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Biological Study

Bonny's Vineyard P22-00002
Planning Commission Hearing Date
December 18, 2024

**BIOLOGICAL RESOURCE ASSESSMENT
WITH BOTANICAL SURVEYS
AND DELINEATION OF WATERS OF THE U.S.
for the
MEYER FAMILY WINERY PROJECT**

**APN 030-200-080
Napa, CA**

July 26, 2021

**Prepared by
Northwest Biosurvey**



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1.0 PROJECT DESCRIPTION

1.1 Proposed Project: This Biological Resource Assessment was conducted for a proposed winery project on a 25.5-acre parcel in Napa, California. Vegetation types are mapped for the entire property. Most of the parcel is currently developed as vineyard, and the proposed winery is located within the existing vineyard. The local permitting agency is requesting completion of an assessment of biological resources on the property as part of the California Environmental Quality Act (CEQA) review required for vineyard development on the property.

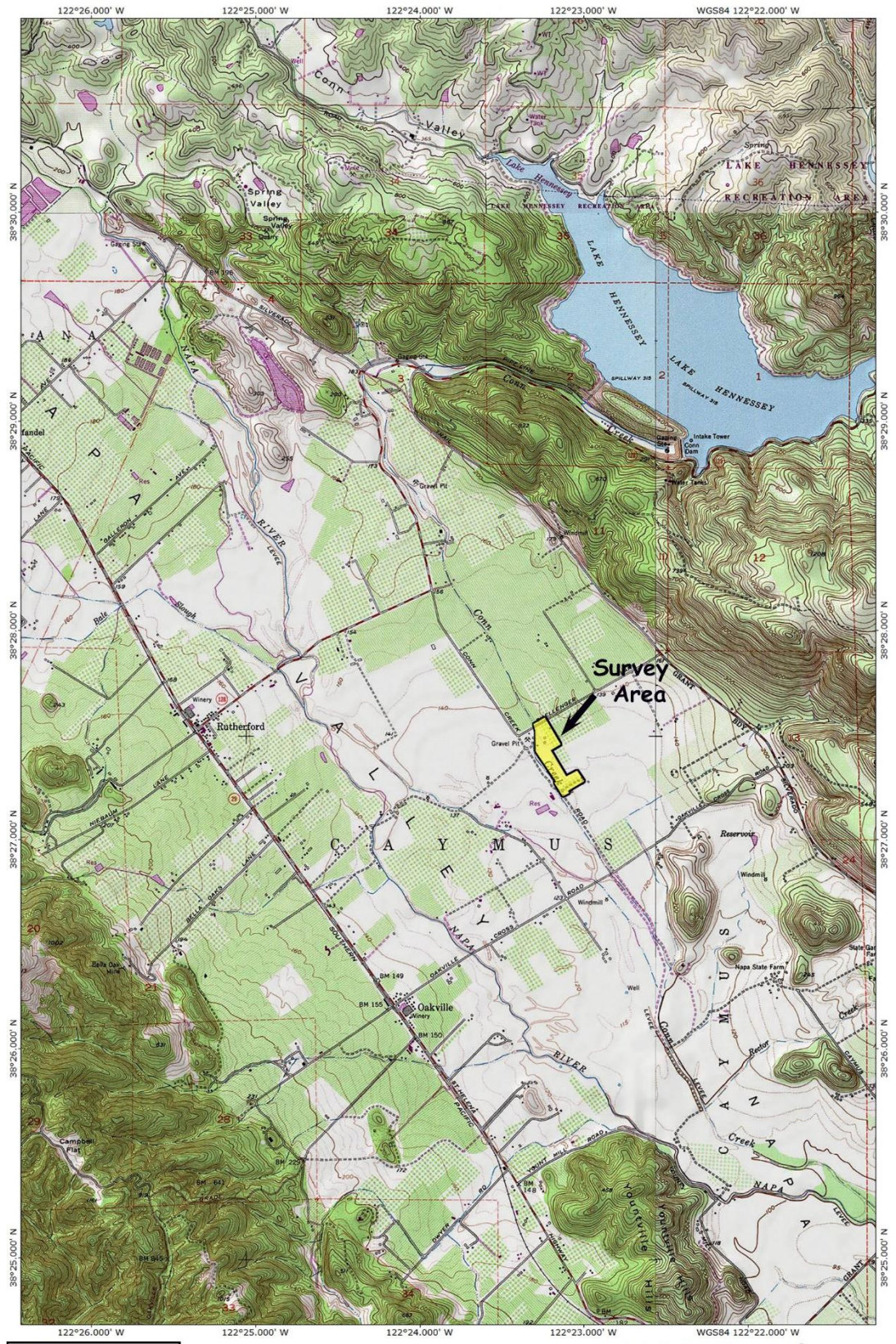
The initial phase of this assessment evaluates the potential of the parcel to contain sensitive plant and wildlife habitat. The second phase consists of a floristic-level botanical survey listing all plant taxa¹ on and around the project area. The assessment will determine whether the property contains sensitive plants or potentially contains sensitive wildlife requiring mitigation under the California Environmental Quality Act (CEQA) or National Environmental Policy Act (NEPA). As used here, the terms sensitive plant or wildlife includes all state or federal rare, threatened, or endangered species and all species listed in the California Natural Diversity Database (CNDDDB) list of "Special Status Plants, Animals and Natural Communities".

One section was added to this assessment to meet Napa County environmental review policy. This is "Conformance with the Napa County Baseline Data Report" (Section 6.0). A woodland analysis and bat habitat survey were not conducted due to the absence of woodlands within or adjacent to the proposed development area.

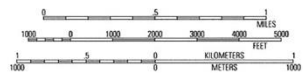
A delineation of waters of the U.S. was not conducted. While Conn Creek is located along the southern property boundary, only a 60-foot segment passes through a southern corner of the parcel in an area that is not within the project footprint. The rest of the active channel is located approximately 50 feet west of the parcel.

1.2 Location: The property is located at 1555 Skellenger Lane, Napa, California (APN 030-200-080; T07N R05W, Rutherford, Calif. 7½' Topographic Map). A location map is provided in **Figure 1**.

¹ Many sensitive plants and wildlife are subspecies or varieties which are taxonomic subcategories of species. The term "taxa" refers to species and their sub-specific categories.



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LOCATION MAP
Figure 1

TN/MN
14 1/2°
07/15/21

2.0 ASSESSMENT METHODOLOGY

The basis of the biological resource assessment is a comparison of existing habitat conditions within the project boundaries to the geographic range and habitat requirements of sensitive plants and wildlife. It includes all sensitive species that occupy habitats similar to those found in the project area and whose known geographic ranges encompass it. The approach is conservative in that it tends to over-estimate the actual number of sensitive species potentially present. The analysis includes the following site characteristics:

- Location of the project area with regard to the geographic range of sensitive plant and wildlife species
- Location(s) of known populations of sensitive plant and wildlife species as mapped in the California Natural Diversity Database (CNDDDB)
- Soils of the project area
- Elevation
- Presence or absence of special habitat features such as vernal pools and serpentine soils
- Plant communities existing within the project area

In addition to knowledge of the local plants and wildlife, the following computer databases were used to analyze the suitability of the site for sensitive species:

- California Department of Fish and Wildlife (CDFW), *California Natural Diversity Database (CNDDDB)*; RareFind 5, 2021
- California Native Plant Society's (CNPS) *Electronic Inventory of Rare and Endangered Vascular Plants of California* (2021 edition)
- California Department of Fish and Wildlife, *California Wildlife Habitat Relationships System (CWHR)*, Version 9.0
- Napa County *Baseline Data Report (2005)*

The CNDDDB and RareFind 5 databases consist of maps and records of all known populations of sensitive plants and wildlife in California. This data is continually updated by the CDFW with new sensitive species population data.

The CNPS database produces a list of sensitive plants potentially occurring at a site based on the various site characteristics listed above. While use of the CNPS inventory does not in itself eliminate the need for an in-season botanical survey, it can, when used in

conjunction with other information, provide a very good indication of the suitability of a site as habitat for sensitive plant species.

The CWHR database operates on the same basis as the CNPS inventory. Input includes geographic area, plant community (including development stage), soil structure, and special features such as presence of water, snags, cover, and food (fruit, seeds, insects, etc.).

2.1 Botanical Survey Methods: A full, in-season floristic-level survey was conducted for the project site. The CNDDDB report and maps for the Clearlake Oaks quadrangle were referenced prior to the survey. Vegetation communities were identified based on the nomenclature of *A Manual of California Vegetation* (Sawyer et al. 2009) as modified by the California Native Plant Society (CNPS) and mapped on a 1"=120' aerial photo. Vegetation community names are based on an assessment of dominant cover species.

Plants occurring on the site were identified using *The Jepson Manual of Higher Plants of California*. Where necessary, species names were updated based on the 6th edition, *CNPS Inventory of Rare and Endangered Plants of California*. A map of the plant communities is provided in **Figure 2**.

2.5 Survey Dates: Site visits for botanical surveys, habitat assessments, and mapping were made by Northwest Biosurvey staff on April 1 and July 21, 2021.

2.6 Biological Assessment Staff: Field surveys, plant taxonomy, and mapping were conducted by Steve Zalusky, Northwest Biosurvey principal biologist. Mr. Zalusky has a Master of Science Degree in Biology from the California State University at Northridge and a Bachelor of Science Degree in Zoology from the University of California at Santa Barbara. Mr. Zalusky has over 35 years of experience as a biologist in the government and private sectors.

Mr. Zalusky was assisted in the field and with mapping by Leigh Zalusky. Leigh Zalusky has a Bachelor of Science Degree in Computer Engineering from the University of California, Davis. He has also developed extensive skills in plant taxonomy and ecology while managing and assisting in the development of the Seigler Valley Wetland Mitigation Bank and while assisting Northwest Biosurvey staff in field surveys and vegetation mapping over the past five years.

Database review and report preparation were conducted with the assistance of Danielle Zalusky, Northwest Biosurvey principal planner. Ms. Zalusky has 15 years of experience as a planner in local government and the private sector and more than 17 years in field biology. She has a Bachelor of Arts Degree all course work toward an M.A. Degree in

Rural and Town Planning from Chico State University. Prior to joining Northwest Biosurvey in 2002, Ms. Zalusky was a senior planner for the Lake County Community Development Department.

3.0 SITE CHARACTERISTICS

3.1 Topography and Drainage: The Meyer Family Winery Project is located along the east bank of Conn Creek on the floor of the Napa Valley. The terrain is level with surface drainage westward to adjacent Conn Creek. Conn Creek flows southeast for three miles from the property to its confluence with the Napa River. The Napa River flows southeast for 31 river miles through the City of Napa to the Carquinez Strait and San Pablo Bay. Elevations on the property are approximately 135 msl (mean sea level). The topography is shown in **Figure 1**.

3.2 Soils: The property contains the following soil types:

▪ **Cole silt loam, 0 to 2 percent slopes:**

This nearly level, somewhat poorly-drained soil is on old alluvial fans and flood plains. It formed in alluvium derived from sandstone, shale, and basic rock. Included with this soil in mapping were small areas of Bale, Clear Lake, Cortina, and Yolo soils, as well as areas of soils that are similar to the Cole soil except that the subsoil is calcareous. Permeability is moderately slow. Runoff is very slow and there is little or no hazard of erosion. The plant cover is oak and native grasses. The eastern half of the parcel contains this soil type.

