



## **APPENDIX A FLORAL COMPENDIUM**

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### **INTRODUCTION TO FLORAL SURVEY**

Floral components encountered during the survey were recorded in terms of relative abundance and host habitat type. Expected site use by wildlife is derived from survey information combined with documented habitat preferences of regional wildlife species that, whether or not recorded during the survey, are considered likely to include the project area within their range.

Habitat designations used in this report are according to the classification system of Holland (1986). Floral taxonomy used in this report follows that of Roberts (1989), Raven et al. (1986), and Beauchamp (1986). Common plant names, where not available from Roberts or Beauchamp, are taken from Munz (1984) and Abrams (1923).

## FLORAL COMPENDIUM<sup>1</sup>

### KEY:

\* Non-native

+ Observed by Sapphos Environmental, Inc. during field surveys

### VASCULAR PLANTS

#### LYCOPODIAE

##### SELAGINELLACEAE - SPIKE-MOSS FAMILY

*Selaginella bigelovii*  
Bigelow's spike-moss

##### ASPIDACEAE - WOOD FERN FAMILY

*Dryopteris arguta*  
coastal wood fern

##### DENNSTAEDTIACEAE - BRACKEN FERN FAMILY

*Pteridium aquilinum*  
bracken fern

##### POLYPODIACEAE - POLYPODY FERN FAMILY

*Polypodium californicum*  
California polypody

#### CONIFERAE

##### CUPRESSACEAE - CYPRESS FAMILY

*Cupressus glabra*\*  
Arizona cypress  
*Cupressus sempervirens*\*  
Italian cypress

##### PINACEAE - PINE FAMILY

*Cedrus deodara*\*  
deodar

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<sup>1</sup> This is not intended as an exhaustive listing of the vegetation occurring on the site; some annual herbs or very uncommon species may not have been detected by the field survey.

*Pinus halepensis*\*  
Aleppo pine  
*Pinus coulteri*  
Coulter pine  
*Pseudotsuga macrocarpa*  
big-cone spruce

## ANGIOSPERMAE (DICOTYLEDONES)

### ACERACEAE - MAPLE FAMILY

*Acer macrophyllum* +  
big-leaf maple  
*Acer negundo*\*  
California box-elder

### AIZOACEAE - CARPET-WEED FAMILY

*Carpobrotus edulis*\* +  
hottentot-fig

### AMARANTHACEAE - AMARANTH FAMILY

*Amaranthus albus*\*  
tumbleweed

### ANACARDIACEAE - SUMAC FAMILY

*Malosma laurina* +  
laurel sumac  
*Rhus integrifolia*  
lemonade berry  
*Rhus ovata* +  
sugar bush  
*Rhus trilobata*  
squaw bush  
*Schinus molle*\* +  
Peruvian pepper-tree  
*Schinus terebinthifolius*\*  
Brazilian pepper-tree  
*Toxicodendron diversilobum* +  
poison-oak

### APIACEAE - CARROT FAMILY

*Anthriscus caucalis*\*  
bur-chervil  
*Foeniculum vulgare*\*  
sweet fennel

*Osmorhiza brachypoda*  
California sweet-cicely

#### **APOCYNACEAE - DOGBANE FAMILY**

*Nerium oleander*\* +  
oleander  
*Vinca major*\*  
periwinkle

#### **ARALIACEAE - GINSENG FAMILY**

*Hedera helix*\*  
English ivy

#### **ASCLEPIADACEAE - MILKWEED FAMILY**

*Asclepias fascicularis*  
narrow-leaved milkweed

#### **ASTERACEAE - SUNFLOWER FAMILY**

*Acourtia microcephala*  
sacapellote  
*Ageratina adenophorum*  
sticky eupatorium  
*Ambrosia acanthicarpa*  
annual burweed  
*Ambrosia psilostachya*  
western ragweed  
*Anthemis cotula*\*  
mayweed  
*Artemisia californica* +  
coastal sagebrush  
*Artemisia douglasiana*  
California mugwort  
*Artemisia dracunculus*  
tarragon  
*Baccharis pilularis*  
coyote brush  
*Baccharis salicifolia* +  
mulefat  
*Bidens pilosa*\*  
beggar-ticks  
*Brickellia californica*  
California brickellbush  
*Carduus pycnocephalus*\*  
Italian thistle

*Centaurea melitensis*\*  
tocalote  
*Chaenactis glabriuscula*  
yellow pincushion  
*Chrysanthemum parthenium*\*  
feverfew  
*Cirsium californicum*  
California thistle  
*Cirsium occidentale*  
cobweb thistle  
*Cirsium vulgare*\*  
bull thistle  
*Conyza bonariensis*\*  
flax-leaved horseweed  
*Ericameria (Haplopappus) pinifolia*  
pine goldenbush  
*Eriophyllum confertiflorum*  
golden yarrow  
*Filago californica*  
California fluffweed  
*Gazania linearis*\*  
treasure flower  
*Gnaphalium bicolor*  
bicolored cudweed  
*Gnaphalium californicum*  
California everlasting  
*Gnaphalium canescens*  
everlasting cudweed  
*Gnaphalium stramineum*  
cotton-batting plant  
*Gnaphalium microcephalum*  
white everlasting  
*Hazardia squarrosa*  
saw-toothed goldenbush  
*Helianthus annuus*  
common sunflower  
*Heterotheca grandiflora*  
telegraph weed  
*Heterotheca sessiliflora*  
golden-aster  
*Heterotheca villosa*  
hairy golden-aster  
*Hypochoeris glabra*\*  
smooth cat's-ear  
*Isocoma menziesii*  
Menzies' goldenbush  
*Lactuca serriola*\*  
prickly lettuce

*Lepidospartum squamatum*  
scale-broom  
*Lessingia filaginifolia*  
cudweed aster  
*Malacothrix saxatilis*  
cliff malacothrix  
*Picris echioides\**  
bristly ox-tongue  
*Senecio douglasii*  
shrubby butterweed  
*Senecio flaccidus*  
creek senecio  
*Senecio vulgaris\**  
common groundsel  
*Sonchus oleraceus\**  
common sow-thistle  
*Stephanomeria chicoriacea*  
Tejon milk-aster  
*Tetradymia comosa*  
hairy horsebrush  
*Xanthium strumarium\**  
cocklebur

