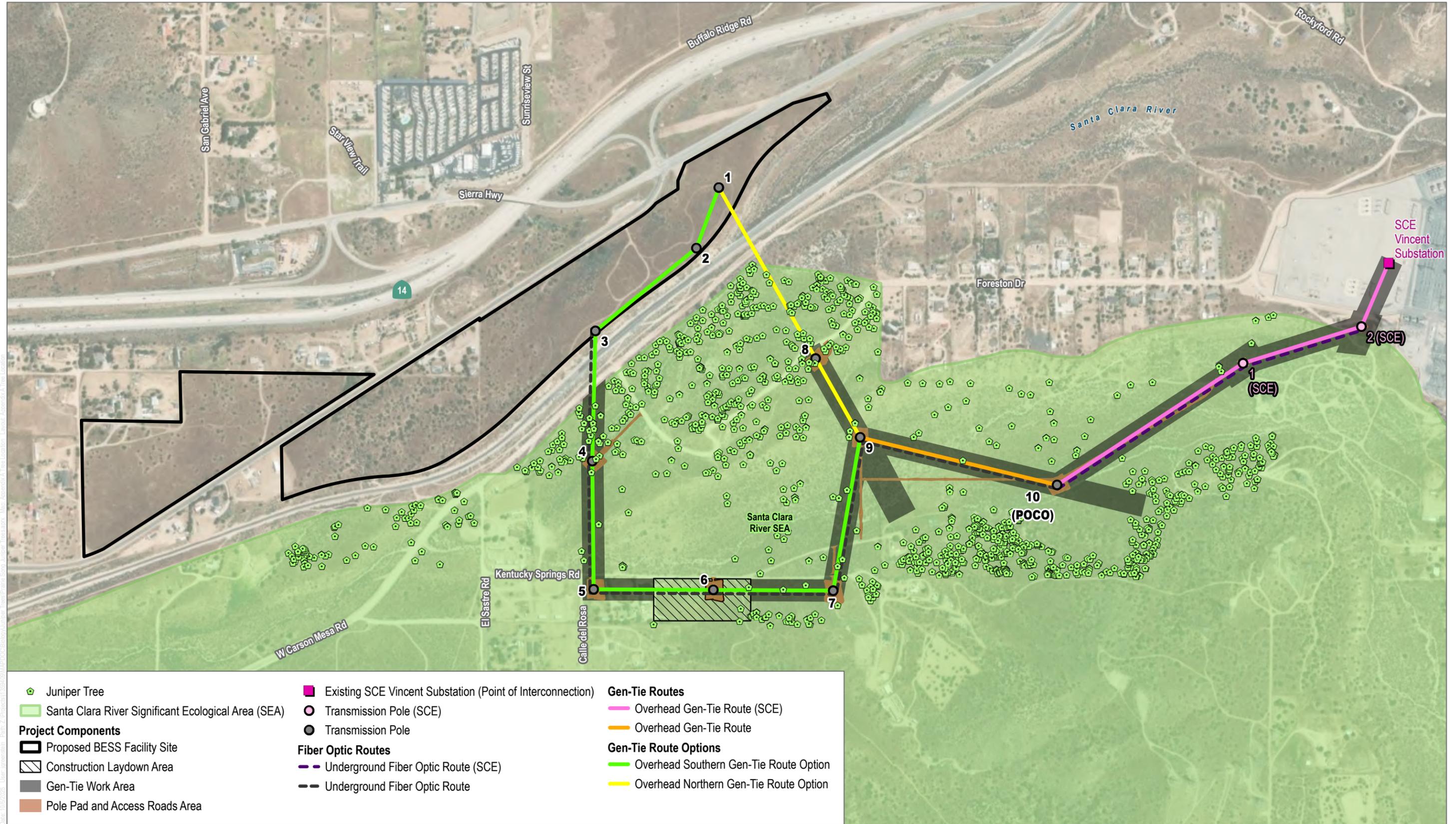
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https://planning.lacounty.gov/wp-content/uploads/2022/11/SEA-IG-6-30-20_Full.pdf.

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Appendix A

Tree Locations



Date: 10/6/2026 User: jpreusslein Path: Z:\Projects\11394\09\MAPDOC\09\Map\Trees.sppx Map: Appendix A Tree Location Layout: Appendix A Tree Location

SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

Appendix B

SEA Protected Tree List

APPENDIX A: SEA PROTECTED TREE LIST

* indicates species is listed as a rare plant by California Native Plant Society

ALTADENA FOOTHILLS & ARROYOS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Abies concolor</i>	white fir	5"	7"	30"	47"
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arbutus menziesii</i>	Pacific madrone	6"	8"	36"	56"
<i>Arctostaphylos glandulosa</i> (all subspecies)	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus coulteri</i>	Coulter pine	5"	7"	30"	47"
<i>Pinus jeffreyi</i>	Jeffrey pine	5"	7"	30"	47"
<i>Pinus lambertiana</i>	sugar pine	5"	7"	30"	47"
<i>Pinus ponderosa</i>	ponderosa pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus durata</i> var. <i>gabrielensis</i> *	San Gabriel Mtns. leather oak	3"	4"	18"	28"
<i>Quercus engelmannii</i> *	Engelmann oak	3"	4"	18"	28"
<i>Quercus wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

ANTELOPE VALLEY SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Abies concolor</i>	white fir	5"	7"	30"	47"
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Adenostoma sparsifolium</i>	red shank	6"	8"	36"	56"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i> (all subspecies)	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Cercocarpus ledifolius</i>	curl leaf/desert mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Juniperus grandis</i>	Sierra juniper	5"	7"	30"	47"
<i>Juniperus osteosperma</i>	Utah juniper	5"	7"	30"	47"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus coulteri</i>	Coulter pine	5"	7"	30"	47"
<i>Pinus flexilis</i>	limber pine	5"	7"	30"	47"
<i>Pinus jeffreyi</i>	Jeffrey pine	5"	7"	30"	47"
<i>Pinus lambertiana</i>	sugar pine	5"	7"	30"	47"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Pinus monophylla</i>	pinyon pine	5"	7"	30"	47"
<i>Pinus ponderosa</i>	ponderosa pine	5"	7"	30"	47"
<i>Pinus sabiniana</i>	foothill pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prosopis glandulosa</i>	honey mesquite	6"	8"	36"	56"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus cornelius-mulleri</i>	Muller's oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus kelloggii</i>	California black oak	6"	8"	36"	56"
<i>Quercus palmeri</i>	Palmer's oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>frutescens</i>	interior live oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"
<i>Yucca brevifolia</i>	Joshua tree	All specimens	NA	20' tall	NA

CRUZAN MESA VERNAL POOLS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Arctostaphylos glandulosa</i> (all subspecies)	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"

EAST SAN GABRIEL VALLEY SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Ceanothus crassifolius</i>	hoaryleaf ceanothus	6"	8"	36"	56"
<i>Ceanothus megacarpus</i>	big-pod ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus durata</i> var. <i>gabrielensis</i> *	San Gabriel Mtns. leather oak	3"	4"	18"	28"
<i>Quercus engelmannii</i> *	Engelmann oak	3"	4"	18"	28"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

HARBOR LAKE REGIONAL PARK SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Sambucus nigra</i> <i>ssp. caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

JOSHUA TREE WOODLANDS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Cercocarpus ledifolius</i>	curl-leaf mountain-mahogany	6"	8"	36"	56"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Hesperocyparis nevadensis</i> *	Piute cypress	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Pinus sabiniana</i>	foothill pine	5"	7"	30"	47"
<i>Prosopis glandulosa</i>	honey mesquite	6"	8"	36"	56"
<i>Yucca brevifolia</i>	Joshua tree	All specimens	NA	20' tall	NA

PALOS VERDE PENINSULA AND COASTLINE SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Prunus ilicifolia</i> <i>ssp. lyonii</i>	Catalina Island cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

PUENTE HILLS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Ceanothus megacarpus</i>	big-pod ceanothus	6"	8"	36"	56"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus engelmannii</i> *	Engelmann oak	3"	4"	18"	28"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> <i>ssp. caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

RIO HONDO COLLEGE AND WILDLIFE SANCTUARY SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Sambucus nigra ssp. caerulea</i>	blue elderberry	6"	8"	36"	56"

SAN ANDREAS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Abies concolor</i>	white fir	5"	7"	30"	47"
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Cercocarpus ledifolius</i>	curl leaf/desert mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Hesperocyparis nevadensis</i> *	Piute cypress	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus coulteri</i>	Coulter pine	5"	7"	30"	47"
<i>Pinus jeffreyi</i>	Jeffrey pine	5"	7"	30"	47"
<i>Pinus lambertiana</i>	sugar pine	5"	7"	30"	47"
<i>Pinus monophylla</i>	pinyon pine	5"	7"	30"	47"
<i>Pinus ponderosa</i>	ponderosa pine	5"	7"	30"	47"
<i>Pinus sabiniana</i>	foothill pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prosopis glandulosa</i>	honey mesquite	6"	8"	36"	56"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"
<i>Quercus garryana</i>	Oregon oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus kelloggii</i>	California black oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"
<i>Yucca brevifolia</i>	Joshua tree	All specimens	NA	20' tall	NA

SAN DIMAS CANYON & SAN ANTONIO WASH SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Abies concolor</i>	white fir	5"	7"	30"	47"
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Adenostoma sparsifolium</i>	red shank	6"	8"	36"	56"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Ceanothus megacarpus</i>	big-pod ceanothus	6"	8"	36"	56"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Cercocarpus ledifolius</i>	curl leaf/desert mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	Toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus grandis</i>	Sierra juniper	5"	7"	30"	47"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus coulteri</i>	Coulter pine	5"	7"	30"	47"
<i>Pinus jeffreyi</i>	Jeffrey pine	5"	7"	30"	47"
<i>Pinus lambertiana</i>	sugar pine	5"	7"	30"	47"
<i>Pinus ponderosa</i>	ponderosa pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"
<i>Quercus durata</i> var. <i>gabrielensis</i> *	San Gabriel Mtns. leather oak	3"	4"	18"	28"
<i>Quercus engelmannii</i> *	Engelmann oak	3"	4"	18"	28"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

SAN GABRIEL CANYON SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Abies concolor</i>	white fir	5"	7"	30"	47"
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arbutus menziesii</i>	Pacific madrone	6"	8"	36"	56"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Ceanothus megacarpus</i>	big-pod ceanothus	6"	8"	36"	56"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus coulteri</i>	Coulter pine	5"	7"	30"	47"
<i>Pinus jeffreyi</i>	Jeffrey pine	5"	7"	30"	47"
<i>Pinus lambertiana</i>	sugar pine	5"	7"	30"	47"
<i>Pinus ponderosa</i>	ponderosa pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"
<i>Quercus durata</i> var. <i>gabrielensis</i> *	San Gabriel Mtns. leather oak	3"	4"	18"	28"
<i>Quercus engelmannii</i> *	Engelmann oak	3"	4"	18"	28"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

SANTA CLARA RIVER SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Adenostoma sparsifolium</i>	red shank	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Calocedrus decurrens</i>	incense cedar	5"	7"	30"	47"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Pinus monophylla</i>	pinyon pine	5"	7"	30"	47"
<i>Pinus sabiniana</i>	foothill pine	5"	7"	30"	47"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus cornelius-mulleri</i>	desert scrub oak, Muller oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"
<i>Quercus garryana</i>	Oregon oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus kelloggii</i>	California black oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus palmeri</i>	Palmer's oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiandra</i>	yellow willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

SANTA FELICIA SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Aesculus californica</i>	California buckeye	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Cercocarpus ledifolius</i>	curl leaf/desert mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Juniperus californica</i>	California juniper	All specimens	NA	35' canopy spread	NA
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus cornelius-mulleri</i>	desert scrub oak, Muller oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Quercus garryana</i>	Oregon oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus kelloggii</i>	California black oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus xmacdonaldii</i>	MacDonald oak	6"	8"	36"	56"
<i>Quercus palmeri</i>	Palmer's oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

SANTA SUSANA MOUNTAINS & SIMI HILLS SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Acer negundo</i>	boxelder	6"	8"	36"	56"
<i>Adenostoma sparsifolium</i>	red shank	6"	8"	36"	56"
<i>Alnus rhombifolia</i>	white alder	3"	4"	18"	28"
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita	6"	8"	36"	56"
<i>Arctostaphylos glauca</i>	big berry manzanita	6"	8"	36"	56"
<i>Ceanothus megacarpus</i>	bigpod ceanothus	6"	8"	36"	56"
<i>Ceanothus spinosus</i>	greenbark ceanothus	6"	8"	36"	56"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Fraxinus dipetala</i>	California ash	3"	4"	18"	28"
<i>Fraxinus velutina</i>	velvet ash, Arizona ash	3"	4"	18"	28"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Juglans californica</i> *	southern California black walnut	3"	4"	18"	28"
<i>Malosma laurina</i>	laurel sumac	6"	8"	36"	56"
<i>Platanus racemosa</i>	western sycamore	3"	4"	18"	28"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Populus trichocarpa</i>	black cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Pseudotsuga macrocarpa</i>	bigcone spruce	5"	7"	30"	47"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus berberidifolia</i>	inland scrub oak	6"	8"	36"	56"
<i>Quercus chrysolepis</i>	canyon oak	6"	8"	36"	56"
<i>Quercus douglasii</i>	blue oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Quercus palmeri</i>	Palmer's oak	6"	8"	36"	56"
<i>Quercus wislizeni</i> var. <i>wislizeni</i>	interior live oak	6"	8"	36"	56"
<i>Salix exigua</i>	narrowleaf / sandbar willow	3"	4"	18"	28"
<i>Salix gooddingii</i>	Goodding's black willow	3"	4"	18"	28"
<i>Salix laevigata</i>	red willow	3"	4"	18"	28"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"
<i>Umbellularia californica</i>	California bay	6"	8"	36"	56"

VALLEY OAKS SAVANNAH SEA

Scientific Name	Common Name	Protected DBH	2-trunk Protected DBH	Heritage DBH	2-trunk Heritage DBH
<i>Acer macrophyllum</i>	bigleaf maple	3"	4"	18"	28"
<i>Cercocarpus betuloides</i>	mountain mahogany	6"	8"	36"	56"
<i>Heteromeles arbutifolia</i>	toyon	6"	8"	36"	56"
<i>Populus fremontii</i>	Fremont cottonwood	3"	4"	18"	28"
<i>Prunus ilicifolia</i>	holly leaf cherry	3"	4"	18"	28"
<i>Quercus agrifolia</i>	coast live oak	6"	8"	36"	56"
<i>Quercus john-tuckeri</i>	Tucker oak	6"	8"	36"	56"
<i>Quercus lobata</i>	Valley oak	6"	8"	36"	56"
<i>Salix lasiolepis</i>	arroyo willow	3"	4"	18"	28"
<i>Sambucus nigra</i> ssp. <i>caerulea</i>	blue elderberry	6"	8"	36"	56"

