

## APPENDIX E

### Appendix E: Sensitive Plant Species That Occur or Potentially Could Occur Within the Project<sup>1</sup>

Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Achnatherum lemmonii</i> var. <i>pubescens</i> pubescent needle grass	--/3/	Chprl, LCFrs/ serpentine	Drum, Shasta	Grazing
<i>Agrostis hendersonii</i> Henderson's bent grass	SOC/3/	VFGrs (mesic) VnPls	DeSabra, Motherlode	Development
<i>Allium jepsonii</i> Jepson's onion	SOC/1B/FSS, BLMS	CmWld, LCFrs/ serpentine or volcanic	DeSabra, Motherlode	Logging and road construction, vehicles, mining, development
<i>Allium tribracteatum</i> three-bracted onion	SOC/1B/FSS	Chprl, LCFrs, UCFrs/volcanic	Motherlode	Vehicles, road construction, and logging
<i>Allium yosemitense</i> Yosemite onion	/R/1B/FSS	BUFrs, Chprl, CmWld, LCFrs/ rocky metamorphic	Motherlode	Trail construction, mining
<i>Antirrhinum subcordatum</i> dimorphic snapdragon	/4/BLMS	Chprl, LCFrs/ sometimes serpentine	Drum, Shasta	Road maintenance and grazing
<i>Arabis constancei</i> Constance's rock cress	/1B/FSS	Chprl, LCFrs/serpentine	DeSabra	Road widening, logging, mining and urbanization
<i>Arabis macdonaldiana</i> McDonald's rock cress	E/E/1B/	LCFrs, UCFrs/ serpentine	Drum	Mining
<i>Arctostaphylos canescens</i> ssp. <i>sonomensis</i> Sonoma manzanita	/1B/	Chprl, LCFrs	Shasta, Drum	Development
<i>Arctostaphylos klamathensis</i> Klamath manzanita	SOC/1B/BLMS	Chprl, SCFrs, UCFrs	Shasta	Road maintenance
<i>Arctostaphylos myrtifolia</i> lone manzanita	T/1B/	Chprl, CmWld/acidic lone clay or sandy	Motherlode	Mining and fungal infection
<i>Arctostaphylos nissenana</i> Nissenan manzanita	SOC/1B/FSS, BLMS	Chprl	Motherlode	Development
<i>Arnica fulgens</i> hillside arnica	/2/	GBScr, LCFrs Medws/ mesic	DeSabra	Grazing, logging, pipeline construction, and trampling
<i>Asplenium septentrionale</i> northern spleenwort	/2/	Chprl, LCFrs, SCFrs	Shasta	Logging
<i>Astragalus argophyllus</i> var. <i>argophyllus</i> silver-leaved milk-vetch	/2/BLMS	Medws, Plyas/ alkaline	DeSabra	Grazing, vehicles
<i>Astragalus lentiformis</i> lens-pod milk-vetch	SOC/1B/BLMS	GBScr, LCFrs/ volcanic	DeSabra	Road maintenance, grazing, trampling, logging, reforestation, road construction, mining, reservoir construction
<i>Astragalus pulsiferae</i> var. <i>pulsiferae</i> Pulsifer's milk-vetch	/1B/BLMS	GBScr, LCFrs, PJWld/ volcanic, sandy or rocky	DeSabra	Logging, hydro/gas and transmission lines
<i>Astragalus pulsiferae</i> var. <i>suksdorfii</i> Suksdorf's milk-vetch	SOC/1B/FSS, BLMS	GBScr, LCFrs/ volcanic, often rocky	DeSabra, Shasta	Grazing and logging

<sup>1</sup> Sensitive species included in this Appendix include State and Federal listed species (e.g., threatened and endangered species) and species that are not listed but that are of concern to certain agencies or in certain areas.

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<i>Astragalus rattanii</i> var. <i>jepsonianus</i> Jepson's milk-vetch	--/1B/--	CmWld, VFGrS/ often serpentine	Drum, Shasta	Road maintenance and vehicles
<i>Astragalus webberi</i> Webber's milk-vetch	SOC/1B/FSS, BLMS	LCFrS	DeSabla	Road construction, logging, grazing, and trampling
<i>Atriplex cordulata</i> heartscale	SOC/1B/BLMS	ChScr, VFGrS (sandy)/ saline or alkaline	Motherlode, Kings- Crane	Grazing, agriculture, and development
<i>Atriplex depressa</i> brittlescale	--/1B/BLMS	ChScr, Plyas, VFGrS/ alkaline or clay	DeSabla, Motherlode, Kings-Crane	Grazing, sand mining, and development
<i>Atriplex joaquiniana</i> San Joaquin spearscale	SOC/1B/--	ChScr, Medws, VFGrS alkaline	Motherlode	Grazing, agriculture and development
<i>Atriplex minuscula</i> lesser saltscale	--/1B/BLMS	ChScr, Plyas, VFGrS alkaline	Motherlode, Kings- Crane	Agriculture
<i>Atriplex vallicola</i> Lost Hills crownscale	SOC/1B/BLMS	ChScr, VFGrS, VnPls/alkaline	Motherlode, Kings- Crane	Agriculture
<i>Balsamorhiza macrolepis</i> var. <i>macrolepis</i> big-scale balsamroot	--/1B/BLMS	CmWld, VFGrS, sometimes serpentine	DeSabla, Drum, Motherlode, Shasta	Grazing, non-native plants, mining, and development
<i>Botrychium ascendens</i> upswept moonwort	SOC/2/FSS	LCFrS (mesic)	DeSabla, Shasta	Grazing, trampling, road construction and maintenance, logging, recreation, horticultural collection
<i>Botrychium crenulatum</i> scalloped moonwort	SOC/2/FSS, BLMS	BgFns, LCFrS, Medws, MshSw (freshwater)	DeSabla, Shasta	Grazing, trampling, road construction and maintenance, logging, recreation, horticultural collection
<i>Botrychium minganense</i> Mingan moonwort	--/2/--	LCFrS (mesic)	DeSabla, Drum, Kings-Crane, Shasta	Grazing, trampling, road construction and maintenance, logging, recreation, horticultural collection
<i>Botrychium montanum</i> western goblin	--/2/FSS	LCFrS (mesic)	DeSabla, Shasta	Grazing, trampling, road construction and maintenance, logging, recreation, horticultural collection
<i>Brodiaea coronaria</i> ssp. <i>rosea</i> Indian Valley brodiaea	SOC/E/1B/--	CCFrS, Chprl, VFGrS/serpentine	Drum, Shasta	Vehicles and dumping
<i>Brodiaea insignis</i> Kaweah brodiaea	SOC/E/1B/--	CmWld, LCFrS / mesic	Kings-Crane	Residential development, road maintenance, grazing and non-native plants
<i>Calochortus clavatus</i> var. <i>avius</i> Pleasant Valley mariposa lily	SOC/1B/FSS, BLMS	LCFrS (Josephine silt loam volcanic)	Drum, Motherlode	Development, logging, road construction and maintenance
<i>Calochortus longebarbatus</i> var. <i>longebarbatus</i> long-haired star-tulip	SOC/1B/BLMS	LCFrS (openings and drainages), Medws	Shasta	Grazing, logging, vehicles, hydro
<i>Calochortus striatus</i> alkali mariposa lily	SOC/1B/BLMS	Chprl, ChScr, MDSr, Medws (alkaline, mesic)	Kings-Crane	Grazing, urbanization, and road construction

