

ATTACHMENT 5.4-D: SPECIAL-STATUS PLANT SPECIES WITH THE POTENTIAL TO OCCUR

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Common Name (Scientific Name)	Listing Status ¹	Habitat Preferences, Distribution Information, and Additional Notes	Flowering Phenology	Life Form	Potential to Occur in the Survey Area
Alkali milkvetch (<i>Astragalus tener</i> var. <i>tener</i>)	1B.2	This species occurs in alkali playas, valley and foothill grasslands, vernal pools, and wetlands at elevations between 5 and 195 feet (CNPS 2023a).	March to June	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on California Natural Diversity Database (CNDDDB) records (California Department of Fish and Wildlife [CDFW] 2023a). Low Potential
Antioch Dunes buckwheat (<i>Eriogonum nudum</i> var. <i>psychicola</i>)	1B.1	This species occurs in interior dunes habitat at elevations between 0 and 65 feet (CNPS 2023a).	July to October	Perennial herb	This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a) and suitable habitat and conditions for this species are present within the survey area; however, this species was not observed during fully floristic field surveys in May and July 2023. No Potential
Antioch Dunes evening-primrose (<i>Oenothera deltooides</i> ssp. <i>howellii</i>)	FE, SE, 1B.1	This species occurs in interior dunes habitat at elevations between 0 and 100 feet (CNPS 2023a).	March to September	Perennial herb	Suitable habitat and conditions for this species are not present within the survey area, and this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented based on CNDDDB records (CDFW 2023a) within 1 mile of the survey area south of Suisun Bay, in the vicinity of Pacific Gas and Electric Company's existing Pittsburg Substation, but is otherwise found between 1 and 5 miles from the remainder of the survey area. Low Potential
Bearded popcornflower (<i>Plagiobothrys hystriculus</i>)	1B.1	This species occurs in valley and foothill grassland, vernal pool, and wetland habitats at elevations between 0 and 900 feet (CNPS 2023a).	April to May	Annual herb	This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a) and suitable habitat and conditions for this species are present within the survey area; however, this species was not observed during fully floristic field surveys in May and July 2023. Low Potential
Big tarplant (<i>Blepharizonia plumosa</i>)	1B.1	This species occurs in valley and foothill grassland habitat at elevations between 100 and 1,655 feet (CNPS 2023a).	July to October	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Bolander's water hemlock (<i>Cicuta maculata</i> var. <i>bolanderi</i>)	2B.1	This species occurs in marsh and swamp, salt marsh, and wetland habitats at elevations between 0 and 655 feet (CNPS 2023a).	July to September	Perennial herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 0.25 mile of the survey area based on CNDDDB records (CDFW 2023a). High Potential
Brittlescale (<i>Atriplex depressa</i>)	1B.2	This species occurs in alkali playa, chenopod scrub, Meadow and seep, valley and foothill grassland, vernal pool, and wetland habitats at elevations between 5 and 1,050 feet (CNPS 2023a).	April to October	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Carquinez goldenbush (<i>Isocoma arguta</i>)	1B.1	This species occurs in valley and foothill grassland habitat at elevations between 5 and 65 feet (CNPS 2023a).	August to December	Perennial shrub	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential

¹ Explanation of federal and state listing codes:

Federal listing code:
-FE: Federally listed as endangered

State listing code:
-SE: State-listed as endangered

California Native Plant Society (CNPS) California Rare Plant Ranks (CRPRs):
-1A: Presumed extinct in California and rare/extinct elsewhere
-1B: Rare or endangered in California and elsewhere
-2B: Rare, threatened, or endangered in California, but more common elsewhere

CRPR Threat Codes:

-0.1: Seriously threatened in California (over 80 percent of occurrences threatened, high degree and immediacy of threat)
-0.2: Moderately threatened in California (20 to 80 percent of occurrences threatened, moderate degree and immediacy of threat)