#### **BERBERIDACEAE - BARBERRY FAMILY**

*Berberis nevinii*  
Nevin's barberry

#### **BETULACEAE - BIRCH FAMILY**

*Alnus rhombifolia* +  
white alder

#### **BORAGINACEAE - BORAGE FAMILY**

*Amsinckia intermedia*  
common fiddleneck

#### **BRASSICACEAE - MUSTARD FAMILY**

*Brassica nigra\** +  
black mustard  
*Brassica rapa\**  
field mustard  
*Capsella bursa-pastoris\**  
shepherd's-purse  
*Hirschfeldia incana\**  
grey mustard

*Lepidium nitidum*  
shining peppergrass  
*Lobularia maritima\**  
sweet-alyssum  
*Raphanus sativus\**  
wild radish  
*Rorippa nasturtium-aquaticum*  
water cress  
*Sisymbrium altissimum\**  
tumbling-mustard  
*Sisymbrium officinale\**  
hedge-mustard  
*Sisymbrium orientale\**  
Oriental mustard

#### **CACTACEAE - CACTUS FAMILY**

*Opuntia ficus-indica\**  
Indian fig  
*Opuntia littoralis*  
coastal prickly pear

#### **CAPPARACEAE - CAPER FAMILY**

*Isomeris arborea*  
bladderpod

#### **CAPRIFOLIACEAE - HONEYSUCKLE FAMILY**

*Lonicera subspicata*  
southern honeysuckle  
*Sambucus mexicana* +  
Mexican elderberry  
*Symphoricarpos mollis*  
spreading snowberry

#### **CARYOPHYLLACEAE - PINK FAMILY**

*Silene gallica\**  
common catchfly  
*Stellaria media\**  
common chickweed

#### **CHENOPODIACEAE - GOOSEFOOT FAMILY**

*Atriplex canescens*  
four-winged saltbush  
*Atriplex semibaccata\**  
Australian saltbush

*Chenopodium album*\*  
lamb's-quarters  
*Chenopodium ambrosioides*\*  
Mexican-tea  
*Salsola australis*\*  
Russian-thistle  
*Salsola kali*\*  
Russian-thistle  
*Salsola tragus*\*  
Russian-thistle

#### **CISTACEAE - ROCK-ROSE FAMILY**

*Helianthemum scoparium*  
common rock-rose

#### **CONVOLVULACEAE - MORNING-GLORY FAMILY**

*Cuscuta californica* +  
California dodder

#### **CRASSULACEAE - STONECROP FAMILY**

*Crassula erecta*  
Pigmy weed  
*Dudleya lanceolata*  
lance-leaved dudleya

#### **CUCURBITACEAE - GOURD FAMILY**

*Marah macrocarpus* +  
wild cucumber

#### **DATISCACEAE - DATISCA FAMILY**

*Datisca glomerata*  
durango root

#### **ERICACEAE - HEATH FAMILY**

*Arctostaphylos glauca*  
bigberry manzanita

#### **EUPHORBIACEAE - SPURGE FAMILY**

*Chamaesyce albomarginata*  
rattlesnake spurge

*Croton californicus*  
California croton  
*Eremocarpus setigerus*  
doveweed  
*Euphorbia crenulata*  
Chinese caps  
*Euphorbia peplus\**  
petty spurge  
*Ricinus communis\** +  
castor-bean

#### **FABACEAE - PEA FAMILY**

*Acacia baileyana\**  
Cootamundra wattle  
*Cytisus scoparius\**  
Scotch broom  
*Cytisus striatus\**  
broom  
*Genista monspessulana\**  
French broom  
*Lathyrus laetiflorus*  
wild sweet pea  
*Lotus heermannii*  
woolly lotus  
*Lotus purshianus*  
Spanish clover  
*Lotus scoparius* +  
deerweed  
*Lupinus longifolius*  
Watson's bush lupine  
*Lupinus truncatus*  
collar lupine  
*Medicago polymorpha\**  
bur-clover  
*Melilotus albus\**  
white sweet-clover  
*Melilotus indicus\**  
yellow sweet-clover  
*Spartium junceum\** +  
Spanish broom  
*Vicia villosa\**  
winter vetch

#### **FAGACEAE - BEECH FAMILY**

*Quercus agrifolia* +  
coast live oak

*Quercus berberidifolia* +  
scrub oak  
*Quercus dumosa*  
California scrub oak  
*Quercus engelmannii*  
Engelmann oak

#### **GERANIACEAE - GERANIUM FAMILY**

*Erodium botrys*\*  
broad-lobed filaree  
*Erodium cicutarium*\*  
red-stemmed filaree  
*Pelargonium hortorum*\*  
geranium

#### **HYDROPHYLLACEAE - WATERLEAF FAMILY**

*Eriodictyon crassifolium*  
thick-leaved yerba santa  
*Phacelia distans*  
wild heliotrope  
*Phacelia ramosissima*  
branching phacelia

#### **JUGLANDACEAE - WALNUT FAMILY**

*Juglans californica* +  
California black walnut  
*Juglans nigra*\*  
walnut

#### **LAMIACEAE - MINT FAMILY**

*Marrubium vulgare*\*  
horehound  
*Mentha spicata*\*  
spearmint  
*Salvia apiana* +  
white sage  
*Salvia columbariae*  
chia  
*Salvia mellifera* +  
black sage  
*Stachys bullata*  
California hedge-nettle  
*Trichostema lanceolatum*  
vinegar weed

**LAURACEAE - LAUREL FAMILY**

*Umbellularia californica* +  
California bay laurel

**LYTHRACEAE - LOOSESTRIFE FAMILY**

*Ammannia coccinea*  
coccinea

**MAGNOLIACEAE - MAGNOLIA FAMILY**

*Magnolia grandiflora*\*  
southern magnolia

**MALVACEAE - MALLOW FAMILY**

*Malva parviflora*\*  
cheeseweed

**MELIACEAE - MAHOGANY FAMILY**

*Melia azedarach*\*  
chinaberry

**MIMOSACEAE - ACACIA FAMILY**

*Acacia dealbata*\* +  
silver wattle

**MORACEAE - MULGERRY FAMILY**

*Ficus carica*\*  
edible fig

**MYOPORACEAE - MYOPORUM FAMILY**

*Myoporum laetum*\*  
myoporum

**MYRTACEAE - MYRTLE FAMILY**

*Eucalyptus globulus*\* +  
blue gum

**NYCTAGINACEAE - FOUR-O'CLOCK FAMILY**

*Mirabilis californica*  
California wishbone-bush

## **OLEACEAE - OLIVE FAMILY**

*Fraxinus uhdei*\*  
Shamel ash  
*Fraxinus velutina*  
Arizona ash  
*Ligustrum japonicum*\*  
Japanese privet  
*Olea europaea*\*  
olive