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<i>Calycadenia hooveri</i> Hoover's calycadenia	SOC/-/1B/BLMS	CmWld, VFGrs/rocky	Motherlode, Kings-Crane	Hydrofacility construction
<i>Calycadenia villosa</i> dwarf calycadenia	-/-/1B/-	Chrpl, CmWld, Medws, VFGrs/ rocky	Kings-Crane	Urbanization, vehicles and non-native plants
<i>Calyptridium pulchellum</i> Mariposa pussypaws	T/-/1B/-	Chrpl, CmWld/ sandy or gravelly, granitic	Kings-Crane	Development and grazing
<i>Calystegia atriplicifolia</i> ssp. <i>butteensis</i> Butte County morning-glory	SOC/-/1B/FSS	LCFrS	DeSabra, Shasta	Unknown
<i>Calystegia stebbinsii</i> Stebbins' morning-glory	E/E/1B/-	Chrpl, (openings) CmWld/ serpentinite or gabbroic	Drum	Development, vehicles, and road maintenance
<i>Camissonia benitensis</i> San Benito evening-primrose	T/-/1B/-	Chrpl, CmWld/ serpentine alluvium; clay or gravelly	Kings-Crane	Vehicles
<i>Camissonia sierrae</i> ssp. <i>alticola</i> Mono Hot Springs evening-primrose	SOC/-/1B/FSS	LCFrS, UCFrS/ granitic, gravel and sand pans	Kings-Crane	Vehicles, trail construction and maintenance
<i>Campanula shelleri</i> Castle Crags harebell	-/-/1B/FSS	LCFrS	Shasta	Hikers, road climbers
<i>Campanula wilkinsiana</i> Wilkin's harebell	SOC/-/1B/FSS	Medws, SCFrS, UCFrS	Shasta	Grazing and recreation
<i>Cardamine pachystigma</i> var. <i>dissectifolia</i> dissected-leaved toothwort	-/-/3/FSS	Chrpl (serpentinite)	DeSabra, Drum, Shasta	Unknown
<i>Carex comosa</i> bristly sedge	-/-/2/-	MshSw lake margins	Shasta	Marsh drainage
<i>Carex limosa</i> shore sedge	-/-/2/-	BgFns, LCFrS, UCFrS	DeSabra, Kings-Crane, Motherlode	Grazing
<i>Carex petasata</i> Liddon's sedge	-/-/2/-	LCFrS, Medws	DeSabra, Motherlode	Grazing
<i>Carex praticola</i> meadow sedge	-/-/2/-	Medws	Motherlode	Grazing
<i>Carex sheldonii</i> Sheldon's sedge	-/-/2/-	LCFrS (mesic), RpScr	DeSabra, Drum	Grazing
<i>Carex tompkinsii</i> Tompkin's sedge	-/R/4/-	Chrpl, CmWld, LCFrS, Medws, MshSw, UCFrS/ sometimes granitic	Kings-Crane	Development, trail maintenance and use
<i>Carex vulpinoidea</i> fox sedge	-/-/2/-	MshSw, RpWld	DeSabra, Shasta	Unknown
<i>Carpenteria californica</i> tree-anemone	SOC/T/1B/FSS, BLMS	Chrpl, CmWld/ usually granitic	Kings-Crane	Road construction, vehicles, logging, and development
<i>Caulanthus californicus</i> California jewel-flower	E/E/1B/BLMS	ChScr, PJWld, VFGrs/ sandy	Kings-Crane	Agriculture, urbanization, energy development, and grazing
<i>Ceanothus confusus</i> Rincon Ridge ceanothus	SOC/-/1B/BLMS	CCFrS, Chrpl, CmWld/ volcanic or serpentinite	Drum	Development
<i>Ceanothus roderickii</i> Pine Hill ceanothus	E/R/1B/-	Chrpl, CmWld/ often serpentinite or gabbroic	Drum	Residential development

