



E. Terrestrial Biological Report Assessment Data



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APPENDIX 1. PLANT LIST

Nomeclature follows "The Jepson Manual" (Hickman, 1993). This list includes the scientific and common names of plants identified or expected to occur in the project vicinity. It includes plants from all plant communities visited at the potential desalination plant sites and pipeline routes.

Trees

<i>Alnus rhombifolia</i>	.....	white alder
<i>Juglans californica</i>	.....	black walnut
<i>Platanus racemosa</i>	.....	western sycamore
<i>Populus fremontii</i>	.....	Fremont cottonwood
<i>Populus balsamifera</i> spp. <i>trichocarpa</i>	.....	black cottonwood
<i>Pinus radiata</i>	.....	Monterey pine
<i>Quercus agrifolia</i>	.....	coast live oak
<i>Salix lasiolepis</i>	.....	arroyo willow
<i>Salix lucida</i> ssp. <i>lasiandra</i>	.....	yellow willow

Shrubs

<i>Artemisia californica</i>	.....	California sagebrush
<i>Baccharis pilularis</i>	.....	coyote brush
<i>Baccharis salicifolia</i>	.....	mule fat
<i>Brickellia californica</i>	.....	California brickelbush
<i>Cercis occidentalis</i>	.....	western redbud
<i>Clematis ligusticifolia</i>	.....	virgin's bower
<i>Eriogonum fasciculatum</i>	.....	buckwheat
<i>Eriogonum parvifolium</i>	.....	buckwheat
<i>Eriophyllum staechadifolium</i>	.....	coastal golden-yarrow
<i>Galium nuttalli</i>	.....	bedstraw
<i>Genista monspessulana</i>	.....	French broom
<i>Hazardia squarrosa</i>	.....	sawtooth goldenbush
<i>Holodiscus discolor</i>	.....	cream bush
<i>Heteromeles arbutifolia</i>	.....	toyon
<i>Lessingia filaginifolia</i>	.....	California aster
<i>Lonicera hispidula</i> var. <i>vacillans</i>	.....	honeysuckle
<i>Lonicera involucrata</i> var. <i>ledebourii</i>	.....	twinberry
<i>Lotus scoparius</i>	.....	deerweed
<i>Lupinus albifrons</i>	.....	bush lupine
<i>Lupinus arboreus</i>	.....	tree lupine
<i>Mimulus aurantiacus</i>	.....	sticky monkey flower
<i>Nicotiana glauca</i>	.....	tree tobacco
<i>Rhamnus californica</i>	.....	coffeeberry
<i>Ribes speciosum</i>	.....	fuchsia flowered gooseberry
<i>Ricinus communis</i>	.....	castor bean
<i>Rosa californica</i>	.....	wild rose
<i>Rubus ursinus</i>	.....	blackberry
<i>Salix exigua</i>	.....	narrow-leaved willow
<i>Sambucus mexicana</i>	.....	blue elderberry
<i>Solanum douglasii</i>	.....	black nightshade
<i>Solanum xanti</i>	.....	purple nightshade
<i>Symphoricarpos mollis</i>	.....	snowberry
<i>Toxicodendron diversilobum</i>	.....	poison oak