## **ONAGRACEAE - EVENING-PRIMROSE FAMILY**

*Camissonia bistorta*  
southern sun-cup  
*Camissonia micrantha*  
miniature suncup  
*Clarkia dudleyana*  
clarkia  
*Epilobium canum* +  
California fuchsia  
*Epilobium ciliatum*  
California cottonweed  
*Oenothera hookeri*  
Hooker's evening-primrose

## **OXALIDACEAE - WOOD-SORREL FAMILY**

*Oxalis* sp.\*  
oxalis

## **PAEONIACEAE - PEONY FAMILY**

*Paeonia californica*  
California peony

## **PAPAVERACEAE - POPPY FAMILY**

*Dendromecon rigida*  
tree poppy  
*Eschscholzia californica*  
California poppy  
*Romneya coulteri*  
Matilija poppy

## **PASSIFLORACEAE - PASSION VINE FAMILY**

*Passiflora caerulea*\*  
passion vine

## **PLANTAGINACEAE - PLANTAIN FAMILY**

*Plantago indica*\*  
sand plantain

## **PITTOSPORACEAE - PITTOSPORUM FAMILY**

*Pittosporum undulatum*\*  
Victorian box

## **PLANTAGINACEAE - PLANTAIN FAMILY**

*Plantago indica*\*  
sand plantain  
*Plantago lanceolata*\*  
English plantain

## **PLATANACEAE - SYCAMORE FAMILY**

*Platanus racemosa* +  
California sycamore

## **POLEMONIACEAE - PHLOX FAMILY**

*Gilia capitata*  
blue field gilia  
*Leptodactylon californicum*  
prickly-phlox

## **POLYGONACEAE - BUCKWHEAT FAMILY**

*Chorizanthe staticoides*  
turkish rigging  
*Eriogonum elongatum*  
long-stemmed buckwheat  
*Eriogonum fasciculatum* +  
California buckwheat  
*Polygonum arenastrum*\*  
common knotweed  
*Rumex crispus*\*  
curly dock

## **PRIMULACEAE - PRIMROSE FAMILY**

*Anagallis arvensis*\*  
scarlet pimpernel

## **RANUNCULACEAE - CROWFOOT FAMILY**

*Clematis ligusticifolia*  
western virgin's bower  
*Delphinium cardinale*  
scarlet larkspur

## **RHAMNACEAE - BUCKTHORN FAMILY**

*Ceanothus crassifolius*  
hoary-leaved ceanothus  
*Ceanothus leucodermis*  
chaparral whitethorn  
*Ceanothus oliganthus*  
hairy ceanothus  
*Rhamnus californica* +  
California coffeeberry  
*Rhamnus crocea*  
little-leaf redberry  
*Rhamnus ilicifolia*  
redberry

## **ROSACEAE - ROSE FAMILY**

*Adenostoma fasciculatum* +  
chamise  
*Cercocarpus betuloides*  
birch-leaf mountain-mahogany  
*Eriobotrya japonica*\*  
loquat  
*Heteromeles arbutifolia* +  
toyon  
*Prunus ilicifolia* +  
holly-leaved cherry  
*Prunus armeniaca*\*  
apricot  
*Prunus persica*\*  
peach  
*Rosa californica*  
California wild rose  
*Rubus ursinus* +  
California blackberry

## **RUBIACEAE - MADDER FAMILY**

*Galium angustifolium*  
narrow-leaved bedstraw  
*Galium aparine*\*  
goose grass

## SALICACEAE - WILLOW FAMILY

- Populus trichocarpa*  
black cottonwood
- Populus fremontii*  
Fremont's cottonwood
- Salix gooddingii*  
black willow
- Salix laevigata*  
red willow
- Salix lasiolepis*  
arroyo willow

## SAXIFRAGACEAE - SAXIFRAGE FAMILY

- Ribes malvaceum*  
pink-flowered currant
- Ribes speciosum*  
fuchsia-flowered gooseberry

## SCROPHULARIACEAE - FIGWORT FAMILY

- Castilleja foliolosa*  
woolly paintbrush
- Keckiella cordifolia* +  
heart-leaved penstemon
- Mimulus aurantiacus* +  
bush monkey-flower
- Mimulus cardinalis*  
scarlet monkey-flower
- Mimulus guttatus*  
common monkey-flower
- Mimulus longiflorus*  
southern bush monkey-flower
- Verbascum blattaria* \*  
moth mullein
- Verbascum thapsus* \*  
common mullein
- Verbascum virgatum* \*  
mullein
- Veronica anagallis-aquatica* \*  
great water speedwell

## SIMAROUBACEAE - QUASSIA FAMILY

- Ailanthus altissima* \* +  
tree-of-heaven

## **SOLANACEAE - NIGHTSHADE FAMILY**

*Datura stramonium*\*  
annual jimsonweed  
*Datura wrightii*  
jimsonweed  
*Nicotiana glauca*\* +  
tree tobacco  
*Solanum douglasii*  
Douglas' nightshade  
*Solanum xanti*\*  
chaparral nightshade

## **TAMARICACEAE - TAMARISK FAMILY**

*Tamarix* sp.\*  
tamarisk

## **ULMACEAE - ELM FAMILY**

*Ulmus parvifolia*\* +  
Chinese elm  
*Ulmus americana*\*  
American elm

## **URTICACEAE - NETTLE FAMILY**

*Urtica dioica*  
giant creek nettle  
*Urtica urens*\*  
dwarf nettle

## **VERBENACEAE - VERBENA FAMILY**

*Lantana montevidensis*\*  
lantana

## **VISCAEEAE - MISTLETOE FAMILY**

*Phoradendron tomentosum*  
big-leaved mistletoe

## **VITACEAE - GRAPE FAMILY**

*Vitis californica*  
California wild grape  
*Vitis girdiana*  
desert grape

## ZYGOPHYLLACEAE - CALTROP FAMILY

*Tribulus terrestris\**  
puncture vine

## ANGIOSPERMAE (MONOCOTYLEDONES)

### AGAVACEAE - AGAVE FAMILY

*Agave americana*  
American agave  
*Yucca whipplei* +  
Spanish bayonet

### AMARYLLIDACEAE - AMARYLLIS FAMILY

*Amaryllis belladonna\**  
belladonna lily  
*Crinum asiaticum\**  
crinum lily

### ARECEAE - ARUM FAMILY

*Arum italicum\**  
Italian arum  
*Philodendron selloum\**  
philodendron  
*Zantedeschia aethiopica\**  
common calla

