
**BIOLOGICAL RESOURCE ASSESSMENT
WITH BOTANICAL SURVEY
for the
3545 FINLEY EAST ROAD PROPERTY**

**APN 008-026-07
LAKE COUNTY, CALIFORNIA**

July 28, 2021

**Prepared by
Northwest Biosurvey**



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APPENDIX A CNDDDB 9-Quad Species List

APPENDIX B Regional CWHR Species List

1.0 PROJECT DESCRIPTION

1.1 Proposed Project: This biological resource assessment and survey covers a parcel approximately 24.9 acres in size, a portion of which is proposed for cannabis cultivation. Vegetation types have been mapped for the entire parcel.

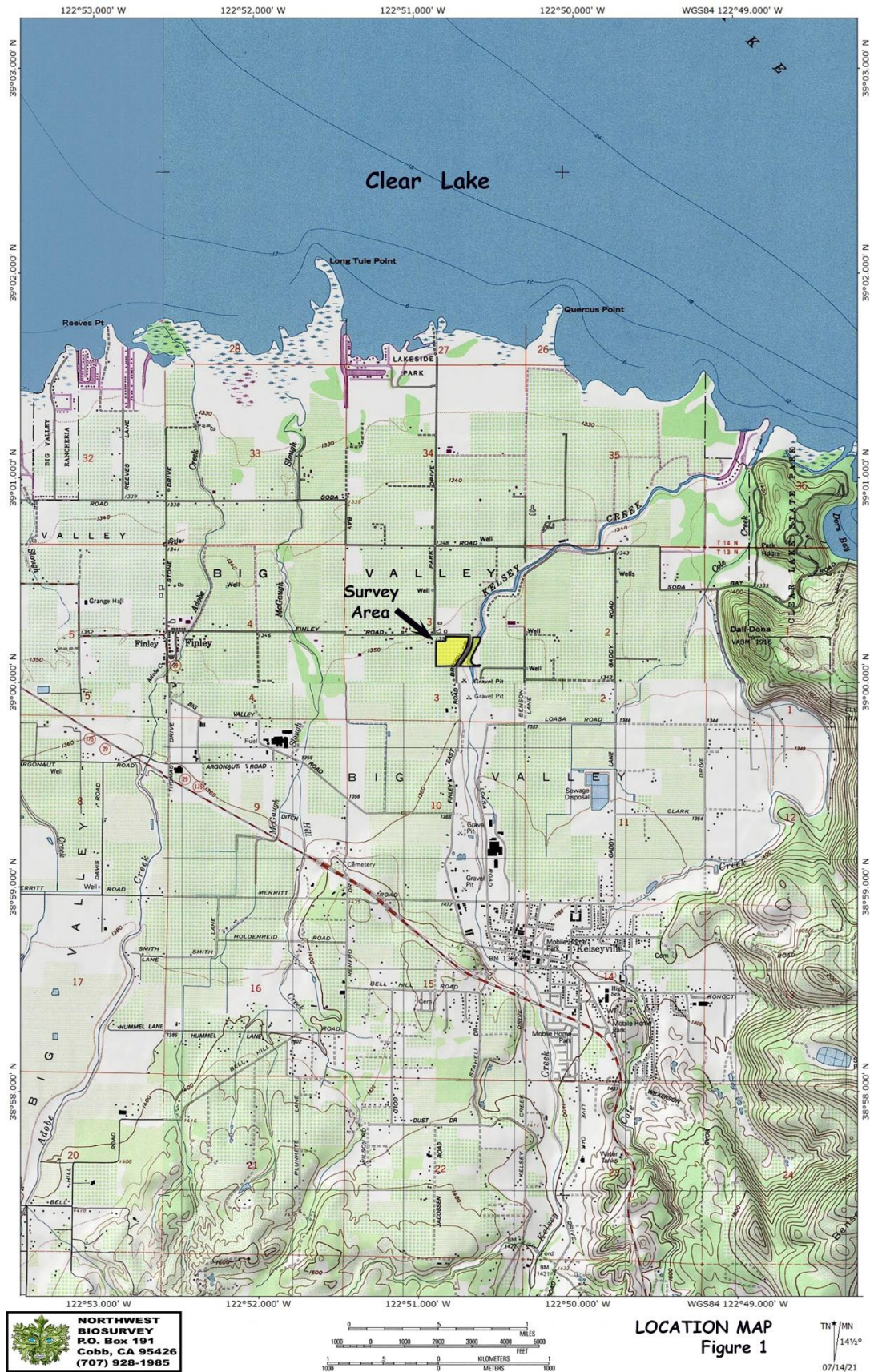
The local permitting agency is requesting completion of a botanical survey and assessment of biological resources on the property as part of the California Environmental Quality Act (CEQA) review required for new development. The initial phase of this assessment evaluates the potential of the parcel to contain sensitive plant and wildlife habitat. 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 (CNDDB) list of "Special Status Plants, Animals and Natural Communities".

The second phase consists of field surveys including a floristic-level botanical survey listing all plant taxa¹ within the survey boundaries.

A delineation of waters of the U.S. was not conducted due to the apparent absence of surface waters within the proposed project area. Kelsey Creek is on the parcel, but it is separated from the project area by Finley East Road.

1.2 Location: The project site is located at 3545 Finley East Road, Finley, California (APN 008-026-07; Sec. 3, T13N R9W, Lucerne, 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.



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.

- 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 digital 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

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 Lucerne 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"=70' 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**.

2.2 Survey Dates: Site visits for in-season floristic surveys and mapping were made on May 25 and July 13, 2021.

2.3 Biological Assessment Staff: Field surveys and plant taxonomy 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 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 years.

Database review and report preparation were conducted by Danielle Zalusky, Northwest Biosurvey principal planner. Ms. Zalusky has 15 years of experience as a planner in local government and the private sector and over 17 years as a field biologist. She has a Bachelor of Arts Degree and 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 proposed Finley East Road cannabis garden is located within the Big Valley of Lake County at an elevation of 1,350 feet along the west bank of Kelsey Creek. The property drains east as sheet flow over flat terrain to Kelsey Creek. Kelsey Creek flows northeast approximately 2 miles to Clear Lake and enters the lake just west of Clear Lake State Park. Clear Lake drains southeast through the rugged Interior North Coast Range to the Sacramento River in the California Central Valley.

3.2 Soils: The project area contains a single soil type:

- **Cole clay loam, drained (soil unit 123):**

This very deep soil is in basins and on flood plains. It formed under somewhat poorly drained conditions, but drainage has been improved in most areas as a result of entrenchment of stream channels. The soil formed in alluvium derived from mixed rock sources. Permeability is slow, runoff is slow, and erosion hazard is slight. Shrink-swell potential is high. The soil is subject to rare periods of flooding or ponding during prolonged, high-intensity storms. Natural vegetation is mostly annual grasses and forbs. Xerofluvents are adjacent to stream channels. Small areas of calcareous (chalky) soils occur in more poorly drained areas.

3.3 Vegetation Types: The entire property was mapped for vegetation in order to provide project context. The property contains three plant communities or vegetation types 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**. They are 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 |
|----------------------------------|---------------------------------|------------------------------------|--|--|
| Valley Oak Woodland | 3.46 | 13.84 | 0.00 | 0.00 |
| Wild Oat Grassland | 0.66 | 2.65 | 0.00 | 0.00 |
| Fallow Agricultural Field | 19.50 | 78.36 | 1.70 | 8.72 |
| Riparian Scour Zone | 0.74 | 3.14 | 0.00 | 0.00 |
| Ruderal (Disturbed) | 0.50 | 2.01 | 0.00 | 0.00 |
| TOTAL ACRES OF COVER TYPE | 24.86 | 100.00 | 1.70 | 6.84* |

* Percent of property within project footprint.

- **Valley Oak Woodland**

Kelsey Creek supports a mature, multilayered California valley oak riparian woodland along its upper banks. Valley oaks (*Quercus lobata*) provide 60-80 percent canopy cover along the upper banks. Oregon ash (*Fraxinus latifolia*) and Northern California black walnut (*Juglans hindsii*) form a well-developed sub-canopy. The ground cover here is a mix of more mesic (dry soil) grasses and forbs including California fescue (*Festuca californica*) and mugwort (*Artemisia douglasiana*). Along the exposed lower channel banks, adjacent to the stream scour zone, red willow (*Salix laevigata*) provides a dense canopy cover.

The steep intervening banks support a mix of poison oak (*Toxicodendron diversilobum*) and common snowberry (*Symphoricarpos albus* var. *laevigatus*) interspersed with openings of wild oat grassland.

- **Wild Oat Grassland**

Wild oat grassland occurs as a ground cover beneath the valley oak woodland and is the primary cover in woodland openings along the terraces adjacent to Kelsey Creek. This is a heterogeneous mix of grasses and forbs dominated by slender wild oat (*Avena barbata*) but contains a varying contribution of ripgut grass (*Bromus diandrus*), hedgehog dogtail (*Cynosurus echinatus*), medusahead (*Elymus caput-medusae*), spring vetch (*Vicia sativa* ssp. *sativa*), miniature lupine (*Lupinus bicolor*), and four-spot (*Clarkia purpurea* ssp. *quadrivulnera*).