▪ **Clear Lake clay, overwashed:**

Clear Lake soils are in flood basins, flood plains and in swales of drainageways. It formed under poorly drained conditions in alluvium derived from mixed rock sources. Slope is 0 to 5 percent. Permeability of this soil is slow. Surface runoff is slow to very high. Natural vegetation includes annual grasses and forbs. The west side of the parcel contains this soil type.

3.3 Vegetation Types: The entire property was mapped for vegetation in order to provide project context. The project contains a single natural plant community or vegetation type based on or derived from the "Standardized Classification" scheme described in the California Native Plant Society (CNPS) *A Manual of California Vegetation*. These vegetation types and other cover types are listed in **Table 1**. It is described below the table and shown in the vegetation map provided in **Figure 2**.

TABLE 1. PLANT COMMUNITIES AND OTHER COVER TYPES PRESENT

COVER TYPE	Acres of Cover Type on Property	Percent of Total Acres on Property	Acres of Cover Type in Project Footprint	Percent of Cover Type in Project Footprint
California Valley Oak Woodland	1.99	7.80	0.00	0.00
Vineyard	20.21	79.26	20.21	79.26
Ruderal (Developed areas)	3.30	12.94	3.30	12.94
TOTAL ACRES OF COVER TYPE	25.5	100.00	23.51	92.20*

* Percent of property within project footprint.

- **California Valley Oak Woodland:**

This mature riparian woodland occupies the continuous upper east bank of Conn Creek, west of the property access road. The upper canopy is dominated by mature California valley oak (*Quercus lobata*) with subdominant Northern California black walnut (*Juglans hindsii*). California buckeye (*Aesculus californica*) occurs as a scattered sub-canopy. Conn Creek itself only enters the parcel for approximately 60 feet along a southwest corner.

The shrub layer has been removed through continuous maintenance, but some saplings of the canopy trees are present. The ground cover consists of spring vetch (*Vicia sativa ssp. sativa*), California brome (*Bromus carinatus var. carinatus*), slender wild oat (*Avena barbata*), goose grass (*Galium aparine*), Robert's geranium (*Geranium robertianum*), cut-leaved geranium (*Geranium dissectum*), ripgut brome (*Bromus diandrus*), sweet clover (*Mellilotus indicus*), Mediterranean barley (*Hordeum marinum ssp. gussoneanum*), and a mix of other forbs and grasses as listed in the botanical survey results.

- **Vineyard:**

As shown in Table 1, the majority of the property is occupied by an active vineyard.

- **Ruderal:**

This term refers to developed areas such as roadways, parking areas, and structures.



4.0 PRE-SURVEY RESEARCH RESULTS

4.1 CNPS Electronic Inventory Analysis: A California Native Plant Society (CNPS) analysis was conducted for all plants with federal and state regulatory status, and all non-status plants on the CNPS Rare Plant Ranks 1B through 4. The query included all plants within this area of Napa County occurring within the plant communities identified on the project site. The inventory lists species potentially occurring at the site; these are listed in **Table 2**. These species were included in the list of potentially sensitive species specifically searched for during field surveys.

Note: *The CNPS list is used to broaden the list of sensitive species considered during the subsequent field surveys; however, it must be used with discretion because the database search does not allow fine-tuning for specific soil types or for many specific habitats required by sensitive plant taxa (e.g., serpentine and vernal pools). Consequently, the CNPS list generated for a site may include several taxa for which the required habitat is not present.*

4.2 California Natural Diversity Database: The California Natural Diversity Database (CNDDDB) and CDFW RareFind 5 data and maps for the Rutherford 7½' quadrangle were reviewed for this project. **Table 3** presents a list of sensitive plant and wildlife species known to occur within the quadrangle. In addition to listing the species present within the quadrangles, the table provides a brief descriptor of the habitat requirements and blooming season, along with an assessment of whether the project area contains the necessary habitat requirements for each species. **Appendix A** at the end of this report lists the species within the nine quadrangles in the vicinity of this property.

TABLE 2. CALIFORNIA NATIVE PLANT SOCIETY'S INVENTORY OF RARE AND ENDANGERED PLANTS

Selected CNPS Plants by Scientific Name

Meyer Family Winery Property

Scientific Name	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat
<i>Allium peninsulare</i> <i>var. franciscanum</i>	Franciscan onion	Alliaceae	perennial bulbiferous herb	1B.2	None	None	(Apr)May- Jun	Cismontane woodland, Valley and foothill grassland
<i>Amorpha</i> <i>californica</i> <i>var.</i> <i>napensis</i>	Napa false indigo	Fabaceae	perennial deciduous shrub	1B.2	None	None	Apr-Jul	Broadleafed upland forest, Chaparral, Cismontane woodland
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	Boraginaceae	annual herb	1B.2	None	None	Mar-Jun	Cismontane woodland, Coastal bluff scrub, Valley and foothill grassland
<i>Arctostaphylos</i> <i>stanfordiana</i> <i>ssp.</i> <i>decumbens</i>	Rincon Ridge manzanita	Ericaceae	perennial evergreen shrub	1B.1	None	None	Feb- Apr(May)	Chaparral, Cismontane woodland
<i>Astragalus claranus</i>	Clara Hunt's milk- vetch	Fabaceae	annual herb	1B.1	CT	FE	Mar-May	Chaparral, Cismontane woodland, Valley and foothill grassland
<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	Themidaceae	perennial bulbiferous herb	1B.2	None	None	May-Jul	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland
<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	Rhamnaceae	perennial evergreen shrub	1B.1	None	None	Feb-Jun	Chaparral, Cismontane woodland, Closed-cone coniferous forest
<i>Ceanothus</i> <i>divergens</i>	Calistoga ceanothus	Rhamnaceae	perennial evergreen shrub	1B.2	None	None	Feb-Apr	Chaparral
<i>Ceanothus</i> <i>sonomensis</i>	Sonoma ceanothus	Rhamnaceae	perennial evergreen shrub	1B.2	None	None	Feb-Apr	Chaparral

Scientific Name	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat
<i>Clarkia breweri</i>	Brewer's clarkia	Onagraceae	annual herb	4.2	None	None	Apr-Jun	Chaparral, Cismontane woodland, Coastal scrub
<i>Erigeron biolettii</i>	streamside daisy	Asteraceae	perennial herb	3	None	None	Jun-Oct	Broadleafed upland forest, Cismontane woodland, North Coast coniferous forest
<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	Asteraceae	perennial herb	1B.2	None	None	May-Sep	Chaparral
<i>Eryngium jepsonii</i>	Jepson's coyote-thistle	Apiaceae	perennial herb	1B.2	None	None	Apr-Aug	Valley and foothill grassland, Vernal pools
<i>Harmonia nutans</i>	nodding harmonia	Asteraceae	annual herb	4.3	None	None	Mar-May	Chaparral, Cismontane woodland
<i>Helianthus exilis</i>	serpentine sunflower	Asteraceae	annual herb	4.2	None	None	Jun-Nov	Chaparral, Cismontane woodland
<i>Leptosiphon acicularis</i>	bristly leptosiphon	Polemoniaceae	annual herb	4.2	None	None	Apr-Jul	Chaparral, Cismontane woodland, Coastal prairie, Valley and foothill grassland
<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	Polemoniaceae	annual herb	1B.2	None	None	Mar-May	Chaparral, Cismontane woodland, Valley and foothill grassland
<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	Polemoniaceae	annual herb	4.3	None	None	Apr-Jun	Broadleafed upland forest, Cismontane woodland
<i>Lomatium repostum</i>	Napa lomatium	Apiaceae	perennial herb	1B.2	None	None	Mar-Jun	Chaparral, Cismontane woodland
<i>Lupinus sericatus</i>	Cobb Mountain lupine	Fabaceae	perennial herb	1B.2	None	None	Mar-Jun	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	4.2	None	None	Feb-May	Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland, Vernal pools
<i>Streptanthus hesperidis</i>	green jewelflower	Brassicaceae	annual herb	1B.2	None	None	May-Jul	Chaparral, Cismontane woodland

KEY FOR TABLE 2:

CNPS Rare Plant-Threat Rank Definitions:

CRPR = California Rare Plant Rank

1B.1 = Rare, threatened, or endangered in California and elsewhere; seriously threatened in California

1B.2 = Rare, threatened, or endangered in California and elsewhere; fairly threatened in California

1B.3 = Rare, threatened, or endangered in California and elsewhere; not very threatened in California

2A = Presumed extinct in California, but extant elsewhere

2B.1 = Rare, threatened, or endangered in Calif., but more common elsewhere; seriously threatened in Calif.

2B.2 = Rare, threatened, or endangered in Calif., but more common elsewhere; fairly threatened in Calif.

2B.3 = Rare, threatened, or endangered in Calif., but more common elsewhere; not very threatened in Calif.

3 = Plants about which we need more information (Review List)

3.1 = Plants about which we need more information (Review List); seriously threatened in California

3.2 = Plants about which we need more information (Review List); fairly threatened in California

3.3 = Plants about which we need more information (Review List); not very threatened in California

4.1 = Plants of limited distribution (watch list); seriously threatened in California

4.2 = Plants of limited distribution (watch list); fairly threatened in California

4.3 = Plants of limited distribution (watch list); not very threatened in California

State and Federal Status:

CESA = California Endangered Species Act

FESA =

CR = State Rare

CT = State Threatened

SSC = CDFW Species of Special Concern

WL = CDFW Watch List

FT = Federal Threatened

Federal Endangered Species Act

CE = State Endangered.

CD = State Delisted

FP = CDFW Fully Protected

FE = Federal Endangered

FD = Federal Delisted

TABLE 3. CNDDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE RUTHERFORD, CALIF. 7½' QUAD.

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Amorpha californica</i> var. <i>napensis</i>	Napa false indigo	Broadleaved upland forest, chaparral, cismontane woodland/openings; --/--/1B.2	April-July decid. shrub	Poor habitat; not found during surveys
<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	Coastal bluff scrub, cismontane woodland, valley & foothill grassland; --/--/1B.2	March-June ann. herb	Poor habitat; not found during surveys
<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	Chaparral, cismontane woodland, valley & foothill grassland; serpentinite or volcanic, rocky, clay; FE/ST/1B.1	March-May ann. herb	No habitat. Not found during surveys
<i>Arctostaphylos stanfordiana</i> ssp. <i>decumbens</i>	Rincon Ridge manzanita	Chaparral, cismontane woodland/highly restricted endemic to red rhyolites in Sonoma County; --/--/1B.1	Feb.-April everg. shrub	No habitat. Not found during surveys
<i>Brodiaea leptandra</i>	narrow-anthered California brodiaea	Broadleaved upland forest, chaparral, lower montane coniferous forest; --/--/1B.2	May-July per. herb	No habitat. Not found during surveys
<i>Ceanothus confusus</i>	Rincon ridge ceanothus	Closed cone conif. forest, chaparral, cismontane woodland; volcanic; --/--/1B.1	Feb.-April everg. shrub	No habitat. Not found during surveys
<i>Ceanothus divergens</i>	Calistoga ceanothus	Chaparral, cismontane woodland/serpentine, volcanic, rocky;--/--/1B.2	Feb.-March everg. shrub	No habitat. Not found during surveys
<i>Ceanothus sonomensis</i>	Sonoma ceanothus	Chaparral/sandy, serpentine or volcanic; --/--/1B.2	Feb.-April everg. shrub	No habitat. Not found during surveys
<i>Clarkia breweri</i>	Brewer's clarkia	Chaparral, cismontane woodland, coastal scrub/often serpentinite); --/--/4.2	April-June ann. herb	Poor habitat; not found during surveys
<i>Erigeron biolettii</i>	streamside daisy	Broadleaved upland forest, cismontane woodland, North Coast coniferous forest /rocky, mesic; --/--/3	June-Oct. per. herb	No habitat. Not found during surveys
<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	Chaparral/serpentine and volcanic, generally in shrubby vegetation; --/--/1B.2	May-Sept. per. herb	No habitat. Not found during surveys
<i>Eryngium jepsonii</i>	Jepson's coyote-thistle	Valley & foothill grassland, vernal pools/clay; --/--/1B.2	April-August per herb	No habitat. Not found during surveys
<i>Harmonia nutans</i>	nodding harmonia	Chaparral, cismontane woodland/rocky or gravelly, volcanic; --/--/4.3	March-May ann. herb	No habitat. Not found during surveys
<i>Helianthus exilis</i>	serpentine sunflower	Chaparral, cismontane woodland/serpentinite seeps; --/--/4.2	April-Nov. ann. herb	No habitat. Not found during surveys
<i>Leptosiphon acicularis</i>	bristly leptisiphon	Chaparral, cismontane woodland, coastal prairie, valley and foothill grassland; --/--/4.2	April-July ann. herb	Poor habitat; not found during surveys

