KJELDSEN BIOLOGICAL CONSULTING Chris K. Kjeldsen Ph.D., Botany Daniel T. Kjeldsen B.S., Natural Resource Management 923 St. Helena Ave. Santa Rosa, CA 95404

Date:	October 14, 2009
<u>Project:</u>	Edward P. Fitts Lake Ridge Property Proposed Winery Use Permit
<u>Planning:</u>	Kelly J. Berryman Berryman & Montalbano P.O. Box 513 Calistoga, CA 94574
<u>Re:</u>	Preliminary Biological Site Review Fitts/Lake Ridge use permit application

INTRODUCTION

At the request of Kelly J. Berryman, Berryman & Montalbano, and the property owner an onsite biological review was conducted on the area proposed for development. The study areas consist of oak woodlands that interface with chaparral.

The study site is in Napa County, south of Lake Hennessey with access from State Highway 128 at 90 Long Ranch Long Ranch Road. The study site is within the Yountville Quadrangle. The project proposes the development of winery and infrastructure, waste disposal field, and cave. Plate I provides a site and location map of the property. Plate III shows the survey area.

PURPOSE

Our Preliminary Biological Assessment is being conducted to determine if the project (proposed winery, waste disposal field, and infrastructure) will have the potential to have a substantial adverse effect, either directly or through habitat modifications, on special-status species. Identify if the project will have an adverse effect on Riparian Habitat or Sensitive Natural Communities. Identify if the project will have a substantial adverse effect on federally protected wetlands as defined by section 404 of the Clean Water Act. Identify if the project will substantially interfere with native resident of migratory fish or wildlife species, or wildlife corridors within and across the property, and or native wildlife nursery sites.

METHODS

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An on site introduction to the project was made by Kelly J. Berryman, Berryman & Montalbano, on July 29, and follow up surveys of the site were conducted on October 7, 2009. Our study was made by walking opportunistic transects through the project site, and the surrounding environment. Our fieldwork focused on locating target organisms or suitable habitat for target organisms or indications that such habitat exists on the site.

Plants were identified in the field or specimens were collected, when necessary, for laboratory Typically blooming examples are required for examination with a binocular microscope. identification however, it is not the only method for identifying the presence of, or excluding the possibility of rare plants. Vegetative morphology and dried flower or fruit morphology, which may persist long after the blooming period, may also be used. Skeletal remains from previous season's growth can also be used for identification. Some species do not flower each year or only flower at maturity and therefore must be identified from vegetative characteristics. Algae, fungi, mosses, lichens, ferns, lycophyta and sphenophyta have no flowers and there are representatives from these groups that are now considered to be special-status species which require non-blooming identification. For some plants unique features such as the aromatic oils present are key indicator. For some trees and shrubs with unique vegetative characteristics flowering is not needed for proper identification. The vegetative evaluation as a function of field experience can be used to identify species outside of the blooming period to verify or exclude the possibility of special-status plants in a study area. Habitat is also a key characteristic for consideration of special-status species in a study area.

Many special-status species are rare in nature because of their specific often very narrow habitat or environmental requirements. Their presence is limited by very specific environmental conditions such as: hydrology, microclimate, soils, nutrients, interspecific and intraspecific competition, and aspect or exposure. In some situations special-status species particularly annuals may not be present each year and in this case one has to rely on skeletal material from pervious years. A site evaluation based on habitat or environmental conditions is therefore, a reliable method for including or excluding the possibility of special-status species in an area.

All plants observed (living and or remains from last season's growth) were recorded in field notes and the results presented in Appendix A.

Animals were identified in the field by their sight, sign, or call. Our field techniques consisted of surveying the area with binoculars and walking the perimeter of the project site.

Trees were surveyed to determine whether occupied raptor nests were present within the proximity of the project site (i.e., within a minimum 500 feet of the areas to be disturbed). Surveys consisted of scanning the trees on the project site (500 ft +) with binoculars searching for nest or bird activity. Our search was conducted from the project area and by walking under existing trees looking for droppings or nest scatter from nests that may be present that were not observable by binoculars.

Potential bat breeding habitat was surveyed for within 200 feet of the proposed project, by looking for roosting habitat rock outcrops, crevasses, and evidence of roosting.

Aerial photos were reviewed to look at the habitat surrounding the site and the potential for wildlife movement for adjoining properties onto and through the site.

SPECIAL-STATUS SPECIES SCOPING

Special-status species scoping for the project site considered the following resources (see attachments):

- California Native Plant Society List of Special-status Plants for the Quadrangle and Surrounding Quadrangles,
- Department of Fish and Game (DFG) California Natural Diversity Data Base (CNDDB) List of Special-status species for the Quadrangle, and
- Federal Endangered and Threatened Species that occur in the U.S.G.S. 7 1/2 Minute Quadrangle.

FINDINGS

The winery and waste disposal field are located in an Oak Woodland and Chaparral habitat. Cave Spoils will be hauled off site or place in an area permitted for vineyards surveyed in the spring of 2008 by Kjeldsen Biological Consulting.



