

Appendix 4.3 Special Status Species

Table 1
Special-Status Plants Known to Occur Within 10 Miles of the Downtown Specific Plan Area

Family Taxon Common Name	Status*	Flowering Period	Habitat	Area Locations	Probability on Project Site
Asteraceae					
<i>Aster lentus</i> Suisun Marsh aster	Fed: -- State: - CNPS: List 1B.2	May-November	Marshes and swamps (brackish and fresh water). Endemic to Sac/San Joaquin river delta. Most often seen along sloughs with common reed, tule, cattail and blackberry. Elevation 0-3 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Balsamorhiza macrolepis macrolepis</i> Big-scale balsam-root	Fed: - State: - CNPS: List 1B.2	March-June	Chaparral, cismontane woodland; valley and foothill grassland; [sometimes serpentinite]. Elevation 90-1400 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Blennosperma bakeri</i> Sonoma sunshine	Fed: FE State: CE CNPS: List 1B.1	March-May	Valley and foothill grassland (mesic); vernal pools. Elevation 10-110 meters	No CNDDDB records within the Specific Plan or General Plan Areas.	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Centromadia parryi parryi</i> Pappose tarplant	Fed: - State: - CNPS: List 1B.2	May-November	Chaparral; coastal prairie; meadows and seeps; marshes and swamps (coastal salt); valley and foothill grassland (vernally mesic, and often alkaline). Elevation 2-420 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No salt marsh within Specific Plan Area. No alkaline soils within Specific Plan Area. Not expected to occur
<i>Cirsium andersonii</i> Thistle	Fed: - State: - CNPS: List 1B	March-July	Broadleaved upland forest, coastal bluff scrub, coastal prairie, coastal scrub / mesic, sometimes serpentinite; elevation 0-135 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Erigeron biolettii</i> Bioletti's daisy	Fed: - State: - CNPS: List 3	June-October	Broad-leaved upland forest; cismontane woodland; northern coniferous forest [rocky, mesic]. Elevation 30-1100 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area.
<i>Hemizonia congesta leucocephala</i> Hayfield tarplant	Fed: - State: - CNPS: List 3	April-October	Coastal scrub; valley and foothill grassland (sometimes roadsides); elevation 25-455 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Lasthenia burkei</i> Burke's goldfields	Fed: FE State: CE CNPS: List 1B.1	April-June	Meadows (mesic); vernal pools. Elevation 15-600 meters.	No CNDDDB records within the Specific Plan and General Plan Areas.	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Lasthenia conjugens</i> Contra Costa goldfields	Fed: FE State: - CNPS: List 1B.1	March-June	Valley and foothill grasslands, mesic vernal pools, alkaline playas, cismontane woodlands. Occurs in swales, low depressions in open grassy areas. Elevation 0-470 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Lasthenia macrantha bakeri</i> Baker's Goldfields	Fed: - State: - CNPS: List 1B.2	April-October	Closed-cone coniferous forest (openings), meadows and seeps; marshes and swamps; coastal scrub; elevation 60-520 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Layia septentrionalis</i> Colusa layia	Fed: - State: - CNPS: List 1B.2	April-May	Chaparral; cismontane woodland, valley and foothill grassland; [sandy, serpentinite]. Elevation 100-1095 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Lessingia hololeuca</i> Woolly-headed lessingia	Fed: - State: - CNPS: List 3	June-October	Coastal scrub; broadleafed upland forest; lower montane coniferous forest; valley and foothill grassland; [clay, serpentinite]. Elevation 15-305 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Micropus amphibolus</i> Mount Diablo cottonweed	Fed: - State: - CNPS: List 3.2	March-May	Broadleafed upland forest; chaparral; cismontane woodland; valley and foothill grassland (rocky). Elevation 45-825 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
Boraginaceae					
<i>Amsinckia lunaris</i> Bent-flowered fiddleneck	Fed: - State: - CNPS: List 1B.2	March-June	Coastal bluff scrub; cismontane woodland, valley and foothill grassland; elevation 3-500 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
Campanulaceae					
<i>Campanula californica</i> Swamp bellflower	Fed: -- State: - CNPS: List 1B.2	June-October	Bogs & fens; closed-cone coniferous forest; coastal prairie; meadowsand seeps; marshes & swamps (freshwater); north coast coniferous forest (mesic); elevation 1-405 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area.