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	Chaparral, cismontane woodland, grassy slopes/volcanic or serpentine edge; --/--/1B.2	May-July ann. herb	No habitat. Not found during surveys
<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	Broad-leaved upland forest, cismontane woodland; --/--/4.3	April-June ann. herb	Poor habitat; not found during surveys
<i>Lomatium repostum</i>	Napa lomatium	Chaparral, cismontane woodland/serpentine; --/--/4.3	March-July per. herb	No habitat. Not found during surveys
<i>Lupinus sericatus</i>	Cobb Mountain lupine	Broadleaved upland forest, chaparral, cismontane woodland, lower montane coniferous forest; --/--/1B.2	March-June per. herb	Poor habitat; not found during surveys
<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	Cismontane woodland, North Coast coniferous forest, valley and foothill grassland, vernal pools/mesic; --/--/4.2	Feb.-May ann. herb (aquatic)	No habitat. Not found during surveys
<i>Streptanthus hesperidis</i>	green jewelflower	Chaparral or cismontane woodland (openings)/serpentine, rocky; --/--/1B.2	May-July ann. herb	No habitat. Not found during surveys

*See CNPS list for key

Wildlife Species	Common Name	Habitat Requirements/Status	Season Present	Habitat Present
<i>Gonidea angulata</i>	western ridged mussel	Freshwater mussel: inhabits creeks and rivers of all sizes. Can be found on substrates varying from firm mud to coarse particles; is rarely found in lakes or reservoirs; G3/S1S2	year-round	Habitat Lacking
<i>Bombus caliginosus</i>	obscure bumble bee	A black and yellow bee found in California, Oregon, Washington. Food plant genera: Baccharis, Cirsium, Lupinus, Lotus, Grindelia, Phacelia; G3G4/CA-SNR	year-round	Habitat Lacking
<i>Trachusa gummifera</i>	San Francisco Bay Area leaf-cutter bee	A terrestrial bee that is a nectarivore that occurs in the Bay Area. Little information is available on this species; G1/S1	year-round	Habitat Lacking
<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead-Central California Coast DPS	Small cool fast-flowing tributary streams with gravel beds. Steelhead are anadromous species that require streams that are contiguous with the ocean. Russian River so. to Soquel Creek and to no. of Pajaro River, San Francisco and San Pablo bay basins; FT/G5/S2S3	migratory	Habitat Lacking
<i>Dicamptodon ensatus</i>	California giant salamander	Cool, moist forest habitats associated with rocky streams; SSC/G3/SNR	year-round	Habitat Lacking
<i>Rana boylei</i>	foothill yellow-legged frog	Riparian/aquatic: partly-shaded, shallow streams & riffles with a rocky substrate in variety of habitats; SSC/SCT/G3/S2S3	year-round	Habitat Lacking
<i>Taricha rivularis</i>	red-bellied newt	Occurs near high to moderate gradient streams and rivers, riffles, pools. Burrows in soil or debris near water, emerges during fall rains to water to breed; SSC/G4/SNR	year-round	Habitat Lacking
<i>Emys marmorata</i>	western pond turtle	Ponds, lakes, rivers, creeks, marshes & irrigation ditches with abundant vegetation and rocky or muddy bottoms; in woodland, forest, & grassland; SSC	year-round	Habitat Lacking
<i>Buteo swainsoni</i>	Swainson's hawk	Small groves of trees in riparian areas and oak savanna, cultivated areas; ST/G5/S3	nesting	Potential nesting habitat present along Conn Creek Riparian Corridor
<i>Cypseloides niger</i>	black swift	Steep, moist cliffs near surf or waterfalls; SSC	year-round	Habitat Lacking
<i>Elanus leucurus</i>	white-tailed kite	Open areas near woodlands and water; SFP/G5/S3	year-round	Potential nesting habitat present along Conn Creek Riparian Corridor
<i>Haliaeetus leucocephalus</i>	bald eagle	Large bodies of water with adjacent snags. Nests in large old-growth or dominant live tree (often ponderosa pine) with open branches; FD/SE/SFP/G5/S2	wintering and nesting	Habitat Lacking
<i>Icteria virens</i>	yellow-breasted chat	Summer resident; inhabits riparian thickets of willow & other brushy tangles near watercourses; SSC(nesting)/G5/S3	migratory	Habitat Lacking

Wildlife Species	Common Name	Habitat Requirements/Status	Season Present	Habitat Present
<i>Setophaga petechia</i>	yellow warbler	Riparian plant associations; prefers willows, cottonwoods, aspens, sycamores & alders for nesting & foraging; SSC/G5/S2	nesting migratory	Habitat Lacking
<i>Antrozous pallidus</i>	pallid bat	Open, dry habitats, forest habitats, in caves, tunnels, buildings, bridges; sensitive to human disturbance; SSC/G5/S3	local migrant	Habitat Lacking

KEY FOR TABLE 3:

SE/ST/SD=State Endangered/Threatened/Delisted
SC/SCD=State Candidate for Listing/Delisting
SSC=CDFW Species of Special Concern
SFP=CDFW Fully Protected
WL=CDFW Watch List
FE/FT/FD=Federal Endangered/Threatened/Delisted
FPE/FPT/FPD/FP=Federal Proposed Endangered/Threatened/Delisting
FC=Federal Candidate

NatureServe Conservation Status:

G1/S1 = Global/State Critically Imperiled
G2/S2 = Global/State Imperiled
G3/S3 = Global/State Vulnerable
G4/S4 = Global/State Apparently Secure
G5/S5 = Global/State Secure
SNR=Not rated

4.3 Wildlife Habitat Analysis Results: The California Wildlife Habitat Relationships analysis listed a large number of sensitive and non-sensitive native wildlife species as potentially occurring on the site based on the geographic location and wildlife habitats present. This list is included as **Appendix B**.

4.4 Wildlife Assessment: None of the wildlife species listed in the CNDDDB for the Rutherford quadrangle have a likelihood of occurring in or near the area proposed for development due to lack of suitable habitat. Many of the species listed in the quadrangle are endemic to the Napa River. Others may occur within the riparian corridor of Conn Creek; however, these are not likely to occur in their sensitive status on the project site itself, which is currently surrounded by vineyard and residential structures.

5.0 FIELD SURVEY RESULTS

5.1 Botanical Field Survey Results: **Table 4** presents the results of the floristic-level botanical survey of the property. Each of the sensitive plant taxa potentially occurring within the property and listed in Tables 2 and 3 was specifically searched for during the surveys. A total of 50 native and introduced plant taxa were identified. No sensitive plant taxa were identified. The small number of taxa is due to the limited plant communities on the site.

Note: *Even when a site meets the generalized habitat description for a sensitive plant taxon, this is not a guarantee that it is present. The precise habitat requirements for any species cannot be known in most cases. Plants with sensitive regulatory status are rare because they have a narrow band of habitat criteria that must be met. These may include a wide range factors including microclimate, seasonal soil moisture, soil chemistry and texture, and presence or absence of specific pests or competitors.*

At present the specifics of these factors are not known for the vast majority of plant taxa. This issue is understood by regulatory biologists and is dealt with through the requirement that a floristic-level botanical survey be conducted which lists all plants occurring at a site throughout the full range of blooming seasons. Ultimately, the botanical survey determines whether a taxon is present or not present.

TABLE 4. FLORA OF THE MEYER FAMILY WINERY PROPERTY

Habit	Species	Common Name	Family	Origin
forb	<i>Anthriscus caucalis</i>	bur chervil	Apiaceae	A
forb	<i>Conium maculatum</i>	poison hemlock	Apiaceae	A
forb	<i>Pimpinella anisum</i>	anise	Apiaceae	A
forb	<i>Vinca major</i>	greater periwinkle	Apocynaceae	A
forb	<i>Achillea millefolium</i>	common yarrow	Asteraceae	N
forb	<i>Agoseris grandiflora</i>	California dandelion, big-flower agoseris	Asteraceae	N
forb	<i>Chamomilla suaveolens</i>	pineapple weed	Asteraceae	A
forb	<i>Senecio vulgaris</i>	common butterweed, common groundsel	Asteraceae	A
forb	<i>Brassica rapa</i>	field mustard	Brassicaceae	A
forb	<i>Cardamine breweri</i>	Brewer's bittercress	Brassicaceae	N
forb	<i>Melilotus fulcatus</i>	sour clover	Fabaceae	A
forb	<i>Melilotus indicus</i>	annual yellow sweetclover	Fabaceae	A
forb	<i>Vicia sativa ssp. sativa</i>	spring vetch	Fabaceae	A
forb	<i>Erodium cicutarium</i>	red-stem storksbill	Geraniaceae	A
forb	<i>Geranium dissectum</i>	cut-leaved geranium	Geraniaceae	A
forb	<i>Geranium robertianum</i>	Robert's geranium	Geraniaceae	A
forb	<i>Salvia sonomensis</i>	Sonoma creeping sage	Lamiaceae	N
forb	<i>Dichelostemma multiflorum</i>	wild hyacinth	Liliaceae	A
forb	<i>Claytonia perfoliata ssp. perfoliata</i>	miner's lettuce	Montiaceae	N
forb	<i>Eschscholzia californica</i>	California poppy	Papaveraceae	N
forb	<i>Plantago lanceolata</i>	English plantain	Plantaginaceae	A
forb	<i>Rumex crispus</i>	curly dock	Polygonaceae	A