Herbs

<i>Achillea millefolium</i>	.....	yarrow
<i>Acourtia microcephala</i>	.....	Perezia
<i>Agoseris apagioides</i>	.....	agoseris grass
<i>Agrostis pallens</i>	.....	bentgrass
<i>Agrostis exarata</i>	.....	bentgrass
<i>Amaranthus blitoides</i>	.....	amaranthus
<i>Ambrosia chamissonis</i>	.....	beach bur
<i>Ambrosia psilostachya</i>	.....	ragweed
<i>Amsinckia intermedia</i>	.....	fiddleneck
<i>Anagallis arvensis</i>	.....	scarlet pimpernel
<i>Aster chilensis</i>	.....	aster
<i>Artemisia douglasiana</i>	.....	mugwort
<i>Avena barbata</i>	.....	slender wild oats
<i>Avena fatua</i>	.....	common wild oats
<i>Avena sativa</i>	.....	oats
<i>Berula erecta</i>	.....	cow parsnip
<i>Baccharis douglasii</i>	.....	marsh baccharis
<i>Barbarea orthocarpus</i>	.....	mustard
<i>Brassica nigra</i>	.....	black mustard
<i>Briza maxima</i>	.....	quaking grass
<i>Briza minor</i>	.....	little quaking grass
<i>Bromus carinatus</i>	.....	brome
<i>Bromus catharticus</i>	.....	rescue grass
<i>Bromus diandrus</i>	.....	ripgut brome
<i>Bromus hordeaceus</i>	.....	soft chess brome
<i>Bromus inermis</i>	.....	smoothe brome
<i>Bromus madritensis</i> ssp. <i>rubens</i>	.....	red brome
<i>Cakile maritima</i>	.....	sea rocket
<i>Calandrinia ciliata</i>	.....	red maids
<i>Calystegia macrostegia</i> ssp. <i>cyclostegia</i>	.....	morning glory
<i>Capsella bursa-pastoris</i>	.....	shepherd's purse
<i>Carduus pycnocephalus</i>	.....	Italian thistle
<i>Carex cusickii</i>	.....	sedge
<i>Carex obnupta</i>	.....	sedge
<i>Carex praegracilis</i>	.....	sedge
<i>Carex serratodens</i>	.....	sedge
<i>Carpobrotus chiliensis</i>	.....	ice plant
<i>Carpobrotus edulis</i>	.....	ice plant
<i>Carthamus baeticus</i>	.....	thistle
<i>Centaurea calcitrapa</i>	.....	purple star thistle
<i>Centaurea melitensis</i>	.....	star thistle
<i>Chamomilla suaveolens</i>	.....	pineapple-weed
<i>Chenopodium album</i>	.....	lamb's quarter
<i>Chenopodium ambrosioides</i>	.....	chenopodium
<i>Chenopodium murale</i>	.....	goosefoot
<i>Chlorogalum pomeridianum</i>	.....	soap root
<i>Cirsium occidentale</i> var. <i>occidentale</i>	.....	common thistle
<i>Cirsium occidentale</i> var. <i>compactum</i>	.....	compact cobweb thistle
<i>Cirsium vulgare</i>	.....	bull thistle
<i>Claytonia perfoliata</i>	.....	miners lettuce
<i>Conium maculatum</i>	.....	poison hemlock
<i>Convolvulus arvensis</i>	.....	bind weed

<i>Conyza bonariensis</i>	horseweed
<i>Conyza canadensis</i>	horseweed
<i>Cortaderia selloana</i>	pampus grass
<i>Cotula coronopifolia</i>	brass buttons
<i>Crassula connata</i>	pygmy weed
<i>Cynodon dactylon</i>	bermuda grass
<i>Cyperus eragrostis</i>	umbrella sedge
<i>Cyperus involucratus</i>	umbrella plant
<i>Dactylis glomerata</i>	orchard grass
<i>Dichelostemma pulchellum</i>	blue dicks
<i>Digitaria sanguinalis</i>	crabgrass
<i>Dipsacus fsativus</i>	Fuller's teasel
<i>Distichlis spicata</i>	salt grass
<i>Dudleya lanceolata</i>	rock lettuce
<i>Dudleya pulverulenta</i>	rock lettuce
<i>Eleocharis palustris</i>	spike-rush
<i>Elymus glaucus</i>	blue rye
<i>Epilobium ciliatum</i>	willow herb
<i>Equisetum telmateia</i> ssp. <i>braunii</i>	horsetail
<i>Eragrostis pectinacea</i>	spreading grass
<i>Eremocarpus setigerus</i>	turkey mullein
<i>Erigeron glaucus</i>	seaside daisy
<i>Erigeron philadelphicus</i>	daisy
<i>Erodium botrys</i>	storkbill filaree
<i>Erodium cicutarium</i>	red-stemmed filaree
<i>Erodium moschatum</i>	white-stemmed filaree
<i>Eschscholzia californica</i>	California poppy
<i>Euphorbia crenulata</i>	spurge
<i>Festuca pratensis</i>	fescue
<i>Filago gallica</i>	filago
<i>Foeniculum vulgare</i>	sweet fennel
<i>Galium aparine</i>	bedstraw
<i>Geranium dissectum</i>	cranesbill
<i>Gilia</i> spp.	gilia
<i>Gnaphalium luteo-album</i>	everlasting
<i>Gnaphalium purpureum</i>	everlasting
<i>Hemizonia</i> sp.	tarweed
<i>Heracleum lanatum</i>	cow parsnip
<i>Hesperocnide tenella</i>	annual stinging nettle
<i>Heterotheca grandiflora</i>	telegraphweed
<i>Hirschfeldia incana</i>	mustard
<i>Hordeum brachyantherum</i>	foxtail
<i>Hordeum marinum</i>	Mediterranean barley
<i>Hordeum murinum</i> ssp. <i>leporinum</i>	wild barley
<i>Hypochaeris glabra</i>	smooth cat's-ear
<i>Hypochaeris radicata</i>	hairy cat's ear
<i>Juncus acutus</i>	giant rush
<i>Juncus balticus</i>	baltic rush
<i>Juncus bufonius</i>	annual rush
<i>Juncus dubius</i>	rush
<i>Juncus effusus</i>	rush
<i>Juncus lesueurii</i>	creeping rush
<i>Juncus patens</i>	rush
<i>Koeleria cristata</i>	june grass