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<i>Downingia pusilla</i> Dwarf downingia	Fed: - State: - CNPS: List 2.2	March-May	Valley and foothill grassland (mesic); vernal pools. Elevation below 445 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Legenere limosa</i> Legenere	Fed: -- State: - CNPS: List 1B.1	April-June	Vernal pools. Elevation 1-880 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
Cyperaceae					
<i>Carex albida</i> White sedge	Fed: FE State: CE CNPS: List 1B.1	May-July	Bogs and fens; marshes and swamps (freshwater). Elevation 15-90 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Ericaceae					
<i>Arctostaphylos canescens sonomensis</i> Sonoma manzanita	Fed: - State: - CNPS: List 1B.2	January-June	Chaparral; lower montane coniferous forest [sometimes serpentine]. Elevation 180-1675 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Arctostaphylos densiflora</i> Vine Hill manzanita	Fed: - State: CE CNPS: List 1B.1	February-April	Chaparral (acid marine sand). Elevation 50-120 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Arctostaphylos stanfordiana decumbens</i> Rincon manzanita	Fed: - State: - CNPS: List 1B.1	February-April	Chaparral (rhyolitic); cismontane woodland. Elevation 75-370 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Fabaceae					
<i>Amorpha californica napensis</i> California indigobush	Fed: - State: - CNPS: List 1B.2	April-July	Broad-leaved upland forest (openings); chaparral; cismontane woodland; elevation 120-2000 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Astragalus tener tener</i> Alkali milkvetch	Fed: - State: - CNPS: List 1B.2	March-June	Alkali playa, valley and foothill grassland (adobe clay), alkaline vernal pools. Low ground and flooded lands. Elevation 1-60 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Geraniaceae					
<i>California macrophylla</i> Large-leaf storksbill	Fed: - State: - CNPS: List 1B.1	March-May	Valley and foothill grassland, cismontane woodland. Elevation range 15-1200 meters. Found in open habitats with friable clay soils.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
Liliaceae					
<i>Allium peninsulare franciscanum</i> San Francisco onion	Fed: - State: - CNPS: List 1B.2	May-June	Cismontane woodland, valley and foothill grassland / clay, often serpentinite; elevation 100-300 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.

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<i>Brodiaea californica leptandra</i> Narrow-anthered California brodiaea	Fed: -- State: - CNPS: List 1B.2	May-July	Broadleaved upland forest, cismontane woodland, chaparral, lower montane coniferous forest, valley and foothill grassland (volcanic). Elevation 110-915 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Fritillaria liliacea</i> Fragrant fritillary	Fed: -- State: - CNPS: List 1B.2	February-April	Cismontane woodland; coastal prairie; coastal scrub; valley and foothill grassland; [often serpentinite]. Elevation 3-410 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Lilium pardalinum pitkinense</i> Pitkin Marsh lily	Fed: FE State: CE CNPS: List 1B.1	June-July	Cismontane woodland (mesic); meadows and seeps; marshes and swamps (freshwater)[mesic, sandy]. Elevation 35-65 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Limnanthaceae					
<i>Limnanthes vinculans</i> Sebastopol meadowfoam	Fed: FE State: CE CNPS: List 1B.1	April-May	Meadows (mesic); valley and foothill grassland; vernal pools. Elevation 15-305 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
Onagraceae					
<i>Clarkia imbricata</i> Vine Hill clarkia	Fed: FE State: CE CNPS: List 1B.1	June-August	Chaparral; meadows; grassland (acidic sand). Elevation 50-75 meters. Known from only two populations in grassland habitat in Sonoma County. One is natural, one was propagated from cuttings by CNPS (USFWS web site).	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.