Habit	Species	Common Name	Family	Origin
forb	<i>Ranunculus occidentalis</i>	western buttercup	Ranunculaceae	N
forb	<i>Galium aparine</i>	goose grass, common bedstraw	Rubiaceae	N
forb	<i>Muilla maritima</i>	common muilla	Themidaceae	N
grass	<i>Avena barbata</i>	slender wild oat	Poaceae	A
grass	<i>Bromus carinatus var. carinatus</i>	California brome	Poaceae	N
grass	<i>Bromus diandrus</i>	ripgut grass, ripgut brome	Poaceae	A
grass	<i>Bromus hordeaceus</i>	soft chess	Poaceae	A
grass	<i>Bromus sterilis</i>	poverty brome	Poaceae	A
grass	<i>Festuca myuros</i>	rattail sixweeks grass	Poaceae	A
grass	<i>Hordeum marinum ssp. gussoneanum</i>	Mediterranean barley	Poaceae	A
grass	<i>Phalaris arundinaceae</i>	reed canary grass	Poaceae	N
grass	<i>Poa annua</i>	annual bluegrass	Poaceae	A
grass	<i>Triticum aestivum</i>	common wheat, winter wheat	Poaceae	A
moss	<i>Usnea sp.</i>	old man's beard	Parmeliaceae	N
shrub	<i>Sambucus nigra ssp. caerulea</i> (riparian)	blue elderberry	Adoxaceae	N
shrub	<i>Toxicodendron diversilobum</i>	poison oak	Anacardiaceae	N
shrub	<i>Baccharis pilularis</i>	coyote brush, chaparral broom	Asteraceae	N
shrub	<i>Heteromeles arbutifolia</i>	toyon	Rosaceae	N
tree	<i>Quercus agrifolia</i>	coast live oak	Fagaceae	N
tree	<i>Quercus garryanna var. garryanna</i>	Oregon white oak	Fagaceae	N
tree	<i>Quercus lobata</i>	California valley oak	Fagaceae	N
tree	<i>Aesculus californica</i>	California buckeye	Hippocastanaceae	N
tree	<i>Juglans hindsii</i>	Northern California black walnut	Juglandaceae	N
tree	<i>Umbellularia californica</i>	California bay	Lauraceae	N
tree	<i>Eucalyptus globulus</i>	bluegum eucalyptus	Myrtaceae	A

Habit	Species	Common Name	Family	Origin
tree	<i>Fraxinus latifolia</i>	Oregon ash	Oleaceae	N
tree	<i>Prunus subcordata</i>	Pacific plum, Klamath plum	Rosaceae	N
vine	<i>Marah fabacea</i>	California manroot	Cucurbitaceae	N

Origin: N = Native, A = Alien

6.0 REGIONAL SETTING

The Meyer Family Winery project is located in the Napa Valley along the east bank of Conn Creek. This flat valley terrain drains west from an elevation of approximately 130 feet msl (mean sea level) as sheet flow to Conn Creek, which flows southeast to the Napa River.

As shown in Figure 3, the Regional Context map, the property is surrounded by intensive vineyard development which includes the Meyer parcel.

Wildlife Value of Woodlands in the Survey Area:

- **Core Habitat Value:** Core habitat is habitat provided by a plant community in its pure form without the direct influence of surrounding plant communities and intermediate, overlapping edge habitat (edge effect). While many wildlife species can use a wide range of habitats and may even need a mix of habitats to meet their needs, some species are limited to core habitat within a plant community or at least require the presence of core habitat within their home range. This typically requires that the patch size (overall aerial extent) of the habitat be large enough to exclude the edge effect from the surrounding habitats.

Wildlife dependent on core woodland and forest habitat consist primarily of species using trees as shelter or whose food sources are associated with trees. This includes amphibians and reptiles using downed woody debris for cover and whose food consists of insects associated with woody debris. Woodpeckers are obviously associated with woodlands, but many other passerines (perching birds) also depend on woodland insects and plant material or are dependent on dense woodland for nesting sites and cover. Larger mammals such as deer and their predators typically require sites providing dense cover not provided by more open woodlands and grasslands.

As shown in the Vegetation Map provided in Figure 2 and the Regional Context Map provided in Figure 3, woodland on the parcel is limited to a narrow strip of California valley oak riparian woodland along Conn Creek. Due to the narrowness of this habitat, edge effect extends throughout this wooded habitat from vineyard habitat along both the east and west banks. Appendix B provides a list of wildlife species whose range includes the project area and who use the habitats available within the property.

- **Cover and Edge Habitat for Surrounding Communities:** Edge habitat consists of boundaries between structurally different vegetation types with particular emphasis on boundaries between woodland or forest and open habitats such as grasslands

or shrublands. Edge areas often support an increased density and diversity of wildlife species due to the overlap of two different plant communities and the unique assemblages of wildlife they support. Many species such as raptors require edge. Raptors use tree canopies as perches from which they can scan adjacent grasslands for prey. Deer will feed in open grassland if nearby tree cover is available.

As noted under the discussion of core habitat the entire riparian corridor consists of edge habitat due to its narrowness and its location adjacent to vineyard development. While it is unlikely for this narrow riparian strip to provide habitat for deer and their predators, it provides ample habitat for small mammals (raccoons, possums, skunks, foxes, etc.), and for birds such as raptors (birds of prey) which use tall trees adjacent to open habitats as hunting and plucking perches as well as nesting sites. The creek is also likely to provide seasonal habitat for aquatic herptiles (reptiles and amphibians) including western pond turtle.

- **Value as a Wildlife Corridor:** As one of the few remaining seminatural waterways in the Napa Valley, Conn Creek can be considered to occur within an important wildlife corridor identified as a *CalWild Linkage* shown in Map 4-2 of the Napa County BDR. This creek along with the even more important Napa River Corridor provide critical wildlife access through the Napa Valley from remaining natural habitats in the surrounding mountain ranges. Conn Creek provides a movement corridor for herptiles, and small to medium sized mammals. It may occasionally be used by larger mammals such as coyotes.

- **Presence of Critical Plant Community or Wildlife Resources:**

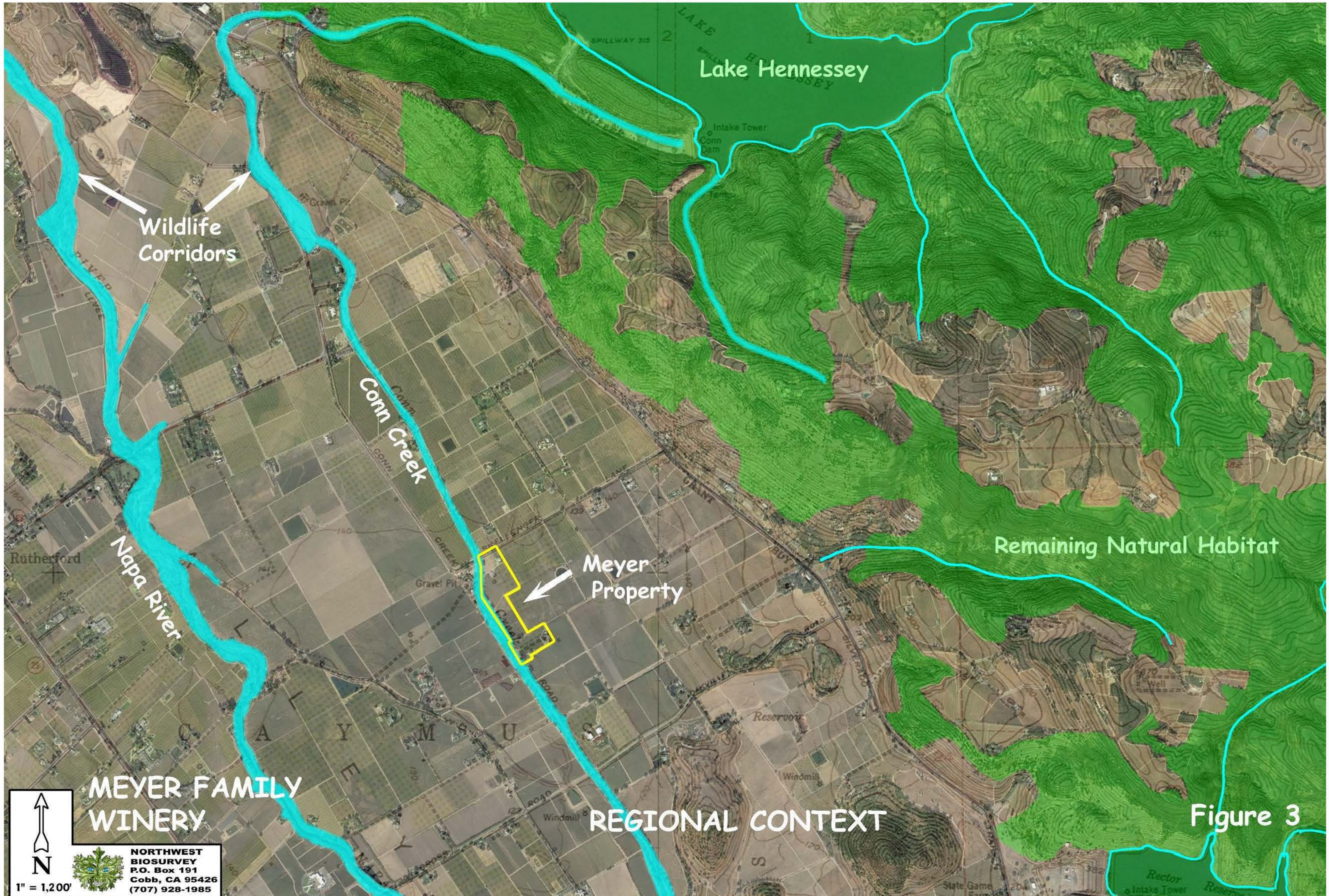
Critical Plant Communities: Oregon white oak alliance is among the 23 plant communities considered sensitive in the Napa County Baseline Data Report. Within the Meyer property and throughout the Napa Valley, Oregon white oak (*Quercus garryana* var. *garryana*) occurs as an intergrade (hybrid) with California valley oak (*Quercus lobata*). The riparian oak woodland along Conn Creek should be considered to meet the definition of a sensitive plant community in Napa County.

Critical Wildlife Resources: Due to its importance both as riparian habitat and as an essential movement corridor for wildlife, Conn Creek and its riparian habitat should be considered a critical wildlife resource.

- **Woodland Age Class and Size:** Due to the fact that no trees are proposed to be removed as part of this project, a quantitative woodland analysis was not conducted. However, the California valley oak riparian woodland along Conn

Creek consists of mature trees. These include California valley oak (Oregon white oak hybrids), Oregon ash, buckeye, Fremont cottonwood, and red willow.

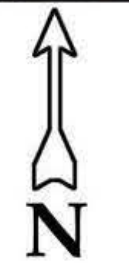

- **Trees with Unique Wildlife Value:** Trees within the California valley oak riparian woodland provide important, if not unique, wildlife habitat for raptors and many passerines as well as potential roosting habitat for bats and shading and cover for the Conn Creek riparian corridor.



**MEYER FAMILY
WINERY**

REGIONAL CONTEXT

Figure 3


 N
 1" = 1,200'

**NORTHWEST
BIOSURVEY**
 P.O. Box 191
 Cobb, CA 95426
 (707) 928-1985

7.0 CONFORMANCE WITH NAPA COUNTY BASELINE DATA REPORT (BDR)

Each of the pertinent sections of the Napa County Baseline Data Report was reviewed to determine whether the issues and biological resources with special status in Napa County have been addressed in this biological assessment.

7.1 Sensitive Biotic Communities: The property contains riparian oak woodland dominated by California valley oak/Oregon white oak hybrid trees. Oregon white oak forest is among the 23 plant communities qualifying as sensitive in the Napa County Baseline Data Report.

7.2 Special Status Plants and Wildlife: As noted in Section 2 (Assessment Methodology), the pre-survey research conducted for this project included systematic reviews of the California Natural Diversity Database (CNDDDB), California Native Plant Society Electronic Inventory, and California Department of Fish and Wildlife's California Wildlife Habitat Relationships Program. The list of special status plants and wildlife used in the BDR is derived from the CNDDDB. Additionally, Tables 4-6 and 4-7 of the Special Status Plants and Wildlife sections of the BDR were reviewed to assure consistency between the lists. Most species listed in the CNDDDB are subject to CEQA review pursuant to Section 15380 (d) of the CEQA Guidelines.

No sensitive plant taxa were identified during the floristic-level botanical survey conducted for this project. Conn Creek is likely to provide seasonal habitat for western pond turtles which are species of special concern in California. The riparian woodland also provides potential nesting habitat for Swainson's hawk and white-tailed kite, both of which are California species of concern.