Photo1. View of Proposed Winery Site.

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Photo2. View of area for proposed waste disposal field.

Habitat Types Present

Chaparral Chaparral habitat types are typically dominated by xerophytic shrub species with smallwaxy leaves. Chaparral plants are usually found in areas with Mediterranean climate that have shallow-rocky, low-nutrient soils, steep slopes, and a high degree of solar exposure. This combination of physical factors results in xeric edaphic conditions. Chaparral plant communities are adapted to fire, with cycles as frequent as 10 to 40 years between fires. In fact, most species require fire for seed germination and stump sprouting. The dominant plant species that define the chaparral habitat sub-type will be dependent on the soil substrate, such as serpentinite or volcanic geologic formations. Chaparral habitat types tend to be low in biotic diversity, as they do not provide rich habitat value. Chaparral communities are found usually on south facing slopes or areas where water is not retained in the soil profile. The characteristic shrubs are: Toxicodendron diversilobum, Baccharis pilularis, Chrysothamnus parryi ssp. latior, Arctostaphylos glandulosa ssp. glandulosa, Pickeringia montana, Quercus berberidifolia, Eriodictyon californicum, Ceanothus cuneatus var. cuneatus, Rhamnus californica. Rhamnus crocea, Adenostoma fasciculatum, Heteromeles arbutifolia, and Mimulus aurantiacus. Habitat value is increased with factors such as: seed production, variety of nesting habitat, variety of plant habitat (grass, shrub, tree, etc.), and variety of vegetative cover. Grasses, forbs, and trees are minor components of chaparral habitats. Note: as listed in the appendix, not all elements of the Oak Woodland community are present on the project site.

Oak Woodland or Cismontane Woodland This habitat type is a transition with the chaparral of the region. This plant community is characterized by the following trees: Quercus agrifolia, Quercus wislizeni, Arbutus menziesii, Umbellularia californica, and Pseudotsuga menziesii. The shrubs of this community consist of Arctostaphylos ssp., Ceanothus ssp., and Rosa californica. The property also contains Quercus douglasii with scattered Quercus kelloggii and occasional Pinus sabiniana, which in some classifications are placed as a separate plant community. Note: as listed in the appendix, not all elements of the Oak Woodland community are present on the project site.

Special-status Species

Table I. Analysis of potential "target" special-status plant species. The taxa included in the table are selected based on the DFG CNDDB Rare Find 3 records for occurrence within 5 miles of the project site (see Plate II) and potential local target species associated with the biotic community present.

Common Name	Scientific Name	Plant Habitat Association	Obs. On Site	Habitat Present	Flower Period	Justification for Negative Occurrence
Napa False Indigo	Amorpha californica var napensis	Cismontane Woodland	No	No	April- July	Requisite habitat absent on the site or in the immediate vicinity.
*Clara Hunt's Milk-Vetch	Astragalus clarianus	Cismontane Woodland, Valley and Foothill Grassland	No	No	March- April	Requisite micro-habitat, edaphic requirements, native vegetation associates and exposure not present.
*Narrow- anthered California Brodiaea	Brodiaea californica var. leptandra	Broadleaved upland forest, chaparral,	No	No	May- July	The density of the woodlands and chaparral reasonably preclude potential for presence.
*Small- flowered Calycandenia	Calycadenia micrantha	Cismontane Woodland, Valley/Foothill Grassland	No	No	June- Aug.	Requisite habitat and vegetation associates absent on the site or in the immediate vicinity.
Rincon Ridge Ceanothus	Ceanothus confusus	Chaparral	No	No	Feb March	The density of the woodlands and chaparral reasonably preclude potential for presence.
Calistoga Ceanothus	Ceanothus divergens	Chaparral serpentinite	No	No	Feb March	The density of the woodlands and chaparral reasonably preclude potential for presence.
*Holly- leaved Ceanothus	Ceanothus purpureus	Chaparral	No	No	Feb June	The density of the woodlands and chaparral reasonably preclude. potential for presence.