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Poaceae					
<i>Alopecurus aequalis sonomensis</i> Sonoma alopecurus	Fed: FE State: - CNPS: List 1B.1	May-July	Marshes & swamps (freshwater); riparian scrub. Elevation 5-365 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. This plant was not observed during appropriately timed surveys. No impacts to this species expected from future development proposals.
<i>Calamagrostis crassiglumis</i> Thurber's reed grass	Fed: -- State: - CNPS: List 2.1	May-July	Coastal scrub (mesic); marshes and swamps (freshwater). Elevation 10-45 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Polemoniaceae					
<i>Gilia capitata tomentosa</i> Globe gilia	Fed: - State: - CNPS: List 1B.1	May-July	Coastal bluff scrub (rocky, outcrops). Elevation 15-155 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Leptosiphon jepsonii</i> Jepson's leptosiphon	Fed: - State: - CNPS: List 1B.2	April-May	Chaparral; cismontane woodland (typically volcanic soils). Elevation 100-500 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Polygonaceae					
<i>Chorizanthe valida</i> Sonoma spineflower	Fed: FE State: CE CNPS: List 1B.1	June-August	Coastal prairie (sandy). Elevation 10-305 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Eriogonum luteolum caninum</i> Tiburon buckwheat	Fed: - State: - CNPS: List 3.2	May-September	Chaparral; coastal prairie; valley and foothill grassland; [serpentinite]. Elevation 10-500 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	No suitable habitat within Specific Plan Area.
Ranunculaceae					
<i>Delphinium bakeri</i> Baker's larkspur	Fed: FE State: CR CNPS: List 1B.1	March-May	Coastal scrub, broadleafed upland forest, valley and foothill grassland; elevation 80-305 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Delphinium luteum</i> Yellow larkspur	Fed: FE State: CR CNPS: List 1B.1	March-May	Chaparral; coastal prairie; coastal scrub; elevation 0-100 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Rhamnaceae					
<i>Ceanothus confusus</i> Rincon Ridge ceanothus	Fed: -- State: - CNPS: List 1B.1	February-June	Closed-cone coniferous forest; chaparral; cismontane woodland; [volcanic or serpentinite]. Elevation 75-1065 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Ceanothus divergens</i> Calistoga ceanothus	Fed: -- State: - CNPS: List 1B.2	February-March	Chaparral (serpentinite or volcanic). Elevation 170-950 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Ceanothus foliosus vineatus</i> Vine Hill ceanothus	Fed: -- State: - CNPS: List 1B.1	March-May	Chaparral. Elevation 45-305 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Ceanothus masonii</i> Mason's ceanothus	Fed: -- State: CR CNPS: List 1B.2	March-April	Chaparral (serpentinite, rocky). Elevation 430-500 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Ceanothus sonomensis</i> Sonoma ceanothus	Fed: -- State: - CNPS: List 1B.2	February-April	Chaparral (sandy, serpentinite, or volcanic). Elevation 215-800 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
Rosaceae					
<i>Horkelia tenuiloba</i> Thin-lobed horkelia	Fed: - State: - CNPS: List 1B.2	May-July	Broadleafed upland forest, chaparral, valley and foothill grasslands (mesic openings, sandy). Elevation 50-500 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area.
Scrophulariaceae					
<i>Castilleja uliginosa</i> Pitkin Marsh Indian paintbrush	Fed: -- State: CE CNPS: List 1A	June-July	Marshes and swamps (freshwater). Elevation 60 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

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<i>Cordylanthus maritimus palustris</i> Point Reyes bird's-beak	Fed: -- State: - CNPS: List 1B.2	June-October	Marshes and swamps (coastal salt); elevation 0-10 meters	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area
<i>Cordylanthus mollis mollis</i> Soft bird's-beak	Fed: FE State: CR CNPS: List 1B.2	July-November	Coastal salt marshes. Elevation 0-3 meters.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within Specific Plan Area

***Status**

Federal:

- FE - Federal Endangered
- FT - Federal Threatened
- FPE - Federal Proposed Endangered
- FPT - Federal Proposed Threatened
- FC - Federal Candidate

State:

- CE - California Endangered
- CT - California Threatened
- CR - California Rare
- CC - California Candidate
- CSC - California Species of Special Concern

CNPS:

- List 1A - Presumed extinct in California
- List 1B - Plants rare, threatened, or endangered in California and elsewhere
- List 1B.1 - Seriously endangered in California (over 80% occurrences threatened/
high degree and immediacy of threat)
- List 1B.2 - Fairly endangered in California (20-80% occurrences threatened)
- List 1B.3 - Not very endangered in California (<20% of occurrences threatened or no
current threats known)

CNPS Continued:

- List 2 - Plants rare, threatened, or endangered in California, but more common
elsewhere
- List 2.1 - Seriously endangered in California, but more common elsewhere
- List 2.2 - Fairly endangered in California, but more common elsewhere
- List 2.3 - Not very endangered in California, but more common elsewhere
- List 3 - Plants about which we need more information (Review List)
- List 3.1 - Plants about which we need more information (Review List)
Seriously endangered in California
- List 3.2 - Plants about which we need more information (Review List)
Fairly endangered in California
- List 4 - Plants of limited distribution - a watch list

Table 2
Plants Observed Within the Specific Plan Area

Gymnosperms

Taxodiaceae

Sequoia sempervirens Redwood

Angiosperms - Dicots

Apiaceae

**Conium maculatum* Poison hemlock
 **Daucus carrota* Queen Anne's lace
 **Foeniculum vulgare* sweet fennel

Apocynaceae

**Vinca major* Periwinkle

Asteraceae

**Anthemis cotula* Mayweed
Baccharis pilularis Coyote brush
 **Carduus pycnocephalus* Italian thistle
 **Centaurea solstitialis* Yellow star-thistle
 **Chamomilla suaveolens* Pineapple-weed
 **Cichorium intybus* Chicory
 **Cirsium vulgare* bull thistle
Conyza canadensis Horseweed
 **Cynara cardunculus* Artichoke thistle
 **Gnaphalium luteo-album* Weedy cudweed
 **Hypochaeris radicata* rough cat's-ear
 **Lactuca saligna* Willow lettuce
 **Lactuca serriola* prickly lettuce
Lasthenia glaberrima Smooth goldfields
Madia sativa Coast tarweed
 **Picris echioides* bristly ox-tongue
 **Senecio vulgaris* Common groundsel
 **Sonchus asper asper* Prickly sow-thistle
 **Sonchus oleraceus* common sow-thistle
 **Tragopogon porrifolius* Salsify
Xanthium spinosum Spiny cocklebur
Xanthium strumarium Cocklebur

Brassicaceae

**Brassica nigra* Black mustard
 **Hirschfeldia incana* Short-podded mustard
Lepidium nitidum nitidum Peppergrass
 **Raphanus raphanistrum* jointed charlock
 **Raphanus sativus* Wild radish
Rorippa curvisiliqua Western yellow cress
Rorippa nasturtium-aquaticum Water cress
 **Sinapis arvensis* Charlock