Appendix C

Tree Information Matrix

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
1	California Juniper	<i>Juniperus californica</i>	6	11	12	5	5	4	4		33	10	20	Fair	Fair	Protected		Preserved	34.4812937	-118.14225
2	California Juniper	<i>Juniperus californica</i>	4	5	5	3	3				16	10	10	Fair	Fair	Protected		Preserved	34.4810733	-118.1441
3	California Juniper	<i>Juniperus californica</i>	6	2	2	2	2	2	2		8	10	15	Fair	Fair	Protected		Preserved	34.4810425	-118.14417
4	California Juniper	<i>Juniperus californica</i>	14	4	3	3	2	2	2	2,2,2,2,2,2,2,2	12	15	15	Fair	Fair	Protected		Preserved	34.4810657	-118.14425
5	California Juniper	<i>Juniperus californica</i>	14	4	4	2	2	2	2	2,2,2,2,2,2,2,2	12	10	15	Fair	Fair	Protected		Preserved	34.4810062	-118.14442
6	California Juniper	<i>Juniperus californica</i>	16	5	4	4	4	3	2	2,2,2,2,2,2,2,2,2,2,1	17	10	15	Fair	Fair	Protected		Preserved	34.4810376	-118.14452
7	California Juniper	<i>Juniperus californica</i>	8	3	3	2	2	2	2	2,2	10	7	10	Fair	Fair	Protected		Preserved	34.4810633	-118.14461
8	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1	4	7	7	Fair	Fair	Protected		Preserved	34.4810509	-118.14464
9	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1	4	7	7	Fair	Fair	Protected		Preserved	34.4810438	-118.14465
10	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	3	3	Good	Fair	Protected		Preserved	34.4811009	-118.14463
11	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	5	5	Good	Fair	Protected		Preserved	34.48111	-118.14461
12	California Juniper	<i>Juniperus californica</i>	11	2	2	2	2	2	2	2,2,2,2,2	8	10	10	Good	Fair	Protected		Preserved	34.4811179	-118.14465
13	California Juniper	<i>Juniperus californica</i>	10	2	2	2	2	1	1	1,1,1,1	8	10	10	Good	Fair	Protected		Preserved	34.481121	-118.14469
14	California Juniper	<i>Juniperus californica</i>	14	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1	4	7	7	Poor	Fair	Protected		Preserved	34.4811494	-118.14467
15	California Juniper	<i>Juniperus californica</i>	11	4	4	3	3	3	3	2,2,2,2,2	14	15	15	Fair	Fair	Protected		Preserved	34.4811496	-118.14462
16	California Juniper	<i>Juniperus californica</i>	18	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	4	10	7	Good	Fair	Protected		Preserved	34.4811763	-118.14464
17	California Juniper	<i>Juniperus californica</i>	8	4	3	3	2	2	2	2,2	12	15	10	Good	Fair	Protected		Preserved	34.4811788	-118.14467
18	California Juniper	<i>Juniperus californica</i>	10	2	2	1	1	1	1	1,1,1,1	6	10	10	Good	Fair	Protected		Preserved	34.4812198	-118.14484
19	California Juniper	<i>Juniperus californica</i>	18	3	3	3	2	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	11	10	15	Good	Fair	Protected		Preserved	34.4810993	-118.14499
20	California Juniper	<i>Juniperus californica</i>	17	2	2	2	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	7	8	10	Fair	Fair	Protected		Preserved	34.4810371	-118.14491
21	California Juniper	<i>Juniperus californica</i>	8	9	7	5	5	2	2	2,2	26	10	15	Fair	Fair	Protected		Preserved	34.4809366	-118.14485
22	California Juniper	<i>Juniperus californica</i>	6	3	3	3	2	2	2		11	10	10	Fair	Fair	Protected		Preserved	34.4809152	-118.14489

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
513	California Juniper	<i>Juniperus californica</i>	2	1	1					2	4	3	Good	Fair	Protected		Preserved	34.483558	-118.13543	
514	California Juniper	<i>Juniperus californica</i>	4	1	1	1	1			4	4	5	Fair	Fair	Protected		Preserved	34.4835598	-118.13542	
515	California Juniper	<i>Juniperus californica</i>	3	1	1	1				3	1	5	Dead	Dead	No - Dead		Preserved	34.4835821	-118.13543	
516	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1	4	5	15	Fair	Fair	Protected		Preserved	34.4836232	-118.13527	
517	California Juniper	<i>Juniperus californica</i>	3	1	1	1				3	4	4	Critical	Poor	Protected		Preserved	34.48366	-118.13533	
518	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1		4	1	4	Dead	Dead	No - Dead		Preserved	34.4837306	-118.13532	
519	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1	4	3	10	Dead	Dead	No - Dead		Preserved	34.4837579	-118.13533	
520	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1	4	3	5	Dead	Dead	No - Dead		Preserved	34.4837851	-118.13529	
521	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1		4	3	7	Fair	Fair	Protected		Preserved	34.4837925	-118.13521	
522	California Juniper	<i>Juniperus californica</i>	6	4	3	3	4	5	1	14	3	4	Dead	Dead	No - Dead		Preserved	34.483808	-118.13524	
523	California Juniper	<i>Juniperus californica</i>	2	3	3					6	4	4	Dead	Dead	No - Dead		Preserved	34.4838578	-118.13516	
524	California Juniper	<i>Juniperus californica</i>	3	1	1	1				3	3	4	Fair	Fair	Protected		Preserved	34.4838965	-118.13513	
525	California Juniper	<i>Juniperus californica</i>	10	2	1	1	1	1	1	1,1,1,1	5	6	10	Fair	Fair	Protected		Preserved	34.4838462	-118.13505
526	California Juniper	<i>Juniperus californica</i>	15	4	3	3	3	2	2	2,2,2,2,1,1,1,1,1	13	7	15	Fair	Fair	Protected		Preserved	34.4838876	-118.13499
527	California Juniper	<i>Juniperus californica</i>	10	2	2	2	1	1	1	1,1,1,1	7	7	20	Fair	Fair	Protected		Preserved	34.4838687	-118.135
528	California Juniper	<i>Juniperus californica</i>	15	5	4	3	3	3	2	4,3,2,2,2,1,1,1,1	15	10	20	Poor	Fair	Protected		Preserved	34.483814	-118.13491
528	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	5	10	Fair	Fair	Protected		Preserved	34.4839413	-118.13496
529	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	4	7	Poor	Fair	Protected		Preserved	34.4840458	-118.13472
530	California Juniper	<i>Juniperus californica</i>	10	2	2	2	2	2	2	2,2,2,2	8	3	6	Dead	Dead	No - Dead		Preserved	34.4841079	-118.13468
531	California Juniper	<i>Juniperus californica</i>	8	1	1	1	1	1	1	1,1	4	6	6	Good	Fair	Protected		Preserved	34.4840195	-118.1354
532	California Juniper	<i>Juniperus californica</i>	20	3	3	3	3	2	2	2,2,2,2,2,2,1,1,1,1,1,1,1,1	12	15	20	Fair	Fair	Protected		Preserved	34.484067	-118.13542
533	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1			4	5	8	Fair	Fair	Protected		Preserved	34.4840781	-118.13546

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
642	California Juniper	<i>Juniperus californica</i>	7	7	6	6	5	3	3	3	24	8	10	Dead	Dead	No - Dead		Preserved	34.4832336	-118.13352
643	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	6	6	Fair	Fair	Protected		Preserved	34.4812017	-118.13073
644	California Juniper	<i>Juniperus californica</i>	17	12	4	6	4	6	6	3,3,3,3,3,1,1,1,1,1	26	15	25	Fair	Fair	Protected		Preserved	34.4826274	-118.13412
645	California Juniper	<i>Juniperus californica</i>	16	3	2	2	1	1	1	2,2,2,2,1,1,1,1,1,1	8	10	15	Poor	Fair	Protected		Preserved	34.4810721	-118.13085
646	California Juniper	<i>Juniperus californica</i>	15	6	5	5	5	4	4	4,3,2,2,2,1,1,1,1	21	17	30	Fair	Fair	Protected		Preserved	34.4821645	-118.13522
647	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	7	7	Fair	Fair	Protected		Preserved	34.4811031	-118.13077
648	California Juniper	<i>Juniperus californica</i>	25	7	6	6	6	6	5	4,5,5,5,5,4,4,3,3,2,1,1,1,1	25	15	37	Dead	Dead	No - Dead		Preserved	34.4820209	-118.13521
649	California Juniper	<i>Juniperus californica</i>	10	2	2	2	1	1	1	1,1,1,1	7	10	15	Critical	Fair	Protected		Preserved	34.480961	-118.13077
650	California Juniper	<i>Juniperus californica</i>	20	6	7	4	4	4	3	3,3,3,3,2,2,2,2,1,1,1,1,1,1	21	15	25	Good	Fair	Protected		Preserved	34.4817709	-118.1297
651	California Juniper	<i>Juniperus californica</i>	4	4	1	1	1				7	15	20	Dead	Dead	No - Dead		Preserved	34.4809077	-118.13137
652	California Juniper	<i>Juniperus californica</i>	20	5	4	4	4	2	2	2,2,2,2,2,2,2,2,2,2,2,2,2,2,2,2	17	15	25	Poor	Poor	Protected		Preserved	34.4817114	-118.12969
653	California Juniper	<i>Juniperus californica</i>	7	6	1	1	1	1	1	1	9	14	9	Critical	Fair	Protected		Preserved	34.4809356	-118.13079
654	California Juniper	<i>Juniperus californica</i>	20	1	2	2	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	6	10	20	Poor	Poor	Protected		Preserved	34.4817484	-118.12963
655	California Juniper	<i>Juniperus californica</i>	7	1	1	1	1	1	1	1	4	5	7	Fair	Fair	Protected		Preserved	34.4807662	-118.13064
656	California Juniper	<i>Juniperus californica</i>	20	4	4	4	4	4	4	4,4,4,4,4,4,4,4,1,1,1,1,1,1,1,1	16	15	25	Fair	Fair	Protected		Preserved	34.4816889	-118.1295
657	California Juniper	<i>Juniperus californica</i>	18	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1	4	8	13	Critical	Fair	Protected		Preserved	34.4807043	-118.13049
658	California Juniper	<i>Juniperus californica</i>	10	3	2	2	1	1	1	1,1,1,1	8	8	10	Fair	Fair	Protected		Preserved	34.4816495	-118.12953
659	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	8	8	Critical	Fair	Protected		Preserved	34.480716	-118.13034
660	California Juniper	<i>Juniperus californica</i>	25	6	6	6	6	6	6	5,4,4,4,4,2,2,2,2,2,2,1,1,1,1	24	15	25	Poor	Fair	Protected		Preserved	34.4815806	-118.12947
661	California Juniper	<i>Juniperus californica</i>	20	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1	4	8	12	Poor	Fair	Protected		Preserved	34.4807499	-118.13019
662	California Juniper	<i>Juniperus californica</i>	10	7	8	3	5	2	2	2,2,1,1	23	15	25	Fair	Fair	Protected		Preserved	34.4815697	-118.12938
663	California Juniper	<i>Juniperus californica</i>	3	1	1	1					3	5	6	Poor	Fair	Protected		Preserved	34.4808096	-118.13016

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
686	California Juniper	<i>Juniperus californica</i>	2	3	2						5	8	8	Poor	Poor	Protected		Preserved	34.4816149	-118.12967
687	California Juniper	<i>Juniperus californica</i>	9	1	1	1	1	1	1	1,1,1	4	14	16	Critical	Fair	Protected		Preserved	34.4809738	-118.13033
688	California Juniper	<i>Juniperus californica</i>	10	3	6	4	3	2	2	2,2,1,1	16	10	25	Fair	Fair	Protected		Preserved	34.4815982	-118.1297
689	California Juniper	<i>Juniperus californica</i>	17	7	6	5	3	3	3	3,3,3,2,2,2,2,2,1,1,1	21	17	23	Fair	Fair	Protected		Preserved	34.4809156	-118.13029
690	California Juniper	<i>Juniperus californica</i>	12	4	2	3	3	4	4	2,2,2,1,1,1	12	10	15	Poor	Fair	Protected		Preserved	34.4814588	-118.12951
691	California Juniper	<i>Juniperus californica</i>	15	4	3	3	2	2	2	2,2,2,2,1,1,1,1,1	12	16	22	Fair	Fair	Protected		Preserved	34.4809858	-118.13022
692	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1			4	4	5	Good	Fair	Protected		Preserved	34.4815564	-118.12982
693	California Juniper	<i>Juniperus californica</i>	8	2	1	1	1	1	1	1,1	5	10	11	Poor	Fair	Protected		Preserved	34.4808557	-118.13013
694	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	7	9	Critical	Poor	Protected		Preserved	34.4813945	-118.12975
695	California Juniper	<i>Juniperus californica</i>	4	1	1	1	1				4	6	9	Poor	Fair	Protected		Preserved	34.4808543	-118.13011
696	California Juniper	<i>Juniperus californica</i>	20	6	8	8	4	7	5	3,2,2,1,1,1,1,1,1,1,1,1,1,1,1,1	26	15	25	Fair	Fair	Protected		Preserved	34.4813158	-118.12976
697	California Juniper	<i>Juniperus californica</i>	20	3	2	2	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	8	15	20	Poor	Fair	Protected		Preserved	34.4807224	-118.13004
698	California Juniper	<i>Juniperus californica</i>	20	6	6	6	6	4	5	5,4,3,2,2,2,1,1,1,1,1,1,1,1,1,1	24	17	25	Good	Fair	Protected		Preserved	34.4812817	-118.12982
699	California Juniper	<i>Juniperus californica</i>	9	5	5	4	3	3	2	2,2,2	17	13	16	Dead	Dead	No - Dead		Preserved	34.4808933	-118.1317
700	California Juniper	<i>Juniperus californica</i>	2	1	1						2	2	4	Good	Fair	Protected		Preserved	34.4812844	-118.12981
701	California Juniper	<i>Juniperus californica</i>	14	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1	4	9	10	Fair	Fair	Protected		Preserved	34.480902	-118.13131
702	California Juniper	<i>Juniperus californica</i>	4	1	1	1	1				4	3	5	Fair	Fair	Protected		Preserved	34.4812446	-118.12962
703	California Juniper	<i>Juniperus californica</i>	20	3	2	2	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	8	10	20	Critical	Fair	Protected		Preserved	34.4809606	-118.13133
704	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1			4	5	7	Fair	Fair	Protected		Preserved	34.4812454	-118.12961
705	California Juniper	<i>Juniperus californica</i>	18	3	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	6	8	11	Fair	Fair	Protected		Preserved	34.4810005	-118.13128
706	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1	4	8	10	Fair	Fair	Protected		Preserved	34.4811494	-118.12955
707	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	7	8	Poor	Fair	Protected		Preserved	34.4810365	-118.13118