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Common	Scientific	Plant Habitat	Obs.	Habitat	Flower	Justification for
Name	Name	Association	On	Present	Period	Negative Occurrence
			Site			
Sonoma	Ceanothus	Chaparral,	No	No	Feb	The density of the
Ceanothus	sonomensis	Sandy			April	woodlands and chaparral
		Serpentinite or				reasonably preclude
		Volcanic				potential for presence.
Pappose	Centromedia	Grasslands	No	No	May-	Requisite habitat and
Tarplant	parryi ssp.			ſ	July	vegetation associates
	ruais					the immediate vicinity
*(Enigeron	Chaparral	No	No	Moy	Dequisite slope
Norrow	Erigeron organgi	Sementinite	INO	140	Sent	exposure edaphic habitat
leaved Daisy	greener	Serpentinte	l		Sept.	and vegetation associates
Icurca Daiby						absent on the site or in
						the immediate vicinity.
*Two-	Hesperolinon	Chaparral	No	No	May-	Requisite edaphic habitat
carpellate	bicarpellatum	Serpentinite			July	absent on the site or in
Western Flax						the immediate vicinity
						precludes presence.
*Napa	Hesperolinon	Chaparral	No	No	May-	Requisite edaphic habitat
Western Flax	serpentinum	Serpentinite			July	absent on the site
*0.1	7 .	Cient	NI-	NI-	A	precludes presence.
*Colusa	Layia	Cismontane	NO	INO	April-	Absence of edaphic
Layla	septentrionalis	Woouland, Valley/Foothill			Iviay	presence
		Grassland				presence.
		Serpentinite				
*Sebastopol	Limnanthes	Meadows and	No	No	April-	Requisite mesic habitat
Meadowfoam	vinculans	Seeps, Valley			May	absent on the site or in
		and Foothill				the immediate vicinity.
		Grassland,				
		Vernal Pools				
*Jepson's	*Leptosiphon	Chaparral,	No	No	April-	The density of the
Leptosiphon	jepsonii=	Cismontane			May	woodlands and chaparral
	Linanthus	Woodland				reasonably preclude
	Jepsonii	volcanic				potential for presence.
Cobb Mt	Luninus	Chaparral	No	No	March-	The density of the
Lupine	sericatus	Cismontane			June	woodlands and chaparral
Lapino		Woodland				reasonably preclude
				1		potential for presence.
*Sonoma	Penstemon	Cismontane	No	No	April-	The density of the
Beardtongue	<i>newberryi</i> var.	Woodland	1		August	woodlands and chaparral
	sonomensis		1			reasonably preclude
			l I	1		potential for presence.

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Common Name	Scientific Name	Plant Habitat Association	Obs. On Site	Habitat Present	Flower Period	Justification for Negative Occurrence
* Green Jewel-flower	Strepthanthus breweri var. hesperidis	Chaparral Openings, Serpentinite	No	No	May- June	Absence of edaphic conditions required for presence.

* Indicates taxa that are known to occur within five miles of the project site (see Plate II).

Table II. Analysis of potential "target" special-status plant species. The taxa included in the table are selected based on the DFG CNDDB Rare Find 3 records for occurrence within 5 miles of the project site (see Plate II)

Common Name	Scientific Name	Habitat	Potential for Project Site	Observed on or Around Project Site	Justification for Negative Findings
Northwestern Pond Turtle	Clemmys marmorata marmorata	Slow moving water or ponds	No	No	Lack of habitat.
Pallid Bat	Antrozous pallidus	Roosts in Buildings and Overhangs	May fly over	No	Lack of habitat.
Great Egret	Ardea alba	Feeds in open areas. Nests in colonies.	No May fly over.	No	Lack of Suitable Habitat for Nesting.
Great Blue Heron	Ardea herodias	Feeds in open areas. Nests in colonies.	No May fly over.	No	Lack of Suitable Habitat for Nesting.
White-Tailed Kite	Elanus leucurus	Nests in tall trees near water	No May fly over	No	Lack of Suitable Habitat for Nesting.
Bald Eagle	Haliaeetus leucocephalus	Nests near Water	May fly over	No	Lack of habitat.
Double-crested Cormorant	Phalacrocorax auritus	Aquatic	No	No	Lack of habitat.
Foothill Yellow-legged Frog	Rana boylii	Aquatic	No	No	Lack of habitat.

Known Special-status Species in the near vicinity of project are:

Holly-leaf Ceanothus (*Ceanothus purpureus*) is listed by the California Native Plant Society as a List 1B plant = Plants Rare, threatened, or endangered in California and elsewhere. The taxon does not have State or Federal listing. It is a localized endemic found on chaparral hillsides in Sonoma,

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Napa and Solano Counties. We found no evidence for the presence of this plant on or near the project site.

Napa Western Flax (*Hesperolinon serpentinum*) is listed by the California Native Plant Society as a List 1B plant = Plants Rare, threatened, or endangered in California and elsewhere. The taxon does not have State or Federal listing. This plant is known from property to the south of the project site. We found no evidence for the presence of this plant on or near the project site.

Napa Lomatium (*Lomatium repostum*) is currently listed by the California Native Plant Society as a list 4 plant = Plants of Limited Distribution - A Watch List. The taxon does not have State or Federal listing. We found no evidence for the presence of this plant on or near the project site

Unique or Sensitive Communities

Wetlands - No wetlands, vernal pools, or aquatic habitat were present on the proposed project site.

Tributaries to Waters of the U. S. - There are no Tributaries to Waters of the U. S. or drainages associated with the project site. There are no Napa County defined drainages on the project site. There is a "USGS Blue Line" creek below the project on the west side of the existing access road. This drainage below the property and off site would be a Napa County defined drainage.

Riparian Habitat - The project will not impact any riparian vegetation.

Trees – Oak trees will be removed. Oak replacement plantings on suitable areas of the property as replacement for the loss of Oak Woodland habitat should be considered.

Native Grassland - Indicators of native grassland are not present on the project site. Native bunchgrasses are found along the existing entrance road. The project will not impact any significant populations of native grasslands.