- **Fallow Agriculture**

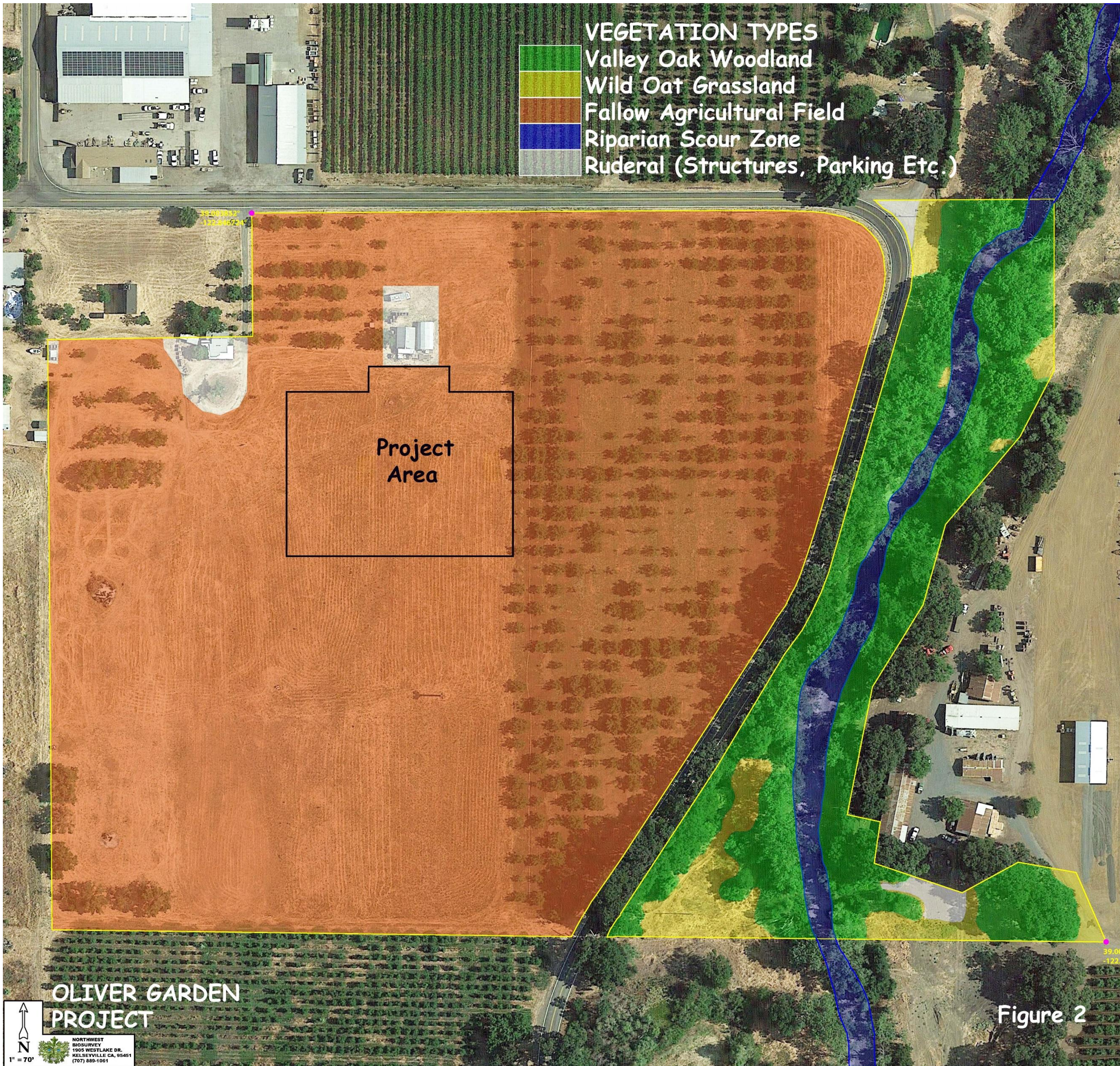
The majority of the property consists of fallow field formerly supporting a walnut orchard which has been removed. The current ground cover consists of the more xeric (dry soil) members of the wild oat grassland, including slender wild oat and ripgut grass.

- **Riparian Scour Zone**

The active channel area of Kelsey Creek is primarily an unvegetated scour zone of cobble and gravel.

- **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 Lists 1B through 4. The query included all plants within this area of Lake County occurring within the plant communities identified on the property. 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. It is important to note that this list includes species for which appropriate habitat is not present on the parcel (including vernal pool species, etc.). The CNPS database search does not allow fine-tuning for specific soil types and many specific habitats.

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 Lucerne 7½' quadrangle were reviewed for this project. **Table 3** presents a list of sensitive plant and wildlife species known to occur within this quadrangle. In addition to listing the species present within these quadrangles, the table provides a brief description 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:

3545 Finley East Road APN 008-026-07

| Scientific Name | Common Name | Family | Lifeform | CRPR | CESA | FESA | Blooming Period | Habitat/Micro-Habitat |
|--|--------------------------|---------------|---------------------------|------|------|------|-------------------|--|
| <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 manzanita ssp. elegans</i> | Konocti manzanita | Ericaceae | perennial evergreen shrub | 1B.3 | None | None | (Jan)Mar-May(Jul) | Chaparral, Cismontane woodland, Lower montane coniferous forest |
| <i>Hesperolinon adenophyllum</i> | glandular western flax | Linaceae | annual herb | 1B.2 | None | None | May-Aug | Chaparral, Cismontane woodland, Valley and foothill grassland |
| <i>Layia septentrionalis</i> | Colusa layia | Asteraceae | annual herb | 1B.2 | None | None | Apr-May | Chaparral, Cismontane woodland, Valley and foothill grassland |
| <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 latisectus</i> | broad-lobed leptosiphon | Polemoniaceae | annual herb | 4.3 | None | None | Apr-Jun | Broadleafed upland forest, Cismontane woodland |

Key for Table 2:

CNPS Rare Plant-Threat Rank Definitions:

- 1B.1 = Rare, threatened, or endangered in California and elsewhere; seriously threatened in California
- 1B.2 = Rare, threatened, or endangered in California and elsewhere; moderately 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; moderately 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); moderately 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

Key for Table 2 (cont.)

CNPS Rare Plant-Threat Rank Definitions:

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

State and Federal Status:

- | | |
|---|----------------------------------|
| <i>CESA = California Endangered Species Act</i> | |
| <i>FESA = Federal Endangered Species Act</i> | |
| <i>SR = State. Rare</i> | <i>SE = State Endangered.</i> |
| <i>ST = State. Threatened</i> | <i>SD = State Delisted</i> |
| <i>SSC = CDFW Species of Special Concern</i> | <i>FP = CDFW Fully Protected</i> |
| <i>WL = CDFW Watch List</i> | <i>FE = Federal Endangered</i> |
| <i>FT = Federal Threatened</i> | <i>FD = Federal Delisted</i> |

TABLE 3. CNDDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE LUCERNE CALIF. 7½' QUADRANGLE

| Habitat Type | Habitat Present |
|--|---|
| <i>Clear Lake Drainage Cyprinid/Catostomid Stream</i> | No |
| <i>Clear Lake Drainage Seasonal Lakefish Spawning Stream</i> | Kelsey Creek: located across road from project footprint; will not be impacted by project |
| <i>Coastal and Valley Freshwater Marsh</i> | On shore of Clear Lake; not on property |

| Plant Species | Common Name | Habitat Requirements/ Fed/State/CNPS Status | Blooming Season | Habitat Present |
|--|-----------------------------|---|-------------------------------|--|
| <i>Amsinckia lunaris</i> | bent-flowered fiddleneck | Coastal bluff scrub, cismontane woodland, valley & foothill grassland; --/--/1B.2 | March-June ann. herb | Habitat present but not found during surveys |
| <i>Arctostaphylos manzanita ssp. elegans</i> | Konocti manzanita | Chaparral, cismontane woodland, lower montane conifer forest/volcanic; --/--/1B.3 | March-May everg. shrub | Habitat not present |
| <i>Hesperolinon adenophyllum</i> | glandular western flax | Chaparral, cismontane woodland, valley & foothill grassland/serpentine; --/--/1B.2 | May-Aug. ann. herb | Habitat not present |
| <i>Hesperolinon bicarpellatum</i> | two-carpellate western flax | Chaparral; serpentine; --/--/1B.2 | May-July ann. herb | Habitat not present |
| <i>Layia septentrionalis</i> | Colusa layia | Chaparral, cismontane woodland, valley & foothill grassland/sandy, serpentine; --/--/1B.2 | April-May ann. herb | Habitat not present |
| <i>Leptosiphon latisectus</i> | broad-lobed leptosiphon | Broad-leaved upland forest, cismontane woodland; --/--/4.3 | April-June ann. herb | Habitat present but 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 | Habitat present but not found during surveys |
| <i>Lupinus antoninus</i> | Anthony Peak lupine | Lower montane conif. forest, upper montane conifer forest/rocky; --/--/1B.2 | May-July per. herb | Habitat not present |
| <i>Potamogeton zosteriformis</i> | eel-grass pondweed | Marshes & swamps (assorted freshwater); --/--/2B.2 | June-July ann. herb (aquatic) | Habitat not present |