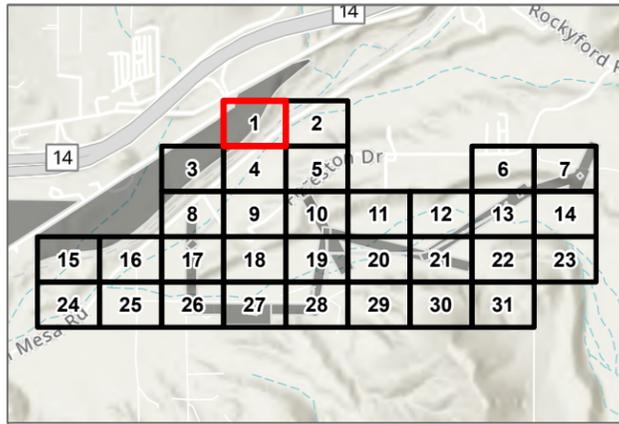
Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
898	California Juniper	<i>Juniperus californica</i>	25	6	5	5	5	5	5	5,5,4,3,3,3,3,3,3,2,2,2,2,2,2,	21	15	35	Good	Fair	Heritage		Preserved	34.4826188	-118.12492
899	California Juniper	<i>Juniperus californica</i>	7	1	1	1	1	1	1	1	4	7	8	Good	Fair	Protected		Preserved	34.4827369	-118.12478
901	California Juniper	<i>Juniperus californica</i>	9	1	1	1	1	1	1	1,1,1	4	6	6	Dead	Dead	No - Dead		Preserved	34.4812072	-118.12885
903	California Juniper	<i>Juniperus californica</i>	15	6	5	5	5	5	5	4,4,3,3,3,3,2,2,2,	21	20	20	Poor	Fair	Protected		Preserved	34.4812352	-118.13111
905	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	7	6	Poor	Fair	Protected		Preserved	34.4810469	-118.131
907	California Juniper	<i>Juniperus californica</i>	18	4	4	4	2	2	2	1,1,1,1,1,1,1,1,1,1,1,1,1,1,	14	15	28	Poor	Fair	Protected		Preserved	34.4811296	-118.13072
909	California Juniper	<i>Juniperus californica</i>	8	4	3	3	2	1	1	1,1	12	10	10	Poor	Fair	Protected		Preserved	34.4809928	-118.13071
911	California Juniper	<i>Juniperus californica</i>	13	3	3	3	3	2	2	1,1,1,1,1,1,1,1,1,	12	12	20	Poor	Fair	Protected		Preserved	34.481317	-118.13093
913	California Juniper	<i>Juniperus californica</i>	3	1	1	1					3	5	3	Fair	Fair	Protected		Preserved	34.4815026	-118.1305
915	California Juniper	<i>Juniperus californica</i>	3	1	1	1					3	5	3	Fair	Fair	Protected		Preserved	34.4815056	-118.1305
917	California Juniper	<i>Juniperus californica</i>	10	5	5	3	3	3	1	1,1,1,1	16	20	26	Poor	Fair	Protected		Preserved	34.4815844	-118.12898
919	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	7	7	Critical	Fair	Protected		Preserved	34.4814698	-118.12886
921	California Juniper	<i>Juniperus californica</i>	16	2	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	5	10	15	Critical	Fair	Protected		Preserved	34.4815937	-118.12893
923	California Juniper	<i>Juniperus californica</i>	17	2	2	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	6	10	21	Critical	Fair	Protected		Preserved	34.4814305	-118.12877
925	California Juniper	<i>Juniperus californica</i>	17	2	2	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	6	10	15	Critical	Fair	Protected		Preserved	34.4814978	-118.12884
925	California Juniper	<i>Juniperus californica</i>	15	2	2	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	6	13	22	Poor	Fair	Protected		Preserved	34.4813704	-118.12886
927	California Juniper	<i>Juniperus californica</i>	10	2	1	1	1	1	1	1,1,1,1	5	8	8	Poor	Fair	Protected		Preserved	34.4816088	-118.1289
929	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	10	10	Poor	Fair	Protected		Preserved	34.4816834	-118.12893
931	California Juniper	<i>Juniperus californica</i>	20	3	2	2	2	2	1	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	9	12	15	Poor	Fair	Protected		Preserved	34.4817197	-118.12875
933	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	4	8	11	Poor	Fair	Protected		Preserved	34.4817121	-118.12872
935	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	4	10	15	Poor	Fair	Protected		Preserved	34.48173	-118.12872
937	California Juniper	<i>Juniperus californica</i>	15	2	2	2	1	1	1	1,1,1,1,1,1,1,1,1,1,1,1,	7	12	16	Poor	Fair	Protected		Preserved	34.4817672	-118.12867

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
1232	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	4	3	Fair	Good	Protected		Preserved	34.479993	-118.13462
1233	California Juniper	<i>Juniperus californica</i>	12	3	2	2	1	1	1	1,1,1,1,1,1	8	10	10	Fair	Fair	Protected		Preserved	34.4800151	-118.13456
1234	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	4	3	Good	Fair	Protected		Preserved	34.4799273	-118.13456
1235	California Juniper	<i>Juniperus californica</i>	12	1	1	1	1	1	1	1,1,1,1,1,1	4	5	8	Fair	Poor	Protected		Preserved	34.4798896	-118.13443
1236	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	6	8	Fair	Fair	Protected		Preserved	34.479921	-118.13436
1237	California Juniper	<i>Juniperus californica</i>	1	11							11	3	0	Dead	Dead	No - Dead		Preserved	34.4799289	-118.13435
1238	California Juniper	<i>Juniperus californica</i>	12	2	1	1	1	1	1	1,1,1,1,1,1	5	10	10	Good	Fair	Protected		Preserved	34.4799811	-118.13428
1239	California Juniper	<i>Juniperus californica</i>	5	1	1	1	1	1			4	5	3	Good	Fair	Protected		Preserved	34.4797696	-118.13425
1240	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	8	12	Fair	Fair	Protected		Preserved	34.4799537	-118.13405
1241	California Juniper	<i>Juniperus californica</i>	8	5	4	4	3	3	3	3,2	16	7	10	Fair	Fair	Protected		Preserved	34.47985	-118.13389
1242	California Juniper	<i>Juniperus californica</i>	7	5	4	4	4	3	2	2	17	10	10	Poor	Fair	Protected		Preserved	34.4798448	-118.13384
1243	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	7	6	Critical	Poor	Protected		Preserved	34.4798381	-118.13377
1244	California Juniper	<i>Juniperus californica</i>	8	1	1	1	1	1	1	1,1	4	5	6	Poor	Fair	Protected		Preserved	34.4799208	-118.13377
1245	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	6	5	Fair	Fair	Protected		Preserved	34.4799491	-118.13378
1246	California Juniper	<i>Juniperus californica</i>	1	12							12	3	0	Dead	Dead	No - Dead		Preserved	34.4799173	-118.13383
1247	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	5	6	Fair	Fair	Protected		Preserved	34.4797978	-118.13365
1248	California Juniper	<i>Juniperus californica</i>	15	1	1	1	1	1	1	1,1,1,1,1,1,1,1,1,1	4	6	6	Fair	Fair	Protected		Preserved	34.4797874	-118.13336
1249	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	6	5	Fair	Fair	Protected		Preserved	34.4798008	-118.13339
1250	California Juniper	<i>Juniperus californica</i>	8	1	1	1	1	1	1	1,1	4	7	4	Fair	Fair	Protected		Preserved	34.4798844	-118.13343
1251	California Juniper	<i>Juniperus californica</i>	12	2	2	2	1	1	1	1,1,1,1,1,1	7	8	12	Good	Fair	Protected		Preserved	34.4799128	-118.13335
1252	California Juniper	<i>Juniperus californica</i>	9	4	4	3	3	3	3	2,2,2	14	10	10	Dead	Dead	No - Dead		Preserved	34.4799824	-118.13325
1253	California Juniper	<i>Juniperus californica</i>	12	3	2	2	2	1	1	1,1,1,1,1,1	9	10	12	Fair	Fair	Protected		Preserved	34.4798738	-118.13311

Tree No.	Common Name	Botanical Name	No. of Stems	Individual Stem Diameters (in.)						Additional Stem Diameters (in.)	Cumulative Diameter (in.)	Height (ft.)	Crown Width (ft.)	Health	Structural Integrity	Protected Status	Impact Percent	Impact Status	Latitude	Longitude
				D1	D2	D3	D4	D5	D6											
1254	California Juniper	<i>Juniperus californica</i>	13	5	4	4	4	4	3	3,2,2,2,2,1,1	17	12	15	Fair	Fair	Protected	24	Encroachment	34.4801472	-118.13275
1255	California Juniper	<i>Juniperus californica</i>	12	3	2	2	2	2	1	1,1,1,1,1,1	9	10	13	Fair	Fair	Protected		Preserved	34.4802336	-118.13201
1256	California Juniper	<i>Juniperus californica</i>	5	6	5	5	4	3			20	12	15	Critical	Poor	Protected		Preserved	34.480297	-118.13196
1257	California Juniper	<i>Juniperus californica</i>	10	3	2	2	2	2	2	2,2,2,2	9	10	10	Fair	Fair	Protected		Preserved	34.4803554	-118.13189
1258	California Juniper	<i>Juniperus californica</i>	4	4	3	3	3				13	8	8	Critical	Poor	Protected		Preserved	34.4804982	-118.13185
1259	California Juniper	<i>Juniperus californica</i>	8	7	7	6	6	5	4	4,3	26	10	15	Critical	Fair	Protected		Preserved	34.4805024	-118.13189
1260	California Juniper	<i>Juniperus californica</i>	2	6	4						10	12	8	Dead	Dead	No - Dead		Preserved	34.4805193	-118.13187
1261	California Juniper	<i>Juniperus californica</i>	12	2	2	1	1	1	1	1,1,1,1,1,1	6	10	10	Fair	Fair	Protected		Preserved	34.4805859	-118.13197
1262	California Juniper	<i>Juniperus californica</i>	2	14	13						27	8	15	Fair	Critical	Protected		Preserved	34.4806384	-118.13227
1263	California Juniper	<i>Juniperus californica</i>	2	9	8						17	12	10	Poor	Fair	Protected		Preserved	34.4805199	-118.13222
1264	California Juniper	<i>Juniperus californica</i>	8	1	1	1	1	1	1	1,1	4	6	6	Good	Good	Protected		Preserved	34.4804856	-118.13201
1265	California Juniper	<i>Juniperus californica</i>	6	1	1	1	1	1	1		4	5	4	Fair	Fair	Protected		Preserved	34.4804415	-118.13196
1266	California Juniper	<i>Juniperus californica</i>	6	3	3	3	2	2	2		11	12	12	Critical	Poor	Protected		Preserved	34.4804293	-118.1321
1267	California Juniper	<i>Juniperus californica</i>	8	1	1	1	1	1	1	1,1	4	8	8	Fair	Fair	Protected		Preserved	34.4803313	-118.13206
1268	California Juniper	<i>Juniperus californica</i>	10	1	1	1	1	1	1	1,1,1,1	4	6	5	Good	Fair	Protected		Preserved	34.480295	-118.13206
1269	California Juniper	<i>Juniperus californica</i>	12	6	6	4	4	3	3	3,3,3,2,2,2	20	15	18	Fair	Fair	Protected	100	Removal	34.4806544	-118.1326
1270	California Juniper	<i>Juniperus californica</i>	7	7	7	7	6	6	5	4	27	12	18	Fair	Fair	Protected	100	Removal	34.4805174	-118.13346
1271	California Juniper	<i>Juniperus californica</i>	10	3	3	3	3	2	2	2,2,2,2	12	15	10	Fair	Fair	Protected	100	Removal	34.4804357	-118.13396
1272	California Juniper	<i>Juniperus californica</i>	15	6	5	5	4	4	4	4,4,4,4,3,3,2,2	20	15	20	Good	Fair	Protected	100	Removal	34.4804745	-118.13473

Appendix D

Potential Tree Impacts



Juniper Tree Potential Impacts

🏠 Preserved

Project Components

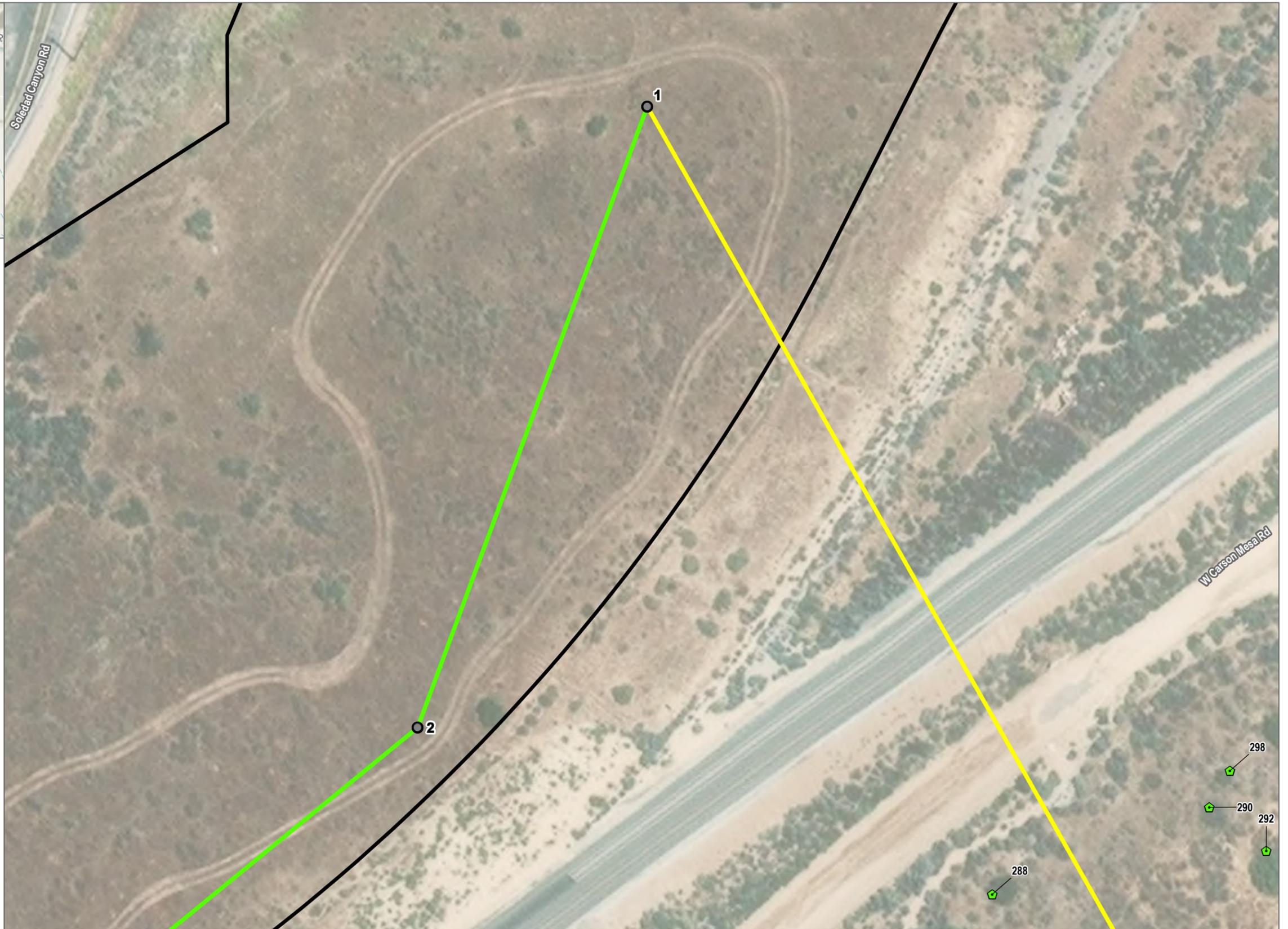
▭ Proposed BESS Facility Site

● Transmission Pole

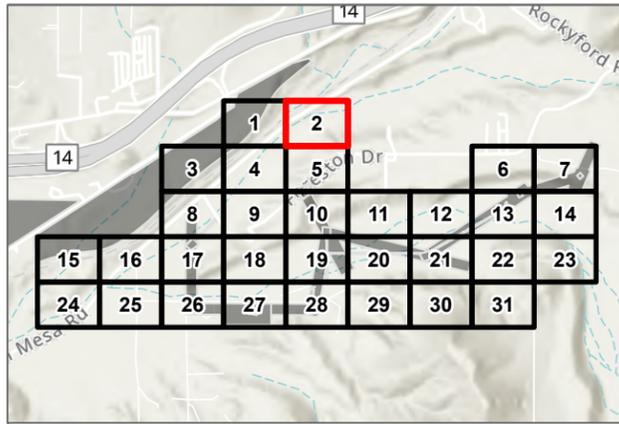
Gen-Tie Route Options

🟢 Overhead Southern Gen-Tie Route Option

🟡 Overhead Northern Gen-Tie Route Option



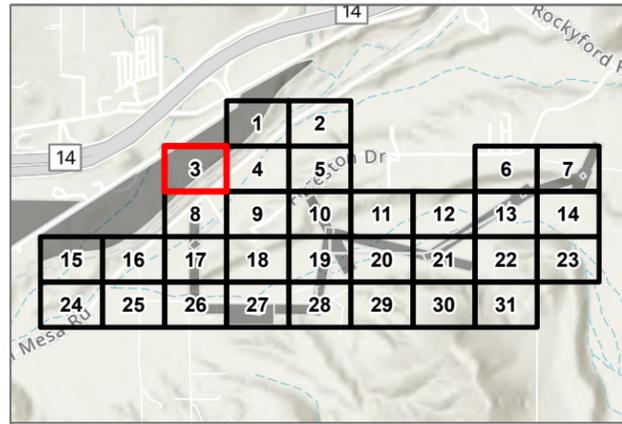
SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts
 Preserved