7.3 Potential Wildlife Movement Corridors: The CalWild Linkage Map presented in Map 4-2 of the BDR was reviewed with respect to this project. Conn Creek is within a movement area as defined by the CalWild database.

7.4 Fisheries Resources: Conn Creek provides very limited potential as salmonid habitat due to its intermittent flows². The creek provides seasonal habitat for California roach (*Lavinia symmetricus*).

² 2005, Koehler, Jonathan et al. Central Napa River Watershed Restoration Plan Final Report.

8.0 SUMMARY, IMPACT ANALYSIS, AND RECOMMENDATIONS

8.1 Summary: This biological resource assessment involved the following analyses and surveys for sensitive plants and wildlife potentially occurring in the vicinity of the project:

- Review of current California Natural Diversity Database (CNDDDB) mapping of known sensitive plant and wildlife populations within the region.
- An analysis of the suitability of the site for sensitive plants and wildlife using the California Native Plant Society *Electronic Inventory of Rare and Endangered Vascular Plants of California*, and the California Department of Fish and Wildlife's *Wildlife Habitat Relations System*.
- A California Department of Fish and Wildlife protocol, floristic-level field survey of the plants occurring within and in the immediate vicinity of the project.
- Review of the Napa County Baseline Data Report (BDR), 2005.

Sensitive Plants: A total of 50 native and introduced plant taxa were identified on the property during the in-season, floristic-level botanical surveys. No sensitive taxa were identified. As used here, the term sensitive includes species having state or federal regulatory status, defined as Rare Plant Ranks 1B through 4 by the California Native Plant Society, or otherwise listed in the California Natural Diversity Database.

Sensitive Wildlife: Sensitive wildlife species were assessed for potential occurrence at the site because of inclusion in the CNDDDB database for the Rutherford quadrangle and/or the CWHR. The property contains suitable habitat for western pond turtle and potential nesting habitat for Swainson's hawk and white-tailed kite, all of which are California species of concern.

8.2 Potential Impacts and Proposed Mitigation for Biological Resources:

(For all recommended mitigation measures accepted as conditions of approval, the text should be modified to use declarative language, i.e., "should" should become "shall", etc.)

A. **Habitat Fragmentation**

Potential Impacts: Conn Creek provides an essential wildlife movement corridor between natural mountainous terrain to the east and the Napa Valley. Any activity that would adversely impact the Conn Creek channel or adjacent riparian habitat has a potential to result in habitat fragmentation. As proposed, all project activity will

occur east of the access road and will not directly impact Conn Creek or its riparian habitat.

Proposed Mitigation for Habitat Fragmentation:

Measure 1: No project modifications adversely impacting aquatic or riparian habitat should be approved west of the current access road along the east bank of Conn Creek.

B. Woodland and Forest Resources

Potential Impact: As proposed, the project will not be constructed within the existing riparian oak woodland along Conn Creek. No trees are proposed for removal under the current project development plan. As proposed, the project will not have an adverse impact on woodland and/or forest resources. See measure 1 above.

C. Sensitive Plants and Wildlife

Potential Impacts:

- **Plants:** No plants with sensitive regulatory status were identified on the property during the floristic-level botanical survey conducted for this project.
- **Wildlife:** The following wildlife species have a potential to be seasonally present within vineyard blocks proposed in the old-growth Douglas fir forest:
 - Western pond turtle
 - Swainson's hawk
 - White-tailed kite.

Note: Even when lacking sensitive status, migratory passerines and birds of prey are protected under the Migratory Bird Treaty Act and California Fish and Game Code. Removal or trimming of trees has a potential to result in an incidental take of eggs, or nestlings if clearing of tree habitat occurs during the nesting season (February 1 through August 31).

As proposed, all project-related activity will occur east of the access road along the east bank of Conn Creek. All potentially present wildlife with sensitive regulatory status and birds protected by state and federal law are associated with Conn Creek and its riparian corridor. Due to its history of ongoing agricultural operation, nesting birds within the riparian corridor are likely to be habituated to human disturbance as long as it does not occur directly within the riparian corridor or beneath the riparian tree canopy.

Potential indirect impacts include erosion and sediment transport or transport of agricultural chemicals including fertilizers or herbicides.

Mitigation for Potential Indirect Impacts to Sensitive Wildlife:

Measure 2: Use of agricultural chemicals should conform to local, state and federal requirements for use and storage. Inspections should occur as may be mandated by the pertinent regulatory agencies.

D. Waters of the U.S.

Potential Impacts: Potential waters of the U.S. are limited to a ~60-foot segment of Conn Creek in the southeast corner of the property. This area is outside of the proposed project activity. See Measure 1 above.

E. Erosion Control

Potential Impacts: Vegetation clearing and grading activities have a potential to result in sediment runoff to Conn Creek and the Napa River.

Proposed Mitigation for impacts due to Erosion and Sedimentation:

Measure 3: All project-related work should incorporate extensive erosion control measures consistent with Napa County Grading Regulations in order to avoid erosion and the potential for transport of sediments to Conn Creek and the Napa River. Coverage under the National Pollutant Discharge Elimination System (NPDES), General Permit for Storm Water Discharges associated with a Construction Activity (General Permit) and a Storm Water Pollution Prevention Plan (SWPPP) may be required.

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APPENDIX A

CNDDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE
SURROUNDING CALIF. 7½' QUADS.

Surrounding 9-Quad List: Rutherford Quadrangle

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CALISTOGA	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
CALISTOGA	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
CALISTOGA	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
CALISTOGA	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
CALISTOGA	<i>Accipiter striatus</i>	sharp-shinned hawk	None	None	WL	-
CALISTOGA	<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Delisted	FP	-
CALISTOGA	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
CALISTOGA	<i>Calasellus californicus</i>	An isopod	None	None	-	-
CALISTOGA	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
CALISTOGA	<i>Hysterocarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
CALISTOGA	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
CALISTOGA	<i>Oncorhynchus kisutch pop. 4</i>	coho salmon - central California coast ESU	End	End	-	-
CALISTOGA	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
CALISTOGA	<i>Bombus occidentalis</i>	western bumble bee	None	Cand End	-	-
CALISTOGA	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
CALISTOGA	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
CALISTOGA	<i>Myotis evotis</i>	long-eared myotis	None	None	-	-
CALISTOGA	<i>Myotis thysanodes</i>	fringed myotis	None	None	-	-
CALISTOGA	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
CALISTOGA	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
CALISTOGA	<i>Coastal and Valley Freshwater Marsh</i>	Coastal and Valley Freshwater Marsh	None	None	-	-
CALISTOGA	<i>Eryngium constancei</i>	Loch Lomond button-celery	End	End	-	1B.1
CALISTOGA	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
CALISTOGA	<i>Centromadia parryi ssp. parryi</i>	pappose tarplant	None	None	-	1B.2
CALISTOGA	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
CALISTOGA	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
CALISTOGA	<i>Lasthenia burkei</i>	Burke's goldfields	End	End	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CALISTOGA	<i>Lessingia hololeuca</i>	woolly-headed lessingia	None	None	-	3
CALISTOGA	<i>Plagiobothrys strictus</i>	Calistoga popcornflower	End	Threat	-	1B.1
CALISTOGA	<i>Spergularia macrotheca var. longistyla</i>	long-styled sand-spurrey	None	None	-	1B.2
CALISTOGA	<i>Arctostaphylos stanfordiana ssp. decumbens</i>	Rincon Ridge manzanita	None	None	-	1B.1
CALISTOGA	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
CALISTOGA	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
CALISTOGA	<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	End	Threat	-	1B.1
CALISTOGA	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
CALISTOGA	<i>Trifolium hydrophilum</i>	saline clover	None	None	-	1B.2
CALISTOGA	<i>Monardella viridis</i>	green monardella	None	None	-	4.3
CALISTOGA	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
CALISTOGA	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
CALISTOGA	<i>Limnanthes vinculans</i>	Sebastopol meadowfoam	End	End	-	1B.1
CALISTOGA	<i>Sidalcea hickmanii ssp. napensis</i>	Napa checkerbloom	None	None	-	1B.1
CALISTOGA	<i>Clarkia breweri</i>	Brewer's clarkia	None	None	-	4.2
CALISTOGA	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
CALISTOGA	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
CALISTOGA	<i>Poa napensis</i>	Napa blue grass	End	End	-	1B.1
CALISTOGA	<i>Puccinellia simplex</i>	California alkali grass	None	None	-	1B.2
CALISTOGA	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
CALISTOGA	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
CALISTOGA	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
CALISTOGA	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
CALISTOGA	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
CALISTOGA	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
CALISTOGA	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
CALISTOGA	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
CALISTOGA	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
CALISTOGA	<i>Triteleia lugens</i>	dark-mouthed triteleia	None	None	-	4.3