*See CNPS list for key

| Wildlife Species | Common Name | Habitat Requirements/Status | Season Present | Habitat Present |
|--------------------------------------|------------------------------------|--|---------------------|--|
| <i>Dubiraphia brunnescens</i> | brownish dubiraphian riffle beetle | Inhabits exposed, wave-washed willow roots in shallow water. Known only from NE shore of Clear Lake; G1/S1 | year-round | Habitat not present in project area |
| <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 not present in project area. Kelsey Creek intermittent here. |
| <i>Archoplites interruptus</i> | Sacramento perch | Warm water: sloughs, slow-moving rivers, ponds; SSC/G2G3/S1 | year-round | Habitat seasonally present in project area |
| <i>Cottus asper ssp.</i> | Clear Lake prickly sculpin | Found only in Blue Lakes, and Clear Lake and its tributaries (including Cache Creek). Populations have been negatively impacted by changes to Clear Lake including pollution and nonnative species; SSC/G5T1/SNR | non-migrant | Habitat seasonally present in project area |
| <i>Hysterocarpus traskii lagunae</i> | Clear Lake tule perch | Inhabit Clear Lake and Blue Lakes; require warm shallow lakes. Require cover provided by tules, rocks, other vegetation, etc.; SSC/G5T2/S2S3 | year-round | Habitat not present in project area |
| <i>Lavinia exilicauda chi</i> | Clear Lake hitch | Clear Lake, Lake County, only; spawns in streams flowing to Clear Lake (spring-early summer); ST/SSC/G4/S1 | year-round | Habitat seasonally present in project area |
| <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 not present; needs cool, higher gradient streams. |
| <i>Emys marmorata</i> | western pond turtle | Aquatic turtle found in ponds, lakes, rivers, creeks, marshes & irrigation ditches with abundant vegetation and rocky or muddy bottoms; In woodland, forest, & grasslands; SSC/G3G4/S3 | year-round | Habitat seasonally present in Kelsey Creek |
| <i>Ardea herodias</i> | great blue heron | Shallow ponds and estuaries, & salt and fresh emergent wetlands; G5/S4 | sometimes migratory | Habitat/potential roosting structures present along Kelsey Creek |

| Wildlife Species | Common Name | Habitat Requirements/Status | Season Present | Habitat Present |
|--------------------------------------|----------------------------------|---|-----------------------|---|
| <i>Branta hutchinsii leucopareia</i> | cackling goose (Aleutian Canada) | Winter range for this goose extends from Alaska to northern Mexico; some populations spend fall and spring in northern coastal California, fall in the Sacramento Valley, and winter in the San Joaquin Valley; G5T5/S3 FD/WL | migratory | Habitat not present in project area |
| <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 not present in project area; requires large nest structures |
| <i>Pandion haliaetus</i> | osprey | Large, fish-bearing waters in ponderosa pine or mixed conifer habitats; WL | year-round | Nesting structures present ¼ mile west of project area |
| <i>Phalacrocorax auritus</i> | double-crested cormorant | Along coast, inland lakes; fresh, salt & estuarine waters; WL/G5/S4 | sometimes migratory | Nesting structures not present in project area |
| <i>Strix occidentalis caurina</i> | northern spotted owl | Old-growth forests or mixed stands of old-growth & mature trees; occasionally in younger forests with patches of big trees; FT/ST/SSC | year-round | Habitat not present in project area |
| <i>Lasionycteris noctivagans</i> | silver-haired bat | Coastal and montane forest; feeds over streams, ponds and brushy areas. Roosts in hollow trees; G5/S3S4 (no status) | year-round | Habitat not present in project area: lack of roosting sites |
| <i>Corynorhinus townsendii</i> | Townsend's big-eared bat | Roosts in open near relatively mesic sites, mainly montane forest habitats; SSC/G3/S2 | year-round | Habitat not present in project area |

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/Delisted

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

T1 = Critically imperiled subspecies

T3 - Vulnerable

4.3 Wildlife Habitat Analysis Results: The California Wildlife Habitat Relationships analysis lists several sensitive and non-sensitive native wildlife species as potentially occurring on the site based on the geographic location and wildlife habitats present. Selected sensitive species are included in the wildlife assessment based on local knowledge and experience. The complete CWHR results are presented in **Appendix B**.

4.4 Wildlife Assessment: Based on the pre-survey research conducted for this study, the following wildlife species need to be accounted for within the project area. These consist of the species identified as present within the Lucerne quadrangle by the CNDDB and/or listed in the CWHR analysis in appropriate habitats. Accepted protocol requires that all CNDDB species in the surrounding U.S.G.S. quadrangle be discussed even though suitable habitat may not occur on the site.

The following fish, amphibians, and reptiles are found in or adjacent to Clear Lake. They are, however, not likely to be found in the segment of Kelsey Creek adjacent to the project area:

- brownish dubiraphian riffle beetle (*Dubiraphia brunnescens*)
- western ridged mussel (*Gonidea angulata*)
- Clear Lake tule perch (*Hysterocarpus traskii lagunae*)
- red-bellied newt (*Taricha rivularis*)
- bald eagle (*Haliaeetus leucocephalus*)

The species listed below are found either on the shores of Clear Lake or its tributaries and have a potential to be seasonally present in or along Kelsey Creek on the eastern portion of the parcel. Osprey are found throughout the Big Valley where nesting structures exist; no such structures exist in or near the proposed project footprint, but an occupied osprey nest structure is located approximately 200 yards to the north. Osprey and herons currently lack special status.

- Sacramento perch (*Archoplites interruptus*)
- Clear Lake prickly sculpin (*Cottus asper ssp.*)
- Clear Lake hitch (*Lavinia exilicauda chi*)
- western pond turtle (*Emys marmorata*)
- great blue heron (*Ardea herodias*)
- osprey (*Pandion haliaetus*)

Habitat for the following species is absent in the project area:

- northern spotted owl (*Strix occidentalis caurina*)
- silver-haired bat (*Lasionycteris noctivagans*)
- Townsend's big-eared bat (*Corynorhinus townsendii*)

White-tailed kites (*Elanus leucurus*) are typically found in open terrain near woodlands and water, including in agricultural areas. They hunt over open country and prefer large,

deciduous trees surrounded by expanses of grassland, meadows, farmland, and/or wetlands for nesting and roosting sites. Kites may nest in the riparian woodland adjacent to Kelsey Creek and may hunt over this property, but they are unlikely to be present in their nesting status.

Note: Even when lacking sensitive status, migratory passerines and birds of prey are protected under the Migratory Bird Treaty Act and California Fish and Wildlife 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).

5.0 FIELD SURVEY RESULTS

5.1 Botanical Field Survey Results: Table 4 presents the results of the floristic-level botanical survey within the survey area. Each of the sensitive plant taxa potentially occurring at the sites and listed in Tables 2 and 3 was specifically searched for during the survey. The survey identified a total of 44 plant taxa on the property, including native and introduced plants. No sensitive plant taxa were identified.