### ARECACEAE - PALM FAMILY

*Washingtonia robusta\**  
California fan palm

### COMMELINACEAE - SPIDERWORT FAMILY

*Tradescantia fluminensis\**  
wandering Jew

### CYPERACEAE - SEDGE FAMILY

*Cyperus alternifolius\**  
umbrella-plant  
*Cyperus eragrostis*  
tall cyperus

## LILIACEAE - LILY FAMILY

- Agave americana*\*  
century plant
- Calochortus plummerae*  
Plummer's mariposa lily
- Lilium humboldtii* +  
Humboldt lily

## POACEAE - GRASS FAMILY

- Achatherum coronatum*  
chaparral needlegrass
- Arundo donax*\*  
giant reed
- Avena barbata*\*  
slender oat
- Avena fatua*\*  
wild oat
- Bromus diandrus*\*  
ripgut grass
- Bromus hordeaceus*\*  
soft chess
- Bromus madritensis*\*  
Spanish brome
- Bromus rubens*\*  
foxtail chess
- Cynodon dactylon*\*  
Bermuda grass
- Digitaria sanguinalis*\*  
crab grass
- Elymus condensatus*  
giant wild rye
- Hordeum murinum*\*  
glaucous foxtail barley
- Piptatherum miliaceum*\*  
smilo
- Polypogon monspeliensis*\*  
rabbit's-foot grass
- Vulpia megalura*  
foxtail fescue
- Vulpia myuros* \*  
rat-tail fescue

## TYPHACEAE - CATTAIL FAMILY

- Typha latifolia*  
broad-leaved cattail



## **APPENDIX B FAUNAL COMPENDIUM**

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<sup>1</sup> Grenfell, W. E., M. D. Parisi, and D. McGriff. August 2003. *Complete List of Amphibians, Reptiles, Birds, and Mammals in California*. California Department of Fish and Game, Wildlife Habitat Relationships System.

**KEY:**

\*Special status species

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
<b><u>INSECTA (Insects)</u></b>		
<b>PAPILIONIDAE (Swallowtail butterflies)</b>		
Western tiger swallowtail	<i>Papilio rutulus</i>	X
<b>PIERIDAE (White and sulphur butterflies)</b>		
Cabbage white	<i>Pieris rapae</i>	X
<b>NYMPHALIDAE (Brush-footed butterflies)</b>		
Mourning cloak	<i>Nymphalis antiopa</i>	X
Lorquin's admiral	<i>Limenitis lorquini</i>	X
<b><u>AMPHIBIA (Amphibians)</u></b>		
<b>SALAMANDRIDAE (Newts)</b>		
Coast range newt*	<i>Taricha torosa torosa</i>	
<b>PLETHODONTIDAE (Lungless salamanders)</b>		
California slender salamander	<i>Batrachoseps attenuatus</i>	
Arboreal salamander	<i>Aneides lugubris</i>	
Yellow-blotched ensatina*	<i>Ensatina eschscholtzii croceator</i>	
San Gabriel mountain slender salamander*	<i>Batrachoseps gabrieli</i>	
<b>PELOBATIDAE (Spadefoot toads)</b>		
Western spadefoot*	<i>Spea hammondii</i>	
<b>BUFONIDAE (True toads)</b>		
Western toad	<i>Bufo boreas</i>	
Arroyo toad*	<i>Bufo californicus</i>	
<b>HYLIDAE (Tree frogs and relatives)</b>		
California chorus frog	<i>Pseudacris cadaverina</i>	
Pacific chorus frog	<i>Pseudacris regilla</i>	X
<b>RANIDAE (True frogs)</b>		
California red-legged frog*	<i>Rana aurora draytonii</i>	
Mountain yellow-legged frog*	<i>Rana muscosa</i>	
Foothill yellow-legged frog*	<i>Rana boylei</i>	
<b><u>REPTILIA (Reptiles)</u></b>		
<b>EMYDIDAE (Box and water turtles)</b>		
Southwestern pond turtle*	<i>Emys marmorata pallida</i>	
<b>PHRYNOSOMATIDAE</b>		
Western fence lizard	<i>Sceloporus occidentalis</i>	X

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
Common side-blotched lizard	<i>Uta stansburiana</i>	X
Coast (San Diego) horned lizard*	<i>Phrynosoma coronatum</i> ( <i>blainvillei</i> )	
<b>SCINCIDAE (Skinks)</b>		
Western skink	<i>Eumeces skiltonianus</i>	
<b>TEIIDAE (Whiptails and relatives)</b>		
Orange-throated whiptail*	<i>Aspidoscelis hyperythra</i>	
Coastal western whiptail*	<i>Aspidoscelis tigris</i> <i>stejnegeri</i>	
<b>ANGUIDAE (Alligator lizards and relatives)</b>		
Southern alligator lizard	<i>Elgaria multicarinata</i>	
<b>ANNIELLIDAE (California legless lizards)</b>		
Silvery legless lizard*	<i>Anniella pulchra pulchra</i>	
<b>LEPTOTYPHLOPIDAE (Slender blind snakes)</b>		
Western blind snake	<i>Leptotyphlops humilis</i>	
<b>BOIDAE (Boas)</b>		
Rosy boa*	<i>Charina trivirgata</i>	
<b>COLUBRIDAE (Colubrids)</b>		
Coachwhip (red racer)	<i>Masticophis flagellum</i>	
Racer	<i>Coluber constrictor</i>	
Night snake	<i>Hypsiglena torquata</i>	
San Bernardino ringneck snake*	<i>Diadophis punctatus</i> <i>modestus</i>	
San Bernardino mountain kingsnake*	<i>Lampropeltis zonata</i> <i>parvirubra</i>	
Common kingsnake	<i>Lampropeltis getula</i>	
California whipsnake (striped racer)	<i>Masticophis lateralis</i>	
Gopher snake	<i>Pituophis catenifer</i>	
Two-striped garter snake*	<i>Thamnophis hammondi</i>	
<b>VIPERIDAE (Vipers)</b>		
Western rattlesnake	<i>Crotalus viridis</i>	X
<b><u>AVES (Birds)</u></b>		
<b>ARDEIDAE (Herons and bitterns)</b>		
Great egret	<i>Ardea alba</i>	
<b>CATHARTIDAE (New world vultures)</b>		
Turkey vulture	<i>Cathartes aura</i>	
<b>ACCIPITRIDAE (Hawks, old world vultures, and harriers)</b>		
Sharp-shinned hawk*	<i>Accipiter striatus</i>	X