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<i>Chlorogalum grandiflorum</i> Red Hills soaproot	SOCI--/1B/FSS, BLMS	Chprl, CmWld/serpentinite or gabbroic	Drum, Motherlode	Development, mining, and vehicles
<i>Chorizanthe biloba</i> var. <i>immemora</i> San Benito spineflower	SOCI--/1B/--	Chprl, CmWld	Kings-Crane	Unknown
<i>Clarkia australis</i> Small's southern clarkia	--/1B/FSS	CmWld, LCFrs	Motherlode, Kings- Crane	Logging and reforestation with herbicides
<i>Clarkia biloba</i> ssp. <i>australis</i> Mariposa clarkia	--/1B/FSS, BLMS	Chprl, CmWld	Motherlode	Road maintenance and biocide spraying
<i>Clarkia borealis</i> ssp. <i>Arida</i> Shasta clarkia	SOCI--/1B/BLMS	Chprl, CmWld, LCFrs	Shasta	Road construction
<i>Clarkia gracilis</i> ssp. <i>Albicaulis</i> white-stemmed clarkia	--/1B/BLMS	Chprl, CmWld/ sometimes serpentinite	DeSabra	Urbanization
<i>Clarkia mosquinii</i> Mosquin's clarkia	SOCI--/1B/BLMS	CmWld	DeSabra	Road maintenance
<i>Clarkia rostrata</i> beaked clarkia	SOCI--/1B/BLMS	CmWld, VFGrs	Motherlode	Grazing
<i>Clarkia springvillensis</i> Springville clarkia	T/E/1B/--	Chprl, CmWld, VFGrs / granitic	Kings-Crane	Grazing, vehicles, road maintenance, logging, and residential development
<i>Claytonia umbellata</i> Great Basin claytonia	--/1/2/BLMS	SCFrS (talus)	Motherlode	Unknown
<i>Collomia larsenii</i> talus collomia	--/1/2/--	AlpBR, CCFrs, UCFrs	Shasta	Foot traffic
<i>Collomia rawsoniana</i> flaming trumpet	SOCI--/1B/FSS	LCFrS, Medws, RpFrS / mesic	Kings-Crane	Hydroelectric development and logging
<i>Corallorhiza trifida</i> northern coralroot	--/1/2/--	LCFrS, Medws (edges)/ mesic	DeSabra	Unknown
<i>Cordylanthus mollis</i> ssp. <i>hispidus</i> hispid bird's-beak	SOCI--/1B/BLMS	Medws (alkaline), Plyas	Motherlode	Agriculture, grazing and development
<i>Cordylanthus palmatus</i> palmate-bracted bird's-beak	E/E/1B/BLMS	ChScr, VFGrs (alkaline)	Kings-Crane	Agriculture, development, and grazing
<i>Cryptantha crinita</i> silky cryptantha	SOCI-/1B/BLMS	CmWld, LCFrs, RpFrS, RpWld, VFGrs/gravelly streambeds	Shasta	Vehicles, and gravel mining
<i>Cupressus arizonica</i> ssp. <i>nevadensis</i> Piute cypress	--/1B/BLMS	CCFrS, Chprl, CmWld, PjWld	Kings-Crane	Grazing and mining
<i>Cypripedium fasciculatum</i> clustered Lady's-slipper	SOCI--/1B/FSS	LCFrS, NCFrs/ usually serpentinite seeps and streambeds	DeSabra	Logging and horticultural collection
<i>Delphinium recurvatum</i> recurved larkspur	SOCI--/1B/BLMS	ChScr, CmWld, VFGrs/ alkaline	Motherlode, Kings- Crane	Agriculture and grazing
<i>Downingia pusilla</i> Dwarf downingia	--/1/2/--	VFGrs, VnPls	Shasta	Urbanization, agriculture, grazing, and vehicles
<i>Draba asterophora</i> var. <i>asterophora</i> Tahoe draba	--/1B/FSS	AlpBr, SCFrS	Motherlode	Unknown

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<i>Drosera anglica</i> English sundew	--/2/--	BgFns, Medws	DeSabra, Shasta	Grazing, logging, and horticulture collection
<i>Eleocharis quadrangulata</i> four-angled spikerush	--/2/--	MshSw (freshwater)	DeSabra, Shasta	Grazing
<i>Epilobium howellii</i> subalpine fireweed	--/1B/FSS	Medws, SCFrS / mesic	Kings-Crane	Unknown
<i>Epilobium luteum</i> yellow willowherb	--/2/--	LCFrS (along streams and seeps)	DeSabra	Logging
<i>Epilobium oreganum</i> Oregon fireweed	SOC/1B/BLMS	BgFns, LCFrS (mesic)	Drum, Shasta	Logging
<i>Equisetum palustre</i> marsh horsetail	--/3/--	MshSw	Drum	Unknown
<i>Eriastrum brandegeae</i> Brandegee's eriastrum	SOC/1B/1/	Chprl, CmWld/ volcanic	Drum	Grazing and vehicles
<i>Eriastrum hooveri</i> Hoover's woollystar	T/4/--	ChScr, PJWld, VFGrS	Kings-Crane	Agriculture, grazing, urbanization, and energy development
<i>Erigeron aquifolius</i> Hall's daisy	--/1B/BLMS	BUFrS, LCFrS, PJWld, UCFrS / rocky, granitic	Kings-Crane	Relatively unthreatened due to inaccessibility
<i>Erigeron biolettii</i> streamside daisy	--/3/--	BUFrS, CmWld, NCFrS/ rocky, mesic	Drum	Unknown
<i>Erigeron inornatus</i> var. <i>keilii</i> Keil's daisy	--/1B/1/	LCFrS, Medws	Kings-Crane	Logging
<i>Erigeron miser</i> starved daisy	--/1/FSS	UCFrS (rocky)	Drum	Hiking, logging, and trail construction
<i>Eriogonum luteolum</i> var. <i>caninum</i> Tiburon buckwheat	--/3/--	Chprl, CoPrr, VFGrS/ serpentinite	Drum	Development and non-native plants
<i>Eriogonum nudum</i> var. <i>murinum</i> mouse buckwheat	SOC/1B/BLMS	Chprl, CmWld, VFGrS / sandy	Kings-Crane	Road construction and grazing
<i>Eriogonum nudum</i> var. <i>regirivum</i> Kings River buckwheat	--/1B/FSS, BLMS	CmWld (carbonate)	Kings-Crane	Grazing
<i>Eriogonum prociduum</i> prostrate buckwheat	SOC/1B/1/	GBScr, PJWld, UCFrS/ volcanic	DeSabra	Cattle trampling
<i>Eriogonum umbellatum</i> var. <i>torreyanum</i> Donner Pass buckwheat	SOC/1B/FSS	Medws, UCFrS/ volcanic	Drum	Vehicles, logging and mining
<i>Eriophyllum nubigenum</i> Yosemite woolly sunflower	SOC/1B/FSS	Chprl, LCFrS, UCFrS (gravelly)	Motherlode	Logging
<i>Eryngium spinosepalum</i> spiny-sepaled button-celery	SOC/1B/BLMS	VFGrS, VnPls	Kings-Crane	Development, grazing, and agriculture
<i>Erythronium tuolumnense</i> Tuolumne fawn lily	SOC/1B/FSS, BLMS	BUFrS, Chprl, LCFrS	Motherlode	Logging, vehicles, horticultural, collecting and reforestation with herbicides
<i>Fritillaria eastwoodiae</i> Butte County fritillary	SOC/3/FSS, BLMS	Chprl, CmWld, LCFrS (openings)/ sometimes serpentinite	DeSabra, Drum	Logging and development
<i>Fritillaria pluriflora</i> adobe-lily	SOC/1B/BLMS	Chprl, CmWld, LCFrS (openings)/ sometimes serpentinite	DeSabra, Drum	Grazing, vehicles, and horticultural collecting