<u>Wildlife</u>

There are no identifiable wildlife corridors associated with the proposed project site. Wildlife will continue to move across and around the property. The project will not impact any migratory fish on or off site provided standard erosion control measures are implemented.

Very few burrows were observed, but small mammals and songbirds likely utilize habitats on the site for foraging and cover. No significant wildlife dens or burrows other than a pack rat nest were observed. No raptor nests were identified during our survey. We found no indications of nesting raptors on the site or in the near vicinity of the survey areas. We did not observe any nests, whitewash or nest droppings, perching or flying raptors in the area.

The project site does not contain any major natural roosting habitat for bat species i.e. mines, caves, riparian woodlands. There are no man-made structures that will be impacted by the proposed project that would contain roosting habitat. (i.e. bridges, barns, outbuildings.)

MITIGATION CONSIDERATIONS

Oak replacement plantings should be considered for reducing the impact to Oak Woodlands for removal of any oak trees greater than 6-inches. Three to one replacement plantings on suitable sites on the property of local genetic material is recommended.

It is recommended that a qualified biologist perform a raptor and nest search prior to any land clearing, tree removal or tree trimming if these activities occur between February 1 and July 31.

The construction phase of the project will require best management practices to prevent impacts of dust and erosion from the project.

SUMMARY

This preliminary Biological Site review did not find any evidence for special-status species known for the Quadrangle, surrounding Quadrangles, the property, or the region. The proposed project site does not contain vegetation associates, habitat or edaphic conditions, which would support special-status species. The project site does not contain any unique habitat, or unique plant populations.

The project will not interfere with native resident or migratory fish or wildlife species, wildlife corridors, and or native wildlife nursery sites. There is no bat roosting/breeding habitat on the project site. No raptor nests were observed on or near the project site.

The project will not impact any sensitive habitat, riparian vegetation, and wetlands or significantly impact any biological resource on the property or the area.

The loss of habitat (Oak Woodlands and Chaparral) for local wildlife is incremental but on a regional or local scale will be less than significant. The flora and fauna observed during our study are attached.

Should you have any questions, please do not hesitate to contact us at: Telephone (707) 544-3091, Email kjeldsen@sonic.net, or Fax (707) 575-8030.

Sincerely, Kjeldsen Biological Consulting

ATTACHMENTS

Plate I. Site and Location Map Plate II. DFG CNDDB Rare Find # Map Plate III. Aerial Photo

Species Observed DFG CNDDB Listed Species for the Quadrangle and Surrounding Quadrangles CNPS Listed Plant Species for the Quadrangle and Surrounding Quadrangles







Plate III. Aerial Photo / Survey Area

Plants Observed

The nomenclature for the list of plants found on the project study areas and the immediate vicinity follows: Brodo, Irwin M., Sylvia Duran Sharnoff and Stephen Sharnoff, 2001, for the lichens; Smith -1956, for the algae; Arora -1985, for the fungi; S Norris and Shevrock - 2004, for the mosses; Doyle and Stotler - 2006 for liverworts and hornworts and .Hickman-1993, for the vascular plants.

Habitat type indicates the general associated occurrence of the taxon on the project site or in nature.

Abundance refers to the relative number of individuals on the project site or in the region.

MAJOR PLANT GROUP		
Family		
Genus	Habitat Type	Abundance
Common Name		
NCN = No Common Name, * = Non-nati	ve, @= Voucher Specimen	
FUNGI		
Basidiomycota- Club Fungi		
POLYPORACEAE		
Stereum hirsutum	Woodlands on Dead Wood	Common
False Turkey Tail		
MOSSES		
MINACEAE Homelotheoium muttallii	Epiphytic on Trees	Common
NCN	Epipilytic on Tiees	Common
Orthotrichum lyellii Hook & Tayl. NCN	Woodlands, Upper Canopy	Common
Scleropodium touretii (Brid.) L Koo NCN	ch.Woodlands	Common
LICHENS		
FOLIOSE		
Flavoparmelia caperata NCN	On Oaks	Common
Flavopunctilia flaventor NCN	On Oaks	Common
Melanelixia glabera=Melanelia California Camouflauge Lic	On Oaks hen	Common
Parmelina coleae=Parmelina quero NCN	cina On Oaks	Common
Physcia adscendens NCN	On Oaks	Common
Xanthoria polycarpa NCN	On Oaks	Common