TABLE 4. FLORA FOR APN 008-026-07

| Habit | Species | Common Name | Family | Origin |
|-------|--|---|------------------|--------|
| forb | <i>Conium maculatum</i> | poison hemlock | Apiaceae | A |
| forb | <i>Daucus carota</i> | Queen Anne's lace | Apiaceae | A |
| forb | <i>Torilis arvensis</i> | field hedge parsley | Apiaceae | A |
| forb | <i>Artemesia douglasiana</i> | mugwort | Asteraceae | N |
| forb | <i>Centaurea solstitialis</i> | yellow star thistle | Asteraceae | A |
| forb | <i>Amsinckia menziesii</i> | small-flowered fiddleneck, rancher's fireweed | Boraginaceae | N |
| forb | <i>Cynoglossum grande</i> | grand hound's tongue | Boraginaceae | N |
| forb | <i>Brassica nigra</i> | black mustard | Brassicaceae | A |
| forb | <i>Convolvulus arvensis</i> | orchard morning-glory | Convolvulaceae | A |
| forb | <i>Cyperus eragrostis</i> | tall flat sedge | Cyperaceae | N |
| forb | <i>Lupinus bicolor</i> | miniature lupine | Fabaceae | N |
| forb | <i>Medicago polymorpha</i> | California burclover | 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>Sisyrinchium bellum</i> | blue-eyed grass, western blue-eyed grass | Iridaceae | N |
| forb | <i>Clarkia purpurea ssp. quadrivulnera</i> | purple clarkia, winecup clarkia, four-spot | Onagraceae | N |
| forb | <i>Eschscholzia californica</i> | California poppy | Papaveraceae | N |
| forb | <i>Plantago lanceolata</i> | English plantain | Plantaginaceae | A |
| forb | <i>Reseda luteola</i> | Dyer's rocket | Resedaceae | A |
| forb | <i>Verbascum thapsus</i> | woolly mullein | Scrophulariaceae | A |
| forb | <i>Urtica dioica ssp. gracilis</i> | stinging nettle | Urticaceae | N |
| grass | <i>Alopecurus pratensis</i> | meadow foxtail | Poaceae | A |
| grass | <i>Avena barbata</i> | slender wild oat | Poaceae | A |
| grass | <i>Bromus diandrus</i> | ripgut grass, ripgut brome | Poaceae | A |
| grass | <i>Bromus hordeaceus</i> | soft chess | Poaceae | A |
| grass | <i>Cynosurus echinatus</i> | hedgehog dogtail, annual dogtail | Poaceae | A |
| grass | <i>Dactylus glomerata</i> | orchard grass | Poaceae | A |
| grass | <i>Elymus caput-medusae</i> | medusahead | Poaceae | A |
| grass | <i>Elymus glaucus</i> | blue wildrye | Poaceae | N |
| grass | <i>Festuca californica</i> | California fescue | Poaceae | N |

| Habit | Species | Common Name | Family | Origin |
|-------|---|---------------------------------------|-----------------|--------|
| grass | <i>Festuca perennis</i> | perennial ryegrass, Italian rye grass | Poaceae | A |
| grass | <i>Poa bulbosa</i> | bulbous bluegrass | Poaceae | A |
| shrub | <i>Sambucus nigra ssp. caerulea</i> | 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>Symphoricarpos albus var. laevigatus</i> | common snowberry | Caryophyllaceae | N |
| shrub | <i>Eriodictyon californicum</i> | California yerba santa | Hydrophyllaceae | N |
| shrub | <i>Cercocarpus betuloides var. betuloides</i> | birch-leaf mountain mahogany | Rosaceae | N |
| shrub | <i>Rosa californica</i> | California wild rose | Rosaceae | N |
| tree | <i>Quercus lobata</i> | California valley oak | Fagaceae | N |
| tree | <i>Juglans hindsii</i> | Northern California black walnut | Juglandaceae | N |
| tree | <i>Fraxinus latifolia</i> | Oregon ash | Oleaceae | N |
| tree | <i>Populus fremontii var. fremontii</i> | Fremont cottonwood | Salicaceae | N |
| tree | <i>Salix laevigata</i> | red willow | Salicaceae | N |

A=Alien, N=Native

6.0 SUMMARY AND RECOMMENDATIONS

6.1 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 *California Wildlife Habitat Relationships 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.

Sensitive Plants: A total of 44 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, included on Lists 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 Lucerne quadrangle. The following species have a potential to occur in and along the riparian habitat of Kelsey Creek, but are unlikely to be directly impacted by the proposed project due to distance from the project footprint and due to the separation of Kelsey Creek from the project site by Finley East Road.

- Sacramento perch
- Clear Lake prickly sculpin
- Clear Lake hitch
- Western pond turtle
- Great blue heron
- Osprey

6.2 Recommendations:

A. Habitat Fragmentation

Potential Impacts: The project footprint is in the center of a fallow agricultural field surrounded by intensive agricultural development. The project as proposed will not result in additional habitat fragmentation.

Kelsey Creek, east of Finley East Road and on a separate portion of the project parcel, is part of a significant fish and wildlife corridor from Clear Lake through the Big Valley. However, its distance east from the project site and the intervening presence of Finley East Road significantly reduce the potential for this project to result in habitat fragmentation.

B. Forest and Woodlands

Potential Impacts: As proposed, the project will not result in impacts to forest or woodland habitat. The Kelsey Creek riparian corridor contains important riparian woodland essential to this significant fish and wildlife corridor. However, the project footprint, as proposed, is west of this corridor and will not result in loss of woodland or forest habitat.

C. Sensitive Plants and Wildlife

Potential Impacts:

Plants: No plants with sensitive regulatory status occur on the subject parcel.

Wildlife: Six fish and/or wildlife species with sensitive regulatory status occur or are likely to occur in Kelsey Creek and its adjacent riparian habitat. These are:

- Sacramento perch
- Clear Lake prickly sculpin
- Clear Lake hitch
- Western pond turtle
- Great blue heron
- Osprey

Due to distance of the proposed project site from the Kelsey Creek riparian corridor and its separation from this corridor by Finley East Road, the project would

not result in direct impacts to these sensitive fish and wildlife or to birds protected under the Federal Migratory Bird Treaty Act or California Fish and Game Code.

Use of fertilizers, herbicides, pesticides, or other agricultural chemicals has a potential to result in indirect impacts to water quality in Kelsey Creek and hence to sensitive fish and wildlife if not used in compliance with local, state, and federal water quality regulations.

Proposed Mitigation for Fish and Wildlife:

Mitigation for indirect impacts to water quality is provided below under Section E, "Erosion Control and Water Quality".

D. Waters of the U.S.

Potential Impact:

A delineation of waters of the U.S. was not conducted for this project due its distance from Kelsey Creek and the lack of apparent surface waters within or near the project footprint.

Kelsey Creek would qualify as a water of the U.S. and a water of the State of California. Placement of fill within it would be regulated under the Clean Water Act and by the Regional Water Quality Control Board. As proposed, the project would not result in fill of these waters.

Proposed Mitigation for Impacts to Waters of the U.S:

Measure 1: Permit conditions for this project should exclude any project modifications within Kelsey Creek or its riparian habitat. Placement of fill within Waters of the U.S. may require a Nationwide Permit by the Corps of Engineers along with a 401 Water Quality Certification from the Regional Water Quality Control Board, and 1604 Stream Alteration Agreement from the California Department of Fish and Wildlife. The County of Lake may require stream setbacks.

E. Erosion Control and Water Quality

Potential Impacts:

Vegetation clearing and grading activities have a potential to result in sediment runoff into waterways.

The use of agricultural chemicals including fertilizers, herbicides, and pesticides has a potential to result in runoff of these chemicals to Kelsey Creek and an adverse impact on water quality if not used in compliance with applicable regulations.

Proposed Mitigation for Erosion and Sedimentation:

Measure 2: All project-related grading should include extensive erosion control measures consistent with Lake County Grading Regulations in order to avoid erosion and the potential for transport of sediments into Kelsey Creek. 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.

Measure 3: Permit conditions for this project should require strict compliance with local, state, and federal regulations for the handling, use, and storage of agricultural chemicals with periodic inspections as may be required by those agencies.