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<i>Fritillaria striata</i> stripeda dobe-lily	SOC/T/1B/--	CmWld, VFGrs/ usually clay	Kings-Crane	Citriculture, urbanization, and grazing
<i>Galium californicum</i> ssp. <i>sierrae</i> El Dorado bestraw	E/R/1B/--	Chprl, CmWld, LCFrs (gabbroic)	Drum	Development, vehicles, and recreational activities
<i>Geum aleppicum</i> Aleppo avens	--/1/2/--	GBScr, LCFrs, Medws	DeSabla	Unknown
<i>Glyceria grandis</i> American manna grass	--/1/2/--	BgFns, Medws, MshSw (streambanks and lake margins)	Drum	Unknown
<i>Gratiola heterosepala</i> Boggs Lake hedge-hyssop	--/E/1B/FSS	MshSw (lake margins), VnPls / clay	DeSabla, Kings- Crane, Shasta	Agriculture, development, grazing, and vehicles
<i>Helianthemum suffrutescens</i> Bisbee Peak rush-rose	--/1/3/--	Chprl (often serpentinite, gabbroic)	Motherlode	Mining in the lone area, development, and vehicles
<i>Hemizonia congesta</i> ssp. <i>leucocephala</i> Hayfield tarplant	--/1/3/--	CoScr, VFGrs	Drum	Agriculture and urban development
<i>Hemizonia halliana</i> Hall's tarplant	--/1/1/BLMS	ChScr, CmWld, VFGrs / clay	Kings-Crane	Non-native plants
<i>Hesperolinon adenophyllum</i> glandular western flax	SOC/1/1B/BLMS	Chprl, VFGrs (serpentinite)	Drum	Geothermal development in Lake County
<i>Hesperolinon didymocarpum</i> Lake County western flax	SOC/E/1B/--	Chprl, CmWld, VFGrs/ serpentinite	Drum	Grazing
<i>Hesperolinon drymarioides</i> drymaria-like western flax	SOC/1/1B/BLMS	CCFrs, Chprl, CmWld, VFGrs (serpentinite)	Drum	Mining and vehicles
<i>Heterotheca villosa</i> var. <i>shevockii</i> Shevock's hairy golden-aster	--/1/1/BLMS	Chprl, CmWld / sandy	Kings-Crane	Road maintenance, recreation
<i>Hibiscus lasiocarpus</i> rose-mallow	--/1/2/--	MshSw (freshwater)	DeSabla	Development, agriculture, recreation, and channelization of the Sacramento River and its tributaries
<i>Hierochloe odorata</i> vanilla-grass	--/1/2/--	CoPrr, VFGrs	Shasta	Unknown
<i>Hordeum intercedens</i> vernal barley	--/1/3/--	VFGrs, CoDns (saline flats and depressions), vernal pools	Kings-Crane	Unknown
<i>Horkelia bolanderi</i> Bolander's horkelia	SOC/1/1B/--	LCFrs, Medws (edges, vernally mesic), VFGrs	Drum	Vehicles and development
<i>Horkelia parryi</i> Parry's horkelia	SOC/1/1B/FSS, BLMS	Chprl, CmWld/especially lone Formation	Drum, Motherlode	Clay mining
<i>Ivesia aperta</i> var. <i>aperta</i> Sierra Valley ivesia	SOC/1/1B/--	GBScr, LCFrs, Medws (xeroc), PJWld/ usually volcanic	DeSabla	Residential development, agriculture, grazing, and vehicles
<i>Ivesia baileyi</i> var. <i>baileyi</i> Bailey's ivesia	--/1/2/--	LCFrs (volcanic)	DeSabla	Unknown
<i>Ivesia longibracteata</i> Castle Crags ivesia	SOC/1/1B/BLMS	LCFrs	Shasta	Unknown
<i>Ivesia sericoleuca</i> Plumas ivesia	SOC/1/1B/FSS, BLMS	GBScr, LCFrs, Medws, VnPls/ vernally mesic, usually volcanic	DeSabla, Drum	Development, grazing, and vehicles