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
Cooper's hawk*	<i>Accipiter cooperii</i>	X
Northern goshawk*	<i>Accipiter gentilis</i>	
Red-shouldered hawk	<i>Buteo lineatus</i>	
Swainson's hawk*	<i>Buteo swainsoni</i>	
Red-tailed hawk	<i>Buteo jamaicensis</i>	X
White-tailed kite*	<i>Elanus leucurus</i>	
<b>FALCONIDAE (Caracaras and falcons)</b>		
American kestrel	<i>Falco sparverius</i>	X
American peregrine falcon*	<i>Falco peregrinus anatum</i>	
<b>PHASIANIDAE (Quails, pheasants and relatives)</b>		
Ring-necked pheasant	<i>Phasianus colchicus</i>	
<b>ODONTOPHORIDAE (New world quail)</b>		
California quail	<i>Callipepla californica</i>	
<b>CHARADRIIDAE (Plovers and relatives)</b>		
Killdeer	<i>Charadrius vociferus</i>	
<b>COLUMBIDAE (Pigeons and doves)</b>		
Rock dove	<i>Columba livia</i>	X
Mourning dove	<i>Zenaida macroura</i>	X
Band-tailed pigeon	<i>Columba fasciata</i>	X
Spotted dove	<i>Streptopelia chinensis</i>	
<b>CUCULIDAE (Typical cuckoos)</b>		
Greater roadrunner	<i>Geococcyx californianus</i>	
Western yellow-billed cuckoo*	<i>Coccyzus americanus occidentalis</i>	
<b>STRIGIDAE (Typical owls)</b>		
Great horned owl	<i>Bubo virginianus</i>	
Western screech owl	<i>Otus kennicottii</i>	
Long-eared owl*	<i>Asio otus</i>	
California spotted owl*	<i>Strix occidentalis occidentalis</i>	
<b>CAPRIMULGIDAE (Goatsuckers)</b>		
Lesser nighthawk	<i>Chordeiles acutipennis</i>	
<b>APODIDAE (Swifts)</b>		
White-throated swift	<i>Aeronautes saxatalis</i>	
Vaux's swift	<i>Chaetura vauxi</i>	
Black swift*	<i>Cypseloides niger</i>	
<b>TROCHILIDAE (Hummingbirds)</b>		
Anna's hummingbird	<i>Calypte anna</i>	
Black-chinned hummingbird	<i>Archilochus alexandri</i>	

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
Costa's hummingbird	<i>Calypte costae</i>	
Allen's hummingbird	<i>Selasphorus sasin</i>	X
<b>PICIDAE (Woodpeckers and wrynecks)</b>		
Acorn woodpecker	<i>Melanerpes formicivorus</i>	X
Nuttall's woodpecker	<i>Picoides nuttallii</i>	X
Northern flicker	<i>Colaptes auratus</i>	X
<b>TYRANNIDAE (Tyrant flycatchers)</b>		
Western wood pewee	<i>Contopus sordidulus</i>	X
Pacific slope flycatcher	<i>Empidonax difficilis</i>	X
Dusky flycatcher	<i>Empidonax oberholseri</i>	
Olive-sided flycatcher	<i>Contopus cooperi</i>	
Black phoebe	<i>Sayornis nigricans</i>	X
Say's phoebe	<i>Sayornis saya</i>	
Ash-throated flycatcher	<i>Myiarchus cinerascens</i>	X
Western kingbird	<i>Tyrannus verticalis</i>	
Southwestern willow flycatcher*	<i>Empidonax trailii extimus</i>	
<b>LANIIDAE (Shrikes)</b>		
Loggerhead shrike*	<i>Lanius ludovicianus</i>	
<b>CORVIDAE (Jays, magpies, and crows)</b>		
Steller's jay	<i>Cyanocitta stelleri</i>	X
Western scrub jay	<i>Aphelocoma californica</i>	X
Common raven	<i>Corvus corax</i>	X
American crow	<i>Corvus brachyrhynchos</i>	
<b>ALAUDIDAE (Larks)</b>		
Horned lark	<i>Eremophila alpestris</i>	
<b>HIRUNDINIDAE (Swallows)</b>		
Northern rough-winged swallow	<i>Stelgidopteryx serripennis</i>	X
Cliff swallow	<i>Petrochelidon pyrrhonota</i>	
Barn swallow	<i>Hirundo rustica</i>	
Tree swallow	<i>Tachycineta bicolor</i>	
Violet-green swallow	<i>Tachycineta thalassina</i>	
Bank swallow*	<i>Riparia riparia</i>	
<b>PARIDAE (Titmice and relatives)</b>		
Oak titmouse	<i>Baeolophus inornatus</i>	X
<b>AEGITHALIDAE (Bushtit)</b>		
Bushtit	<i>Psaltriparus minimus</i>	X
<b>SITTIDAE (Nuthatches)</b>		
White-breasted nuthatch	<i>Sitta carolinensis</i>	

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
<b>TROGLODYTIDAE (Wrens)</b>		
Bewick's wren	<i>Thryomanes bewickii</i>	X
House wren	<i>Troglodytes aedon</i>	X
Coastal cactus wren*	<i>Campylorhynchus brunneicapillus couesi</i>	
<b>REGULIDAE (Kinglets)</b>		
Ruby-crowned kinglet	<i>Regulus calendula</i>	X
<b>SYLVIIDAE (Old world warblers and gnatcatchers)</b>		
California gnatcatcher*	<i>Polioptila californica californica</i>	
<b>TURDIDAE (Thrushes)</b>		
Western bluebird	<i>Sialia mexicana</i>	
Hermit thrush	<i>Catharus guttatus</i>	
Swainson's thrush	<i>Catharus ustulatus</i>	
American robin	<i>Turdus migratorius</i>	
Varied thrush	<i>Ixoreus naevius</i>	
<b>TIMALIIDAE (Babblers)</b>		
Wrentit	<i>Chamaea fasciata</i>	X
<b>MIMIDAE (Mockingbirds and thrashers)</b>		
Northern mockingbird	<i>Mimus polyglottos</i>	X
California thrasher		X
<b>STURNIDAE (Starlings and allies)</b>		
European starling	<i>Sturnus vulgaris</i>	X
<b>BOMBYCILLIDAE (Waxwings)</b>		
Cedar waxwing	<i>Bombycilla cedrorum</i>	
<b>PTILOGONATIDAE (Silky flycatchers)</b>		
Phainopepla	<i>Phainopepla nitens</i>	X
<b>PARULIDAE (Wood warblers and relatives)</b>		
Wilson's warbler	<i>Wilsonia pusilla</i>	
Yellow-rumped warbler	<i>Dendroica coronata</i>	X
Common yellowthroat	<i>Geothlypis trichas</i>	
Yellow warbler*	<i>Dendroica petechia</i>	
Yellow-breasted chat*	<i>Icteria virens</i>	
<b>THRAUPIDAE (Tanagers)</b>		
Western tanager	<i>Piranga ludoviciana</i>	X
<b>EMBERIZIDAE (Emberizines)</b>		
Spotted towhee	<i>Pipilo maculatus</i>	X
California towhee	<i>Pipilo crissalis</i>	X
Song sparrow	<i>Melospiza melodia</i>	X