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APPENDIX A

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

Surrounding 9-Quad List: Lucerne Quadrangle

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|------------------|---|--------------------------------|---------|--------|---------|------|
| BARTLETT MTN. | <i>Rana boylei</i> | foothill yellow-legged frog | None | End | SSC | - |
| BARTLETT MTN. | <i>Agelaius tricolor</i> | tricolored blackbird | None | Threat | SSC | - |
| BARTLETT MTN. | <i>Pandion haliaetus</i> | osprey | None | None | WL | - |
| BARTLETT MTN. | <i>Strix occidentalis caurina</i> | Northern Spotted Owl | Threat | Threat | - | - |
| BARTLETT MTN. | <i>Bombus caliginosus</i> | obscure bumble bee | None | None | - | - |
| BARTLETT MTN. | <i>Corynorhinus townsendii</i> | Townsend's big-eared bat | None | None | SSC | - |
| BARTLETT MTN. | <i>Lasionycteris noctivagans</i> | silver-haired bat | None | None | - | - |
| BARTLETT MTN. | <i>Martes caurina humboldtensis</i> | Humboldt marten | Threat | End | SSC | - |
| BARTLETT MTN. | <i>Myotis lucifugus</i> | little brown bat | None | None | - | - |
| BARTLETT MTN. | <i>Myotis thysanodes</i> | fringed myotis | None | None | - | - |
| BARTLETT MTN. | <i>Myotis yumanensis</i> | Yuma myotis | None | None | - | - |
| BARTLETT MTN. | <i>Pekania pennanti</i> | Fisher | None | None | SSC | - |
| BARTLETT MTN. | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| BARTLETT MTN. | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| BARTLETT MTN. | <i>Calycadenia micrantha</i> | small-flowered calycadenia | None | None | - | 1B.2 |
| BARTLETT MTN. | <i>Ceanothus confusus</i> | Rincon Ridge ceanothus | None | None | - | 1B.1 |
| BARTLETT MTN. | <i>Hemizonia congesta</i> ssp. <i>calyculata</i> | Mendocino tarplant | None | None | - | 4.3 |
| BARTLETT MTN. | <i>Hesperolinon adenophyllum</i> | glandular western flax | None | None | - | 1B.2 |
| BARTLETT MTN. | <i>Hesperolinon bicarpellatum</i> | two-carpellate western flax | None | None | - | 1B.2 |
| BARTLETT MTN. | <i>Leptosiphon latisectus</i> | broad-lobed leptosiphon | None | None | - | 4.3 |
| BARTLETT MTN. | <i>Lupinus antoninus</i> | Anthony Peak lupine | None | None | - | 1B.2 |
| BARTLETT SPRINGS | <i>Rana boylei</i> | foothill yellow-legged frog | None | End | SSC | - |
| BARTLETT SPRINGS | <i>Aquila chrysaetos</i> | golden eagle | None | None | FP ; WL | - |
| BARTLETT SPRINGS | <i>Strix occidentalis caurina</i> | Northern Spotted Owl | Threat | Threat | - | - |
| BARTLETT SPRINGS | <i>Bombus caliginosus</i> | obscure bumble bee | None | None | - | - |
| BARTLETT SPRINGS | <i>Lasionycteris noctivagans</i> | silver-haired bat | None | None | - | - |
| BARTLETT SPRINGS | <i>Pekania pennanti</i> | Fisher | None | None | SSC | - |
| BARTLETT SPRINGS | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| BARTLETT SPRINGS | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| BARTLETT SPRINGS | <i>Astragalus clevelandii</i> | Cleveland's milk-vetch | None | None | - | 4.3 |
| BARTLETT SPRINGS | <i>Balsamorhiza macrolepis</i> | big-scale balsamroot | None | None | - | 1B.2 |
| BARTLETT SPRINGS | <i>Calycadenia micrantha</i> | small-flowered calycadenia | None | None | - | 1B.2 |
| BARTLETT SPRINGS | <i>Calystegia collina</i> ssp. <i>oxyphylla</i> | Mt. Saint Helena morning-glory | None | None | - | 4.2 |
| BARTLETT SPRINGS | <i>Carex hystericina</i> | porcupine sedge | None | None | - | 2B.1 |
| BARTLETT SPRINGS | <i>Eriastrum tracyi</i> | Tracy's eriastrum | None | Rare | - | 3.2 |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|---------------------|--|---|----------|--------|------|------|
| BARTLETT SPRINGS | <i>Erigeron greenei</i> | Greene's narrow-leaved daisy | None | None | - | 1B.2 |
| BARTLETT SPRINGS | <i>Eriogonum tripodum</i> | tripod buckwheat | None | None | - | 4.2 |
| BARTLETT SPRINGS | <i>Leptosiphon acicularis</i> | bristly leptosiphon | None | None | - | 4.2 |
| BARTLETT SPRINGS | <i>Leptosiphon latisectus</i> | broad-lobed leptosiphon | None | None | - | 4.3 |
| BARTLETT SPRINGS | <i>Lupinus sericatus</i> | Cobb Mountain lupine | None | None | - | 1B.2 |
| CLEARLAKE HIGHLANDS | <i>Rana boylei</i> | foothill yellow-legged frog | None | End | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Rana draytonii</i> | California red-legged frog | Threat | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Ardea alba</i> | great egret | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Ardea herodias</i> | great blue heron | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Coccyzus americanus occidentalis</i> | western yellow-billed cuckoo | Threat | End | - | - |
| CLEARLAKE HIGHLANDS | <i>Haliaeetus leucocephalus</i> | bald eagle | Delisted | End | FP | - |
| CLEARLAKE HIGHLANDS | <i>Strix occidentalis caurina</i> | Northern Spotted Owl | Threat | Threat | - | - |
| CLEARLAKE HIGHLANDS | <i>Archoplites interruptus</i> | Sacramento perch | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Cottus asper</i> ssp. | Clear Lake prickly sculpin | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Hysterocarpus traskii lagunae</i> | Clear Lake tule perch | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Lavinia exilicauda</i> chi | Clear Lake hitch | None | Threat | - | - |
| CLEARLAKE HIGHLANDS | <i>Lavinia symmetricus</i> ssp. 4 | Clear Lake - Russian River roach | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Dubiraphia brunnescens</i> | brownish dubiraphian riffle beetle | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Hedychridium milleri</i> | Borax Lake cuckoo wasp | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Antrozous pallidus</i> | pallid bat | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Corynorhinus townsendii</i> | Townsend's big-eared bat | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | <i>Myotis lucifugus</i> | little brown bat | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Myotis yumanensis</i> | Yuma myotis | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Gonidea angulata</i> | western ridged mussel | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Pyrgulopsis ventricosa</i> | Clear Lake pyrg | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| CLEARLAKE HIGHLANDS | Clear Lake Drainage Resident Trout Stream | Clear Lake Drainage Resident Trout Stream | None | None | - | - |
| CLEARLAKE HIGHLANDS | Coastal and Valley Freshwater Marsh | Coastal and Valley Freshwater Marsh | None | None | - | - |
| CLEARLAKE HIGHLANDS | Northern Basalt Flow Vernal Pool | Northern Basalt Flow Vernal Pool | None | None | - | - |
| CLEARLAKE HIGHLANDS | Northern Volcanic Ash Vernal Pool | Northern Volcanic Ash Vernal Pool | None | None | - | - |
| CLEARLAKE HIGHLANDS | <i>Antirrhinum virga</i> | twig-like snapdragon | None | None | - | 4.3 |
| CLEARLAKE HIGHLANDS | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| CLEARLAKE HIGHLANDS | <i>Arctostaphylos stanfordiana</i> ssp. <i>raichei</i> | Raiche's manzanita | None | None | - | 1B.1 |
| CLEARLAKE HIGHLANDS | <i>Brasenia schreberi</i> | watershield | None | None | - | 2B.3 |
| CLEARLAKE HIGHLANDS | <i>Calochortus uniflorus</i> | pink star-tulip | None | None | - | 4.2 |
| CLEARLAKE HIGHLANDS | <i>Calyptridium quadripetalum</i> | four-petaled pussypaws | None | None | - | 4.3 |
| CLEARLAKE HIGHLANDS | <i>Cordylanthus tenuis</i> ssp. <i>brunneus</i> | serpentine bird's-beak | None | None | - | 4.3 |
| CLEARLAKE HIGHLANDS | <i>Eriastrum brandegeae</i> | Brandegee's eriastrum | None | None | - | 1B.1 |
| CLEARLAKE HIGHLANDS | <i>Eryngium constancei</i> | Loch Lomond button-celery | End | End | - | 1B.1 |
| CLEARLAKE HIGHLANDS | <i>Gratiola heterosepala</i> | Boggs Lake hedge-hyssop | None | End | - | 1B.2 |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|---------------------|---|------------------------------------|----------|--------|------|------|
| CLEARLAKE HIGHLANDS | Harmonia hallii | Hall's harmonia | None | None | - | 1B.2 |
| CLEARLAKE HIGHLANDS | Hemizonia congesta ssp. calyculata | Mendocino tarplant | None | None | - | 4.3 |
| CLEARLAKE HIGHLANDS | Hesperolinon bicarpellatum | two-carpellate western flax | None | None | - | 1B.2 |
| CLEARLAKE HIGHLANDS | Horkelia bolanderi | Bolander's horkelia | None | None | - | 1B.2 |
| CLEARLAKE HIGHLANDS | Imperata brevifolia | California satintail | None | None | - | 2B.1 |
| CLEARLAKE HIGHLANDS | Lasthenia burkei | Burke's goldfields | End | End | - | 1B.1 |
| CLEARLAKE HIGHLANDS | Leptosiphon acicularis | bristly leptosiphon | None | None | - | 4.2 |
| CLEARLAKE HIGHLANDS | Limnanthes floccosa ssp. floccosa | woolly meadowfoam | None | None | - | 4.2 |
| CLEARLAKE HIGHLANDS | Myosurus minimus ssp. apus | little mouseltail | None | None | - | 3.1 |
| CLEARLAKE HIGHLANDS | Navarretia leucocephala ssp. bakeri | Baker's navarretia | None | None | - | 1B.1 |
| CLEARLAKE HIGHLANDS | Navarretia leucocephala ssp. pauciflora | few-flowered navarretia | End | Threat | - | 1B.1 |
| CLEARLAKE HIGHLANDS | Navarretia leucocephala ssp. plieantha | many-flowered navarretia | End | End | - | 1B.2 |
| CLEARLAKE HIGHLANDS | Piperia michaelii | Michael's rein orchid | None | None | - | 4.2 |
| CLEARLAKE HIGHLANDS | Potamogeton zosteriformis | eel-grass pondweed | None | None | - | 2B.2 |
| CLEARLAKE HIGHLANDS | Sedella leiocarpa | Lake County stonecrop | End | End | - | 1B.1 |
| CLEARLAKE HIGHLANDS | Sidalcea oregana ssp. hydrophila | marsh checkerbloom | None | None | - | 1B.2 |
| CLEARLAKE HIGHLANDS | Toxicoscordion fontanum | marsh zigadenus | None | None | - | 4.2 |
| CLEARLAKE HIGHLANDS | Viburnum ellipticum | oval-leaved viburnum | None | None | - | 2B.3 |
| CLEARLAKE OAKS | Haliaeetus leucocephalus | bald eagle | Delisted | End | FP | - |
| CLEARLAKE OAKS | Pandion haliaetus | osprey | None | None | WL | - |
| CLEARLAKE OAKS | Strix occidentalis caurina | Northern Spotted Owl | Threat | Threat | - | - |
| CLEARLAKE OAKS | Archoplites interruptus | Sacramento perch | None | None | SSC | - |
| CLEARLAKE OAKS | Cottus asper ssp. | Clear Lake prickly sculpin | None | None | SSC | - |
| CLEARLAKE OAKS | Hysteroecarpus traskii lagunae | Clear Lake tule perch | None | None | SSC | - |
| CLEARLAKE OAKS | Lavinia exilicauda chi | Clear Lake hitch | None | Threat | - | - |
| CLEARLAKE OAKS | Dubiraphia brunnescens | brownish dubiraphian riffle beetle | None | None | - | - |
| CLEARLAKE OAKS | Antrozous pallidus | pallid bat | None | None | SSC | - |
| CLEARLAKE OAKS | Corynorhinus townsendii | Townsend's big-eared bat | None | None | SSC | - |
| CLEARLAKE OAKS | Myotis yumanensis | Yuma myotis | None | None | - | - |
| CLEARLAKE OAKS | Pekania pennanti | Fisher | None | None | SSC | - |
| CLEARLAKE OAKS | Gonidea angulata | western ridged mussel | None | None | - | - |
| CLEARLAKE OAKS | Emys marmorata | western pond turtle | None | None | SSC | - |
| CLEARLAKE OAKS | Great Valley Mixed Riparian Forest | Great Valley Mixed Riparian Forest | None | None | - | - |
| CLEARLAKE OAKS | Arctostaphylos manzanita ssp. elegans | Konocti manzanita | None | None | - | 1B.3 |
| CLEARLAKE OAKS | Brasenia schreberi | watershield | None | None | - | 2B.3 |
| CLEARLAKE OAKS | Calyptridium quadripetalum | four-petaled pussypaws | None | None | - | 4.3 |
| CLEARLAKE OAKS | Erythronium helenae | St. Helena fawn lily | None | None | - | 4.2 |
| CLEARLAKE OAKS | Hemizonia congesta ssp. calyculata | Mendocino tarplant | None | None | - | 4.3 |
| CLEARLAKE OAKS | Leptosiphon acicularis | bristly leptosiphon | None | None | - | 4.2 |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|------------------|--|--|---------|--------|---------|------|
| CLEARLAKE OAKS | Potamogeton zosteriformis | eel-grass pondweed | None | None | - | 2B.2 |
| HIGHLAND SPRINGS | Rana boylei | foothill yellow-legged frog | None | End | SSC | - |
| HIGHLAND SPRINGS | Taricha rivularis | red-bellied newt | None | None | SSC | - |
| HIGHLAND SPRINGS | Agelaius tricolor | tricolored blackbird | None | Threat | SSC | - |
| HIGHLAND SPRINGS | Aquila chrysaetos | golden eagle | None | None | FP ; WL | - |
| HIGHLAND SPRINGS | Artemisospiza belli belli | Bell's sage sparrow | None | None | WL | - |
| HIGHLAND SPRINGS | Lavinia exilicauda chi | Clear Lake hitch | None | Threat | - | - |
| HIGHLAND SPRINGS | Oncorhynchus mykiss irideus pop. 8 | steelhead - central California coast DPS | Threat | None | - | - |
| HIGHLAND SPRINGS | Emys marmorata | western pond turtle | None | None | SSC | - |
| HIGHLAND SPRINGS | Amsinckia lunaris | bent-flowered fiddleneck | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Antirrhinum subcordatum | dimorphic snapdragon | None | None | - | 4.3 |