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<i>Ivesia webberi</i> Webber's ivesia	SOC/-/1B/BLMS	GBScr (volcanic ash), LCFrS	DeSabra	Vehicles, development, and grazing
<i>Juncus leiospermus</i> var. <i>leiospermus</i> Red Bluff dwarf rush	--/--/1B/BLMS	Chprl, CmWld, VFGrs, VNPlS/ vernal mesic	DeSabra, Shasta	Road construction, urbanization, vehicles, and grazing
<i>Juncus marginatus</i> var. <i>marginatus</i> red-anthered rush	--/--/2/--	MshSw	Drum	Unknown
<i>Lathyrus sulphureus</i> var. <i>argillaceus</i> dubious pea	--/--/3/--	CmWld, LCFrs, UCFrs	Drum, Shasta	Unknown
<i>Layia discoidea</i> rayless layia	SOC/-/1B/BLMS	Chprl, CmWld, LCFrs/ serpentine, talus and alluvial terraces	Kings-Crane	Vehicles
<i>Layia heterotricha</i> pale-yellow layia	SOC/-/1B/BLMS	CmWld, PJWld, VFGrs / alkaline or clay	Kings-Crane	Agriculture and grazing
<i>Layia munzii</i> Munz's tidy-tips	--/--/1B/BLMS	ChScr, VFGrs (alkaline clay)	Kings-Crane	Grazing
<i>Layia septentrionalis</i> Colusa layia	--/--/1B/BLMS	Chprl, CmWld, VFGrs/sandy serpentinite	Drum, Shasta	Development
<i>Legenere limosa</i> Legenere	SOC/-/1B/BLMS	VnPls	Shasta	Grazing and development
<i>Lembertia congdonii</i> San Joaquin woolythreads	E/--/1B/BLMS	ChScr, VFGrs (sandy)	Kings-Crane	Agriculture, energy development and urbanization
<i>Lepidium jaredii</i> ssp. <i>album</i> Panoche pepper-grass	SOC/-/1B/BLMS	VFGrs (alluvial fans, washes)	Kings-Crane	Gravel mining and cattle grazing
<i>Lewisia cantelovii</i> Cantelow's lewisia	--/--/1B/FSS, BLMS	BUFrS, Chprl, CmWld, LCFrS/ mesic, granitic	DeSabra, Drum, Shasta	Horticultural collection and road maintenance
<i>Lewisia congdonii</i> Congdon's lewisia	--/R/1B/FSS	Chprl, CmWld, LCFrs, UCFrS / granitic or metamorphic, rocky, mesic	Kings-Crane	Herbicide application, road widening, horticulture collection
<i>Lewisia cotyledon</i> var. <i>howellii</i> Howell's lewisia	SOC/-/3/--	BUFrS, Chprl, CmWld, LCFrS	Shasta	Unknown
<i>Lewisia disepala</i> Yosemite lewisia	--/--/1B/FSS	LCFrS, PJWld, UCFrs /granitic sandy	Kings-Crane	Vehicles
<i>Lewisia serrata</i> saw-toothed lewisia	SOC/-/1B/FSS	BUFrS, LCFrs, RpFrS	Drum	Horticultural collection and small hydroelectric power projects
<i>Lewisia stebbinsii</i> Stebbins' lewisia	SOC/-/1B/--	LCFrS, UCFrs/ gravelly, sometimes serpentinite	Drum	Timber and range management activities, road maintenance, and vehicles
<i>Limnanthes bakeri</i> Baker's meadowfoam	SOC/R/1B/--	Medws, MshSw (freshwater) VFGrs (vernally mesic), VnPls	Drum	Development, grazing, road construction
<i>Limnanthes floccosa</i> ssp. <i>bellingiana</i> Bellinger's meadowfoam	SOC/-/1B/FSS	CmWld (mesic), Medws	Shasta	Unknown

### Appendix E: Sensitive Plant Species That Occur or Potentially Could Occur Within the Project<sup>1</sup>

Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Limnanthes floccosa</i> ssp. <i>californica</i> Butte County meadowfoam	E/E/1B/--	VFGrs (mesic), VnPls	DeSabra	Urbanization, road construction, grazing, non-native plants, and agriculture
<i>Linanthus nuttallii</i> ssp. <i>Howellii</i> Mt. Tedoc linanthus	SOC/--/1B/BLMS	LCFrS	Shasta	Unknown
<i>Linanthus serrulatus</i> Madera linanthus	--/--/1B/BLMS	CmWld, LCFrS	Kings-Crane	Unknown
<i>Lomatium congdonii</i> Congdon's lomatium	SOC/--/1B/BLMS	Chprl, CmWld/serpentinite	Motherlode, Kings-Crane	Vehicles and mining
<i>Lomatium stebbinsii</i> Stebbins' lomatium	SOC/--/1B/FSS	Chprl, LCFrS/gravelly, volcanic clay	Motherlode	Vehicles
<i>Lotus rubriflorus</i> red-flowered lotus	SOC/--/1B/BLMS	CmWld, VFGrs	Shasta	Development, grazing, non-native plants
<i>Lupinus antoninus</i> Anthony Peak lupine	SOC/--/1B/BLMS	LCFrS, UCFrS	Drum, Shasta	Unknown
<i>Lupinus citrinus</i> var. <i>citrinus</i> orange lupine	SOC/--/1B/FSS	Chprl, CmWld, LCFrS / granitic	Kings-Crane	Development, road widening, vehicles, grazing, and logging
<i>Lupinus dalesiae</i> Quincy lupine	--/--/1B/FSS, BLMS	LCFrS, UCFrS/ often in disturbed areas	DeSabra	Logging and roadside maintenance
<i>Lupinus lepidus</i> var. <i>culbertsonii</i> Hockett Meadows lupine	--/--/1B/--	Medws, UCFrS (mesic, rocky)	Kings-Crane	Unknown
<i>Lupinus milo-bakeri</i> Milo Baker's lupine	SOC/T/1B/--	CmWld (often along roadsides), VFGrs	Drum	Urbanization, road widening, and herbicide application
<i>Lupinus sericatus</i> Cobb Mountain lupine	--/--/1B/--	Chprl, CmWld, LCFrS	Drum	Geothermal development, logging, and road widening
<i>Lupinus spectabilis</i> shaggyhair lupine	SOC/--/1B/BLMS	Chprl, CmWld/serpentinite	Motherlode	Mining, grazing, and road construction
<i>Lycopodiella inundata</i> bog club-moss	--/--/2/--	BgFns (coastal) MshSw (lake margins), LCFrS (mesic)	Drum	Unknown
<i>Madia radiata</i> showy madia	--/--/1B/BLMS	CmWld, VFGrs	Kings-Crane	Grazing and non-native plants
<i>Madia stebbinsii</i> Stebbins' madia	--/--/1B/BLMS	Chprl, LCFrS	Shasta	Road maintenance
<i>Malacothamnus aboriginum</i> Indian Valley bush mallow	--/--/1B/BLMS	Chprl, CmWld / rocky, often in burned areas	Kings-Crane	Grazing and vehicles
<i>Malacothamnus mendocinensis</i> Mendocino bush mallow	SOC/--/1A/--	CmWld	Drum	Road construction
<i>Mimulus acutidens</i> Kings River monkeyflower	--/--/3/FSS	CmWld, LCFrS	Kings-Crane	Grazing
<i>Mimulus filicaulis</i> slender-stemmed monkeyflower	SOC/--/1B/FSS, BLMS	CmWld, LCFrS, Medws, UCFrS /vernally mesic	Motherlode	Logging, reforestation with herbicides and grazing
<i>Mimulus norrisii</i> Kaweah monkeyflower	--/--/1B/BLMS	Chprl, CmWld / carbonate, rocky	Kings-Crane	Unknown
<i>Mimulus pictus</i> calico monkeyflower	--/--/1B/BLMS	BUFrS, CmWld / granitic	Kings-Crane	Grazing