Family		
Genus	Habitat Type	Abundano
Common Name		
NCN = No Common Name, * = Non-nat	ive, @= Voucher Specimen	
FRUTICOSE		
Evernia prunastri NCN	On Oaks	Common
Ramalina farinacea NCN	On Oaks	Common
Ramalina menziesii NCN	On Oaks	Common
Usnea intermedia=U. arizonica NCN	On Oaks	Common
CRUSTOSE		~
Pertusaria armaria NCN	On Oaks	Common
VASCULAR PLANTS DIVISION PTE PTERIDACEAE	CROPHYTA	
Pentagramma triangularis Goldback Fern	Riparian or Shady Woodlands	Common
Pellaea andromedifolia Coffee Fern	Woodlands	Occasiona
VASCULAR PLANTS DIVISION COM PINACEAE	IFEROPHYTAGYMNOSPERM	<u>AS</u>
Pinus sabiniana	Dry Ridges	Occasiona
Digger Pine, Gray or Footh VASCULAR PLANTS DIVISION ANT CLASSDICOTYLEDONAE- TREES	ill Pine HOPHYTAANGIOSPERMS	
ERICACEAE	*** 11 1	0
Arbutus menziesii Madrone	woodlands	Common
Quercus agrifolia	Woodlands	Common
Quercus douglasii Blue Oak	Woodlands	Common
Quercus kelloggii Black Oak	Woodlands	Common
HIPPOCASTANACEAE Aesculus californica	Woodlands, Riparian	Common
California Buckeye LAURACEAE		
Umbellularia californica	Woodlands	Common

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MAJOR PLANT GROUP		15
Family		
Genus	Habitat Type	Abundance
Common Name		
NCN = No Common Name, * = Non-nativ	ve, @= Voucher Specimen	
VASCULAR PLANTS DIVISION ANTH	IOPHYTAANGIOSPERMS	
CLASSDICOTYLEDONAE-SHRUBS	AND WOODY VINES	
ANACARDIACEAE	XX7	Common
Ioxicodendron diversilobum	woodlands	Common
POISON UAK		
ASTEKACEAE Deceloria milularia	Waadlanda Graaslanda	Common
Baccharis pilularis	woodiands, Grassiands	Common
CADDIEOLIA CEA E		
L'ARRIFULIACEAE	Woodlands Diparian	Occasional
Lonicera hispiana val. vacinaris	woodands, Ripartan	Occasional
EDICACEAE		
Arctostanhulos manzanita sen manz	vanita Woodlands	Common
Arciosiaphylos manzanita Common Manzanita	anna woodiandis	Common
Adenostoma fasciculatum	Shrub/Scrub	Common
Chamise	Sindo/Serdo	Common
Heteromeles arbutifolia	Shrub/Scrub	Common
Christmas Berry Toyon	Sindo/Serdo	Common
SCROPHULARIACEAE		
Mimulus aurantiacus	Woodlands	Occasional
Bush Monkey Flower	Woodlands	Occusional
VASCULAR PLANTS DIVISION ANT	HOPHYTA ANGIOSPERMS	
CLASS-DICOTYLEDONAE-HERBS		
APIACEAE		
*Torilis arvensis	Grasslands Woodlands	Common
Hedge-parsley		_
ASTERACEAE		
Agoseris grandiflora	Woodlands	Occasional
Grand Mountain Dandelion		
*Centaurea solstitalis	Grasslands, Ruderal	Common
Yellow Star Thistle		
Grindelia camphorum var. camphor	<i>um</i> Grassland	Occasional
Gum Plant		
*Lactuca serriola	Ruderal	Occasional
Prickly Lettuce		
Wyethia glabra	Edge of Woodlands	Common
Coast Mules Ears		
BRASSICACEAE		
*Hirschfeldia incana (B. geniculata) Ruderal	Common
Summer Mustard		
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MAJOR PLANT GROUP		
Family		
Genus	Habitat Type	Abundance
Common Name		
NCN = No Common Name, * = Non-nativ	ve, @= Voucher Specimen	
EUPHORBIACEAE		
Eremocarpus setigerus	Ruderal	Common
Turkey Mullein, Dove Weed		
FABACEAE		
*Trifolium hirtum	Ruderal	Common
Rose Clover		
VASCULAR PLANTS DIVISION ANT	HOPHYTAANGIOSPERMS	
CLASSMONOCOTYLEDONAE-GRA	<u>SSES</u>	
POACEAE		
*Avena fatua	Grasslands	Common
Wild Oat		
*Bromus diandrus =(B. rigidus)	Ruderal, Grasslands	Common
Ripgut Grass		
Bromus laevipes	Conifer Forests	Common
Forest Brome		
Elymus glaucus ssp. glaucus	Woodlands	Common
Blue Wildrye		
Nassella lepida = (Stipa lepida)	Foothill Grasslands, Chaparral	Common
Foothill Needle Grass	-	
VASCULAR PLANTS DIVISION ANT	HOPHYTAANGIOSPERMS	
CLASSMONOCOTYLEDONAE-HER	<u>BS</u>	
IRIDACEAE		
Iris ssp.	Grasslands	Occasional
Long-tubed Iris		

Fauna Species Observed in the Vicinity of the Project Site

The nomenclature for the animals found on the project site and in the immediate vicinity follows: Mc Ginnis -1984, for the fresh water fishes; Stebbins -1985, for the reptiles and amphibians; and Udvardy and Farrand -1998, for the birds; and Jameson and Peeters -1988 for the mammals.