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CHILES VALLEY	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
CHILES VALLEY	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
CHILES VALLEY	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
CHILES VALLEY	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
CHILES VALLEY	<i>Ardea herodias</i>	great blue heron	None	None	-	-
CHILES VALLEY	<i>Agelaius tricolor</i>	tricolored blackbird	None	Threat	SSC	-
CHILES VALLEY	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
CHILES VALLEY	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
CHILES VALLEY	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
CHILES VALLEY	<i>Myotis evotis</i>	long-eared myotis	None	None	-	-
CHILES VALLEY	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
CHILES VALLEY	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
CHILES VALLEY	<i>Northern Vernal Pool</i>	Northern Vernal Pool	None	None	-	-
CHILES VALLEY	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
CHILES VALLEY	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
CHILES VALLEY	<i>Helianthus exilis</i>	serpentine sunflower	None	None	-	4.2
CHILES VALLEY	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
CHILES VALLEY	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
CHILES VALLEY	<i>Calystegia collina ssp. oxyphylla</i>	Mt. Saint Helena morning-glory	None	None	-	4.2
CHILES VALLEY	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
CHILES VALLEY	<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	-	4.3
CHILES VALLEY	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
CHILES VALLEY	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
CHILES VALLEY	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
CHILES VALLEY	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
CHILES VALLEY	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
CHILES VALLEY	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
CHILES VALLEY	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
CHILES VALLEY	<i>Navarretia rosulata</i>	Marin County navarretia	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CHILES VALLEY	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
CHILES VALLEY	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
CHILES VALLEY	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
CHILES VALLEY	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
GLEN ELLEN	<i>Ambystoma californiense</i>	California tiger salamander	Threat	Threat	WL	-
GLEN ELLEN	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
GLEN ELLEN	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
GLEN ELLEN	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
GLEN ELLEN	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
GLEN ELLEN	<i>Accipiter cooperii</i>	Cooper's hawk	None	None	WL	-
GLEN ELLEN	<i>Accipiter striatus</i>	sharp-shinned hawk	None	None	WL	-
GLEN ELLEN	<i>Aquila chrysaetos</i>	golden eagle	None	None	FP ; WL	-
GLEN ELLEN	<i>Buteo regalis</i>	ferruginous hawk	None	None	WL	-
GLEN ELLEN	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
GLEN ELLEN	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
GLEN ELLEN	<i>Eremophila alpestris actia</i>	California horned lark	None	None	WL	-
GLEN ELLEN	<i>Ardea herodias</i>	great blue heron	None	None	-	-
GLEN ELLEN	<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Threat	End	-	-
GLEN ELLEN	<i>Riparia riparia</i>	bank swallow	None	Threat	-	-
GLEN ELLEN	<i>Ammodramus savannarum</i>	grasshopper sparrow	None	None	SSC	-
GLEN ELLEN	<i>Asio flammeus</i>	short-eared owl	None	None	SSC	-
GLEN ELLEN	<i>Athene cunicularia</i>	burrowing owl	None	None	SSC	-
GLEN ELLEN	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
GLEN ELLEN	<i>Selasphorus rufus</i>	rufous hummingbird	None	None	-	-
GLEN ELLEN	<i>Empidonax traillii</i>	willow flycatcher	None	End	-	-
GLEN ELLEN	<i>Caecidotea tomalensis</i>	Tomales isopod	None	None	-	-
GLEN ELLEN	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
GLEN ELLEN	<i>Linderiella occidentalis</i>	California linderiella	None	None	-	-
GLEN ELLEN	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
GLEN ELLEN	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
GLEN ELLEN	<i>Bombus crotchii</i>	Crotch bumble bee	None	Cand End	-	-
GLEN ELLEN	<i>Bombus occidentalis</i>	western bumble bee	None	Cand End	-	-
GLEN ELLEN	<i>Hydrochara rickseckeri</i>	Ricksecker's water scavenger beetle	None	None	-	-
GLEN ELLEN	<i>Vulpes vulpes patwin</i>	Sacramento Valley red fox	None	None	-	-
GLEN ELLEN	<i>Taxidea taxus</i>	American badger	None	None	SSC	-
GLEN ELLEN	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
GLEN ELLEN	<i>Myotis thysanodes</i>	fringed myotis	None	None	-	-
GLEN ELLEN	<i>Myotis volans</i>	long-legged myotis	None	None	-	-
GLEN ELLEN	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
GLEN ELLEN	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
GLEN ELLEN	<i>Northern Vernal Pool</i>	Northern Vernal Pool	None	None	-	-
GLEN ELLEN	<i>Blennosperma bakeri</i>	Sonoma sunshine	End	End	-	1B.1
GLEN ELLEN	<i>Hemizonia congesta ssp. congesta</i>	congested-headed hayfield tarplant	None	None	-	1B.2
GLEN ELLEN	<i>Downingia pusilla</i>	dwarf downingia	None	None	-	2B.2
GLEN ELLEN	<i>Legenere limosa</i>	legenere	None	None	-	1B.1
GLEN ELLEN	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
GLEN ELLEN	<i>Iris longipetala</i>	coast iris	None	None	-	4.2
GLEN ELLEN	<i>Fritillaria liliacea</i>	fragrant fritillary	None	None	-	1B.2
GLEN ELLEN	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
GLEN ELLEN	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
GLEN ELLEN	<i>Navarretia cotulifolia</i>	cotula navarretia	None	None	-	4.2
GLEN ELLEN	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
GLEN ELLEN	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
GLEN ELLEN	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
GLEN ELLEN	<i>Triteleia lugens</i>	dark-mouthed triteleia	None	None	-	4.3
KENWOOD	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
KENWOOD	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
KENWOOD	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
KENWOOD	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
KENWOOD	<i>Taricha torosa</i>	Coast Range newt	None	None	SSC	-
KENWOOD	<i>Ardea herodias</i>	great blue heron	None	None	-	-
KENWOOD	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
KENWOOD	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
KENWOOD	<i>Hysteroecarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
KENWOOD	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
KENWOOD	<i>Oncorhynchus tshawytscha pop. 17</i>	chinook salmon - California coastal ESU	Threat	None	-	-
KENWOOD	<i>Bombus occidentalis</i>	western bumble bee	None	Cand End	-	-
KENWOOD	<i>Hydroporus leechi</i>	Leech's skyline diving beetle	None	None	-	-
KENWOOD	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
KENWOOD	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
KENWOOD	<i>Northern Vernal Pool</i>	Northern Vernal Pool	None	None	-	-
KENWOOD	<i>Valley Needlegrass Grassland</i>	Valley Needlegrass Grassland	None	None	-	-
KENWOOD	<i>Allium peninsulare var. franciscanum</i>	Franciscan onion	None	None	-	1B.2
KENWOOD	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
KENWOOD	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
KENWOOD	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
KENWOOD	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
KENWOOD	<i>Downingia pusilla</i>	dwarf downingia	None	None	-	2B.2
KENWOOD	<i>Viburnum ellipticum</i>	oval-leaved viburnum	None	None	-	2B.3
KENWOOD	<i>Arctostaphylos stanfordiana ssp. decumbens</i>	Rincon Ridge manzanita	None	None	-	1B.1
KENWOOD	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
KENWOOD	<i>Hosackia gracilis</i>	harlequin lotus	None	None	-	4.2
KENWOOD	<i>Trifolium amoenum</i>	two-fork clover	End	None	-	1B.1
KENWOOD	<i>Iris longipetala</i>	coast iris	None	None	-	4.2
KENWOOD	<i>Monardella viridis</i>	green monardella	None	None	-	4.3
KENWOOD	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
KENWOOD	<i>Calochortus uniflorus</i>	pink star-tulip	None	None	-	4.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
KENWOOD	<i>Lilium rubescens</i>	redwood lily	None	None	-	4.2
KENWOOD	<i>Sidalcea oregana ssp. valida</i>	Kenwood Marsh checkerbloom	End	End	-	1B.1
KENWOOD	<i>Calandrinia breweri</i>	Brewer's calandrinia	None	None	-	4.2
KENWOOD	<i>Clarkia breweri</i>	Brewer's clarkia	None	None	-	4.2
KENWOOD	<i>Castilleja ambigua var. ambigua</i>	johnny-nip	None	None	-	4.2
KENWOOD	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
KENWOOD	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
KENWOOD	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
KENWOOD	<i>Alopecurus aequalis var. sonomensis</i>	Sonoma alopecurus	End	None	-	1B.1
KENWOOD	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
KENWOOD	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
KENWOOD	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
KENWOOD	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
KENWOOD	<i>Navarretia heterandra</i>	Tehama navarretia	None	None	-	4.3
KENWOOD	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
KENWOOD	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
KENWOOD	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
KENWOOD	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
KENWOOD	<i>Ceanothus gloriosus var. exaltatus</i>	glory brush	None	None	-	4.3
KENWOOD	<i>Ceanothus purpureus</i>	holly-leaved ceanothus	None	None	-	1B.2
KENWOOD	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
KENWOOD	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
KENWOOD	<i>Triteleia lugens</i>	dark-mouthed triteleia	None	None	-	4.3
NAPA	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
NAPA	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
NAPA	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
NAPA	<i>Buteo swainsoni</i>	Swainson's hawk	None	Threat	-	-
NAPA	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
NAPA	<i>Ardea alba</i>	great egret	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
NAPA	<i>Ardea herodias</i>	great blue heron	None	None	-	-
NAPA	<i>Egretta thula</i>	snowy egret	None	None	-	-
NAPA	<i>Nycticorax nycticorax</i>	black-crowned night heron	None	None	-	-
NAPA	<i>Riparia riparia</i>	bank swallow	None	Threat	-	-
NAPA	<i>Pandion haliaetus</i>	osprey	None	None	WL	-
NAPA	<i>Geothlypis trichas sinuosa</i>	saltmarsh common yellowthroat	None	None	SSC	-
NAPA	<i>Setophaga petechia</i>	yellow warbler	None	None	SSC	-
NAPA	<i>Melospiza melodia samuelis</i>	San Pablo song sparrow	None	None	SSC	-
NAPA	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
NAPA	<i>Calasellus californicus</i>	An isopod	None	None	-	-
NAPA	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
NAPA	<i>Mylopharodon conocephalus</i>	hardhead	None	None	SSC	-
NAPA	<i>Pogonichthys macrolepidotus</i>	Sacramento splittail	None	None	SSC	-
NAPA	<i>Hysterocarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
NAPA	<i>Hysterocarpus traskii traskii</i>	Sacramento-San Joaquin tule perch	None	None	-	-
NAPA	<i>Hypomesus transpacificus</i>	Delta smelt	Threat	End	-	-
NAPA	<i>Spirinchus thaleichthys</i>	longfin smelt	Cand	Threat	-	-
NAPA	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
NAPA	<i>Lampetra ayresii</i>	western river lamprey	None	None	SSC	-
NAPA	<i>Lampetra richardsoni</i>	western brook lamprey	None	None	SSC	-
NAPA	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
NAPA	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
NAPA	<i>Bombus occidentalis</i>	western bumble bee	None	Cand End	-	-
NAPA	<i>Taxidea taxus</i>	American badger	None	None	SSC	-
NAPA	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
NAPA	<i>Gonidea angulata</i>	western ridged mussel	None	None	-	-
NAPA	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
NAPA	<i>Allium peninsulare var. franciscanum</i>	Franciscan onion	None	None	-	1B.2
NAPA	<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	None	Rare	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
NAPA	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
NAPA	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
NAPA	<i>Lasthenia conjugens</i>	Contra Costa goldfields	End	None	-	1B.1
NAPA	<i>Symphotrichum lentum</i>	Suisun Marsh aster	None	None	-	1B.2
NAPA	<i>Downingia pusilla</i>	dwarf downingia	None	None	-	2B.2
NAPA	<i>Extriplex joaquinana</i>	San Joaquin spearscale	None	None	-	1B.2
NAPA	<i>Eleocharis parvula</i>	small spikerush	None	None	-	4.3
NAPA	<i>Astragalus tener var. tener</i>	alkali milk-vetch	None	None	-	1B.2
NAPA	<i>Lathyrus jepsonii var. jepsonii</i>	Delta tule pea	None	None	-	1B.2
NAPA	<i>Trifolium amoenum</i>	two-fork clover	End	None	-	1B.1
NAPA	<i>Trifolium hydrophilum</i>	saline clover	None	None	-	1B.2
NAPA	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
NAPA	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
NAPA	<i>Calandrinia breweri</i>	Brewer's calandrinia	None	None	-	4.2
NAPA	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
NAPA	<i>Castilleja ambigua var. ambigua</i>	johnny-nip	None	None	-	4.2
NAPA	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
NAPA	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
NAPA	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
NAPA	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
RUTHERFORD	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
RUTHERFORD	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
RUTHERFORD	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
RUTHERFORD	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
RUTHERFORD	<i>Buteo swainsoni</i>	Swainson's hawk	None	Threat	-	-
RUTHERFORD	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
RUTHERFORD	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
RUTHERFORD	<i>Cypseloides niger</i>	black swift	None	None	SSC	-
RUTHERFORD	<i>Ardea herodias</i>	great blue heron	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
RUTHERFORD	<i>Nycticorax nycticorax</i>	black-crowned night heron	None	None	-	-
RUTHERFORD	<i>Icteria virens</i>	yellow-breasted chat	None	None	SSC	-
RUTHERFORD	<i>Setophaga petechia</i>	yellow warbler	None	None	SSC	-
RUTHERFORD	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
RUTHERFORD	<i>Calasellus californicus</i>	An isopod	None	None	-	-
RUTHERFORD	<i>Lavinia exilicauda exilicauda</i>	Sacramento hitch	None	None	SSC	-
RUTHERFORD	<i>Mylopharodon conocephalus</i>	hardhead	None	None	SSC	-
RUTHERFORD	<i>Hysteroecarpus traskii pomo</i>	Russian River tule perch	None	None	SSC	-
RUTHERFORD	<i>Entosphenus tridentatus</i>	Pacific lamprey	None	None	SSC	-
RUTHERFORD	<i>Lampetra ayresii</i>	western river lamprey	None	None	SSC	-
RUTHERFORD	<i>Lampetra richardsoni</i>	western brook lamprey	None	None	SSC	-
RUTHERFORD	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
RUTHERFORD	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
RUTHERFORD	<i>Trachusa gummifera</i>	San Francisco Bay Area leaf-cutter bee	None	None	-	-
RUTHERFORD	<i>Erethizon dorsatum</i>	North American porcupine	None	None	-	-
RUTHERFORD	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
RUTHERFORD	<i>Gonidea angulata</i>	western ridged mussel	None	None	-	-
RUTHERFORD	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
RUTHERFORD	<i>Eryngium jepsonii</i>	Jepson's coyote-thistle	None	None	-	1B.2
RUTHERFORD	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
RUTHERFORD	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
RUTHERFORD	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
RUTHERFORD	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
RUTHERFORD	<i>Helianthus exilis</i>	serpentine sunflower	None	None	-	4.2
RUTHERFORD	<i>Amsinckia lunaris</i>	bent-flowered fiddleneck	None	None	-	1B.2
RUTHERFORD	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
RUTHERFORD	<i>Arctostaphylos stanfordiana ssp. decumbens</i>	Rincon Ridge manzanita	None	None	-	1B.1
RUTHERFORD	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
RUTHERFORD	<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	End	Threat	-	1B.1