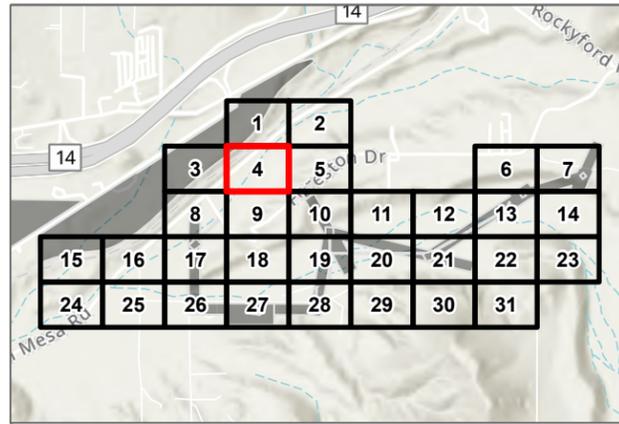
SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



- Juniper Tree Potential Impacts**
- Preserved
- Project Components**
- Proposed BESS Facility Site
 - Transmission Pole
- Fiber Optic Routes**
- Underground Fiber Optic Route
- Gen-Tie Route Options**
- Overhead Southern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

Project Components

▭ Proposed BESS Facility Site

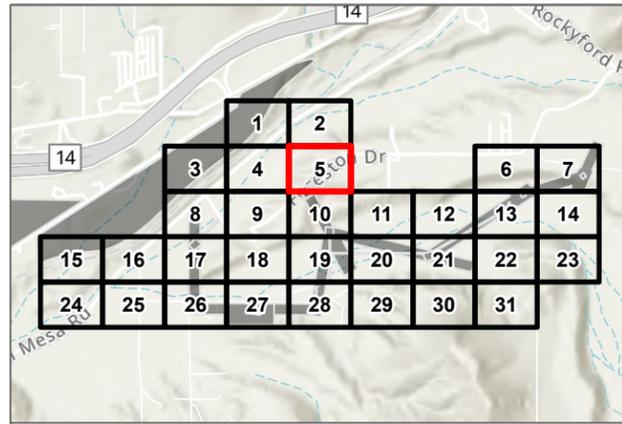
Gen-Tie Route Options

🟩 Overhead Southern Gen-Tie Route Option

🟡 Overhead Northern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

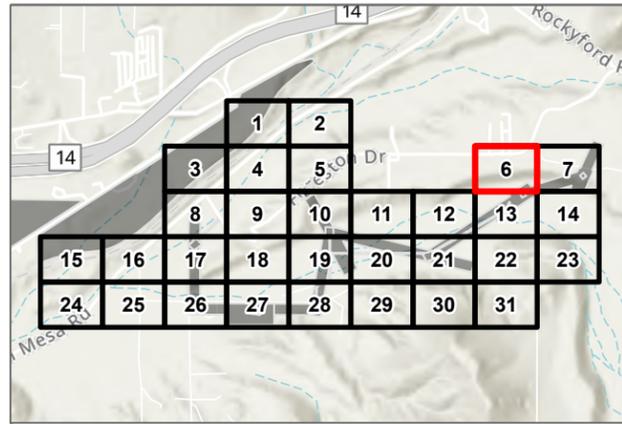
- Gen-Tie Work Area
- Pole Pad and Access Roads Area

Gen-Tie Route Options

- Overhead Northern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

🔴 Removal

Project Components

■ Gen-Tie Work Area

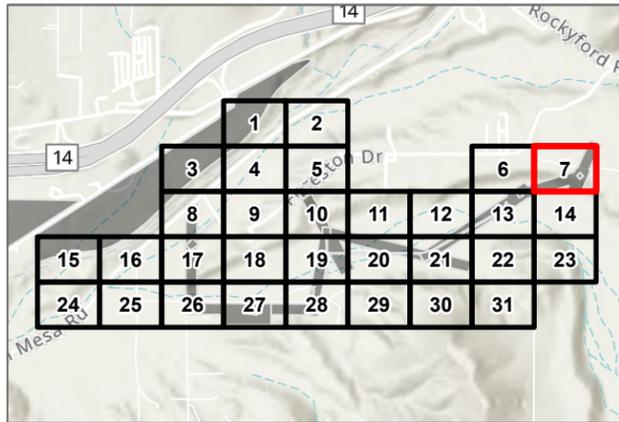
■ Pole Pad and Access Roads Area

Gen-Tie Routes

— Overhead Gen-Tie Route (SCE)



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

Project Components

■ Gen-Tie Work Area

■ Pole Pad and Access Roads Area

○ Transmission Pole (SCE)

Fiber Optic Routes

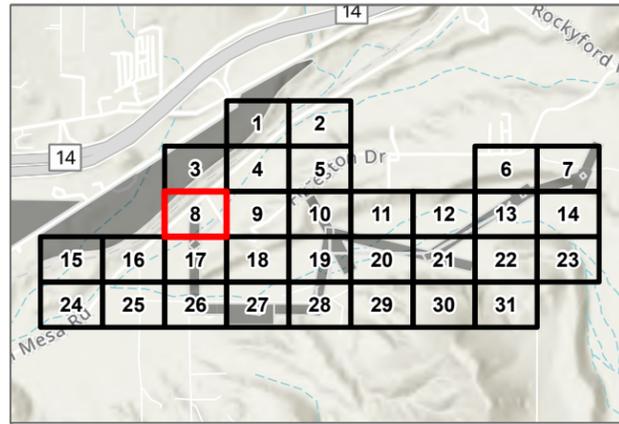
--- Underground Fiber Optic Route (SCE)

Gen-Tie Routes

— Overhead Gen-Tie Route (SCE)



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- ◆ Preserved
- ◆ Encroachment
- ◆ Removal

Project Components

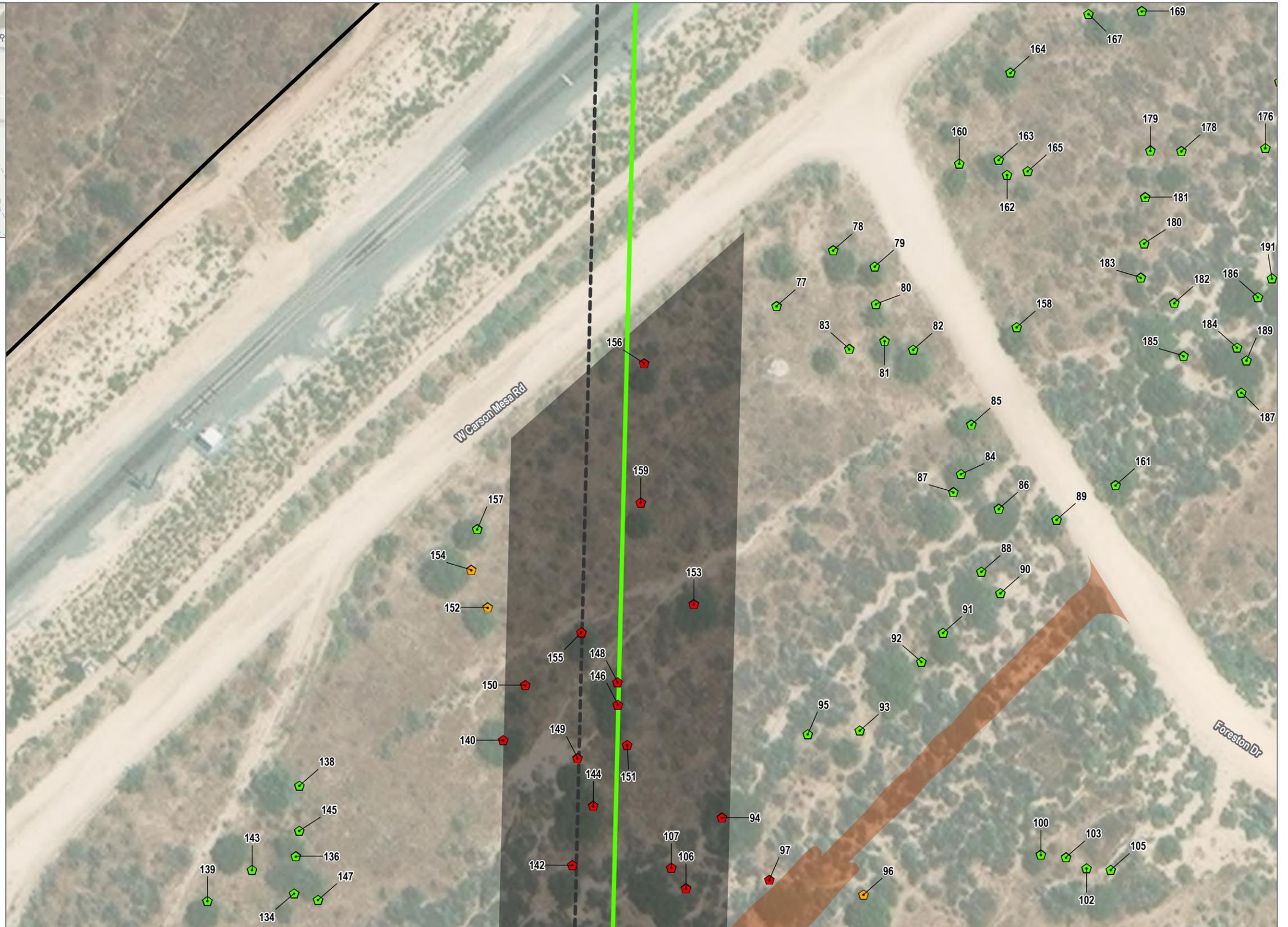
- Proposed BESS Facility Site
- Gen-Tie Work Area
- Pole Pad and Access Roads Area

Fiber Optic Routes

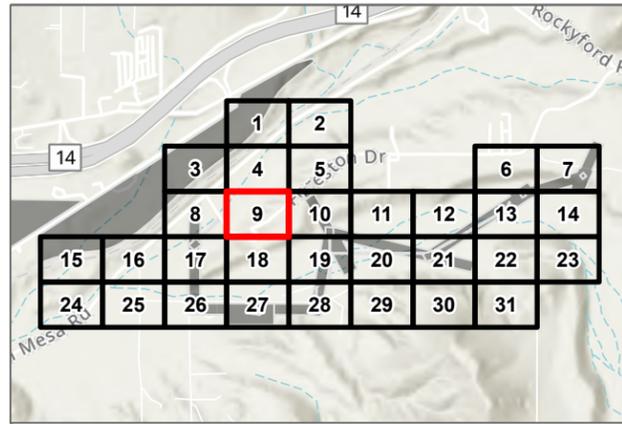
- Underground Fiber Optic Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option



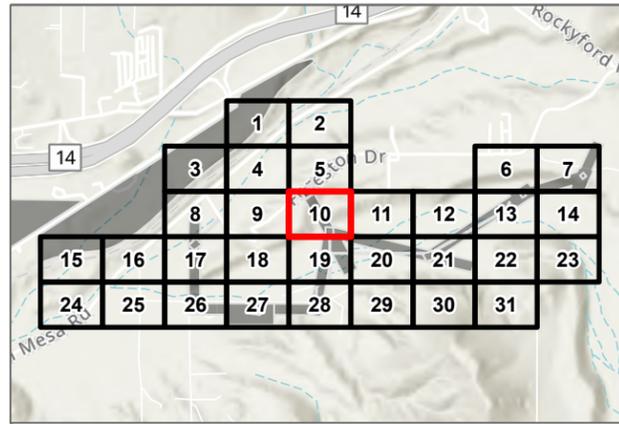
SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts
 🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

- Gen-Tie Work Area
- Pole Pad and Access Roads Area
- Transmission Pole

Fiber Optic Routes

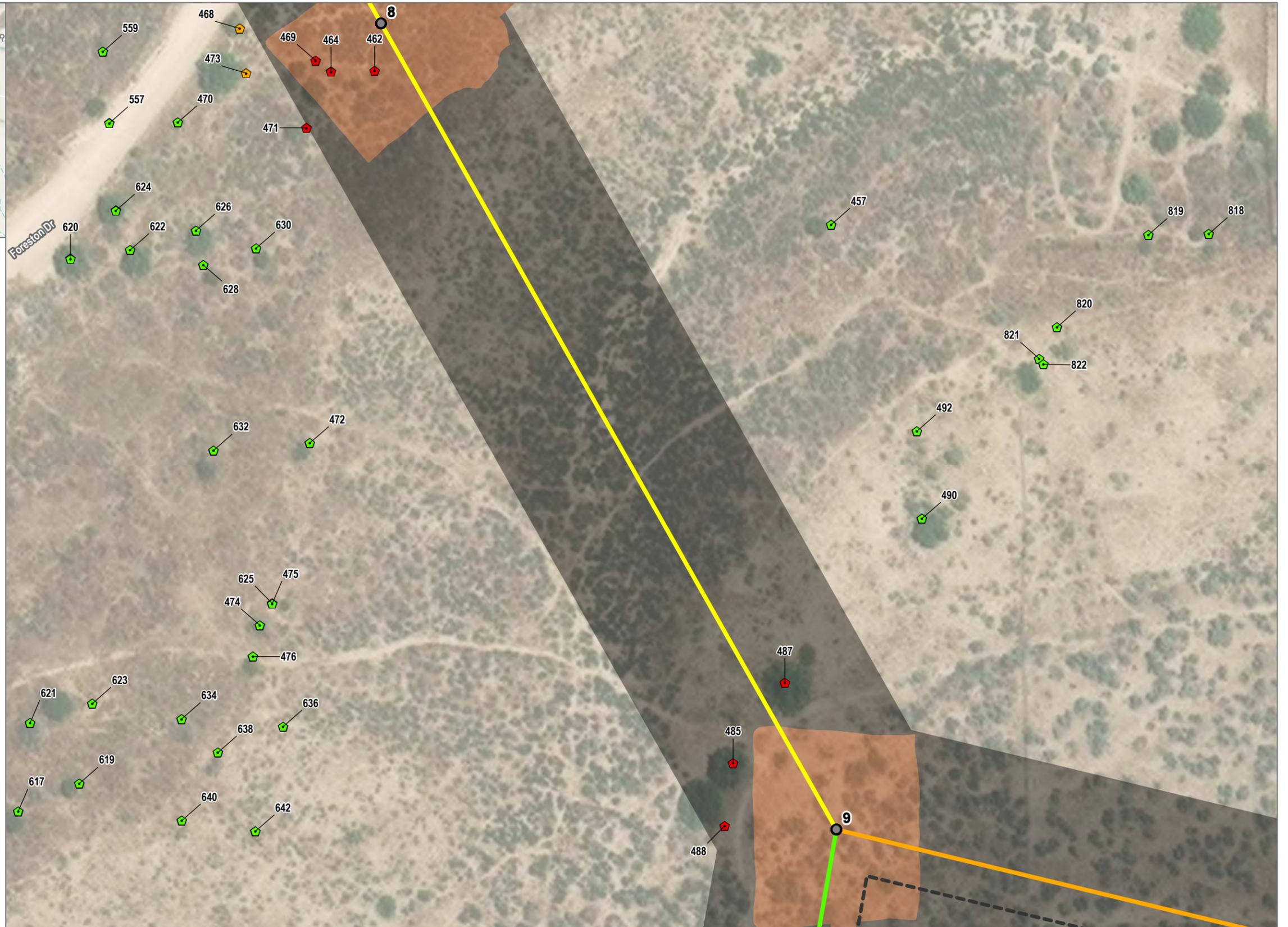
- Underground Fiber Optic Route

Gen-Tie Routes

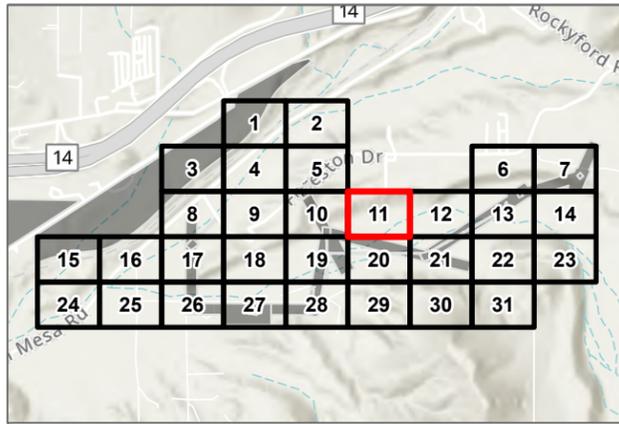
- Overhead Gen-Tie Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option
- Overhead Northern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