| HIGHLAND SPRINGS | Arctostaphylos manzanita ssp. elegans | Konocti manzanita | None | None | - | 1B.3 |
| HIGHLAND SPRINGS | Arctostaphylos stanfordiana ssp. raichei | Raiche's manzanita | None | None | - | 1B.1 |
| HIGHLAND SPRINGS | Astragalus breweri | Brewer's milk-vetch | None | None | - | 4.2 |
| HIGHLAND SPRINGS | Calycadenia micrantha | small-flowered calycadenia | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Calyptridium quadripetalum | four-petaled pussypaws | None | None | - | 4.3 |
| HIGHLAND SPRINGS | Calystegia collina ssp. oxyphylla | Mt. Saint Helena morning-glory | None | None | - | 4.2 |
| HIGHLAND SPRINGS | Clarkia gracilis ssp. tracyi | Tracy's clarkia | None | None | - | 4.2 |
| HIGHLAND SPRINGS | Cryptantha dissita | serpentine cryptantha | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Fritillaria purdyi | Purdy's fritillary | None | None | - | 4.3 |
| HIGHLAND SPRINGS | Hesperolinon adenophyllum | glandular western flax | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Horkelia bolanderi | Bolander's horkelia | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Layia septentrionalis | Colusa layia | None | None | - | 1B.2 |
| HIGHLAND SPRINGS | Leptosiphon acicularis | bristly leptosiphon | None | None | - | 4.2 |
| HIGHLAND SPRINGS | Trichostema ruygtii | Napa bluecurls | None | None | - | 1B.2 |
| KELSEYVILLE | Rana boylei | foothill yellow-legged frog | None | End | SSC | - |
| KELSEYVILLE | Rana draytonii | California red-legged frog | Threat | None | SSC | - |
| KELSEYVILLE | Taricha rivularis | red-bellied newt | None | None | SSC | - |
| KELSEYVILLE | Pandion haliaetus | osprey | None | None | WL | - |
| KELSEYVILLE | Progne subis | purple martin | None | None | SSC | - |
| KELSEYVILLE | Calasellus californicus | An isopod | None | None | - | - |
| KELSEYVILLE | Linderiella occidentalis | California linderiella | None | None | - | - |
| KELSEYVILLE | Lavinia exilicauda chi | Clear Lake hitch | None | Threat | - | - |
| KELSEYVILLE | Lavinia symmetricus ssp. 4 | Clear Lake - Russian River roach | None | None | SSC | - |
| KELSEYVILLE | Bombus caliginosus | obscure bumble bee | None | None | - | - |
| KELSEYVILLE | Hydrochara rickseckeri | Ricksecker's water scavenger beetle | None | None | - | - |
| KELSEYVILLE | Erethizon dorsatum | North American porcupine | None | None | - | - |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|-------------|--|---|---------|--------|------|------|
| KELSEYVILLE | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| KELSEYVILLE | Clear Lake Drainage Cyprinid/Catostomid Stream | Clear Lake Drainage Cyprinid/Catostomid Stream | None | None | - | - |
| KELSEYVILLE | Clear Lake Drainage Resident Trout Stream | Clear Lake Drainage Resident Trout Stream | None | None | - | - |
| KELSEYVILLE | Clear Lake Drainage Seasonal Lakefish Spawning Stream | Clear Lake Drainage Seasonal Lakefish Spawning Stream | None | None | - | - |
| KELSEYVILLE | Northern Volcanic Ash Vernal Pool | Northern Volcanic Ash Vernal Pool | None | None | - | - |
| KELSEYVILLE | <i>Amsinckia lunaris</i> | bent-flowered fiddleneck | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| KELSEYVILLE | <i>Arctostaphylos stanfordiana</i> ssp. <i>raichei</i> | Raiche's manzanita | None | None | - | 1B.1 |
| KELSEYVILLE | <i>Astragalus breweri</i> | Brewer's milk-vetch | None | None | - | 4.2 |
| KELSEYVILLE | <i>Azolla microphylla</i> | Mexican mosquito fern | None | None | - | 4.2 |
| KELSEYVILLE | <i>Brasenia schreberi</i> | watershield | None | None | - | 2B.3 |
| KELSEYVILLE | <i>Calyptridium quadripetalum</i> | four-petaled pussypaws | None | None | - | 4.3 |
| KELSEYVILLE | <i>Clarkia gracilis</i> ssp. <i>tracyi</i> | Tracy's clarkia | None | None | - | 4.2 |
| KELSEYVILLE | <i>Cordylanthus tenuis</i> ssp. <i>brunneus</i> | serpentine bird's-beak | None | None | - | 4.3 |
| KELSEYVILLE | <i>Eriastrum brandegeae</i> | Brandegee's eriastrum | None | None | - | 1B.1 |
| KELSEYVILLE | <i>Gratiola heterosepala</i> | Boggs Lake hedge-hyssop | None | End | - | 1B.2 |
| KELSEYVILLE | <i>Harmonia hallii</i> | Hall's harmonia | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Hesperolinon adenophyllum</i> | glandular western flax | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Horkelia bolanderi</i> | Bolander's horkelia | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Lasthenia burkei</i> | Burke's goldfields | End | End | - | 1B.1 |
| KELSEYVILLE | <i>Layia septentrionalis</i> | Colusa layia | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Legenere limosa</i> | legenere | None | None | - | 1B.1 |
| KELSEYVILLE | <i>Leptosiphon acicularis</i> | bristly leptosiphon | None | None | - | 4.2 |
| KELSEYVILLE | <i>Limnanthes floccosa</i> ssp. <i>floccosa</i> | woolly meadowfoam | None | None | - | 4.2 |
| KELSEYVILLE | <i>Micropus amphibolus</i> | Mt. Diablo cottonweed | None | None | - | 3.2 |
| KELSEYVILLE | <i>Monardella viridis</i> | green monardella | None | None | - | 4.3 |
| KELSEYVILLE | <i>Navarretia leucocephala</i> ssp. <i>pauciflora</i> | few-flowered navarretia | End | Threat | - | 1B.1 |
| KELSEYVILLE | <i>Navarretia leucocephala</i> ssp. <i>plieantha</i> | many-flowered navarretia | End | End | - | 1B.2 |
| KELSEYVILLE | <i>Orcuttia tenuis</i> | slender Orcutt grass | Threat | End | - | 1B.1 |
| KELSEYVILLE | <i>Penstemon newberryi</i> var. <i>sonomensis</i> | Sonoma beardtongue | None | None | - | 1B.3 |
| KELSEYVILLE | <i>Potamogeton zosteriformis</i> | eel-grass pondweed | None | None | - | 2B.2 |
| KELSEYVILLE | <i>Sidalcea oregana</i> ssp. <i>hydrophila</i> | marsh checkerbloom | None | None | - | 1B.2 |
| KELSEYVILLE | <i>Streptanthus barbiger</i> | bearded jewelflower | None | None | - | 4.2 |
| KELSEYVILLE | <i>Trichostema ruygtii</i> | Napa bluecurls | None | None | - | 1B.2 |
| LAKEPORT | <i>Rana boylei</i> | foothill yellow-legged frog | None | End | SSC | - |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|-----------|---|---------------------------------------|----------|----------|------|------|
| LAKEPORT | <i>Agelaius tricolor</i> | tricolored blackbird | None | Threat | SSC | - |
| LAKEPORT | <i>Ardea alba</i> | great egret | None | None | - | - |
| LAKEPORT | <i>Ardea herodias</i> | great blue heron | None | None | - | - |
| LAKEPORT | <i>Egretta thula</i> | snowy egret | None | None | - | - |
| LAKEPORT | <i>Elanus leucurus</i> | white-tailed kite | None | None | FP | - |
| LAKEPORT | <i>Haliaeetus leucocephalus</i> | bald eagle | Delisted | End | FP | - |
| LAKEPORT | <i>Nycticorax nycticorax</i> | black-crowned night heron | None | None | - | - |
| LAKEPORT | <i>Pandion haliaetus</i> | osprey | None | None | W/L | - |
| LAKEPORT | <i>Phalacrocorax auritus</i> | double-crested cormorant | None | None | W/L | - |
| LAKEPORT | <i>Archoplites interruptus</i> | Sacramento perch | None | None | SSC | - |
| LAKEPORT | <i>Cottus asper</i> ssp. | Clear Lake prickly sculpin | None | None | SSC | - |
| LAKEPORT | <i>Hysterocarpus traskii lagunae</i> | Clear Lake tule perch | None | None | SSC | - |
| LAKEPORT | <i>Lavinia exilicauda</i> chi | Clear Lake hitch | None | Threat | - | - |
| LAKEPORT | <i>Lavinia symmetricus</i> ssp. 4 | Clear Lake - Russian River roach | None | None | SSC | - |
| LAKEPORT | <i>Andrena blennospermatis</i> | Blennosperma vernal pool andrenid bee | None | None | - | - |
| LAKEPORT | <i>Bombus occidentalis</i> | western bumble bee | None | Cand End | - | - |
| LAKEPORT | <i>Dubiraphia brunnescens</i> | brownish dubiraphian riffle beetle | None | None | - | - |
| LAKEPORT | <i>Pekania pennanti</i> | Fisher | None | None | SSC | - |
| LAKEPORT | <i>Taxidea taxus</i> | American badger | None | None | SSC | - |
| LAKEPORT | <i>Anodonta oregonensis</i> | Oregon floater | None | None | - | - |
| LAKEPORT | <i>Gonidea angulata</i> | western ridged mussel | None | None | - | - |
| LAKEPORT | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| LAKEPORT | Coastal and Valley Freshwater Marsh | Coastal and Valley Freshwater Marsh | None | None | - | - |
| LAKEPORT | <i>Amsinckia lunaris</i> | bent-flowered fiddleneck | None | None | - | 1B.2 |
| LAKEPORT | <i>Antirrhinum virga</i> | twig-like snapdragon | None | None | - | 4.3 |
| LAKEPORT | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| LAKEPORT | <i>Astragalus breweri</i> | Brewer's milk-vetch | None | None | - | 4.2 |
| LAKEPORT | <i>Brasenia schreberi</i> | watershield | None | None | - | 2B.3 |
| LAKEPORT | <i>Clarkia gracilis</i> ssp. <i>tracyi</i> | Tracy's clarkia | None | None | - | 4.2 |
| LAKEPORT | <i>Cryptantha dissita</i> | serpentine cryptantha | None | None | - | 1B.2 |
| LAKEPORT | <i>Erythranthe nudata</i> | bare monkeyflower | None | None | - | 4.3 |
| LAKEPORT | <i>Fritillaria purdyi</i> | Purdy's fritillary | None | None | - | 4.3 |
| LAKEPORT | <i>Hesperolinon adenophyllum</i> | glandular western flax | None | None | - | 1B.2 |
| LAKEPORT | <i>Layia septentrionalis</i> | Colusa layia | None | None | - | 1B.2 |
| LAKEPORT | <i>Leptosiphon acicularis</i> | bristly leptosiphon | None | None | - | 4.2 |
| LAKEPORT | <i>Leptosiphon latisectus</i> | broad-lobed leptosiphon | None | None | - | 4.3 |
| LAKEPORT | <i>Plagiobothrys lithocaryus</i> | Mayacamas popcornflower | None | None | - | 1A |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|------------|---|---|----------|--------|------|------|
| LAKEPORT | <i>Ranunculus lobbii</i> | Lobb's aquatic buttercup | None | None | - | 4.2 |
| LAKEPORT | <i>Tracyina rostrata</i> | beaked tracyina | None | None | - | 1B.2 |
| LUCERNE | <i>Rana draytonii</i> | California red-legged frog | Threat | None | SSC | - |
| LUCERNE | <i>Taricha rivularis</i> | red-bellied newt | None | None | SSC | - |
| LUCERNE | <i>Ardea herodias</i> | great blue heron | None | None | - | - |
| LUCERNE | <i>Branta hutchinsii leucopareia</i> | cackling (=Aleutian Canada) goose | Delisted | None | W/L | - |
| LUCERNE | <i>Falco mexicanus</i> | prairie falcon | None | None | W/L | - |
| LUCERNE | <i>Haliaeetus leucocephalus</i> | bald eagle | Delisted | End | FP | - |
| LUCERNE | <i>Pandion haliaetus</i> | osprey | None | None | W/L | - |
| LUCERNE | <i>Phalacrocorax auritus</i> | double-crested cormorant | None | None | W/L | - |
| LUCERNE | <i>Strix occidentalis caurina</i> | Northern Spotted Owl | Threat | Threat | - | - |
| LUCERNE | <i>Archoplites interruptus</i> | Sacramento perch | None | None | SSC | - |
| LUCERNE | <i>Cottus asper</i> ssp. | Clear Lake prickly sculpin | None | None | SSC | - |
| LUCERNE | <i>Hysterocarpus traskii lagunae</i> | Clear Lake tule perch | None | None | SSC | - |
| LUCERNE | <i>Lavinia exilicauda chi</i> | Clear Lake hitch | None | Threat | - | - |
| LUCERNE | <i>Dubiraphia brunnescens</i> | brownish dubiraphian riffle beetle | None | None | - | - |
| LUCERNE | <i>Corynorhinus townsendii</i> | Townsend's big-eared bat | None | None | SSC | - |
| LUCERNE | <i>Lasionycteris noctivagans</i> | silver-haired bat | None | None | - | - |
| LUCERNE | <i>Gonidea angulata</i> | western ridged mussel | None | None | - | - |
| LUCERNE | <i>Emys marmorata</i> | western pond turtle | None | None | SSC | - |
| LUCERNE | Clear Lake Drainage Cyprinid/Catostomid Stream | Clear Lake Drainage Cyprinid/Catostomid Stream | None | None | - | - |
| LUCERNE | Clear Lake Drainage Seasonal Lakefish Spawning Stream | Clear Lake Drainage Seasonal Lakefish Spawning Stream | None | None | - | - |
| LUCERNE | Coastal and Valley Freshwater Marsh | Coastal and Valley Freshwater Marsh | None | None | - | - |
| LUCERNE | <i>Amsinckia lunaris</i> | bent-flowered fiddleneck | None | None | - | 1B.2 |
| LUCERNE | <i>Arctostaphylos manzanita</i> ssp. <i>elegans</i> | Konocti manzanita | None | None | - | 1B.3 |
| LUCERNE | <i>Hesperolinon adenophyllum</i> | glandular western flax | None | None | - | 1B.2 |
| LUCERNE | <i>Hesperolinon bicarpellatum</i> | two-carpellate western flax | None | None | - | 1B.2 |
| LUCERNE | <i>Layia septentrionalis</i> | Colusa layia | None | None | - | 1B.2 |
| LUCERNE | <i>Leptosiphon acicularis</i> | bristly leptosiphon | None | None | - | 4.2 |
| LUCERNE | <i>Leptosiphon latisectus</i> | broad-lobed leptosiphon | None | None | - | 4.3 |
| LUCERNE | <i>Lupinus antoninus</i> | Anthony Peak lupine | None | None | - | 1B.2 |
| LUCERNE | <i>Potamogeton zosteriformis</i> | eel-grass pondweed | None | None | - | 2B.2 |
| UPPER LAKE | <i>Rana boylei</i> | foothill yellow-legged frog | None | End | SSC | - |
| UPPER LAKE | <i>Agelaius tricolor</i> | tricolored blackbird | None | Threat | SSC | - |
| UPPER LAKE | <i>Ardea alba</i> | great egret | None | None | - | - |