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
Dark-eyed junco	<i>Junco hyemalis</i>	X
Golden-crowned sparrow	<i>Zonotrichia atricapilla</i>	
White-crowned sparrow	<i>Zonotrichia leucophrys</i>	X
Lark sparrow	<i>Chondestes grammacus</i>	
Chipping sparrow	<i>Spizella passerina</i>	X
Fox sparrow	<i>Passerella iliaca</i>	
Southern california rufous-crowned sparrow*	<i>Aimophila ruficeps</i> <i>canescens</i>	
White-throated sparrow	<i>Zonotrichia albicollis</i>	
<b>CARDINALIDAE (Cardinals, grosbeaks, and allies)</b>		
Black-headed grosbeak	<i>Pheucticus melanocephalus</i>	
<b>ICTERIDAE (Blackbirds, orioles, and allies)</b>		
Brewer's blackbird	<i>Euphagus cyanocephalus</i>	
Western meadowlark	<i>Sturnella neglecta</i>	
Brown-headed cowbird	<i>Molothrus ater</i>	X
Bullock's oriole	<i>Icterus bullockii</i>	
<b>FRINGILLIDAE (Finches)</b>		
House finch	<i>Carpodacus mexicanus</i>	X
Lesser goldfinch	<i>Carduelis psaltria</i>	X
American goldfinch	<i>Carduelis tristis</i>	
<b>PASSERIDAE (Old world sparrows)</b>		
House sparrow	<i>Passer domesticus</i>	
<b><u>MAMMALIA (Mammals)</u></b>		
<b>DIDELPHIDAE (Opossums)</b>		
Virginia opossum	<i>Didelphis virginiana</i>	
<b>SORICIDAE (Shrews)</b>		
Desert shrew	<i>Notiosorex crawfordi</i>	
Ornate shrew	<i>Sorex ornatus</i>	
<b>TALPIDAE (Moles)</b>		
Broad-footed mole	<i>Scapanus latimanus</i>	
<b>VESPERTILIONIDAE (Evening bats)</b>		
California myotis	<i>Myotis californicus</i>	
Western pipistrelle	<i>Pipistrellus hesperus</i>	
Big Brown Bat	<i>Eptesicus fuscus</i>	
Hoary bat	<i>Lasiurus cinereus</i>	
Western red bat*	<i>Lasiurus blossevillii</i>	
Pallid bat*	<i>Antrozous pallidus</i>	
Townsend's big-eared bat*	<i>Plecotus townsendii</i> <i>townsendii</i>	
Southwestern yellow bat*	<i>Lasiurus xanthinus</i>	
Brazilian free-tailed bat	<i>Tadarida brasiliensis</i>	

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
<b>LEPORIDAE (Rabbits and hares)</b>		
San Diego black-tailed jackrabbit*	<i>Lepus californicus bennettii</i>	
Desert cottontail	<i>Sylvilagus audubonii</i>	
Brush rabbit	<i>Sylvilagus bachmani</i>	X
<b>SCIURIDAE (Squirrels, chipmunks, and marmots)</b>		
California ground squirrel	<i>Citellus beecheyi</i>	X
Western gray squirrel	<i>Sciurus griseus</i>	X
Merriam's Chipmunk	<i>Eutamias merriami</i>	
<b>GEOMYIDAE (Pocket gophers)</b>		
Botta's pocket gopher	<i>Thomomys bottae</i>	
<b>HETEROMYIDAE (Pocket mice and kangaroo rats)</b>		
Pacific kangaroo rat	<i>Dipodomys agilis</i>	
Los Angeles pocket mouse*	<i>Perognathus longimembris</i>	
	<i>brevinasus</i>	
California pocket mouse	<i>Perognathus californicus</i>	
<b>MURIDAE (Mice, rats, and voles)</b>		
Western harvest mouse	<i>Reithrodontomys megalotis</i>	
California mouse	<i>Peromyscus californicus</i>	
Deer mouse	<i>Peromyscus maniculatus</i>	
Brush mouse	<i>Peromyscus boylii</i>	
Pinon mouse	<i>Peromyscus truei</i>	
Southern grasshopper mouse*	<i>Onychomys torridus</i>	
	<i>ramona</i>	
Dusky-footed woodrat	<i>Neotoma fuscipes</i>	
Desert wood rat	<i>Neotoma lepida</i>	
Black rat	<i>Rattus rattus</i>	
Norway rat	<i>Rattus norvegicus</i>	
House mouse	<i>Mus musculus</i>	
California vole	<i>Microtus californicus</i>	
<b>CANIDAE (Foxes, wolves, and relatives)</b>		
Feral dog	<i>Canis familiaris</i>	
Coyote	<i>Canis latrans</i>	X
Gray fox	<i>Urocyon cinereoargenteus</i>	X
<b>URSIDAE (Bears)</b>		
Black Bear	<i>Ursus americanus</i>	
<b>PROCYONIDAE (Raccoons and relatives)</b>		
Raccoon	<i>Procyon lotor</i>	
Ringtail	<i>Bassariscus astutus</i>	
<b>MUSTELIDAE (Weasels and relatives)</b>		
Long-tailed weasel	<i>Mustela frenata</i>	
American badger*	<i>Taxidea taxus</i>	

COMMON NAME	SCIENTIFIC NAME	OBSERVED BY SAPPHOS ENVIRONMENTAL, INC.
<b>MEPHITIDAE (Skunks)</b>		
Striped skunk	<i>Mephitis mephitis</i>	X
Western spotted skunk	<i>Spilogale gracilis</i>	
<b>FELIDAE (Cats)</b>		
Feral cat	<i>Felis catus</i>	
Mountain lion	<i>Puma concolor</i>	
Bobcat	<i>Lynx rufus</i>	
<b>CERVIDAE (Deer, elk, and relatives)</b>		
Mule deer	<i>Odocoileus hemionus</i>	X

**REFERENCES:**

Cotton/Beland/Associates, Inc. February 1988. *Environmental Baseline Study: Devil's Gate Multi-use Project, Pasadena, California*. Prepared for the City of Pasadena, Water and Power Department. Pasadena, CA.