SOUAMATA

ORDER

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Western Fence Lizard	Sceloporus occidentalis	Х
MAMMALS		

Common Name	Genus	Observed
CARNIVORA		
Coyote	Canis latrans	Skat
CERVIDAE		
Black-tailed Deer	Odocoileus hemionus	Skat
INSECTIVORA		
Broad-footed Mole	Scapanus latimanus	Workings
DODENTIA		
KUDENIIA		~
Dusky-footed Wood Rat	Neotoma fuscipes	Den

DFG CNDDB Listed Species for the Quadrangle and Surrounding Quadrangles

CNPS Listed Plant Species for the Quadrangle and Surrounding Quadrangles

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California Pative Plant Society Plants v7-09d 10-07-09

Status: search results - Tue, Oct. 13, 2009 15:21 c

Your Quad Selection: Yountville (500A) 3812243, St. Helena (516C) 3812254, Chiles Valley (516D) 3812253, Capell Valley (499B) 3812242, Mount George (499C) 3812232, Lake Berryessa (515C) 3812252, Rutherford (500B) 3812244, Sonoma (500C) 3812234, Napa (500D) 3812233

scientific	common	family	CNPS
Allium peninsulare var. franciscanum 🛱	Franciscan onion	Liliaceae	List 1B.2
Amorpha <u>californica</u> var. <u>napensis</u> 📾	Napa false indigo	Fabaceae	List 1B.2
<u>Arctostaphylos bakeri</u> ssp. <u>bakeri</u> 😂	Baker's manzanita	Ericaceae	List 1B.1
Arctostaphylos canescens ssp. <u>sonomensis</u>	Sonoma canescent manzanita	Ericaceae	List 1B.2
Astragalus claranus 😂	Clara Hunt's milk-vetch	Fabaceae	List 1B.1
<u>Astragalus tener</u> var. <u>tener</u> 🚳	alkali milk-vetch	Fabaceae	List 1B.2
Atriplex joaquiniana 🐯	San Joaquin spearscale	Chenopodiaceae	List 1B.2
Balsamorhiza macrolepis var. macrolepis 🚳	big-scale balsamroot	Asteraceae	List 1B.2
<u>Blennosperma bakeri</u> 🕸	Sonoma sunshine	Asteraceae	List 1B.1
<u>Brodiaea californica</u> var. <u>leptandra</u> 🏟	narrow-anthered California brodiaea	Liliaceae	List 1B.2
Calochortus pulchellus 🚳	Mt. Diablo fairy-lantern	Liliaceae	List 1B.2

<u>Calycadenia micrantha</u>	small-flowered calycadenia	Asteraceae	List 1B.2
Ceanothus confusus	Rincon Ridge ceanothus	Rhamnaceae	List 1B.1
Ceanothus divergens	Calistoga ceanothus	Rhamnaceae	List 1B.2
Ceanothus purpureus	holly-leaved ceanothus	Rhamnaceae	List 1B.2
Ceanothus sonomensis 🚳	Sonoma ceanothus	Rhamnaceae	List 1B.2
Chorizanthe valida 🖾	Sonoma spineflower	Polygonaceae	List 1B.1
<u>Cryptantha clevelandii</u> var. <u>dissita</u>	serpentine cryptantha	Boraginaceae	List 1B.1
Downingia pusilla 🕸	dwarf downingia	Campanulaceae	List 2.2
Erigeron biolettii 🚳	streamside daisy	Asteraceae	List 3
<u>Erigeron greenei</u>	Greene's narrow-leaved daisy	Asteraceae	List 1B.2
<u>Gilia capitata</u> ssp. <u>tomentosa</u>	woolly-headed gilia	Polemoniaceae	List 1B.1
Hemizonia <u>congesta</u> ssp. <u>congesta</u> 🛱	pale yellow hayfield tarplant	Asteraceae	List 1B.2
Hesperolinon bicarpellatum	two-carpellate western flax	Linaceae	List 1B.2
Hesperolinon breweri 🚳	Brewer's western flax	Linaceae	List 1B.2
Hesperolinon serpentinum	Napa western flax	Linaceae	List 1B.1
Horkelia tenuiloba 🛤	thin-lobed horkelia	Rosaceae	List 1B.2

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Juglans hindsii 🚳	Northern California black walnut	Juglandaceae	List 1B.1
Lasthenia conjugens 🚳	Contra Costa goldfields	Asteraceae	List 1B.1
Lathyrus jepsonii var. jepsonii 🏟	Delta tule pea	Fabaceae	List 1B.2
Lavia septentrionalis 🖾	Colusa layia	Asteraceae	List 1B.2
Leptosiphon jepsonii 🛱	Jepson's leptosiphon	Polemoniaceae	List 1B.2
Lilaeopsis masonii 🚳	Mason's lilaeopsis	Apiaceae	List 1B.1
Limnanthes vinculans 🕮	Sebastopol meadowfoam	Limnanthaceae	List 1B.1
Lupinus sericatus 👼	Cobb Mountain lupine	Fabaceae	List 1B.2
Micropus amphibolus 🍩	Mt. Diablo cottonweed	Asteraceae	List 3.2
<u>Monardella villosa</u> ssp. globosa ⁶³⁸	robust monardella	Lamiaceae	List 1B.2
<u>Navarretia leucocephala</u> ssp. <u>bakeri</u> 📾	Baker's navarretia	Polemoniaceae	List 1B.1
<u>Navarretia leucocephala</u> ssp. pauciflora ^{கு}	few-flowered navarretia	Polemoniaceae	List 1B.1
Navarretia rosulata 🚳	Marin County navarretia	Polemoniaceae	List 1B.2
Penstemon newberryi var. sonomensis	Sonoma beardtongue	Scrophulariaceae	List 1B.3
Rhynchospora californica	California beaked-rush	Cyperaceae	List 1B.1
<u>Sidalcea</u> <u>hickmanii</u> ssp.	Napa checkerbioom	Malvaceae	List