Caryophyllaceae

**Cerastium glomeratum* Mouse-ear chickweed

* Indicates a non-native species

* <i>Polycarpon tetraphyllum</i>	Four-leaved allseed
* <i>Spergularia rubra</i>	Ruby sand-spurrey
* <i>Stellaria media</i>	Common chickweed
Convolvulaceae	
* <i>Convolvulus arvensis</i>	Bindweed
Euphorbiaceae	
* <i>Chamaesyce maculata</i>	Spotted spurge
Fabaceae	
* <i>Lathyrus tingitanus</i>	Tangier pea
* <i>Lotus corniculatus</i>	birdfoot trefoil
<i>Lotus humistratus</i>	Woolly trefoil
<i>Lupinus bicolor</i>	Miniature lupine
* <i>Medicago polymorpha</i>	California burclover
* <i>Melilotus indica</i>	Sour clover
* <i>Trifolium dubium</i>	Little hop clover
<i>Trifolium fucatum</i>	Sour clover
* <i>Trifolium hirtum</i>	Rose clover
* <i>Trifolium incarnatum</i>	Crimson clover
* <i>Trifolium subterraneum</i>	Subterranean clover
* <i>Vicia benghalensis</i>	Purple vetch
* <i>Vicia sativa</i>	common vetch
* <i>Vicia villosa villosa</i>	Hairy vetch
Fagaceae	
<i>Quercus agrifolia agrifolia</i>	Coast live oak
<i>Quercus kelloggii</i>	California black oak
<i>Quercus lobata</i>	Valley oak
<i>Quercus wislizeni wislizeni</i>	Interior live oak
Geraniaceae	
* <i>Erodium botrys</i>	broad-leaf filaree
* <i>Erodium cicutarium</i>	Red-stem filaree
* <i>Erodium moschatum</i>	White-stem filaree
* <i>Geranium dissectum</i>	cut-leaf geranium
Lythraceae	
* <i>Lythrum hyssopifolium</i>	Hyssop loosestrife
Malvaceae	
* <i>Malva nicaensis</i>	Bull mallow
* <i>Malva parviflora</i>	Cheeseweed
Myrtaceae	
* <i>Eucalyptus globulus</i>	Blue gum
Onagraceae	
<i>Epilobium brachycarpum</i>	Summer cottonweed
<i>Epilobium ciliatum ciliatum</i>	Hairy willow-herb
<i>Epilobium minutum</i>	Chaparral cottonweed
Papaveraceae	
<i>Eschscholzia californica</i>	California poppy
Plantaginaceae	
* <i>Plantago lanceolata</i>	English plantain
* <i>Plantago major</i>	Common plantain

Platanaceae

Platanus racemosa Western sycamore

Polygonaceae

**Polygonum arenastrum* common knotweed
Polygonum sp. knotweed
**Rumex acetosella* Sheep sorrel
**Rumex conglomeratus* Green dock
**Rumex crispus* curly dock
**Rumex pulcher* Fiddle dock

Portulacaceae

**Portulaca oleracea* Common purslane

Ranunculaceae

Ranunculus californicus California buttercup
**Ranunculus muricatus* Spiny-fruited buttercup

Rosaceae

Heteromeles arbutifolia Toyon
**Prunus sp.* Prunus
**Rosa sp.* Rose
**Rubus discolor* Himalayan blackberry

Rubiaceae

**Galium aparine* Goose grass

Salicaceae

Populus fremontii fremontii Fremont cottonwood
Populus sp. Cottonwood
**Salix babylonica* Weeping willow
Salix lasiolepis lasiolepis Arroyo willow

Scrophulariaceae

**Parentucellia viscosa* Parentucellia
Triphysaria eriantha eriantha Butter-and-eggs

Solanaceae

Solanum americanum Black nightshade

Verbenaceae

Phyla nodiflora nodiflora Common frog-fruit

Zygophyllaceae

**Tribulus terrestris* Puncture vine

Angiosperms -Monocots

Alismataceae

Alisma plantago-aquatica Water plantain

Araceae

**Zantedeschia aethiopica* Calla-lily

Cyperaceae

Cyperus eragrostis Tall flatsedge
Eleocharis macrostachya creeping spikerush

Juncaceae

Juncus bufonius toad rush
Juncus patens Common rush
Juncus phaeocephalus phaeocephalus Brown-head rush