Fisher, R.W. (Toyon Design, Landscape Architects) and M..C. Long. 5 August 2004. *Biological Survey and Habitat Restoration Needs Analysis for the Altadena Foothills, Los Angeles County, California*. Prepared for the Altadena Foothills Conservancy. Altadena, CA.

Planning Consultants Research. 30 September 1994. *Biological Assessment for Devil's Gate Dam Rehabilitation Project*. Prepared for the County of Los Angeles Department of Public Works. Santa Monica, CA.

The Planning Center. October 1987. *Draft Environmental Impact Report: La Vina Specific Plan, Altadena, California*. Prepared for the County of Los Angeles. Costa Mesa, CA.

***APPENDIX C***  
***POTENTIAL FOR SPECIAL STATUS SPECIES TO OCCUR WITHIN FIVE***  
***PLANT COMMUNITIES IN THE VICINITY OF THE PROPOSED PROJECT***

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Appendix C, Potential for Special Status Species to Occur within Five Plant Communities in the Vicinity of the Proposed Project

Special Status Species	Potential to Occur On Site	Plant Community Designations				
		Riversidean Coastal Sage Scrub (Holland 32700)	Chamise Chaparral (Holland 37200)	Coast Live Oak Woodland (Holland 71160)	Alder Riparian Woodland (Holland 62400)/Blue-line Stream	Non-native Grassland/Developed (Holland 42200)
<b><u>Plants</u></b>						
Braunton's milk-vetch ( <i>Astragalus brauntonii</i> )*	Moderate	X	X			X
Nevin's barberry ( <i>Berberis nevinii</i> )*	Moderate	X	X	X	X	
Davidson's bush mallow ( <i>Malacothamnus davidsonii</i> )	Moderate	X	X		X	
Many-stemmed dudleya ( <i>Dudleya multicaulis</i> )	Moderate	X	X			X
Mesa horkelia ( <i>Horkelia cuneata ssp. puberula</i> )	Moderate	X	X	X		
Plummer's mariposa lily ( <i>Calochortus plummerae</i> )	Moderate	X	X	X		X
Robinson's pepper-grass ( <i>Lepidium virginicum var. robinsonii</i> )	Moderate	X	X			
San Gabriel bedstraw ( <i>Galium grande</i> )	Moderate		X	X		
Slender mariposa lily ( <i>Calochortus clavatus var. gracilis</i> )	Low	X	X			
Spotted Humboldt's lily ( <i>Lilium humboldtii var. ocellatum</i> )	High		X	X	X	
<b><u>Fish</u></b>						
Santa Ana sucker ( <i>Catostomus santaanae</i> )*	Moderate				X	
Unarmored threespined stickleback ( <i>Gasterosteus aculeatus williamsoni</i> )*	Low				X	
Arroyo chub ( <i>Gila orcutti</i> )	Low				X	
Santa Ana speckled dace ( <i>Rhinichthys osculus spp.</i> )	Low				X	
<b><u>Amphibians</u></b>						
Arroyo toad ( <i>Bufo californicus</i> )*	Low			X	X	
California red-legged frog ( <i>Rana aurora draytonii</i> )*	Low				X	
Mountain yellow-legged frog ( <i>Rana muscosa</i> )*	Low				X	
Foothill yellow-legged frog ( <i>Rana boylei</i> )	Low				X	
Western spadefoot ( <i>Spea hammondi</i> )	Low				X	X
Coast range newt ( <i>Taricha torosa torosa</i> )	High			X	X	
Yellow-blotched ensatina ( <i>Ensatina eschscholtzii croceator</i> )	Low			X		
San Gabriel mountain slender salamander ( <i>Batrachoseps gabrieli</i> )	Low			X		
<b><u>Reptiles</u></b>						
Southwestern pond turtle ( <i>Emys marmorata pallida</i> )	Low				X	
Coast (San Diego) horned lizard ( <i>Phrynosoma coronatum (blainvillei)</i> )	High	X	X	X	X	X
Orange-throated whiptail ( <i>Aspicoscelis hyperythra</i> )	Low	X	X			
Coastal western whiptail ( <i>Aspidoscelis tigris stejnegeri</i> )	High	X	X			X
Silvery (California) legless lizard ( <i>Anniella pulchra pulchra</i> )	Moderate		X	X	X	
Rosy boa ( <i>Charina trivirgata</i> )	Low		X			
San Bernardino ringneck snake ( <i>Diadophis punctuatus modestus</i> )	Moderate		X			X