<i>Lactuca serriola</i>	.....	wild lettuce
<i>Lamarckia aurea</i>	.....	goldentop grass
<i>Lathyrus vestitus</i>	.....	sweet pea
<i>Leymus condensatus</i>	.....	giant rye
<i>Leymus triticoides</i>	.....	beardless wild rye
<i>Lolium multiflorum</i>	.....	rye grass
<i>Lotus humistratus</i>	.....	lotus
<i>Lotus purshianus</i>	.....	lotus
<i>Lupinus nanus</i>	.....	sky lupine
<i>Luzula comosa</i>	.....	wood-rush
<i>Lythrum hyssopifolium</i>	.....	loosestrife
<i>Madia</i> sp.	.....	tarweed
<i>Malva nicaeensis</i>	.....	cheeseweed
<i>Malva parviflora</i>	.....	cheeseweed
<i>Marah fabaceus</i>	.....	wild cucumber
<i>Marrubium vulgare</i>	.....	horehound
<i>Medicago polymorpha</i>	.....	California burclover
<i>Medicago sativa</i>	.....	alfalfa
<i>Melilotus alba</i>	.....	white sweet clover
<i>Melilotus officinalis</i>	.....	sweet clover
<i>Micropus californicus</i>	.....	micropus
<i>Mimulus guttatus</i>	.....	seep monkeyflower
<i>Oxalis albicans</i>	.....	wood sorrel
<i>Oxalis pes-caprae</i>	.....	wood sorrel
<i>Pennisetum setaceum</i>	.....	canary grass
<i>Phacelia</i> sp.	.....	phacelia
<i>Phalaris arundinacea</i>	.....	reed canary grass
<i>Picris echioides</i>	.....	bristly ox-tongue
<i>Plantago erecta</i>	.....	plantain
<i>Plantago lanceolata</i>	.....	plantain
<i>Plantago major</i>	.....	plantain
<i>Poa annua</i>	.....	annual blue grass
<i>Polygonum arenastrum</i>	.....	knotweed
<i>Polygonum coccineum</i>	.....	polygonum
<i>Polygonum persicaria</i>	.....	lady's thumb
<i>Polygonum punctatum</i>	.....	dotted smartweed
<i>Polypogon interruptus</i>	.....	interrupted beard grass
<i>Polypogon monspeliensis</i>	.....	rabbitfoot grass
<i>Potentilla anserina</i> ssp. <i>pacifica</i>	.....	silver-backed potentilla
<i>Pterostegia drymarioides</i>	.....	pterostegia
<i>Ranunculus californicus</i>	.....	buttercup
<i>Raphanus sativus</i>	.....	wild raddish
<i>Rorippa nasturtium-aquaticum</i>	.....	watercress
<i>Rumex acetosella</i>	.....	sheep sorrel
<i>Rumex conglomeratus</i>	.....	dock
<i>Rumex crispus</i>	.....	curly dock
<i>Salicornia virginica</i>	.....	pickleweed
<i>Salvia spathecea</i>	.....	hummingbird sage
<i>Sanicula crassicaulis</i>	.....	sanicula
<i>Scirpus acutus</i>	.....	giant rush
<i>Scirpus americanus</i>	.....	three square
<i>Scirpus californicus</i>	.....	bulrush
<i>Scirpus robustus</i>	.....	bulrush
<i>Scrophularia californica</i>	.....	figwort