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Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Mimulus pygmaeus</i> Egg Lake monkeyflower	SOC/-/4/BLMS	GBScr (clay), LCFrs, Medws/ vernal mesic	DeSabra, Shasta	Road maintenance, logging and grazing
<i>Mimulus whipplei</i> Whipple's monkeyflower	SOC/-/1A/--	LCFrs	Motherlode	Unknown
<i>Monardella douglasii</i> ssp. <i>venosa</i> veiny monardella	SOC/-/1B/BLMS	VFGrS (heavy clay)	DeSabra, Motherlode	Development
<i>Monardella folletti</i> Follett's monardella	--/1B/FSS	LCFrs (rocky, serpentinite)	DeSabra, Drum	Unknown
<i>Monardella leucocephala</i> Merced monardella	SOC/-/1A/--	VFGrS (sandy)	Motherlode	Agriculture and recreation
<i>Monardella stebbinsii</i> Stebbins' monardella	--/1B/FSS	BUFrs, Chprl, LCFrs/ serpentinite	DeSabra	Mining
<i>Monardella villosa</i> ssp. <i>globosa</i> robust monardella	--/1B/--	Chprl (openings), CmWld	Drum	Unknown
<i>Navarretia leucocephala</i> ssp. <i>bakeri</i> Baker's navarretia	--/1B/BLMS	CmWld, LCFrs, Medws (mesic), VFGrS, VnPls	Drum, Shasta	Grazing, agriculture, vehicles, and altered hydrology
<i>Navarretia nigelliformis</i> ssp. <i>radians</i> shining navarretia	--/1B/BLMS	CmWld, VFGrS, VnPls	Motherlode, Kings- Crane	Development
<i>Navarretia setiloba</i> Piute Mtns. navarretia	SOC/-/1B/BLMS	CmWld, PJWld, VFGrS / clay or gravelly loam	Kings-Crane	Residential development
<i>Neviusia cliffonii</i> Shasta snow-wreath	--/1B/FSS, BLMS	LCFrs	Shasta	Mining
<i>Orcuttia tenuis</i> slender orcutt grass	T/E/1B/--	VnPls	DeSabra, Shasta	Agriculture, overgrazing, non- native plants, and residential development
<i>Paronychia ahartii</i> Ahart's paronychia	SOC/-/1B/BLMS	CmWld, VFGrS, VnPls	DeSabra, Shasta	Habitat loss, grazing, and trampling
<i>Parvisedum leiocarpum</i> Lake County stonecrop	E/E/1B/--	CmWld, VFGrS, VnPls/ vernally mesic depressions in rock outcrops	Drum	Trampling, grazing and development
<i>Penstemon filiformis</i> thread-leaved beardtongue	SOC/-/1B/FSS, BLMS	CmWld, LCFrs	Shasta	Logging and recreation
<i>Penstemon personatus</i> closed-throated beardtongue	SOC/-/1B/FSS, BLMS	LCFrs, UCFrs/ metavolcanic	DeSabra	Logging
<i>Phacelia ciliata</i> var. <i>opaca</i> Merced phacelia	SOC/-/1B/--	VFGrS (clay)	Motherlode	Unknown
<i>Phacelia dalesiana</i> Scott Mountain phacelia	SOC/-/4/BLMS	LCFrs, Medws, SCFrs, UCFrs	Shasta	Logging and grazing
<i>Phacelia stebbinsii</i> Stebbins' phacelia	SOC/-/1B/FSS, BLMS	CmWld, LCFrs, Medws	Drum	Hydroelectric development and road maintenance
<i>Picea engelmannii</i> Engelmann spruce	--/2/--	UCFrs	Shasta	Logging
<i>Plagiobothrys lithocaryus</i> Mayacamas popcorn-flower	--/1A/--	Chprl/ CmWld, VFGrS/ mesic	Drum	Unknown
<i>Pogogyne floribunda</i> profuse flowered pogogyne	--/1B/BLMS	VnPls	Shasta	Grazing, vehicles and logging