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
RUTHERFORD	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
RUTHERFORD	<i>Clarkia breweri</i>	Brewer's clarkia	None	None	-	4.2
RUTHERFORD	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
RUTHERFORD	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
RUTHERFORD	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
RUTHERFORD	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
RUTHERFORD	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
RUTHERFORD	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
RUTHERFORD	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
RUTHERFORD	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
SONOMA	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
SONOMA	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
SONOMA	<i>Taricha rivularis</i>	red-bellied newt	None	None	SSC	-
SONOMA	<i>Accipiter cooperii</i>	Cooper's hawk	None	None	WL	-
SONOMA	<i>Cypseloides niger</i>	black swift	None	None	SSC	-
SONOMA	<i>Falco columbarius</i>	merlin	None	None	WL	-
SONOMA	<i>Spinus lawrencei</i>	Lawrence's goldfinch	None	None	-	-
SONOMA	<i>Riparia riparia</i>	bank swallow	None	Threat	-	-
SONOMA	<i>Melospiza melodia samuelis</i>	San Pablo song sparrow	None	None	SSC	-
SONOMA	<i>Passerculus sandwichensis alaudinus</i>	Bryant's savannah sparrow	None	None	SSC	-
SONOMA	<i>Coturnicops noveboracensis</i>	yellow rail	None	None	SSC	-
SONOMA	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
SONOMA	<i>Selasphorus rufus</i>	rufous hummingbird	None	None	-	-
SONOMA	<i>Syncaris pacifica</i>	California freshwater shrimp	End	End	-	-
SONOMA	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
SONOMA	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
SONOMA	<i>Bombus occidentalis</i>	western bumble bee	None	Cand End	-	-
SONOMA	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
SONOMA	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
SONOMA	<i>Allium peninsulare var. franciscanum</i>	Franciscan onion	None	None	-	1B.2
SONOMA	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
SONOMA	<i>Balsamorhiza macrolepis</i>	big-scale balsamroot	None	None	-	1B.2
SONOMA	<i>Blennosperma bakeri</i>	Sonoma sunshine	End	End	-	1B.1
SONOMA	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
SONOMA	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
SONOMA	<i>Hemizonia congesta ssp. congesta</i>	congested-headed hayfield tarplant	None	None	-	1B.2
SONOMA	<i>Downingia pusilla</i>	dwarf downingia	None	None	-	2B.2
SONOMA	<i>Viburnum ellipticum</i>	oval-leaved viburnum	None	None	-	2B.3
SONOMA	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
SONOMA	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2
SONOMA	<i>Monardella viridis</i>	green monardella	None	None	-	4.3
SONOMA	<i>Lilium rubescens</i>	redwood lily	None	None	-	4.2
SONOMA	<i>Sidalcea hickmanii ssp. napensis</i>	Napa checkerbloom	None	None	-	1B.1
SONOMA	<i>Calandrinia breweri</i>	Brewer's calandrinia	None	None	-	4.2
SONOMA	<i>Antirrhinum virga</i>	twig-like snapdragon	None	None	-	4.3
SONOMA	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
SONOMA	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
SONOMA	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
SONOMA	<i>Horkelia tenuiloba</i>	thin-lobed horkelia	None	None	-	1B.2
SONOMA	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
SONOMA	<i>Triteleia lugens</i>	dark-mouthed triteleia	None	None	-	4.3
ST. HELENA	<i>Dicamptodon ensatus</i>	California giant salamander	None	None	SSC	-
ST. HELENA	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
ST. HELENA	<i>Rana draytonii</i>	California red-legged frog	Threat	None	SSC	-
ST. HELENA	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
ST. HELENA	<i>Ardea herodias</i>	great blue heron	None	None	-	-
ST. HELENA	<i>Progne subis</i>	purple martin	None	None	SSC	-
ST. HELENA	<i>Setophaga petechia</i>	yellow warbler	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
ST. HELENA	<i>Athene cunicularia</i>	burrowing owl	None	None	SSC	-
ST. HELENA	<i>Strix occidentalis caurina</i>	Northern Spotted Owl	Threat	Threat	-	-
ST. HELENA	<i>Calasellus californicus</i>	An isopod	None	None	-	-
ST. HELENA	<i>Lavinia exilicauda exilicauda</i>	Sacramento hitch	None	None	SSC	-
ST. HELENA	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
ST. HELENA	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
ST. HELENA	<i>Erethizon dorsatum</i>	North American porcupine	None	None	-	-
ST. HELENA	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
ST. HELENA	<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	SSC	-
ST. HELENA	<i>Myotis evotis</i>	long-eared myotis	None	None	-	-
ST. HELENA	<i>Myotis thysanodes</i>	fringed myotis	None	None	-	-
ST. HELENA	<i>Myotis yumanensis</i>	Yuma myotis	None	None	-	-
ST. HELENA	<i>Margaritifera falcata</i>	western pearlshell	None	None	-	-
ST. HELENA	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
ST. HELENA	<i>Northern Vernal Pool</i>	Northern Vernal Pool	None	None	-	-
ST. HELENA	<i>Sagittaria sanfordii</i>	Sanford's arrowhead	None	None	-	1B.2
ST. HELENA	<i>Eryngium jepsonii</i>	Jepson's coyote-thistle	None	None	-	1B.2
ST. HELENA	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
ST. HELENA	<i>Erigeron biolettii</i>	streamside daisy	None	None	-	3
ST. HELENA	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
ST. HELENA	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
ST. HELENA	<i>Helianthus exilis</i>	serpentine sunflower	None	None	-	4.2
ST. HELENA	<i>Layia septentrionalis</i>	Colusa layia	None	None	-	1B.2
ST. HELENA	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
ST. HELENA	<i>Amorpha californica var. napensis</i>	Napa false indigo	None	None	-	1B.2
ST. HELENA	<i>Astragalus breweri</i>	Brewer's milk-vetch	None	None	-	4.2
ST. HELENA	<i>Astragalus claranus</i>	Clara Hunt's milk-vetch	End	Threat	-	1B.1
ST. HELENA	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
ST. HELENA	<i>Lupinus sericatus</i>	Cobb Mountain lupine	None	None	-	1B.2

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
ST. HELENA	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
ST. HELENA	<i>Erythronium helenae</i>	St. Helena fawn lily	None	None	-	4.2
ST. HELENA	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
ST. HELENA	<i>Sidalcea oregana ssp. hydrophila</i>	marsh checkerbloom	None	None	-	1B.2
ST. HELENA	<i>Toxicoscordion fontanum</i>	marsh zigadenus	None	None	-	4.2
ST. HELENA	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
ST. HELENA	<i>Castilleja ambigua var. ambigua</i>	johnny-nip	None	None	-	4.2
ST. HELENA	<i>Cordylanthus tenuis ssp. brunneus</i>	serpentine bird's-beak	None	None	-	4.3
ST. HELENA	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3
ST. HELENA	<i>Calamagrostis ophitidis</i>	serpentine reed grass	None	None	-	4.3
ST. HELENA	<i>Collomia diversifolia</i>	serpentine collomia	None	None	-	4.3
ST. HELENA	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
ST. HELENA	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
ST. HELENA	<i>Navarretia cotulifolia</i>	cotula navarretia	None	None	-	4.2
ST. HELENA	<i>Navarretia leucocephala ssp. bakeri</i>	Baker's navarretia	None	None	-	1B.1
ST. HELENA	<i>Delphinium uliginosum</i>	swamp larkspur	None	None	-	4.2
ST. HELENA	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
ST. HELENA	<i>Ceanothus confusus</i>	Rincon Ridge ceanothus	None	None	-	1B.1
ST. HELENA	<i>Ceanothus divergens</i>	Calistoga ceanothus	None	None	-	1B.2
ST. HELENA	<i>Ceanothus pinetorum</i>	Kern ceanothus	None	None	-	4.3
ST. HELENA	<i>Ceanothus purpureus</i>	holly-leaved ceanothus	None	None	-	1B.2
ST. HELENA	<i>Ceanothus sonomensis</i>	Sonoma ceanothus	None	None	-	1B.2
ST. HELENA	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2
ST. HELENA	<i>Triteleia lugens</i>	dark-mouthed triteleia	None	None	-	4.3
YOUNTVILLE	<i>Rana boylei</i>	foothill yellow-legged frog	None	End	SSC	-
YOUNTVILLE	<i>Elanus leucurus</i>	white-tailed kite	None	None	FP	-
YOUNTVILLE	<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	End	FP	-
YOUNTVILLE	<i>Ardea alba</i>	great egret	None	None	-	-
YOUNTVILLE	<i>Ardea herodias</i>	great blue heron	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
YOUNTVILLE	<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Delisted	FP	-
YOUNTVILLE	<i>Icteria virens</i>	yellow-breasted chat	None	None	SSC	-
YOUNTVILLE	<i>Setophaga petechia</i>	yellow warbler	None	None	SSC	-
YOUNTVILLE	<i>Phalacrocorax auritus</i>	double-crested cormorant	None	None	WL	-
YOUNTVILLE	<i>Calasellus californicus</i>	An isopod	None	None	-	-
YOUNTVILLE	<i>Stygobromus cowani</i>	Cowan's amphipod	None	None	-	-
YOUNTVILLE	<i>Lavinia exilicauda exilicauda</i>	Sacramento hitch	None	None	SSC	-
YOUNTVILLE	<i>Mylopharodon conocephalus</i>	hardhead	None	None	SSC	-
YOUNTVILLE	<i>Oncorhynchus mykiss irideus pop. 8</i>	steelhead - central California coast DPS	Threat	None	-	-
YOUNTVILLE	<i>Bombus caliginosus</i>	obscure bumble bee	None	None	-	-
YOUNTVILLE	<i>Antrozous pallidus</i>	pallid bat	None	None	SSC	-
YOUNTVILLE	<i>Emys marmorata</i>	western pond turtle	None	None	SSC	-
YOUNTVILLE	<i>Sagittaria sanfordii</i>	Sanford's arrowhead	None	None	-	1B.2
YOUNTVILLE	<i>Eryngium jepsonii</i>	Jepson's coyote-thistle	None	None	-	1B.2
YOUNTVILLE	<i>Lomatium repostum</i>	Napa lomatium	None	None	-	4.3
YOUNTVILLE	<i>Erigeron greenei</i>	Greene's narrow-leaved daisy	None	None	-	1B.2
YOUNTVILLE	<i>Harmonia nutans</i>	nodding harmonia	None	None	-	4.3
YOUNTVILLE	<i>Micropus amphibolus</i>	Mt. Diablo cottonweed	None	None	-	3.2
YOUNTVILLE	<i>Streptanthus hesperidis</i>	green jewelflower	None	None	-	1B.2
YOUNTVILLE	<i>Downingia pusilla</i>	dwarf downingia	None	None	-	2B.2
YOUNTVILLE	<i>Astragalus clevelandii</i>	Cleveland's milk-vetch	None	None	-	4.3
YOUNTVILLE	<i>Monardella viridis</i>	green monardella	None	None	-	4.3
YOUNTVILLE	<i>Trichostema ruygtii</i>	Napa bluecurls	None	None	-	1B.2
YOUNTVILLE	<i>Limnanthes vincularis</i>	Sebastopol meadowfoam	End	End	-	1B.1
YOUNTVILLE	<i>Hesperolinon sharsmithiae</i>	Sharsmith's western flax	None	None	-	1B.2
YOUNTVILLE	<i>Clarkia gracilis ssp. tracyi</i>	Tracy's clarkia	None	None	-	4.2
YOUNTVILLE	<i>Castilleja ambigua var. ambigua</i>	johnny-nip	None	None	-	4.2
YOUNTVILLE	<i>Castilleja ambigua var. meadii</i>	Mead's owls-clover	None	None	-	1B.1
YOUNTVILLE	<i>Penstemon newberryi var. sonomensis</i>	Sonoma beardtongue	None	None	-	1B.3