<i>Senecio mikanoides</i>	German ivy
<i>Silene gallica</i>	windmill flower
<i>Silybum marianum</i>	milk thistle
<i>Sinapis arvensis</i>	mustard
<i>Sisymbrium irio</i>	london-rocket
<i>Sisymbrium officinale</i>	hedge mustard
<i>Solidago californica</i>	goldenrod
<i>Sonchus asper</i>	sow thistle
<i>Sonchus oleraceus</i>	sow thistle
<i>Spergula arvensis</i>	spurry
<i>Stachys bullata</i>	hedgenettle
<i>Stachys pycnantha</i>	hedgenettle
<i>Stellaria media</i>	chickweed
<i>Stepanomeria chicoriacea</i>	wire lettuce
<i>Tanacetum parthenium</i>	chrysanthemum
<i>Taraxacum officinale</i>	dandelion
<i>Thermopsis macrophylla</i>	false-lupine
<i>Torilis nodosa</i>	hedge-parsley
<i>Trifolium sp.</i>	clover
<i>Typha latifolia</i>	cat-tail
<i>Urtica dioica</i>	stinging nettle
<i>Verbena lasiostachys</i>	western verbena
<i>Veronica anagallis-aquatica</i>	water speedwell
<i>Vicia americana</i>	vetch
<i>Vicia benghalensis</i>	vetch
<i>Vicia sativa</i>	vetch
<i>Vinca major</i>	periwinkle
<i>Vulpia spp.</i>	fescue
<i>Xanthium spinosum</i>	spiny clotbur
<i>Xanthium strumarium</i>	cocklebur

APPENDIX 2: WILDLIFE LIST

The wildlife species are grouped into their relative classifications and presented alphabetically by scientific name. The list includes animals or their signs observed during the survey times and those animals that might be expected to inhabit the project site.

Fish

<i>Eucyclogobius newberryi</i>	tidewater goby
<i>Gasterosteus aculeatus</i>	threespine stickleback
<i>Oncorhynchus mykiss gairneri</i>	steelhead trout

Reptiles and Amphibians

<i>Bufo boreas</i>	western frog
<i>Clemmys marmorata pallida</i>	south-western pond turtle
<i>Pituophis melanoleucus</i>	gopher snake
<i>Pseudacris regilla</i>	pacific tree frogs
<i>Rana aurora draytonii</i>	red-legged frog
<i>Sceloporus occidentalis</i>	western fence lizard
<i>Taricha torosa</i>	California newt
<i>Thamnophis hammondi</i>	two striped garter snake
<i>Thamnophis sirtalis</i>	common garter snake

Birds

<i>Accipiter cooperii</i>	Cooper's hawk
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Aimophila ruficeps</i>	rufus-crowned sparrow
<i>Ammodramus savannarum</i>	grasshopper sparrow
<i>Anas platyrhynchos</i>	mallard
<i>Aphelocoma coerulescens</i>	scrub jay
<i>Ardea herodias</i>	great blue heron
<i>Bubo virginianus</i>	great horned owl
<i>Bucephala albeola</i>	bufflehead
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Buteo lineatus</i>	red-shouldered hawk
<i>Calidris mauri</i>	western sandpiper
<i>Calidris minutilla</i>	least sandpiper
<i>Calidris pusilla</i>	semipalmated sandpiper
<i>Callipepla californica</i>	California quail
<i>Carduelis neglecta</i>	western meadowlark
<i>Carpodacus mexicanus</i>	house finch
<i>Casmerodius albus</i>	great egret
<i>Cathartes aure</i>	turkey vulture
<i>Chamaea fasciata</i>	wrentit
<i>Charadrius vociferus</i>	killdeer
<i>Chondestes grammacus</i>	lark sparrow
<i>Corvus brachyrhynchos</i>	American crow
<i>Egretta thula</i>	snowy egret
<i>Eremophila alpestris</i>	horned lark
<i>Euphagus cyanocephalus</i>	brewers blackbird
<i>Falco sparverius</i>	American kestrel