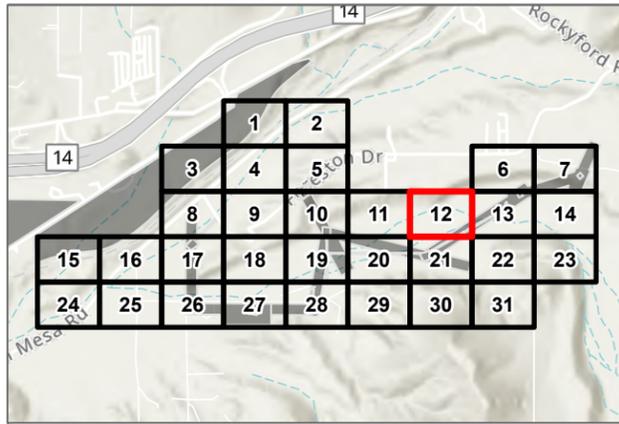
- Preserved
- Encroachment

Project Components

- Gen-Tie Work Area



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🏠 Preserved

Project Components

■ Gen-Tie Work Area

■ Pole Pad and Access Roads Area

Fiber Optic Routes

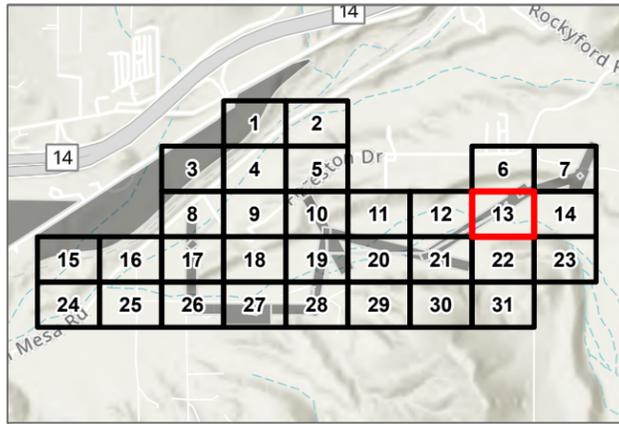
— Underground Fiber Optic Route (SCE)

Gen-Tie Routes

— Overhead Gen-Tie Route (SCE)



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

🔴 Removal

Project Components

■ Gen-Tie Work Area

■ Pole Pad and Access Roads Area

○ Transmission Pole (SCE)

Fiber Optic Routes

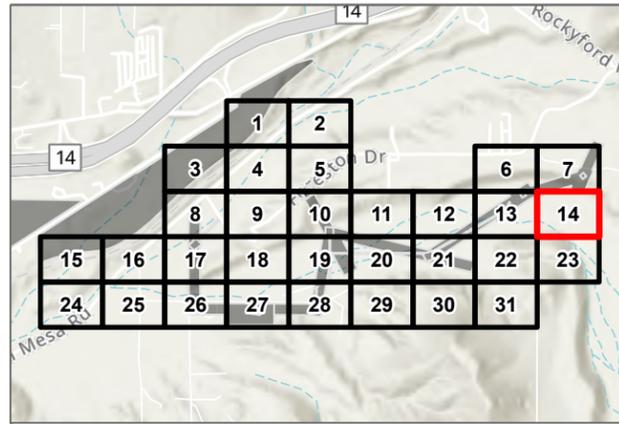
--- Underground Fiber Optic Route (SCE)

Gen-Tie Routes

— Overhead Gen-Tie Route (SCE)



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

Project Components

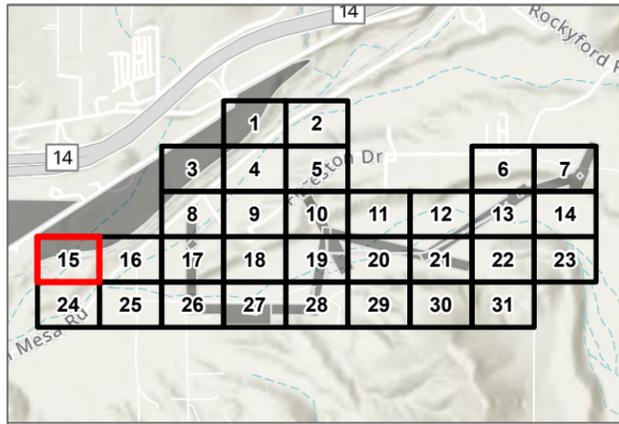
■ Gen-Tie Work Area

Fiber Optic Routes

— Underground Fiber Optic Route (SCE)



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

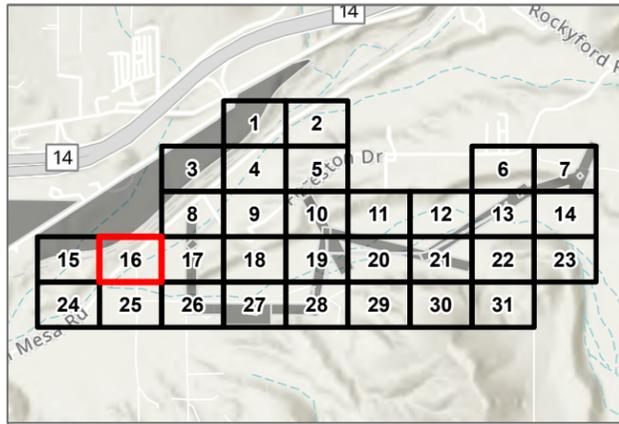
🟩 Preserved

Project Components

▭ Proposed BESS Facility Site



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

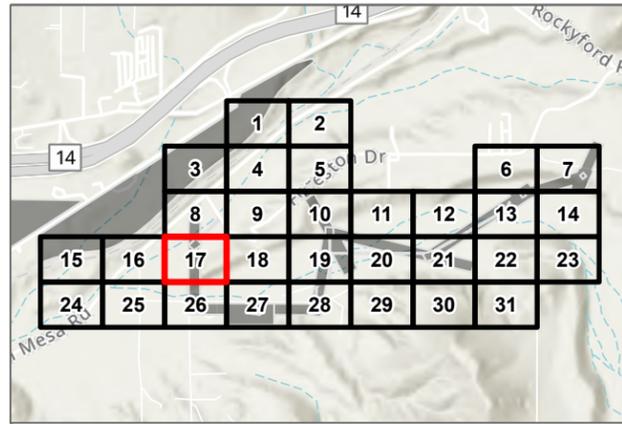
Preserved

Project Components

Proposed BESS Facility Site



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

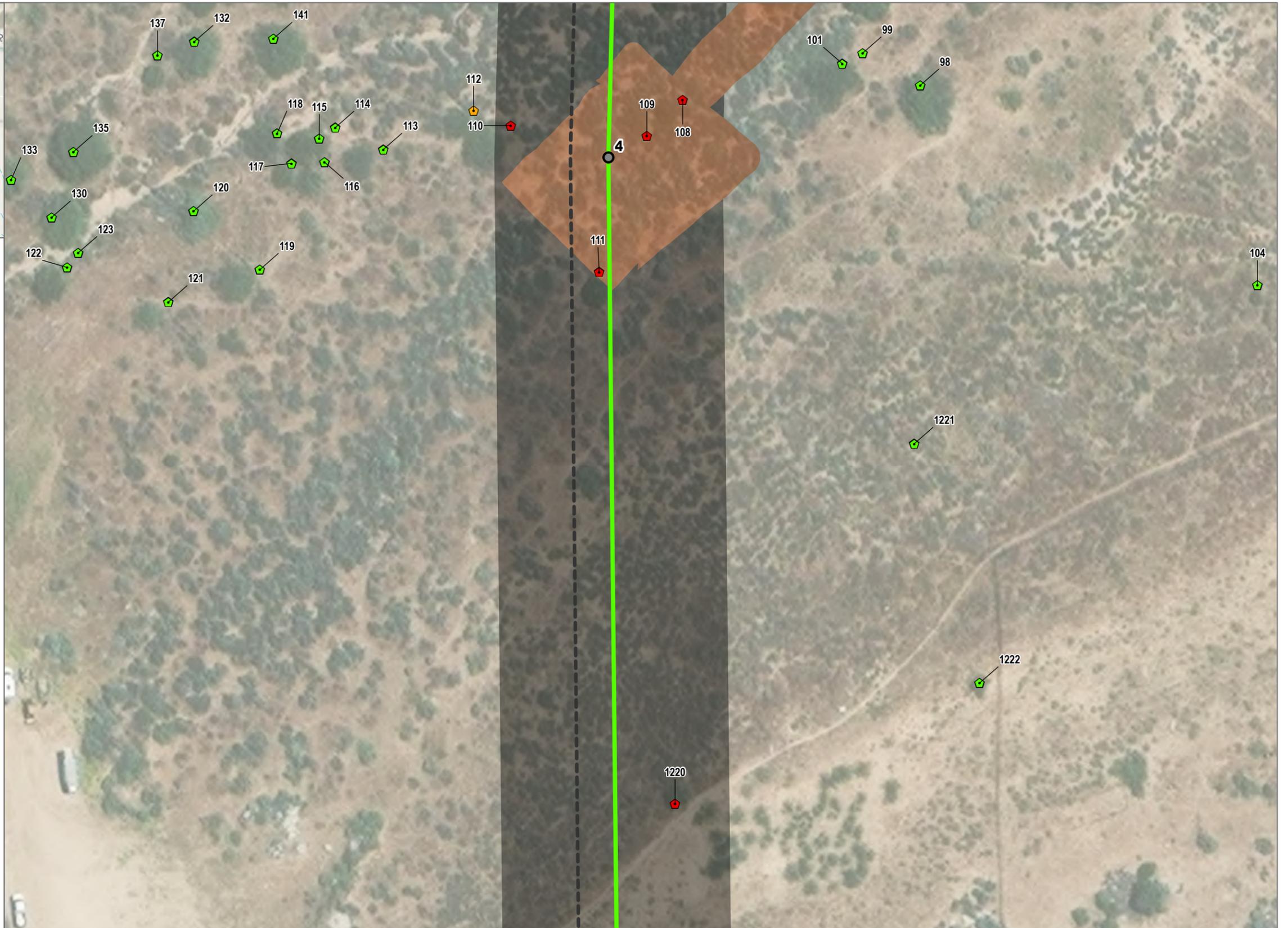
- Gen-Tie Work Area
- Pole Pad and Access Roads Area
- Transmission Pole

Fiber Optic Routes

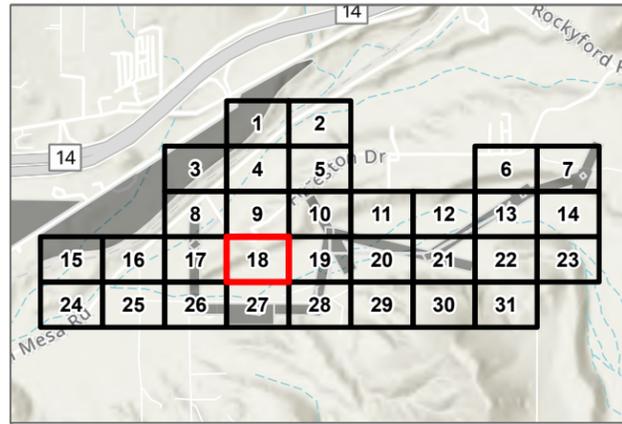
- Underground Fiber Optic Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option