Poaceae

* <i>Arundo donax</i>	Giant reed
* <i>Avena barbata</i>	slender wild oat
* <i>Avena fatua</i>	Wild oat
* <i>Briza maxima</i>	Quaking grass
* <i>Briza minor</i>	Small quaking grass
<i>Bromus carinatus carinatus</i>	California brome
* <i>Bromus diandrus</i>	ripgut grass
* <i>Bromus hordeaceus</i>	soft chess
* <i>Bromus stamineus</i>	Brome
* <i>Cortaderia jubata</i>	Pampas grass
* <i>Cynodon dactylon</i>	Bermuda grass
<i>Danthonia californica californica</i>	California oatgrass
* <i>Holcus lanatus</i>	Common velvet grass
<i>Hordeum brachyantherum</i>	Meadow barley
* <i>Hordeum marinum gussoneanum</i>	Mediterranean barley
* <i>Hordeum murinum leporinum</i>	Foxtail barley
<i>Leymus triticoides</i>	Creeping wildrye
* <i>Lolium multiflorum</i>	Italian ryegrass
* <i>Paspalum dilatatum</i>	Dallis grass
* <i>Phalaris aquatica</i>	Harding grass
<i>Pleuropogon californicus</i>	Annual semaphore grass
* <i>Poa annua</i>	annual bluegrass
* <i>Poa trivialis</i>	Rough bluegrass
* <i>Polypogon monspeliensis</i>	Annual beard grass
* <i>Vulpia bromoides</i>	six-weeks brome grass
* <i>Vulpia myuros myuros</i>	Rat-tail fescue

Typhaceae

<i>Typha latifolia</i>	broad-leaved cattail
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Table 3

Special-Status Animals Known to Occur Within 10 Miles of the DSP Area

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Invertebrates				
California freshwater shrimp <i>Syncaris pacifica</i>	Fed: FE State: CE Other:	Endemic to Marin, Napa, and Sonoma counties in low gradient streams with moderate to heavy riparian canopy. Needs shallow pools away from the main stream flow. Prefers undercut banks with exposed roots.	Records in the CNDDDB within 10 miles of the City of Cotati, yet no records for this shrimp within the City's creeks.	None. Laguna de Santa Rosa within the DSP area and Cotati Creek are both channelized and do not provide habitat for this shrimp.
Fish				
Steelhead - Central California Coast ESU <i>Oncorhynchus mykiss</i>	Fed: FT State: - Other: -	From Russian River south to Soquel Creek, and to Pajaro River. Also found in San Francisco & San Pablo Bay Basins. Spawn in clear, cool, well oxygenated streams greater than 18 cm deep.	Records in the CNDDDB within 10 miles of the City of Cotati	Low. No records from Cotati Creek which runs through DSP area. Known to migrate along Laguna de Santa Rosa which is at northern tip of DSP area (D. Logan, NMFS, pers. comm. with S. Lynch, 1/4/06). See text.
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	Fed: State: CSC Other:	Endemic to the lakes and rivers of the Central Valley; now confined to the delta, Suisun Bay, and associated marshes. Inhabits slow moving river sections and dead-end sloughs. Needs flooded vegetation for spawning.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within DSP area. No impacts to this species expected.
Amphibians				
California tiger salamander <i>Ambystoma californiense</i>	Fed: FT State: CSC Other:	Found in grassland habitats of the valleys and foothills. Requires burrows for aestivation and standing water until late spring (May) for larvae to metamorphose.	Records in the CNDDDB within 10 miles of the City of Cotati	Low to moderate. Species must be addressed within DSP area. See text and figures for USFWS parcel designations.
California red-legged frog <i>Rana aurora draytonii</i>	Fed: FT State: CSC Other:	Occurs in lowlands and foothills in deeper pools and streams, usually with emergent wetland vegetation. Requires 11-20 weeks of permanent water for larval development.	Records in the CNDDDB within 10 miles of the City of Cotati	None. The portion of Laguna de Santa Rosa within the DSP area and Cotati Creek do not provide suitable habitat for this frog. Hence, it is not expected to occur and no impacts to this species are expected.