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napensis			1B.1
<u>Sidalcea hickmanii</u> ssp. <u>viridis</u> 🏟	Marin checkerbloom	Malvaceae	List 1B.3
<u>Sidalcea oregana</u> ssp. <u>hydrophila</u>	marsh checkerbloom	Malvaceae	List 1B.2
<u>Streptanthus breweri</u> var. <u>hesperidis</u> ⁶³⁸	green jewel-flower	Brassicaceae	List 1B.2
Symphyotrichum lentum 🛱	Suisun Marsh aster	Asteraceae	List 1B.2
Trichostema ruvatii 🚳	Napa bluecuris	Lamiaceae	List 1B.2
Trifolium amoenum 🚳	two-fork clover	Fabaceae	List 1B.1
<u>Trifolium depauperatum</u> var. <u>hydrophilum</u> ⁸³⁹	saline clover	Fabaceae	List 1B.2
Viburnum ellipticum 🕸	oval-leaved viburnum	Caprifoliaceae	List 2.3

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California Department of Fish and Game

Natural Diversity Database

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Selected Elements by Scientific Name - Yountville Quadrangle and Surrounding Quadrangles

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
1	Actinemys marmorata western pond turtle	ARAAD02030			G3G4	S3	SC
2	Agelaius tricolor tricolored blackbird	ABPBXB0020			G2G3	S2	SC
3	Allium peninsulare var. franciscanum Franciscan onion	PMLIL021R1			G5T2	S2.2	1B.2
4	Amorpha californica var. napensis Napa false indigo	PDFAB08012			G4T2	S2.2	1B.2
5	Antrozous pallidus pallid bat	AMACC10010			G5	S3	SC
6	Aquila chrysaetos golden eagle	ABNKC22010			G5	S3	
7	Arctostaphylos canescens ssp. sonomensis Sonoma canescent manzanita	PDER104066			G3G4T2	S2.1	1B.2
8	Ardea alba great egret	ABNGA04040			G5	S4	
9	Ardea herodias great blue heron	ABNGA04010			G5	S4	
10	Astragalus claranus Clara Hunt's milk-vetch	PDFAB0F240	Endangered	Threatened	G1	S1.1	1B.1
11	Astragalus tener var. tener alkali milk-vetch	PDFAB0F8R1			G1T1	S1.1	1B.2
12	Atriplex joaquiniana San Joaquin spearscale	PDCHE041F3			G2	S2	1B.2
13	Balsamorhiza macrolepis var. macrolepis big-scale balsamroot	PDAST11061			G3G4T2	S2.2	1B.2
14	<i>Blennosperma bakeri</i> Sonoma sunshine	PDAST1A010	Endangered	Endangered	G1	S1.2	1B.1
15	Brodiaea californica var. leptandra narrow-anthered California brodiaea	PMLIL0C022			G4?T2T3	S2S3.2	18.2
16	<i>Calasellus californicus</i> An isopod	ICMAL34010			G2G3	S2S3	
17	Calochortus pulchellus Mt. Diablo fairy-lantern	PMLIL0D160			G2	S2.1	1B.2
18	Calycadenia micrantha small-flowered calycadenia	PDAST1P0C0			G2G3	S2S3.2	1B.2
19	<i>Ceanothus confusus</i> Rincon Ridge ceanothus	PDRHA04220			G2	S2.2	1B.1
20	<i>Ceanothus divergens</i> Calistoga ceanothus	PDRHA04240			G2	S2.2	1B.2
21	Ceanothus purpureus holly-leaved ceanothus	PDRHA04160			G2	S2 2	1B.2
22	<i>Ceanothus sonomensis</i> Sonoma ceanothus	PDRHA04420			G2	S2.2	1B 2
23	Corynorhinus townsendli Townsend's big-eared bat	AMACC08010			G4	S2S3	SC