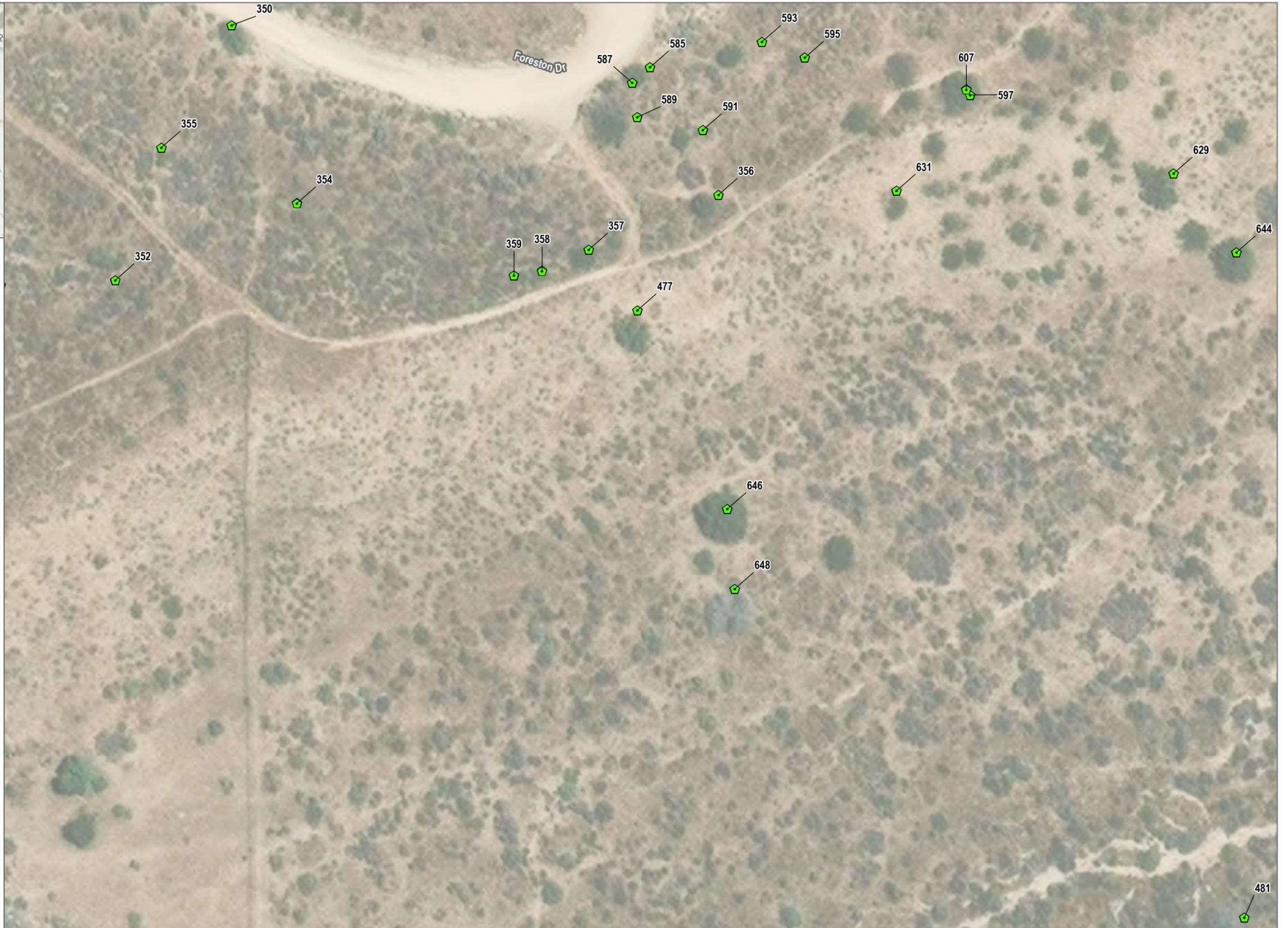


SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

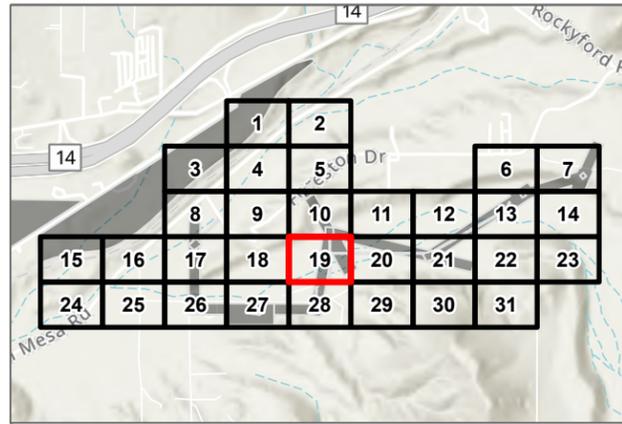


Juniper Tree Potential Impacts

🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

- Gen-Tie Work Area
- Pole Pad and Access Roads Area

Fiber Optic Routes

- Underground Fiber Optic Route

Gen-Tie Routes

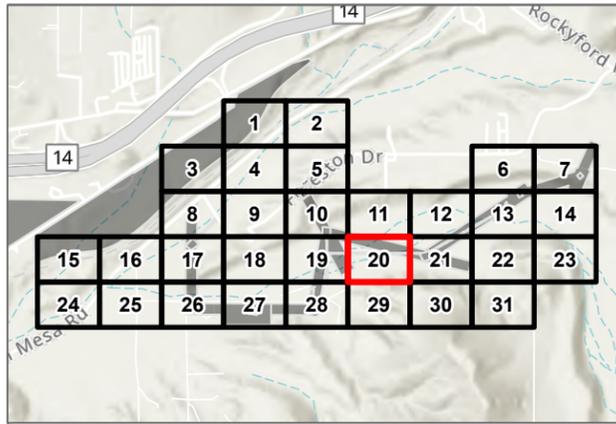
- Overhead Gen-Tie Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Removal

Project Components

- Gen-Tie Work Area
- Pole Pad and Access Roads Area

Fiber Optic Routes

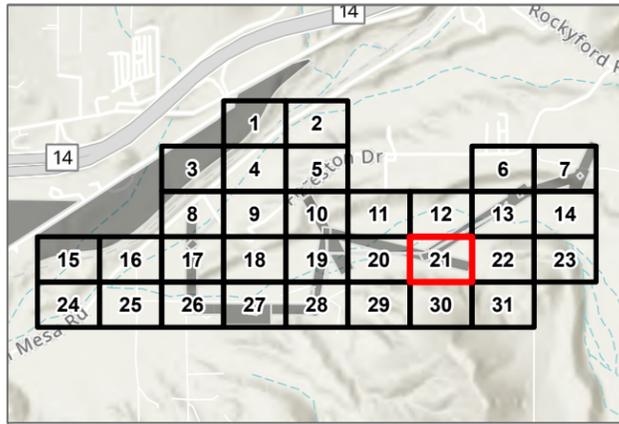
- Underground Fiber Optic Route

Gen-Tie Routes

- Overhead Gen-Tie Route



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

- Gen-Tie Work Area
- Pole Pad and Access Roads Area
- Transmission Pole

Fiber Optic Routes

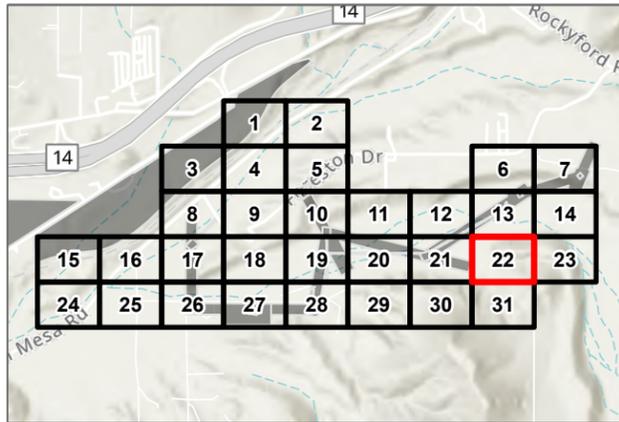
- Underground Fiber Optic Route (SCE)
- Underground Fiber Optic Route

Gen-Tie Routes

- Overhead Gen-Tie Route (SCE)
- Overhead Gen-Tie Route



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

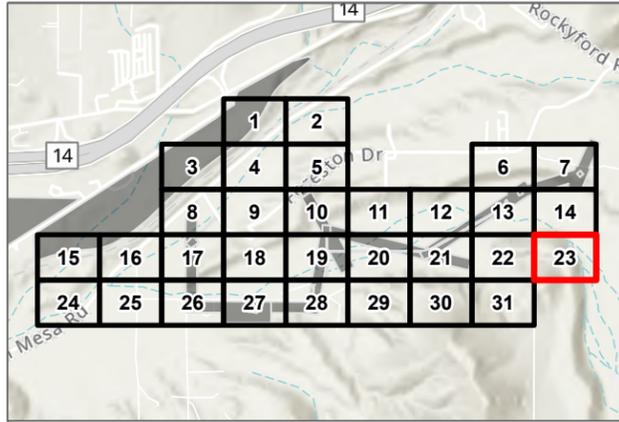


Juniper Tree Potential Impacts

🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

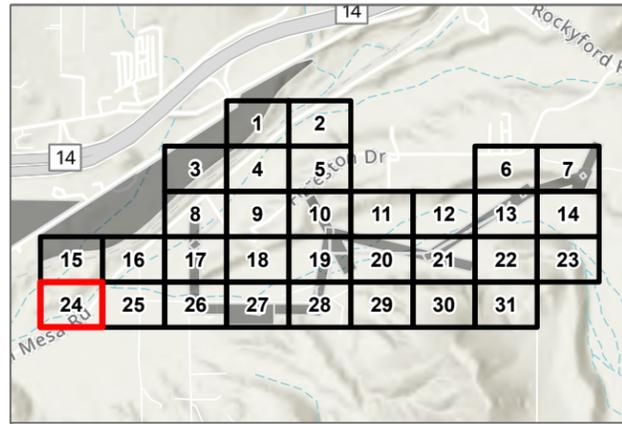


Juniper Tree Potential Impacts

🟩 Preserved

Date: 10/9/2025 User: jprentiss Path: Z:\Projects\13594\09\MAPDOC\09\Map\Appendix D Potential Tree Impacts Layout Appendix D Potential Tree Impacts

SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

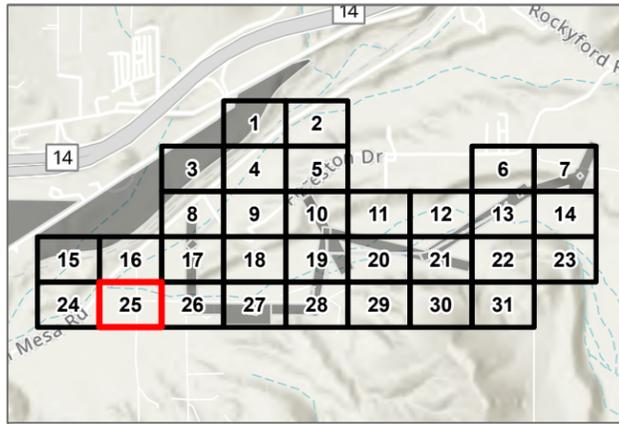


Juniper Tree Potential Impacts

🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

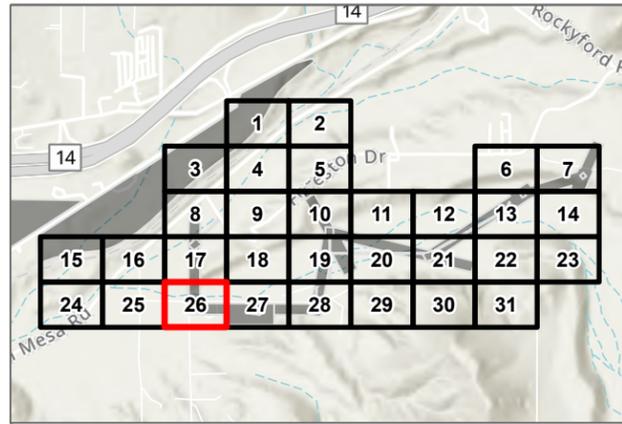


Juniper Tree Potential Impacts

🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Removal

Project Components

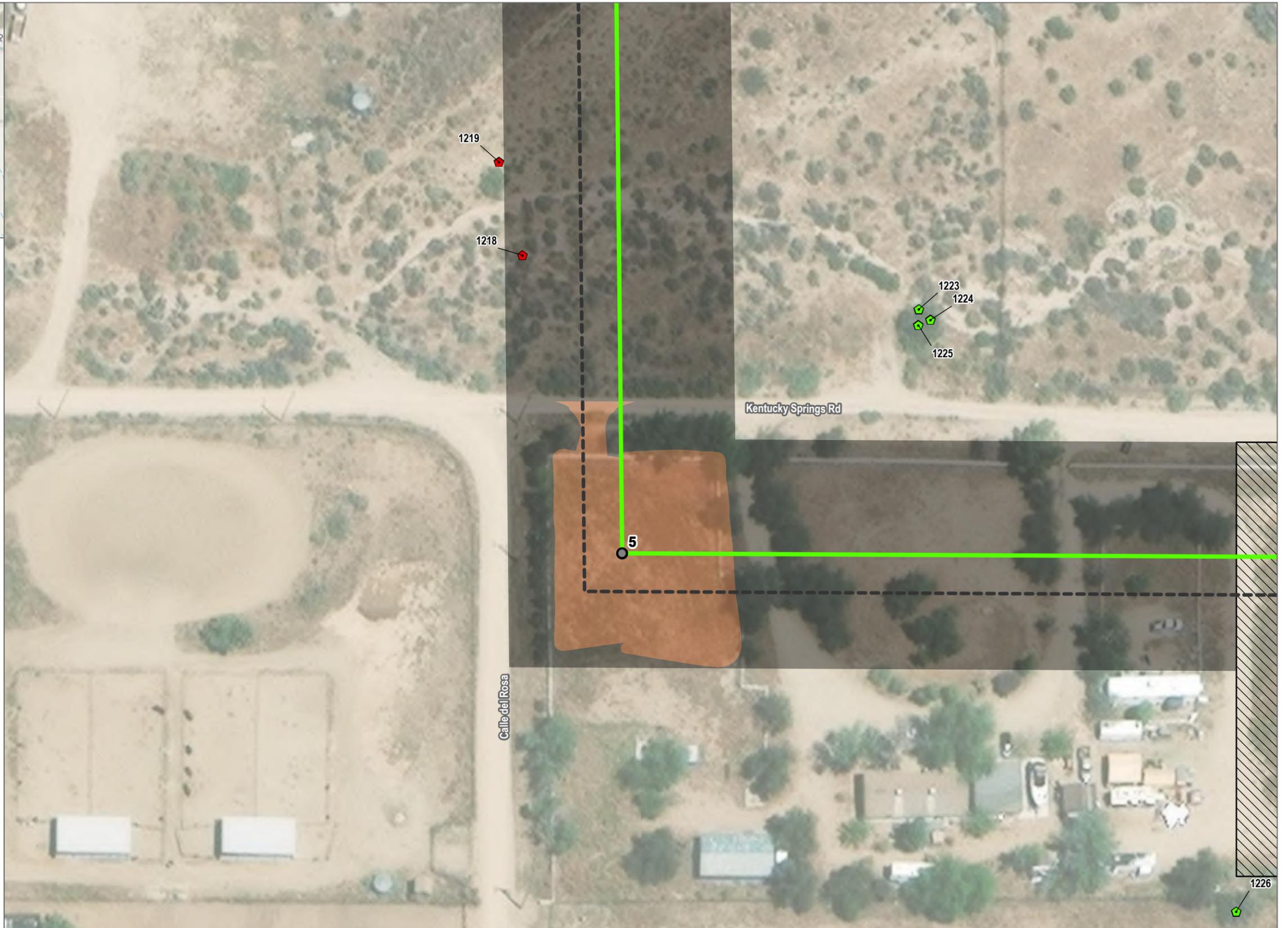
- Construction Laydown Area
- Gen-Tie Work Area
- Pole Pad and Access Roads Area
- Transmission Pole

Fiber Optic Routes

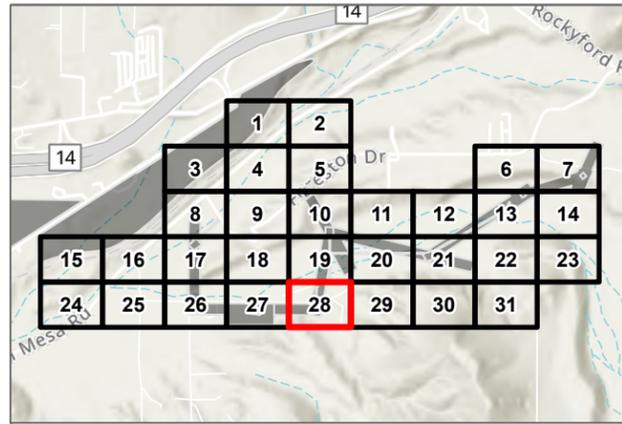
- Underground Fiber Optic Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