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
YOUNTVILLE	<i>Leptosiphon acicularis</i>	bristly leptosiphon	None	None	-	4.2
YOUNTVILLE	<i>Leptosiphon jepsonii</i>	Jepson's leptosiphon	None	None	-	1B.2
YOUNTVILLE	<i>Leptosiphon latisectus</i>	broad-lobed leptosiphon	None	None	-	4.3
YOUNTVILLE	<i>Navarretia leucocephala ssp. pauciflora</i>	few-flowered navarretia	End	Threat	-	1B.1
YOUNTVILLE	<i>Ranunculus lobbii</i>	Lobb's aquatic buttercup	None	None	-	4.2
YOUNTVILLE	<i>Ceanothus purpureus</i>	holly-leaved ceanothus	None	None	-	1B.2
YOUNTVILLE	<i>Brodiaea leptandra</i>	narrow-anthered brodiaea	None	None	-	1B.2

KEY FOR 9-QUAD LIST:

- 1B.1 = Rare, threatened, or endangered in California and elsewhere; seriously threatened in California
1B.2 = Rare, threatened, or endangered in California and elsewhere; fairly threatened in California
1B.3 = Rare, threatened, or endangered in California and elsewhere; not very threatened in California
2A = Presumed extinct in California, but extant elsewhere
2B.1 = Rare, threatened, or endangered in Calif., but more common elsewhere; seriously threatened in Calif.
2B.2 = Rare, threatened, or endangered in Calif., but more common elsewhere; fairly threatened in Calif.
2B.3 = Rare, threatened, or endangered in Calif., but more common elsewhere; not very threatened in Calif.
3 = Plants about which we need more information (Review List)
3.1 = Plants about which we need more information (Review List); seriously threatened in California
3.2 = Plants about which we need more information (Review List); fairly threatened in California
3.3 = Plants about which we need more information (Review List); not very threatened in California
4.2 = Plants of limited distribution (watch list); fairly threatened in California
4.3 = Plants of limited distribution (watch list); not very threatened in California

SE/ST/SD=State Endangered/Threatened/Delisted

SSC=CDFW Species of Special Concern

WL=CDFW Watch List

FPE/FPT/FPD/FP=Federal Proposed Endangered/Threatened/Delisting

Threat=Threatened

Cand=Candidate

SC/SCD=State Candidate for Listing/Delisting

SFP=State Fully Protected

FE/FT/FD=Federal Endangered/Threatened/Delisted

FC=Federal Candidate

End=Endangered

Prop=Propose

APPENDIX B

WILDLIFE HABITAT RELATIONSHIPS SYSTEM RESULTS



CALIFORNIA WILDLIFE HABITAT RELATIONSHIPS SYSTEM
supported by the
CALIFORNIA INTERAGENCY WILDLIFE TASK GROUP
and maintained by the
CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
Database Version: 9.0

SPECIES SUMMARY REPORT

FE = Federal Endangered CF = California Fully Protected PT = Federally-Proposed Threatened CD = CDF Sensitive
 FT = Federal Threatened CP = California Protected FC = Federal Candidate HA = Harvest
 CE = California Endangered SC = California Species of Special Concern BL = BLM Sensitive
 CT = California Threatened PE = Federally-Proposed Endangered FS = USFS Sensitive

Note: Any given status code for a species may apply to the full species or to only one or more subspecies or distinct population segments.

ID	Species Name	Status	Native/ Introduced
A020	SPECKLED BLACK SALAMANDER		NATIVE
B116	COOPER'S HAWK		NATIVE
B119	RED-SHOULDERED HAWK		NATIVE
B124	FERRUGINOUS HAWK		NATIVE
B125	ROUGH-LEGGED HAWK		NATIVE
B127	AMERICAN KESTREL		NATIVE
B141	MOUNTAIN QUAIL	HA	NATIVE
B251	BAND-TAILED PIGEON	HA	NATIVE
B260	GREATER ROADRUNNER		NATIVE
B264	WESTERN SCREECH OWL		NATIVE
B265	GREAT HORNED OWL		NATIVE
B267	NORTHERN PYGMY OWL		NATIVE
B269	BURROWING OWL	SC BL	NATIVE
B272	LONG-EARED OWL	SC	NATIVE
B274	NORTHERN SAW-WHET OWL		NATIVE
B277	COMMON POORWILL		NATIVE
B286	BLACK-CHINNED HUMMINGBIRD		NATIVE
B287	ANNA'S HUMMINGBIRD		NATIVE
B289	CALLIOPE HUMMINGBIRD		NATIVE
B294	LEWIS' S WOODPECKER		NATIVE
B302	NUTTALL'S WOODPECKER		NATIVE
B303	DOWNY WOODPECKER		NATIVE
B304	HAIRY WOODPECKER		NATIVE

ID	Species Name	Status	Native/ Introduced
B307	NORTHERN FLICKER		NATIVE
B320	PACIFIC-SLOPE FLYCATCHER		NATIVE
B326	ASH-THROATED FLYCATCHER		NATIVE
B333	WESTERN KINGBIRD		NATIVE
B337	HORNED LARK		NATIVE
B338	PURPLE MARTIN	SC	NATIVE
B339	TREE SWALLOW		NATIVE
B348	WESTERN SCRUB-JAY		NATIVE
B358	OAK TITMOUSE		NATIVE
B360	BUSHTIT		NATIVE
B362	WHITE-BREASTED NUTHATCH		NATIVE
B368	BEWICK'S WREN	SC	NATIVE
B369	HOUSE WREN		NATIVE
B377	BLUE-GRAY GNATCATCHER		NATIVE
B381	MOUNTAIN BLUEBIRD		NATIVE
B385	SWAINSON'S THRUSH		NATIVE
B386	HERMIT THRUSH		NATIVE
B391	WRENTIT		NATIVE
B393	NORTHERN MOCKINGBIRD		NATIVE
B398	CALIFORNIA THRASHER		NATIVE
B408	PHAINOPEPLA		NATIVE
B410	LOGGERHEAD SHRIKE	FE SC	NATIVE
B417	HUTTON'S VIREO	SC	NATIVE
B418	WARBLING VIREO		NATIVE
B425	ORANGE-CROWNED WARBLER		NATIVE
B430	YELLOW WARBLER	SC	NATIVE
B436	BLACK-THROATED GRAY WARBLER		NATIVE
B437	TOWNSEND'S WARBLER		NATIVE
B460	MACGILLIVRAY'S WARBLER		NATIVE
B467	YELLOW-BREASTED CHAT	SC	NATIVE
B475	BLACK-HEADED GROSBEAK		NATIVE
B477	LAZULI BUNTING		NATIVE

ID	Species Name	Status				Native/ Introduced
B495	LARK SPARROW					NATIVE
B499	SAVANNAH SPARROW	CE	SC			NATIVE
B504	FOX SPARROW					NATIVE
B505	SONG SPARROW		SC			NATIVE
B506	LINCOLN'S SPARROW					NATIVE
B509	GOLDEN-CROWNED SPARROW					NATIVE
B510	WHITE-CROWNED SPARROW					NATIVE
B512	DARK-EYED JUNCO					NATIVE
B521	WESTERN MEADOWLARK					NATIVE
B524	BREWER'S BLACKBIRD					NATIVE
B528	BROWN-HEADED COWBIRD					NATIVE
B532	BULLOCK'S ORIOLE					NATIVE
B543	LESSER GOLDFINCH					NATIVE
B544	LAWRENCE'S GOLDFINCH					NATIVE
B545	AMERICAN GOLDFINCH					NATIVE
B699	BARRED OWL					NATIVE
M006	ORNATE SHREW	FE	SC			NATIVE
M033	WESTERN RED BAT		SC	FS		NATIVE
M034	HOARY BAT					NATIVE
M037	TOWNSEND'S BIG-EARED BAT		SC	BL FS		NATIVE
M045	BRUSH RABBIT	FE	CE		HA	NATIVE
M047	AUDUBON'S COTTONTAIL				HA	NATIVE
M051	BLACK-TAILED JACKRABBIT		SC		HA	NATIVE
M059	SONOMA CHIPMUNK					NATIVE
M105	CALIFORNIA KANGAROO RAT		SC			NATIVE
M113	WESTERN HARVEST MOUSE					NATIVE
M116	CALIFORNIA MOUSE					NATIVE
M117	DEER MOUSE		SC			NATIVE
M119	BRUSH MOUSE					NATIVE
M120	PINYON MOUSE					NATIVE
M134	CALIFORNIA VOLE	FE	CE	SC	BL	NATIVE
M151	BLACK BEAR				HA	NATIVE
M177	ELK				HA	NATIVE

ID	Species Name	Status	Native/ Introduced
M181	MULE DEER	HA	NATIVE
R071	DESERT NIGHTSNAKE		NATIVE

Total Number of Species: 90

Query Parameters

Included Locations

Napa Co

Included Location Seasons

Migrant, Summer, Winter, Yearlong

Included Habitats & (Stages)

Valley Foothill Riparian, Valley Oak Woodland, Vineyard

Habitat Suitability Threshold

Reproduction - Medium, Cover - Medium, Feeding - Medium

Included Habitat Seasons

Migrant, Summer, Winter, Yearlong

Excluded Elements

Algae, Aquatics - Submerged, Barren, Bogs, Campground, Carrion, Cave, Cliff, Cones, Dump, Grass/water, Jetty, Kelp, Lakes, Lichens, Lithic, Mine, Mud Flats, Nest Box, Nest Island, Nest Platform, Pack Stations, Ponds, Rivers, Rock, Salt Ponds, Sand Dune, Slash - Large (hollow), Slash - Large (rotten), Slash - Large (sound), Slash - Small, Soil - Aerated, Soil - Friable, Soil - Gravelly, Soil - Organic, Soil - Saline, Soil - Sandy, Springs, Springs - Hot, Springs - Mineral, Steep Slope, Streams - Permanent, Talus, Tidepools, Trees - Fir, Trees - Pine, Vernal Pools, Water, Water - Created Body, Water - Fast, Water/agriculture, Wharf

Included Species All Species Included

Included Special Statuses Native