| QUAD NAME | SCIENTIFIC NAME | COMMON NAME | FEDERAL | CALIF | CDFW | CNPS |
|------------|-------------------------------------|---------------------------------------|----------|----------|------|------|
| UPPER LAKE | Ardea herodias | great blue heron | None | None | - | - |
| UPPER LAKE | Haliaeetus leucocephalus | bald eagle | Delisted | End | FP | - |
| UPPER LAKE | Pandion haliaetus | osprey | None | None | W/L | - |
| UPPER LAKE | Phalacrocorax auritus | double-crested cormorant | None | None | W/L | - |
| UPPER LAKE | Cottus asper ssp. | Clear Lake prickly sculpin | None | None | SSC | - |
| UPPER LAKE | Hysterocarpus traskii lagunae | Clear Lake tule perch | None | None | SSC | - |
| UPPER LAKE | Lavinia exilicauda chi | Clear Lake hitch | None | Threat | - | - |
| UPPER LAKE | Andrena blennospermatis | Blennosperma vernal pool andrenid bee | None | None | - | - |
| UPPER LAKE | Bombus occidentalis | western bumble bee | None | Cand End | - | - |
| UPPER LAKE | Taxidea taxus | American badger | None | None | SSC | - |
| UPPER LAKE | Gonidea angulata | western ridged mussel | None | None | - | - |
| UPPER LAKE | Lanx klamathensis | scale lanx | None | None | - | - |
| UPPER LAKE | Emys marmorata | western pond turtle | None | None | SSC | - |
| UPPER LAKE | Coastal and Valley Freshwater Marsh | Coastal and Valley Freshwater Marsh | None | None | - | - |
| UPPER LAKE | Grimmia torenii | Toren's grimmia | None | None | - | 1B.3 |
| UPPER LAKE | Astragalus breweri | Brewer's milk-vetch | None | None | - | 4.2 |
| UPPER LAKE | Brasenia schreberi | watershield | None | None | - | 2B.3 |
| UPPER LAKE | Calycadenia micrantha | small-flowered calycadenia | None | None | - | 1B.2 |
| UPPER LAKE | Carex comosa | bristly sedge | None | None | - | 2B.1 |
| UPPER LAKE | Hemizonia congesta ssp. calyculata | Mendocino tarplant | None | None | - | 4.3 |
| UPPER LAKE | Hesperolinon adenophyllum | glandular western flax | None | None | - | 1B.2 |
| UPPER LAKE | Leptosiphon acicularis | bristly leptosiphon | None | None | - | 4.2 |