- Preserved
- Encroachment
- Removal

Project Components

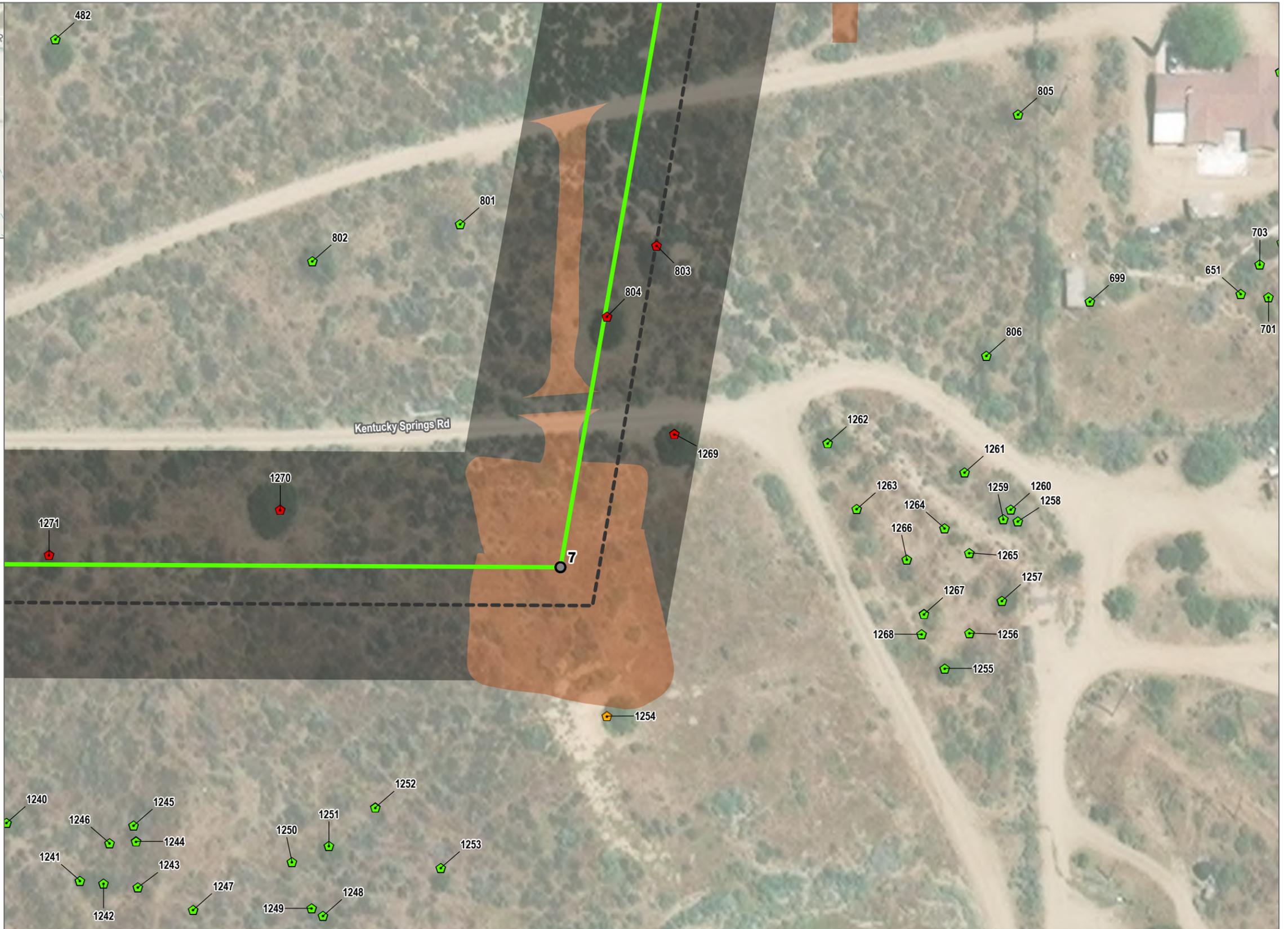
- Gen-Tie Work Area
- Pole Pad and Access Roads Area
- Transmission Pole

Fiber Optic Routes

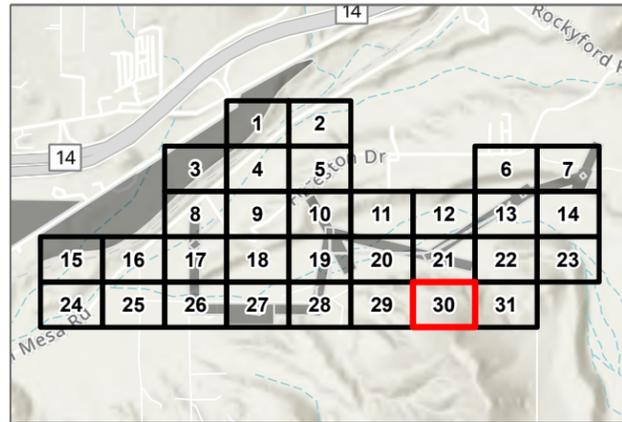
- Underground Fiber Optic Route

Gen-Tie Route Options

- Overhead Southern Gen-Tie Route Option



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

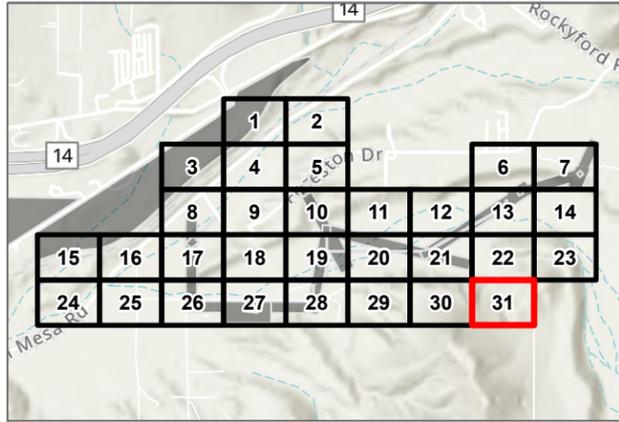


Juniper Tree Potential Impacts

🟩 Preserved



SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024



Juniper Tree Potential Impacts

🟩 Preserved

Date: 10/9/2025 User: jprentiss Path: Z:\Projects\113594\09\MAPDOC\09\Map\Appendix D Potential Tree Impacts Layout Appendix D Potential Tree Impacts

SOURCE: Maxar 2024; Open Street Map 2024; Sargent & Lundy 2024

Appendix E

Tree Protection Measures

Tree Protection Measures

The following tree protection measures are provided as general guidelines for tree protection from construction impacts. The measures presented should be monitored by arborists and enforced by contractors and developers for maximum benefit to the trees.

Tree Protection Measures Prior to Construction

Prior to any construction activity (drainage, demolition, material removal or delivery), oak and landmark trees with canopies that fall within 30 feet of construction activity shall be protected by fencing and signage. All contractors shall be made aware of the tree protection measures. A project arborist shall be assigned to monitor tree health and construction activity near retained trees on site. The project arborist shall be an International Society of Arboriculture (ISA) Certified Arborist.

Fencing. A 6-foot high, chain link fence with tree protection signs shall be erected around all trees (or tree groups) with canopies that fall within 30 feet of construction activity. The protective fence should be installed at a distance from the trunk that is equal to the dripline radius plus 5 feet (protected tree zone). For any trees that would be encroached upon by construction activities, fencing shall be placed as far away from trunk of the tree as possible while still allowing the required construction activities to proceed. This fencing will delineate the tree protection zone and prevent unwanted activity in and around the trees in order to reduce soil compaction in the root zones of the trees and other damage from heavy equipment. Fences are to be mounted on two-inch diameter galvanized iron posts, driven into the ground to a depth of at least 2-feet at no more than 10-foot spacing. In areas where fencing is located on paving or concrete that will not be demolished, then the posts may be supported by an appropriate grade level concrete base. Tree protection signs should be attached to every fourth post. The contractor shall maintain the fence to keep it upright, taut, and aligned at all times. Fencing shall be removed only after all construction activities are complete.

Pre-Construction Meeting. A pre-construction meeting shall be held between all contractors and the arborist. The arborist will instruct the contractors on tree protection practices and answer any questions. All equipment operators and spotters, assistants, or those directing operators from the ground, shall provide written acknowledgement of their receiving tree protection training. This training shall include information on the location and marking of protected trees, the necessity of preventing damage, and the discussion of work practices that will accomplish such.

Protection and Maintenance During Construction

Once construction activities have begun, the following measures shall be adhered to:

Avoidance: Signs, ropes, cables, or any other items shall not be attached to any tree.

Equipment Operation and Storage. Operating heavy machinery around the root zones of trees will increase soil compaction, which decreases soil aeration and subsequently reduces water penetration in the soil. All heavy equipment and vehicles shall stay out of the fenced tree protection zone, unless where specifically approved in writing by the City Arborist and under the supervision of an ISA Certified Arborist

Storage and Disposal. Do not store or discard any supply or material, including paint, lumber, concrete overflow, etc. within the fenced tree protection zone. Remove all foreign debris within the fenced tree protection zone; it is important

to leave the duff, mulch, chips, and leaves around the retained trees for water retention and nutrients. Avoid draining or leakage of equipment fluids near retained trees. Fluids such as: gasoline, diesel, oils, hydraulics, brake and transmission fluids, paint, paint thinners, and glycol (anti-freeze) should be disposed of properly. Keep equipment parked outside of the fenced tree protection zone of retained trees to avoid the possibility of leakage of equipment fluids into the soil. The effect of toxic equipment fluids on the retained trees could lead to decline and death.

Moving Construction Materials. Moving Construction Materials: Care will be taken when moving equipment or supplies near the trees, especially overhead. Avoid damaging the tree(s) when transporting or moving construction materials and working around retained trees (even outside of the fenced tree protection zone). Above ground tree parts that could be damaged (e.g., low limbs, trunks) should be flagged with red ribbon. If contact with the tree crown is unavoidable, prune the conflicting branch(es) using ISA or ANSI A300 standards.

Grade Changes. Grade changes, including adding fill, are not permitted within the tree protection zone, without special written authorization and under supervision by a Certified Arborist. Lowering the grade within this area will necessitate cutting main support and feeder roots, jeopardizing the health and structural integrity of the tree(s). Adding soil, even temporarily, on top of the existing grade will compact the soil further, and decrease both water and air availability to the trees' roots.

Root Pruning. Except where specifically approved in writing, all trenching shall be outside of the fenced tree protection zone. Roots primarily extend in a horizontal direction, forming a support base to the tree similar to the base of a wineglass. Where trenching is necessary in areas that contain tree roots, prune the roots using a Dosko root pruner or equivalent. All cuts shall be clean and sharp, to minimize ripping, tearing, and fracturing the root system. The trench shall be made no deeper than necessary.

Trenching. Unless a Tree Permit has been issued for trenching activity within the fenced tree protection zone, all trenching shall be outside of the fenced tree protection zone. Roots primarily extend in a horizontal direction forming a support base to the tree similar to the base of a wineglass. Where trenching is necessary in areas that contain tree roots, prune the roots using a Dosko root pruner or equivalent. All cuts should be clean and sharp, to minimize ripping, tearing, and fracturing of the root system. The trench should be made no deeper than necessary

Irrigation. Trees that have been substantially root pruned (30% or more of their root zone) will require irrigation for the first twelve months. The first irrigation should be within 48 hours of root pruning. They should be deep watered every two to four weeks during the summer and once a month during the winter (adjust accordingly with rainfall). One irrigation cycle should thoroughly soak the root zones of the trees to a depth of 3 feet. The soil should dry out between watering; avoid keeping a consistently wet soil. Designate one person to be responsible for irrigating (deep watering) the trees. Check soil moisture with a soil probe before irrigating. Irrigation is best accomplished by installing a temporary above ground micro-spray system that will distribute water slowly (to avoid runoff) and evenly throughout the fenced tree protection zone **but never soaking the area located within 6-feet of the tree trunk.**

Pruning. Do not prune any of the trees until all construction is completed. This will help protect the tree canopies from damage. All pruning shall be completed under the direction of an ISA Certified Arborist and using ISA guidelines. Only dead wood shall be removed from tree canopies.

Washing. Periodic washing of the foliage is recommended during construction but no more than once every two weeks. Washing should include the upper and lower leaf surfaces and the tree bark. This should continue beyond the construction period at a less frequent rate with a high-powered hose only in the early morning hours. Washing will help control dirt/dust buildup that can lead to mite and insect infestations.

Inspection. An ISA Certified Arborist shall inspect the trees on at least a monthly basis for the duration of construction activity. A summary report documenting observations and management recommendations shall be submitted to the owner following each inspection. Photographs of representative trees are to be included in each report.

Maintenance After Construction

Once construction is complete the tree protection fencing may be removed and the following measures performed to sustain and enhance the vigor of the preserved trees.

Mulch. Provide a 4-inch mulch layer of mulch under the canopy of trees. Mulch shall be clean and organic and provide long-term soil conditioning, soil moisture retention, and soil temperature control.

Pruning. Pruning should only be done to maintain clearance and remove broken, dead or diseased branches. Pruning shall only take place following a recommendation by an ISA Certified Arborist and performed under the supervision of an ISA Certified Arborist. No more than 15% of the canopy shall be removed at any one time. All pruning shall conform to ISA or ANSI A300 standards.

Watering. Retained trees on site shall be watered as they were prior to the commencement of construction activity. Supplemental irrigation may be necessary for twelve months following substantial root pruning.

Watering Adjacent Plant Material. All plants near the trees shall be compatible with water requirements of said trees. Watering regime included in the site's landscape plan shall be developed with consideration for the water needs of retained trees.

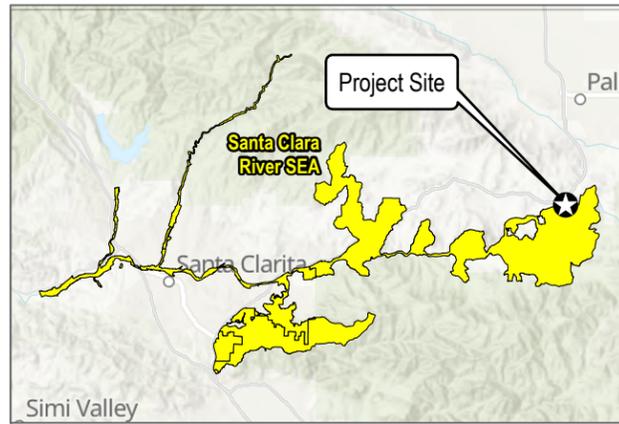
Spraying. If the trees are maintained in a healthy state, regular spraying for insect or disease control should not be necessary. If a problem does develop, an ISA Certified Arborist should be consulted; the trees may require application of insecticides to prevent the intrusion of bark-boring beetles and other invading pests. All chemical spraying should be performed by a licensed applicator under the direction of a licensed pest control advisor.

Inspection. All trees within 30 feet of construction activity shall be monitored by an ISA Certified Arborist for the first two years after construction completion. An annual monitoring report shall be submitted to the City Arborist. Each report shall summarize the inspection efforts, document observations and management actions taken, include photographs of each tree, and compare postconstruction tree conditions with the original, pre-construction baseline condition. If any retained trees die within this inspection period, they shall be replaced at a ratio approved by the City.