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	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
24	<i>Cryptantha clevelandii var. dissita</i> serpentine cryptantha	PDBOR0A0H2			G5T1	S1.1	1B.1
25	Cypseloides niger black swift	ABNUA01010			G4	S2	SC
26	Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened		G3T2	S2	
27	<i>Downingia pusilla</i> dwarf downingia	PDCAM060C0			G3	S3.1	2.2
28	<i>Elanus leucurus</i> white-tailed kite	ABNKC06010			G5	S3	
29	Erigeron greenei Greene's narrow-leaved daisy	PDAST3M5G0			G2	S2	1B.2
30	Geothlypis trichas sinuosa saltmarsh common yellowthroat	ABPBX1201A			G5T2	S2	SC
31	Haliaeetus leucocephalus bald eagle	ABNKC10010	Delisted	Endangered	G5	S2	
32	Hemizonia congesta ssp. congesta seaside tarplant	PDAST4R065			G5T2T3	S2S3	1B.2
33	Hesperolinon bicarpellatum two-carpellate western flax	PDLIN01020			G2	S2.2	1 B .2
34	Hesperolinon breweri Brewer's western flax	PDLIN01030			G2	S2 2	18.2
35	Hesperolinon sp. nov. "serpentinum" Napa western flax	PDLIN010D0			G2	S2.1	1B.1
36	Horkelia tenuiloba thin-lobed horkelia	PDROS0W0E0			G2	S2.2	1B.2
37	<i>Juglans hindsii</i> Northern California black walnut	PDJUG02040			G1	S1,1	1B.1
38	Lasthenla conjugens Contra Costa goldfields	PDAST5L040	Endangered		G1	S1.1	1B.1
39	<i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2			G5T2	S2 2	1B.2
40	<i>Layia septentrionalis</i> Colusa layia	PDAST5N0F0			G2	S2.2	1B.2
41	Leptosiphon jepsonII Jepson's leptosiphon	PDPLM09140			G2	S2.2	1B.2
42	<i>Lilaeopsis masonil</i> Mason's lilaeopsis	PDAPI19030		Rare	G3	S3.1	1B.1
43	Limnanthes vinculans Sebastopol meadowfoam	PDLIM02090	Endangered	Endangered	G2	S2.1	1B.1
44	Lupinus sericatus Cobb Mountain lupine	PDFAB2B3J0			G2	S2.2	1B.2
45	<i>Melospiza melodia samuelis</i> San Pablo song sparrow	ABPBXA301W			G5T2?	S2?	SC
46	Monardella villosa ssp. globosa robust monardella	PDLAM180P7			G5T2	S2.2	1B.2

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Selected Elements by Scientific Name - Yountville Quadrangle and Surrounding Quadrangles

	Scientific Name/Common Name	Element Code	Federal Status	State Status	GRank	SRank	CDFG or CNPS
47	<i>Myotis evotis</i> long-eared myotis	AMACC01070			G5	S4?	
48	<i>Myotis yumanensis</i> Yuma myotis	AMACC01020			G5	S4?	
49	<i>Navarretia leucocephala ssp. bakerl</i> Baker's navarretia	PDPLM0C0E1			G4T2	S2.1	1B.1
50	Navarretia leucocephala ssp. pauciflora few-flowered navarretia	PDPLM0C0E4	Endangered	Threatened	G4T1	S1.1	1B.1
51	<i>Navarretia rosulata</i> Marin County navarretia	PDPLM0C0Z0			G2?	S2?	1B.2
52	Northern Vernal Pool	CTT44100CA			G2	S2 1	
53	Oncorhynchus mykiss irideus steelhead - central California coast ESU	AFCHA0209G	Threatened		G5T2Q	S2	
54	Penstemon newberryi var. sonomensis Sonoma beardtongue	PDSCR1L483			G4T1	S1.3	1B.3
55	Phalacrocorax auritus double-crested cormorant	ABNFD01020			G5	S3	
56	Progne subis purple martin	ABPAU01010			G5	S3	SC
57	Rana boylii foothill yellow-legged frog	AAABH01050			G3	S2S3	SC
58	Rana draytonli California red-legged frog	AAABH01022	Threatened		G4T2T3	S2S3	SC
59	Rhynchospora californica California beaked-rush	PMCYP0N060			G1	S1.1	1B.1
60	Sidalcea hickmanii ssp. napensis Napa checkerbloom	PDMAL110A6			G1	S1	1B.1
61	Sidalcea oregana ssp. hydrophila marsh checkerbloom	PDMAL110K2			G5T2?	S2?	1B.2
62	Streptanthus breweri var. hesperidis green jewel-flower	PDBRA2G092			G5T2	S2.2	1B.2
63	Symphyotrichum lentum Suisun Marsh aster	PDASTE8470			G2	S2	1B.2
64	Syncaris pacifica California freshwater shrimp	ICMAL27010	Endangered	Endangered	G1	S1	
65	<i>Taxidea taxus</i> American badger	AMAJF04010			G5	S4	SC
66	Trifolium amoenum showy rancheria clover	PDFAB40040	Endangered		G1	S1,1	1B ₋ 1
67	Trifollum depauperatum var. hydrophilum saline clover	PDFAB400R5			G5T2?	S2.2?	1B 2
68	Viburnum ellipticum oval-leaved viburnum	PDCPR07080			G5	S2.3	2.3