Special Status Species	Potential to Occur On Site	Plant Community Designations				
		Riversidean Coastal Sage Scrub (Holland 32700)	Chamise Chaparral (Holland 37200)	Coast Live Oak Woodland (Holland 71160)	Alder Riparian Woodland (Holland 62400)/Blue-line Stream	Non-native Grassland/Developed (Holland 42200)
San Bernardino mountain kingsnake ( <i>Lampropeltis zonata parvirubra</i> )	Moderate				X	
Two-striped garter snake ( <i>Thamnophis hammondi</i> )	Moderate				X	
<b><u>Birds</u></b>						
Swainson's hawk ( <i>Buteo swainsoni</i> )*	Low				X	X
American peregrine falcon ( <i>Falco peregrinus anatum</i> )*	Low			X	X	
Coastal California gnatcatcher ( <i>Polioptila californica californica</i> )*	Low	X				X
Western yellow-billed cuckoo ( <i>Coccyzus americanus occidentalis</i> )*	Low				X	
Southwestern willow flycatcher ( <i>Empidonax traillii extimus</i> )*	Low				X	
Bank swallow ( <i>Riparia riparia</i> )*	Low				X	
Cooper's hawk ( <i>Accipiter cooperii</i> )	High			X	X	X
Sharp-shinned hawk ( <i>Accipiter striatus</i> )	High			X	X	X
Northern goshawk ( <i>Accipiter gentilis</i> )	Low				X	
White-tailed kite ( <i>Elanus leucurus</i> )	Low					X
Long-eared owl ( <i>Asio otus</i> )	Moderate				X	
California spotted owl ( <i>Strix occidentalis occidentalis</i> )	Moderate			X		
Loggerhead shrike ( <i>Lanius ludovicianus</i> )	High		X			X
Coastal cactus wren ( <i>Campylorhynchus brunneicapillus couesi</i> )	Low	X				X
Black swift ( <i>Cypseloides niger</i> )	Low				X	
Yellow-breasted chat ( <i>Icteria virens</i> )	Low				X	
Yellow warbler ( <i>Dendroica petechia</i> )	Moderate				X	
Southern California rufous-crowned sparrow ( <i>Aimophila ruficeps canescens</i> )	Moderate	X	X			
<b><u>Mammals</u></b>						
Western red bat ( <i>Lasiurus blossevillii</i> )	Low			X	X	
Pallid bat ( <i>Antrozous pallidus</i> )	Low			X		X
Townsend's big-eared bat ( <i>Plecotus townsendii townsendii</i> )	Low			X		
Southwestern yellow bat ( <i>Lasiurus xanthinus</i> )	Low				X	
San Diego black-tailed jackrabbit ( <i>Lepus californicus bennettii</i> )	Moderate		X			X
Los Angeles pocket mouse ( <i>Perognathus longimembris breinasus</i> )	Low	X				X
Southern grasshopper mouse ( <i>Onychomys torridus ramona</i> )	Low	X	X			
American badger ( <i>Taxidea taxus</i> )	Low					X
<b>TOTAL:</b>		16	20	18	32	18

\*Indicates a species listed as federally or state endangered or threatened

***APPENDIX D***  
***ALTADENA CREST TRAIL SEGMENTS***  
***BIOLOGICAL CONSTRAINTS TABLES***

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Appendix D, Altadena Crest Trail Segments Biological Constraints Tables

Plant Community	Trail Segments																	
	La Vina EIR Trail West						La Vina EIR Trail East						La Vina West Alternative					
	Listed			Sensitive			Listed			Sensitive			Listed			Sensitive		
	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total
Plants	2		2	6	1	7	2		2	6	1	7	1		1	4	1	5
Fish	1		1			0		0			0		1		1			0
Amphibians			0		1	1		0		1	1			0		1		1
Reptiles			0	4	2	6			0	2	2	4			0	2	2	4
Birds			0	4	3	7			0	2	3	5			0	3	2	5
Mammals			0	1		1			0	1		1			0	0		0
<b>Totals:</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>15</b>	<b>7</b>	<b>22</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>11</b>	<b>7</b>	<b>18</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>15</b>
<b>Grand totals:</b>	<b>25</b>						<b>20</b>						<b>17</b>					

Plant Community	Trail Segments																	
	La Vina North Alternative						Millard Canyon Gap Trail						Chaney Trail and Chaney Trail South					
	Listed			Sensitive			Listed			Sensitive			Listed			Sensitive		
	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total
Plants	2		2	6	1	7	2		2	6	1	7	2		2	6	1	7
Fish	1		1			0	1		1			0			0			0
Amphibians			0		1	1		0		1	1			0		1		1
Reptiles			0	4	2	6			0	4	2	6			0	2	2	4
Birds			0	4	3	7			0	4	3	7			0	2	3	5
Mammals			0	1		1			0	1		1			0	1		1
<b>Totals:</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>15</b>	<b>7</b>	<b>22</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>15</b>	<b>7</b>	<b>22</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>11</b>	<b>7</b>	<b>18</b>
<b>Grand totals:</b>	<b>25</b>						<b>25</b>						<b>20</b>					

**KEY:**

M = Moderate potential to occur

H = High potential to occur

Appendix D continued

Plant Community	Trail Segments																	
	Cobb Estate Trail						Skylane Gap Option No. 1						Skylane Gap Option No. 2					
	Listed			Sensitive			Listed			Sensitive			Listed			Sensitive		
	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total
Plants	2		2	6	1	7	2		2	6	1	7	2		2	6	1	7
Fish	1		1			0			0			0			0			0
Amphibians			0		1	1			0		1	1			0		1	1
Reptiles			0	4	2	6			0	2	2	4			0	2	2	4
Birds			0	4	3	7			0	2	3	5			0	2	3	5
Mammals			0	1		1			0	1		1			0	1		1
<b>Totals:</b>	3	0	3	15	7	22	2	0	2	11	7	18	2	0	2	11	7	18
<b>Grand totals:</b>	25						20						20					

Plant Community	Trail Segments																	
	Skylane Gap Option No. 3						Rubio Canyon Gap Option No. 1						Rubio Canyon Gap Option No. 2					
	Listed			Sensitive			Listed			Sensitive			Listed			Sensitive		
	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total	M	H	Total
Plants	2		2	6	1	7	2		2	6	1	7	2		2	6	1	7
Fish			0			0	1		1			0	1		1			0
Amphibians			0		1	1			0		1	1			0		1	1
Reptiles			0	2	2	4			0	4	2	6			0	4	2	6
Birds			0	2	3	5			0	4	3	7			0	3	3	6
Mammals			0	1		1			0	1		1			0	1		1
<b>Totals:</b>	2	0	2	11	7	18	3	0	3	15	7	22	3	0	3	14	7	21
<b>Grand totals:</b>	20						25						24					

**KEY:**

M = Moderate potential to occur

H = High potential to occur

Appendix D continued

Plant Community	Trail Segments											
	Rubio Canyon Gap Option No. 3						Loma Alta Trail					
	Listed			Sensitive			Listed			Sensitive		
	M	H	Total	M	H	Total	M	H	Total	M	H	Total
Plants	2		2	6	1	7	2		2	6	1	7
Fish			0			0			0			0
Amphibians			0		1	1			0			0
Reptiles			0	2	2	4			0	2	2	4
Birds			0	2	3	5			0	1	3	4
Mammals			0	1		1			0	1		1
<b>Totals:</b>	2	0	2	11	7	18	2	0	2	10	6	16
<b>Grand totals:</b>	<b>20</b>						<b>18</b>					

**KEY:**

M = Moderate potential to occur

H = High potential to occur