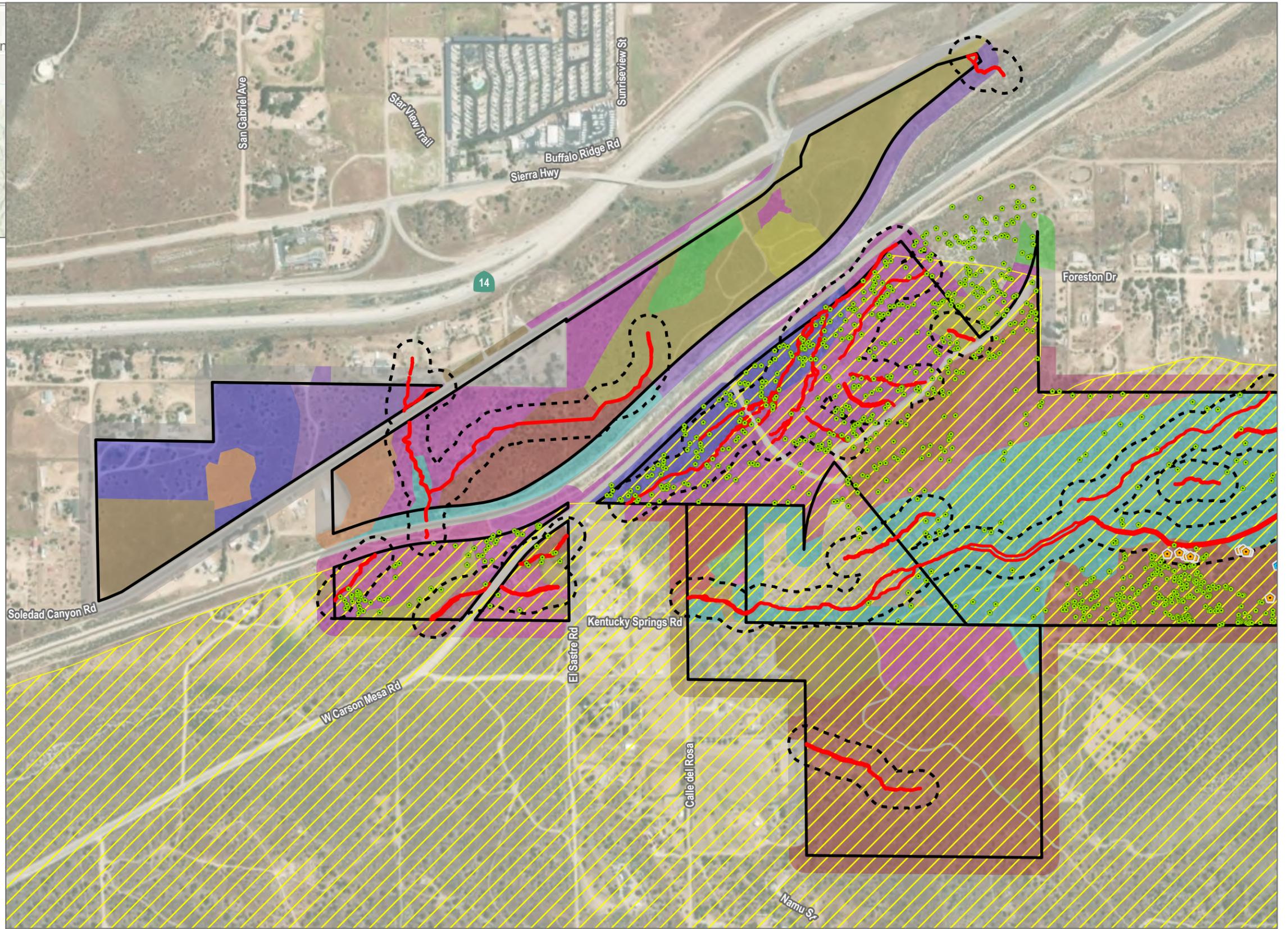
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Appendix B

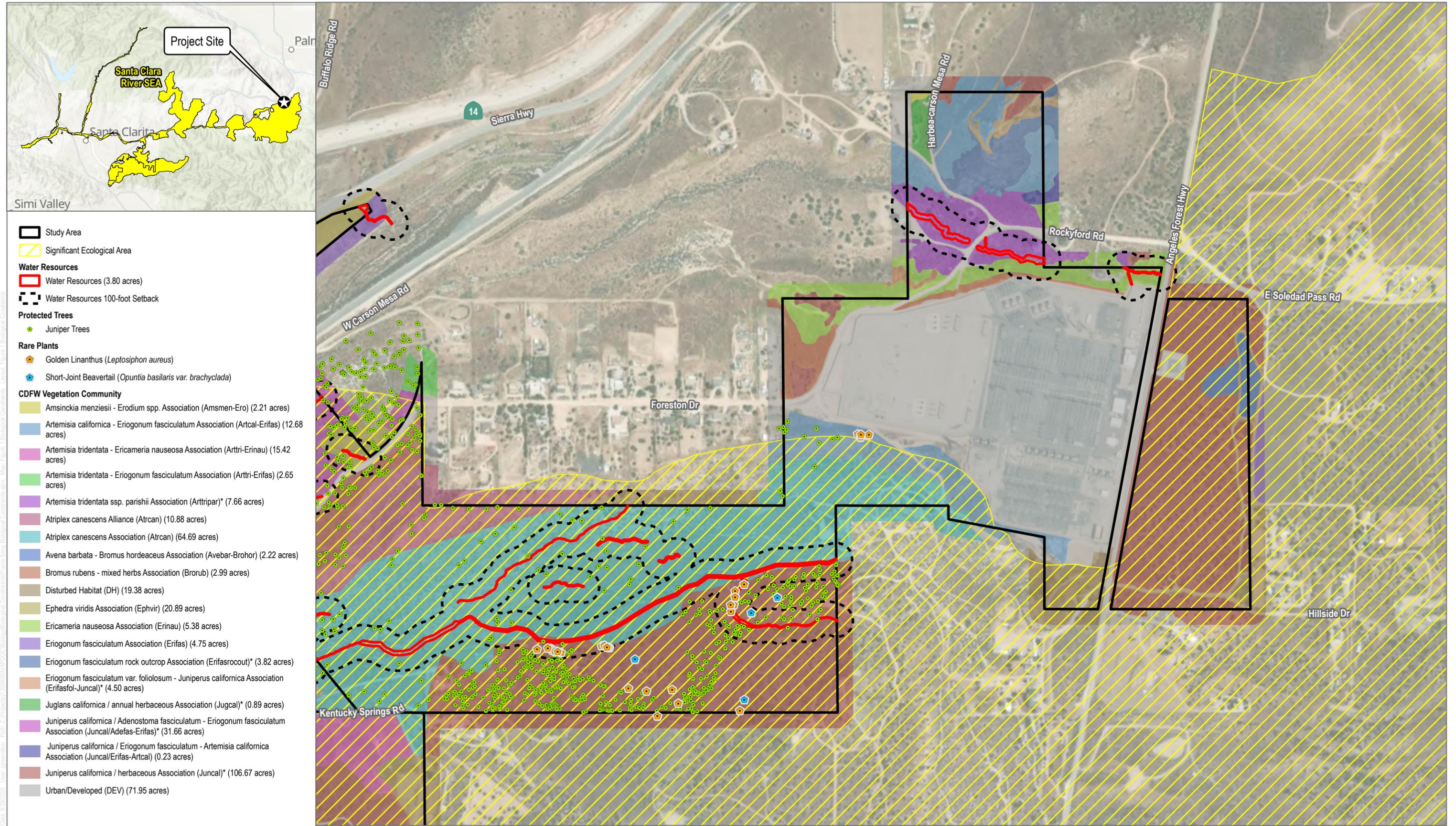
Biological Constraints Map



- Study Area
- Significant Ecological Area
- Water Resources**
- Water Resources (3.80 acres)
- Water Resources 100-foot Setback
- Protected Trees**
- Juniper Trees
- Rare Plants**
- Golden Linanthus (*Leptosiphon aureus*)
- Short-Joint Beavertail (*Opuntia basilaris* var. *brachyclada*)
- CDFW Vegetation Community**
- Ambrosia salsola - Larrea tridentata Association (Amsal-Lartri) (0.82 acres)
- Ambrosia salsola Association (Amsal) (2.60 acres)
- Amsinckia menziesii - Erodium spp. Association (Amsmen-Ero) (2.21 acres)
- Artemisia tridentata - Ericameria nauseosa Association (Artri-Erinau) (15.42 acres)
- Artemisia tridentata - Eriogonum fasciculatum Association (Artri-Erifas) (2.65 acres)
- Artemisia tridentata Association (Artri) (0.48 acres)
- Atriplex canescens Alliance (Atrcan) (10.88 acres)
- Atriplex canescens Association (Atrcan) (64.69 acres)
- Disturbed Habitat (DH) (19.38 acres)
- Ephedra viridis Association (Ephvir) (20.89 acres)
- Ericameria nauseosa - Juniperus californica / herb Association (Erinau-Juncal) (18.49 acres)
- Eriogonum fasciculatum Association (Erifas) (4.75 acres)
- Eriogonum fasciculatum var. foliolosum - Juniperus californica Association (Erifasfol-Juncal)* (4.50 acres)
- Juniperus californica / Adenostoma fasciculatum - Eriogonum fasciculatum Association (Juncal/Adefas-Erifas)* (31.66 acres)
- Juniperus californica / herbaceous Association (Juncal)* (106.67 acres)
- Urban/Developed (DEV) (71.95 acres)



SOURCE: Maxar 2024; Los Angeles County 2025



SOURCE: Maxar 2024; Los Angeles County 2025

Appendix C

Potential to Occur Tables and Compendia

Potential to Occur Tables

Endangered, rare, or threatened plant species as defined in Section 15380(b) of the California Environmental Quality Act Guidelines (CEQA) (14 CCR 15000 et seq.) are referred to as “special-status plant species” and, as used in this document, include (1) plant species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of the California Endangered Species Act (CESA) and the federal Endangered Species Act¹ (FESA); and/or (2) plant species with a California Rare Plant Rank as designated by the California Native Plant Society².

Endangered, rare, or threatened wildlife species as defined in Section 15380(b) of the CEQA Guidelines (14 CCR Section 15380(b)), are referred to as “special-status wildlife species” and, as used in this document, include (1) wildlife species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of CESA and FESA³; (2) California Species of Special Concern as designated by the California Department of Fish and Wildlife⁴; and (3) mammals and birds that are fully protected species as described in the California Fish and Game Code, Sections 4700 and 3511⁵.

The potential for special-status plant species to occur within the Study Area was assessed based on known geographic and elevation ranges as well as habitat and soil conditions that are known to support species occurring in the region. Potential for special-status wildlife species to occur within the Study Area was assessed based on known geographic ranges, the presence/absence of suitable habitat, and other natural history elements that might predict their occurrence. After completion of the reconnaissance surveys, the potential for special-status plant and wildlife species to occur on or near the Project site was summarized according to the following categories:

- Known to occur
- High potential to occur
- Moderate potential to occur
- Low potential to occur
- Not expected to occur

Because not all species are accommodated precisely by a given category (i.e., category definitions may be too restrictive), an expanded rationale for each category assignment is provided:

- Known to occur: the species has been documented on the property by a reliable source.
- High potential to occur: the species has not been documented on the property but is known to recently occur in the vicinity and suitable habitat is present.
- Moderate potential to occur: the species has not been documented on the property or in the vicinity, but the site is within the known range of the species and suitable habitat for the species is present.

¹ CDFW. 2025. State and Federally Listed Endangered, Threatened, and Rare Plants of California. Accessed April 2025. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109390&inline>.

² CNPS. 2025. Inventory of Rare and Endangered Plants (online edition, v8-03). Accessed April 2025. www.rareplants.cnps.org.

³ CDFW. 2025. State and Federally Listed Endangered and Threatened Animals of California. Accessed April 2025. <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109405&inline>.

⁴ CDFW. 2025. Species of Special Concern. Accessed April 2025. <https://www.wildlife.ca.gov/Conservation/SSC>.

⁵ CDFW. 2025h. Fully Protected Animals. Accessed April 2025. https://www.dfg.ca.gov/wildlife/nongame/t_e_spp/fully_pro.html.

- Low potential to occur: the species has not been documented in the vicinity or on the property, but the site is within the known range of the species; however, suitable habitat for the species on site is of low quality.
 - A low potential to occur is also given to species that have suitable habitat present and the site is within the geographic and elevation range of the species, but the species was not observed during surveys that were conducted during the species' blooming period.
- Not expected to occur: the property is outside the known geographic or elevational range of the species and/or the site does not support suitable habitat for the species.

Special-Status Plants

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Acanthoscyphus parishii</i> var. <i>abramsii</i>	Abrams' oxlytheca	None/None/1B.2	Chaparral/annual herb/June–Aug/ 3,750–6,745	Not expected to occur. The Study Area is outside this species current range.
<i>Androsace elongata</i> ssp. <i>acuta</i>	California androsace	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Meadows and seeps, Pinyon and juniper woodland, Valley and foothill grassland/annual herb/ Mar–June/490–4,280	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Anomobryum julaceum</i>	slender silver moss	None/None/4.2	Broadleaved upland forest, Lower montane coniferous forest, North Coast coniferous forest; Roadsides (usually)/moss/N.A./330–3,280	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Aphyllon validum</i> ssp. <i>validum</i>	Rock Creek broomrape	None/None/1B.2	Chaparral, Pinyon and juniper woodland; Granitic/perennial herb (parasitic)/May–Sep/3,380–6,560	Not expected to occur. Suitable micro-habitat (granitic) for the species is not present in the Study Area.
<i>Arctostaphylos glandulosa</i> ssp. <i>gabrielensis</i>	San Gabriel manzanita	None/None/1B.2	Chaparral/perennial evergreen shrub/ Mar/1,950–4,920	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Arctostaphylos parryana</i> ssp. <i>tumescens</i>	interior manzanita	None/None/4.3	Chaparral (montane), Cismontane woodland/perennial evergreen shrub/ Feb–Apr/6,890–7,580	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Asplenium vespertinum</i>	western spleenwort	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub; Rocky/perennial rhizomatous herb/Feb–June/ 590–3,280	Low potential to occur. Suitable habitat for the species is present in the Study Area, but records for the species are from the southern and eastern San Gabriel Mountains.
<i>Astragalus hornii</i> var. <i>hornii</i>	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/ 195–2,785	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Berberis nevinii</i>	Nevin's barberry	FE/SE/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; Gravelly (sometimes), Sandy (sometimes)/ perennial evergreen shrub/ (Feb)Mar-June/230-2,705	Not expected to occur. This conspicuous species was not observed in the Study Area.
<i>Calochortus clavatus</i> var. <i>clavatus</i>	club-haired mariposa lily	None/None/4.3	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Clay, Rocky, Serpentine (usually)/perennial bulbiferous herb/(Mar)May-June/100-4,265	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus clavatus</i> var. <i>gracilis</i>	slender mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/Mar-June (Nov)/1,045-3,280	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus palmeri</i> var. <i>palmeri</i>	Palmer's mariposa-lily	None/None/1B.2	Chaparral, Lower montane coniferous forest, Meadows and seeps; Mesic/perennial bulbiferous herb/Apr-July/2,325-7,840	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Calochortus plummerae</i>	Plummer's mariposa-lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Granitic, Rocky/perennial bulbiferous herb/May-July/330-5,580	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Calochortus striatus</i>	alkali mariposa-lily	None/None/1B.2	Chaparral, Chenopod scrub, Meadows and seeps, Mojavean desert scrub; Alkaline, Mesic/perennial bulbiferous herb/Apr-June/230-5,230	Not expected to occur. Suitable habitat for the species is not present in the Study Area.

Scientific Name	Common Name	Status ¹ (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur ²
<i>Calystegia peirsonii</i>	Peirson's morning-glory	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr-June/ 100-4,920	Low potential to occur. The species was initially assessed as having high potential due to the presence of suitable in the Study Area and recent local records (Calflora 2025); however, the species was not observed during focused rare plant surveys.
<i>Canbya candida</i>	white pygmy-poppy	None/None/4.2	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland; Granitic, Gravelly, Sandy/ annual herb/Mar-June/1,970-4,790	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Castilleja gleasoni</i>	Mt. Gleason paintbrush	None/SR/1B.2	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; Granitic/perennial herb (hemiparasitic)/ May-June (Sep)/3,805-7,115	Not expected to occur. Suitable habitat for the species is present in the Study Area but the Study Area is outside the range of the species.
<i>Castilleja plagiotoma</i>	Mojave paintbrush	None/None/4.3	Great Basin scrub (alluvial), Joshua tree "woodland", Lower montane coniferous forest, Pinyon and juniper woodland/perennial herb (hemiparasitic)/ Apr-June/985-8,205	Low potential to occur. The species was initially assessed as having moderate potential due to the presence of suitable in the Study Area; however, the species was not observed during focused rare plant surveys.
<i>Centromadia parryi</i> ssp. <i>australis</i>	southern tarplant	None/None/1B.1	Marshes and swamps, Valley and foothill grassland, Vernal pools/annual herb/May-Nov/0-1,570	Not expected to occur. Suitable habitat for the species is not present in the Study Area.
<i>Chorizanthe parryi</i> var. <i>fernandina</i>	San Fernando Valley spineflower	None/SE/1B.1	Coastal scrub, Valley and foothill grassland/annual herb/Apr-July/ 490-4,000	Not expected to occur. Marginal habitat is present in the Study Area; however, no recent records along the SR-14.