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Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Polygonum polygaloides</i> ssp. <i>esotericum</i> Modoc County knotweed	--/1B/BLMS	GBScr (mesic), VnPls	DeSabra	Trampling
<i>Polystichum lonchitis</i> holly fern	--/13/--	SCFrS, UCFrS granitic	Motherlode	Unknown
<i>Potamogeton epihydrus</i> ssp. <i>nuttallii</i> Nuttall's pondweed	--/12/--	MshSw (assorted shallow freshwater)	DeSabra, Drum	Unknown
<i>Potamogeton filiformis</i> slender-leaved pondweed	--/12/--	MshSw (assorted shallow freshwater)	DeSabra	Unknown
<i>Potamogeton praelongus</i> white-stemmed pondweed	--/12/--	MshSw	Shasta	Unknown
<i>Potamogeton robbinsii</i> Robbins' pondweed	--/12/--	MshSw (deep water, lakes)	Drum, Motherlode	Unknown
<i>Potamogeton zosteriformis</i> eel-grass pondweed	--/12/--	MshSw (assorted freshwater)	DeSabra, Drum, Shasta	Unknown
<i>Potentilla basaltica</i> Black Rock potentilla	SOC/1B/BLMS	Medws (alkaline, sandy, volcanic)	DeSabra	Grazing
<i>Pseudobahia bahiifolia</i> Hartweg's golden sunburst	E/E/1B/--	CmWld, VFGrs / clay	Kings-Crane	Development, agriculture, overgrazing and trampling
<i>Pseudobahia peirsonii</i> San Joaquin adobe sunburst	T/E/1B/BLMS	CmWld, VFGrs / adobe clay	Kings-Crane	Agriculture, grazing, development, road construction and flood control activities
<i>Puccinellia howellii</i> Howell's alkali grass	SOC/1B/FSS	Medws	Shasta	Highway runoff pollution and road construction
<i>Pyrocoma lucida</i> sticky pyrocoma	--/1B/--	LCFrS (alkaline clay)	DeSabra	Unknown
<i>Rhynchospora californica</i> California beaked-rush	SOC/1B/BLMS	LCFrS, Medws (seeps), MshSw (freshwater)	DeSabra	Loss of marsh habitat
<i>Rorippa columbiae</i> Columbia yellow cress	SOC/1B/FSS, BLMS	Medws, PJWld, Plyas	DeSabra	Habitat loss and altered hydrology
<i>Rupertia hallii</i> Hall's rupertia	--/1B/FSS, BLMS	CmWld	DeSabra, Shasta	Unknown
<i>Sagittaria sanfordii</i> Sanford's arrowhead	SOC/1B/BLMS	MshSw (assorted shallow freshwater)	DeSabra, Kings- Crane, Shasta	Grazing, development, and channel alteration
<i>Salix bebbiana</i> gray willow	--/12/--	MshSw (streambanks and lake margins) RpScr	DeSabra	Unknown
<i>Sanicula tracyi</i> Tracy's sanicle	SOC/14/BLMS	CmWld, LCFrS, UCFrS/ openings	DeSabra, Shasta	Grazing, logging, development
<i>Sanguisorba officinalis</i> great burnet	--/12/--	BgFns, BUFRs, Medws, MshSw, NCFrS, RpFrS/ often serpentinite	Drum	Erosion from logging activities
<i>Scheuchzeria palustris</i> var. <i>americana</i> American scheuchzeria	--/12/FSS	MshSw (lake margins)	DeSabra	Logging
<i>Scirpus heterochaetus</i> slender bulrush	--/12/--	MshSw, LCFrS	Shasta	Unknown

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Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Scirpus subterminalis</i> water bulrush	--/2/--	MshSw (montane lake margins)	DeSabra, Shasta	Altered hydrology
<i>Scutellara galericulata</i> marsh skullcap	--/2/FSS	LCFrS, Medws (mesic), MshSw	DeSabra, Drum, Shasta	Erosion
<i>Sedum albomarginatum</i> Feather River stonecrop	--/1B/BLMS	Chprl, LCFrS/ serpentinite	DeSabra	Horticultural collection, road construction, and new mining claims
<i>Sedum eastwoodiae</i> Red Mountain stonecrop	C/1B/--	LCFrS (serpentinite)	Drum	Unknown
<i>Sedum paradisum</i> Canyon Creek stonecrop	SOC/1B/BLMS	BUFrS, Chprl, LCFrS, SCFrS	Shasta	Unknown
<i>Senecio aphanactis</i> rayless ragwort	--/2/--	Chprl, CmWld, CoScr / alkaline	Kings-Crane	Development
<i>Senecio eurycephalus</i> var. <i>lewisrosei</i> cut-leaved ragwort	--/1B/FSS, BLMS	Chprl, CmWld, LCFrS/ serpentinite	DeSabra	Mining and road maintenance
<i>Senecio layneae</i> Layne's ragwort	T/R/1B/FSS	Chprl, CmWld/serpentinite or gabbroic)	Drum, Motherlode	Urbanization, grazing, road construction and vehicles
<i>Sidalcea keckii</i> Keck's checkerbloom	PE/1B/BLMS	CmWld, VFGFrS / serpentine, clay	Kings-Crane	Grazing and development
<i>Sidalcea oregana</i> ssp. <i>hydrophilia</i> marsh checkerbloom	--/1B/--	Medws, RpFrS/ mesic	Drum	Grazing and vehicles
<i>Sidalcea robusta</i> Butte County checkerbloom	SOC/1B/BLMS	Chprl, CmWld	DeSabra	Residential development and fire suppression
<i>Sidalcea stipularis</i> Scadden Flat checkerbloom	SOC/E/1B/--	MshSw (montane freshwater)	Drum	Altered hydrology and non-native plants
<i>Silene campanulata</i> ssp. <i>campanulata</i> Red Mountain catchfly	SOC/E/4/--	Chprl, LCFrS/ serpentinite	Drum, Shasta	Mining
<i>Silene occidentalis</i> ssp. <i>longistipitata</i> western campion	SOC/1B/FSS	Chprl, LCFrS	DeSabra, Shasta	Unknown
<i>Silene suksdorfii</i> Cascade alpine campion	--/2/--	AlpBR	Shasta	Unknown
<i>Smilax jamesii</i> English Peak greenbriar	--/1B/FSS, BLMS	BUFrS, LCFrS, MshSw	Shasta	Logging
<i>Solidago gigantea</i> smooth goldenrod	--/2/--	Medws (mesic), MshSw (streambanks and lake margins)	DeSabra	Unknown
<i>Sphenopholis obtusata</i> prairie wedge grass	--/2/--	CmWld, Medws/mesic	Motherlode, Kings- Crane	Unknown
<i>Stellaria longifolia</i> long-leaved starwort	--/2/-	Medws, freshwater seeps	DeSabra, Shasta	Unknown
<i>Streptanthus brachiatus</i> ssp. <i>hoffmanii</i> Freed's jewel-flower	SOC/1B/BLMS	Chprl, LCFrS/ serpentinite	Drum	Geothermal development
<i>Streptanthus fenestratus</i> Tehipite Valley jewel-flower	--/1B/FSS	LCFrS, UCFrS	Kings-Crane	Trail construction and hiking