Table 3

Special-Status Animals Known to Occur Within 10 Miles of the DSP Area

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Foothill yellow-legged frog <i>Rana boylei</i>	Fed: -- State: CSC Other:	Found in partially shaded, shallow streams with rocky substrates. Needs some cobble-sized rocks as a substrate for egg laying. Requires water for 15 weeks for larval transformation.	Records in the CNDDDB within 10 miles of the City of Cotati	None. Not known to occur in the Cotati area. Cotati Creek is channelized; no suitable habitat for this frog within the DSP area. No impacts to this species expected.
Reptiles				
Northern Pacific Pond Turtle <i>Actinemys marmorata marmorata</i>	Fed: -- State: CSC Other:	Associated with permanent or nearly permanent water in a wide variety of habitats. Requires basking sites. Nests sites may be found up to 0.5 km from water. Occurs in the North Bay up to western Washington.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within DSP area.
Birds				
White-tailed kite <i>Elanus leucurus</i>	Fed: State: Other: *	Found in lower foothills and valley margins with scattered oaks and along river bottomlands or marshes adjacent to oak woodlands. Nests in trees with dense tops.	Several confirmed nesting locations in the Cotati area (Sonoma County Breeding Bird Atlas; Burrige 1995)).	Moderate. Suitable habitat occurs within the DSP area. Surveys would be necessary. See text.
Cooper's hawk <i>Accipiter cooperii</i>	Fed: - State: CSC Other: *	Nests in heavily wooded areas along streams, rivers, or near springs/seeps. Prefers to nest in tall canopies with an open understory usually near openings. Oak and riparian woodlands are preferred habitats.	Known to nest in Sonoma County.	None. No suitable habitat nesting occurs within DSP area.
Red shouldered hawk <i>Buteo lineatus</i>	Fed: - State: - Other: *	Found in a wide variety of habitats. Nest in oaks, eucalyptus, cypress trees, riparian woodland. Forages over grasslands, agricultural fields, woodlands.	Many confirmed nest locations in the Cotati area (Sonoma County Breeding Bird Atlas; Burrige 1995).	Moderate. Suitable habitat occurs within DSP area. Surveys would be necessary.

Table 3
Special-Status Animals Known to Occur Within 10 Miles of the DSP Area

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Red-tailed hawk <i>Buteo jamaicensis</i>	Fed: - State: - Other: *	Found in a wide variety of habitats. Nests in oaks, eucalyptus, cypress trees, among others. Forages over grasslands, agricultural fields, woodlands, marshes.	Many confirmed nest locations in the Cotati area (Sonoma County Breeding Bird Atlas: Burrige 1995).	Moderate. Suitable habitat occurs within DSP area. Surveys would be necessary.
California yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	Fed: State: CE Other:	Riparian forest nester along broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods w/ lower story of blackberry, nettles, or wild grape.	Historic records in the CNDDDB within 10 miles of the City of Cotati	None. No dense riparian habitats present in the DSP area; No suitable habitat.
Western burrowing owl <i>Athene cucicularia hypugaea</i>	Fed: -- State: CSC Other: *	Found in open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	No longer believed to breed in Sonoma County. May winter there, however (Burrige 1995). Records in the CNDDDB within 10 miles of the City of Cotati.	Low. While suitable habitat occurs within DSP area, there is only a low probability it would nest there. Regardless, surveys would be necessary to ensure "take" of this owl does not occur.
Loggerhead shrike <i>Lanius ludovicianus</i>	Fed: -- State: CSC Other:	Found in broken woodlands, shrubland, and other habitats. Prefers open country with scattered perches for hunting and fairly dense brush for nesting.	Known to occur throughout the Cotati area with several confirmed nest records (Sonoma County Breeding Bird Atlas; Burrige 1995).	Low to none. This bird typically nests away from people in more open areas than the DSP area provides. Unlikely to occur onsite.
Saltmarsh common yellowthroat <i>Geothlypis trichas sinuosa</i>	Fed: -- State: CSC Other:	Resident of freshwater and salt water marshes in the San Francisco Bay region. Requires thick, continuous cover for foraging and tall grasses, tules, or willows for nesting.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within DSP area.
San Pablo song sparrow <i>Melospiza melodia samuelis</i>	Fed: -- State: CSC Other:	Resident of salt marshes along the north side of San Francisco and San Pablo Bays. Inhabits tidal sloughs in the California marshes; nests in grindelia bordering slough channels.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within DSP area.