Birds - continued

<i>Fulica americana</i>	American coot
<i>Icterus galbula</i>	northern oriole
<i>Lanius ludovicianus</i>	loggerhead shrike
<i>Larus occidentalis</i>	western gull
<i>Larus californicus</i>	California gull
<i>Larus delawarensis</i>	ring-billed gull
<i>Laterallus jamaicensis corturniculus</i>	California black rail
<i>Melospiza melodia</i>	song sparrow
<i>Mimus polyglottus</i>	mockingbird
<i>Molothrus ater</i>	brown-headed cowbird
<i>Myiarchus cinerascens</i>	ash-throated flycatcher
<i>Pelecanus occidentalis</i>	brown pelican
<i>Phalacrocorax</i> spp.	comorants
<i>Pheucticus melanocephalus</i>	black-headed grosbeak
<i>Picoides pubescens</i>	downey woodpecker
<i>Picoides</i> spp.	woodpecker
<i>Pipilo crissalis</i>	California towhee
<i>Pipilo fuscus</i>	brown towhee
<i>Podilymbus podiceps</i>	pie-billed grebe
<i>Psaltriparus minimus</i>	bushtit
<i>Sayornis nigricans</i>	black phoebe
<i>Sialia mexicana</i>	western bluebird
<i>Spinus tristis</i>	American goldfinch
<i>Sturnus vulgaris</i>	European starling
<i>Thryomanes bewickii</i>	Bewick's wren
<i>Turdus migratorius</i>	American robin
<i>Tyrannus verticalis</i>	western kingbird
<i>Vireo</i> spp.	vireo
<i>Zenaida macroura</i>	mourning dove
<i>Zonotrichia leucophrys</i>	white-crowned sparrow

Mammals

<i>Canis latrans</i>	coyote
<i>Citellus beecheyi</i>	California ground squirrel
<i>Didelphis marsupialis</i>	opossum
<i>Lepus californicus</i>	black-tailed jackrabbit
<i>Lynx rufus</i>	bobcat
<i>Mephitis mephitis</i>	striped skunk
<i>Microtus californicus</i>	vole
<i>Neotoma fuscipes</i>	dusky-footed woodrat
<i>Odocoileus hemionus</i>	black tailed deer
<i>Perognathus californicus</i>	pocket mouse
<i>Peromyscus californicus</i>	California mouse
<i>Peromyscus maniculatus</i>	deer mouse
<i>Procyon lotor</i>	raccoon
<i>Reithrodontomys megalotis</i>	western harvest mouse
<i>Sylvagus bachmani</i>	bush rabbits
<i>Taxidea taxus</i>	badger
<i>Thomomys bottae</i>	Botta's pocket gopher
<i>Urocyon cinereoargenteus</i>	gray fox
<i>Vulpes fulva</i>	red fox

APPENDIX 3: DEFINITIONS

Federal Legal Status:

- Endangered: Any species, including subspecies, "in danger of extinction throughout all or a significant portion of its range"
- Threatened: Any species, "likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range"
- Proposed: Those species for which a proposed regulation has been published in the *Federal Register*, but not a final rule.
- Candidate: Species being considered for listing as endangered and threatened, however not yet the subject of a proposed rule.
- 1: Taxa for which the USFWS has sufficient biological information to support a proposal to list as Endangered or Threatened.
 - 2: Taxa which existing information indicates may warrant listing, but for which substantial biological information to support a proposed rule is lacking.
- List 3A: Withdrawn from candidacy for Federal Listing as a result of extinction.
- List 3B: Withdrawn from candidacy for Federal Listing because the species is taxonomically invalid or not meeting the Service's definition of a species.
- List 3C: too widespread or not threatened at this time.
- Recommended: Recommended as a Candidate Species

California Legal Status

- Endangered: A native species or subspecies 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.
- Threatened: A native species or subspecies that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of any special protection and management efforts (Any animal determined by the commission as "rare" on or before January 1, 1985, is a threatened species.
- Rare: A native plant is rare when although, not presently threatened with extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens.

Candidate: A taxon that has not been officially recognized by the Fish and Game Commission as under consideration for addition to the Threatened or Endangered list. Candidate species are also protected from taking.

California Department of Fish and Game

Species of Special Concern:

An administrative list of species that may be biologically rare or declining in their range. A CDFG watch list.

California Native Plant Society

- List 1:** Plants of Highest Priority
 1A: Plants Presumed Extinct in California;
 1B: Plants Rare and Endangered in California and Elsewhere;
- List 2:** Plants Rare or Endangered in California, but More Common Elsewhere;
- List 3:** Plants about which More Information is Needed;
- List 4:** Plants of Limited Distribution (A Watch List).

RED CODE

R (rarity)

1. Rare but found in sufficient numbers and distributed widely enough that the potential for extinction or extirpation is low at this time.
2. Occurrence confined to several populations or to one extended population.
3. Occurrence limited to one or a few highly restricted populations, or present in such small numbers that it is seldom reported.

E (endangerment)

1. Not endangered.
2. Endangered in a portion of its range.
3. Endangered throughout its range.

D (distribution)

1. More or less widespread outside California.
2. Rare outside California.
3. Endemic to California.