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Scientific Name Common Name	Status: USFWS/State/ CNPS/ Other	Habitat	Region	Threats
<i>Streptanthus morrisonii</i> ssp. <i>kruckebergii</i> Kruckeberg's jewel-flower	SOC/--/1B/BLMS	CmWld (serpentinite)	Drum	Gold mining activities
<i>Tracyina rostrata</i> beaked tracyina	--/--/1B/--	CmWld, VFGrs	Drum	Grazing, non-native plants and development
<i>Trichocoronis wrightii</i> var. <i>wrightii</i> Wright's trichocoronis	--/--/2/--	Medws, MshSw, RpFrS, VnPls / alkaline	Motherlode	Agriculture and urbanization
<i>Trifolium amoenum</i> showy Indian clover	E/--/1B/--	VFGrs (sometimes serpentinite)	Drum	Urbanization and agriculture
<i>Trimorpha acris</i> var. <i>debilis</i> northern daisy	--/--/2/--	AlpBR, Medws, SCFrS	Shasta	Logging
<i>Tuctoria greenei</i> Greene's tuctoria	E/R/1B/--	VnPls	Shasta	Agriculture, urbanization, and overgrazing
<i>Vaccinium coccineum</i> Siskiyou Mountains huckleberry	--/--/3/FSS	LCFrS, UCFrS/ often serpentinite	DeSabra	Unknown
<i>Verbena californica</i> California vervain	T/T/1B	CmWld, VFGrs/mesic usually serpentinite seeps or creeks	Motherlode	Grazing, mining, development, recreation, and vehicles
<i>Viola pinetorum</i> ssp. <i>grisea</i> grey-leaved violet	--/--/1B/FSS	SCFrS, UCFrS	Kings-Crane	Unknown
<i>Wyethia reticulata</i> El Dorado County mule ears	SOC/--/1B/BLMS	Chprl, CmWld, LCFrS/ clay or gabbroic	Drum	Development and vehicles

NOTES: Scientific names are based on the following sources: Hickman 1993. Status= Status of species relative to the Federal and California State Endangered Species Acts and Fish and Game Code of California. USFWS= United States Fish and Wildlife Service status. E= Federally listed as endangered. T= Federally listed as threatened. PE= Proposed endangered. PT= Proposed threatened. C= As of February 28, 1996 (Federal Register Vol. 61, No. 40), the USFWS has reclassified former Candidate Category, 2, and 3 species as "Candidates." Species formerly considered Category 1 are generally now considered Candidate species. Species formerly considered Category 2 and 3 are of concern to the agency but have no specific status with regard to the Federal Endangered Species Act. SOC= Species of Concern, may be endangered or threatened. Not enough biological information has been gathered to support listing at this time. State= California status. E= Endangered; Species whose continued existence in California is jeopardized. T= Threatened; Species that although not presently threatened in California with extinction, are likely to become endangered in the foreseeable future. R= Rare. CNPS= California Native Plant Society Listing. 1B= Plants, rare, threatened or endangered in California and elsewhere and are rare throughout their range. Plants constituting List 1B meet the definitions of Section 1901, Chapter 10 (Native Plant Protection) of the California Department of Fish and Game Code and are eligible for state listing. 2= Plants rare, threatened or endangered in California but more common elsewhere. 3= Plants about which we need more information-a review list. List 3 is an assemblage of taxa that have been transferred from other lists or that have been suggested for consideration. Information that would allow an assignment to one of the other lists or to reject them if lacking. Other= Forest Service and Bureau of Land Management designations. FSS= Forest Service Sensitive Specie. BLMS= Bureau of Land Management Special Status Plants Habitat: AlpBR= Alpine Boulder and Rock. FieldMshSw = Marshes and Swamps. BgFns= Bogs and Fens. PJWld= Pinyon and Juniper Woodland. BUFrS= Broadleaved Upland Forest. Plyas= Playas. CCFrS= Closed-Cone Conifer. ForestRpFrS= Riparian Forest. Chprl= Chaparral. RpScr= Riparian Scrub. ChScr= Chenopod. ScrubRpWld= Riparian. Woodland CmWld= Cismontane Woodland. SCFrS= Subalpine Conifer Forest. CoScr= Coastal Scrub. UCFrS= Upper Montane Conifer Forest. GBSScr= Great Basin Scrub. VFGrs= Valley and Foothill Grassland. LCFrS= Lower Montane Conifer Forest. VnPls= Vernal Pools. Medws= Meadows and Seeps