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Chaparral ragwort (<i>Senecio aphanactis</i>)	2B.2	This species occurs in chaparral, cismontane woodland, and coastal scrub habitats at elevations between 50 and 2,625 feet (CNPS 2023a).	January to April	Annual herb	This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a); however, suitable habitat and conditions for this species are not present within the survey area; this species was not observed during fully floristic field surveys in May and July 2023. No Potential
Contra Costa goldfields (<i>Lasthenia conjugens</i>)	FE, 1B.1	This species occurs in alkali playa, cismontane woodland, valley and foothill grassland, vernal pool, and wetland habitats at elevations between 0 and 1,540 feet (CNPS 2023a).	March to June	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Contra Costa wallflower (<i>Erysimum capitatum</i> var. <i>angustatum</i>)	FE, SE, 1B.1	This species occurs in interior dunes habitat at elevations between 10 and 65 feet (CNPS 2023b).	March to July	Perennial herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Welsh mudwort (<i>Limosella australis</i>)	2B.1	This species occurs in brackish marsh, freshwater marsh, marsh and swamp, riparian scrub, and wetland habitats at elevations between 0 and 10 feet (CNPS 2023b).	May to August	Perennial stoloniferous herb	Suitable habitat is present within the survey area. Multiple observations of this species were made during fully floristic field surveys. Present
Delta tule pea (<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>)	1B.2	This species occurs in freshwater marsh, marsh and swamp, and wetland habitats at elevations between 0 and 15 feet (CNPS 2023b).	May to July	Perennial herb	Suitable habitat is present within the survey area. Multiple observations of this species were made during fully floristic field surveys. Present
Diablo Helianthella (<i>Helianthella castanea</i>)	1B.2	This species occurs in broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland habitats at elevations between 195 and 4,265 feet (CNPS 2023b).	March to June	Perennial herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Diamond-petaled California poppy (<i>Eschscholzia rhombipetala</i>)	1B.1	This species occurs in valley and foothill grassland habitat at elevations between 0 and 3,200 feet (CNPS 2023b).	March to April	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Dwarf downingia (<i>Downingia pusilla</i>)	2B.2	This species occurs in valley and foothill grassland, vernal pool, and wetland habitats at elevations between 5 and 1,460 feet (CNPS 2023b).	March to May	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Fragrant fritillary (<i>Fritillaria liliacea</i>)	1B.2	This species occurs in cismontane woodland, coastal prairie, coastal scrub, ultramafic, and valley and foothill grassland habitats at elevations between 10 and 1,345 feet (CNPS 2023b).	February to April	Perennial bulbiferous herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 5 miles of the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Hall's bush-mallow (<i>Malacothamnus hallii</i>)	1B.2	This species occurs in chaparral, coastal scrub, and ultramafic habitats at elevations between 35 and 2,495 feet (CNPS 2023b).	May to September	Perennial deciduous shrub	This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a); however, suitable habitat and conditions for this species are not present within the survey area. In addition, this species was not observed during fully floristic field surveys in May and July 2023. No Potential

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Heartscale (<i>Atriplex cordulata</i> var. <i>cordulata</i>)	1B.2	This species occurs in chenopod scrub, meadow and seep, and valley and foothill grassland habitats at elevations between 0 and 1,835 feet (CNPS 2023b).	April to October	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Hoover's cryptantha (<i>Cryptantha hooveri</i>)	1A	This species occurs in interior dunes and valley and foothill grassland habitats at elevations between 30 and 490 feet (CNPS 2023b).	April to May	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Keck's checkerbloom (<i>Sidalcea keckii</i>)	FE, 1B.1	This species occurs in cismontane woodland, ultramafic, and valley and foothill grassland habitats at elevations between 245 and 2,135 feet (CNPS 2023b).	April to June	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Mason's lilaepsis (<i>Lilaeopsis masonii</i>)	1B.1	This species occurs in freshwater marsh, marsh and swamp, riparian scrub, and wetland habitats at elevations between 0 and 35 feet (CNPS 2023b).	April to November	Perennial rhizomatous herb	Suitable habitat is present within the Project area. Multiple observations of this species were made during fully floristic field surveys. Present
Mt. Diablo buckwheat (<i>Eriogonum truncatum</i>)	1B.1	This species occurs in chaparral, coastal scrub, and valley and foothill grassland habitats at elevations between 10 and 1,150 feet (CNPS 2023b).	April to September	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Papoose tarplant (<i>Centromadia parryi</i> ssp. <i>parryi</i>)	1B.2	This species occurs in chaparral, coastal prairie, meadow and seep, marsh and swamp, and valley and foothill grassland habitats at elevations between 0 and 1,380 feet (CNPS 2023b).	May to November	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
San Joaquin spearscale (<i>Extriplex joaquinana</i>)	1B.2	This species occurs in alkali playa, chenopod scrub, meadow and seep, and valley and foothill grassland habitats at elevations between 5 and 2,740 feet (CNPS 2023b).	April to October	Annual herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Showy golden madia (<i>Madia radiata</i>)	1B.1	This species occurs in cismontane woodland and valley and foothill grassland habitats at elevations between 80 and 3,985 feet (CNPS 2023b).	March to May	Annual herb	This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a) and suitable habitat and conditions for this species are present within the survey area; however, this species was not observed during fully floristic field surveys in May and July 2023. No Potential
Soft salty bird's-beak (<i>Chloropyron molle</i> ssp. <i>molle</i>)	FE, 1B.2	This species occurs in marsh and swamp, salt marsh, and wetland habitats at elevations between 0 and 10 feet (CNPS 2023b).	June to November	Annual herb (hemiparasitic)	Suitable habitat and conditions for this species are not present within the survey area, and this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented between 1 and 5 miles from the survey area based on CNDDDB records (CDFW 2023a). Low Potential
Suisun marsh aster (<i>Symphotrichum lentum</i>)	1B.2	This species occurs in brackish marsh, freshwater marsh, marsh and swamp, and wetland habitats at elevations between 0 and 10 feet (CNPS 2023b).	April to November	Perennial rhizomatous herb	Suitable habitat and conditions for this species are present within the survey area, but this species was not observed during fully floristic field surveys in May and July 2023. This species has been documented within 0.25 mile of the survey area based on CNDDDB records (CDFW 2023a). High Potential