Table 3

Special-Status Animals Known to Occur Within 10 Miles of the DSP Area

Species	*Status	Habitat	Closest Locations	Probability on Project Site
Mammals				
Pallid bat <i>Antrozous pallidus</i>	Fed: - State: CSC Other:	Occurs in deserts, grasslands, shrublands, woodlands, and forests. Most common in dry habitats with rocky areas for roosting.	Records in the CNDDDB within 10 miles of the City of Cotati	Low to moderate. Suitable habitat occurs within DSP area. Surveys would be necessary. See text.
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	Fed: FE State: CE Other: *	Inhabits saline emergent wetlands in the San Francisco Estuary. Prefers pickleweed marshes. Requires higher areas for escaping high water.	Records in the CNDDDB within 10 miles of the City of Cotati	None. No suitable habitat within DSP area.
American badger <i>Taxidea taxus</i>	Fed: - State: CSC Other:	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Need sufficient food, friable soils & open, uncultivated ground. Prey on burrowing rodents. Dig burrows.	Records in the CNDDDB within 10 miles of the City of Cotati	None. The badger requires wide-open lands for foraging. The DSP area does not provide the habitat components necessary for this species. The badger is not expected within the DSP area.

***Status**

Federal:
 FE - Federal Endangered
 FT - Federal Threatened
 FPE - Federal Proposed Endangered
 FPT - Federal Proposed Threatened
 FC - Federal Candidate
 FPD - Federally Proposed for delisting

State:
 CE - California Endangered
 CT - California Threatened
 CR - California Rare
 CC - California Candidate
 CSC - California Species of Special Concern

*Other:
 Most birds have protection under the Migratory Bird Treaty Act. Raptors and their nests are protected by provisions of the California Fish and Game Code. A few species, such as the monarch butterfly and "California Fully Protected Animals," may be protected by policies of the California Department of Fish and Game.

Table 4
Animals Observed Within the Specific Plan Area

Amphibians

California tiger salamander	<i>Ambystoma californiense</i>
arboreal salamander	<i>Aneides lugubris</i>
Pacific slender salamander	<i>Batrachoseps pacificus</i>
Western toad	<i>Bufo boreas</i>
Pacific tree frog	<i>Hyla regilla</i>

Reptiles

Western fence lizard	<i>Sceloporus occidentalis</i>
Sharp-tailed snake	<i>Contia tenuis</i>
Racer	<i>Coluber constrictor</i>
California kingsnake	<i>Lampropeltis getula</i>
Western terrestrial garter snake	<i>Thamnophis elegans</i>
Western aquatic garter snake	<i>Thamnophis couchii</i>
Western rattlesnake	<i>Crotalus viridis</i>

Birds

Domestic goose	<i>Anser domesticus</i>
Mallard	<i>Anas platyrhynchos</i>
Bufflehead	<i>Bucephala albeola</i>
Red shouldered hawk	<i>Buteo lineatus</i>
Red-tailed hawk	<i>Buteo jamaicensis</i>
California quail	<i>Callipepla californica</i>
Rock dove	<i>Columba livia</i>
Mourning dove	<i>Zenaida macroura</i>
Barn owl	<i>Tyto alba</i>
Great Horned owl	<i>Bubo virginianus</i>
Western scrub jay	<i>Aphelocoma californica</i>
Northern mockingbird	<i>Mimus polyglottos</i>
European starling	<i>Sturnus vulgaris</i>
Wilson's warbler	<i>Wilsonia pusilla</i>
Dark-eyed junco	<i>Junco hyemalis</i>
Red-winged blackbird	<i>Agelaius phoeniceus</i>
Western meadowlark	<i>Sturnella neglecta</i>
Brewer's blackbird	<i>Euphagus cyanocephalus</i>
House finch	<i>Carpodacus mexicanus</i>
Lesser goldfinch	<i>Carduelis psaltria</i>
House sparrow	<i>Passer domesticus</i>

Mammals

Western gray squirrel	<i>Sciurus griseus</i>
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Botta's pocket gopher
Columbian black-tailed deer
Western harvest mouse
California meadow vole
Domestic dog
Feral cat

Thomomys bottae
Odocoileus hemionus columbianus
Reithrodontomys megalotis
Microtus californicus
Canis familiaris
Felis catus