Key for 9-Quad Table:

CNPS Rare Plant-Threat Rank Definitions:

- 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

CNPS Rare Plant-Threat Rank Definitions (cont.):

- 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

CDFW / State and Federal Status:

| | |
|---|---|
| SE/ST/SD = State Endangered/Threatened/Delisted | SC/SCD = State Candidate for Listing/Delisting |
| SSC = CDFW Species of Special Concern | SFP = State 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 |

State and Federal Status:

| | |
|---|------------------|
| Threat = Threatened | End = Endangered |
| Prop = Proposed | Cand = Candidate |
| Cand End/Threat = State Candidate for Endangered/Threatened | |

APPENDIX B

REGIONAL CWHR DATABASE 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

FT = Federal Threatened

CE = California Endangered

CT = California Threatened

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.

CF = California Fully Protected

CP = California Protected

SC = California Species of Special Concern

PE = Federally-Proposed Endangered

PT = Federally-Proposed Threatened

FC = Federal Candidate

BL = BLM Sensitive

FS = USFS Sensitive

CD = CDF Sensitive

HA = Harvest

| ID | Species Name | Status | Native/Introduced |
|------|---------------------------|--------|-------------------|
| A020 | SPECKLED BLACK SALAMANDER | | NATIVE |
| B057 | CATTLE EGRET | | NATIVE |
| B119 | RED-SHOULDERED HAWK | | NATIVE |
| B124 | FERRUGINOUS HAWK | | NATIVE |
| B125 | ROUGH-LEGGED HAWK | | NATIVE |
| B127 | AMERICAN KESTREL | | NATIVE |
| B251 | BAND-TAILED PIGEON | HA | NATIVE |
| B263 | FLAMMULATED OWL | | NATIVE |
| B267 | NORTHERN PYGMY OWL | | NATIVE |
| B269 | BURROWING OWL | SC BL | NATIVE |
| B274 | NORTHERN SAW-WHET OWL | | NATIVE |
| B277 | COMMON POORWILL | | NATIVE |
| B281 | VAUX'S SWIFT | SC | NATIVE |
| B294 | LEWIS' S WOODPECKER | | NATIVE |
| B302 | NUTTALL'S WOODPECKER | | NATIVE |
| B303 | DOWNY WOODPECKER | | NATIVE |
| B304 | HAIRY WOODPECKER | | NATIVE |
| B305 | WHITE-HEADED WOODPECKER | | NATIVE |
| B307 | NORTHERN FLICKER | | NATIVE |
| B317 | HAMMOND'S FLYCATCHER | | NATIVE |
| B320 | PACIFIC-SLOPE FLYCATCHER | | NATIVE |
| B333 | WESTERN KINGBIRD | | NATIVE |
| B337 | HORNED LARK | | NATIVE |
| B338 | PURPLE MARTIN | SC | NATIVE |
| B348 | WESTERN SCRUB-JAY | | NATIVE |
| B353 | AMERICAN CROW | HA | NATIVE |
| B358 | OAK TITMOUSE | | NATIVE |
| B361 | RED-BREASTED NUTHATCH | | NATIVE |
| B362 | WHITE-BREASTED NUTHATCH | | NATIVE |
| B368 | BEWICK'S WREN | SC | NATIVE |

| ID | Species Name | Status | | | | Native/Introduced |
|------|--------------------------------|--------|----|----|-------|-------------------|
| B381 | MOUNTAIN BLUEBIRD | | | | | NATIVE |
| B391 | WRENTIT | | | | | NATIVE |
| B417 | HUTTON'S VIREO | | SC | | | NATIVE |
| B425 | ORANGE-CROWNED WARBLER | | | | | NATIVE |
| B437 | TOWNSEND'S WARBLER | | | | | NATIVE |
| B460 | MACGILLIVRAY'S WARBLER | | | | | NATIVE |
| B495 | LARK SPARROW | | | | | NATIVE |
| B499 | SAVANNAH SPARROW | CE | SC | | | NATIVE |
| B501 | GRASSHOPPER SPARROW | | SC | | | NATIVE |
| B504 | FOX SPARROW | | | | | NATIVE |
| B521 | WESTERN MEADOWLARK | | | | | NATIVE |
| B543 | LESSER GOLDFINCH | | | | | NATIVE |
| B699 | BARRED OWL | | | | | NATIVE |
| B799 | HARRIS'S SPARROW | | | | | 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 |
| M055 | YELLOW-PINE CHIPMUNK | | | | | NATIVE |
| M057 | SHADOW CHIPMUNK | | | | | NATIVE |
| M059 | SONOMA CHIPMUNK | | | | | NATIVE |
| M075 | GOLDEN-MANTLED GROUND SQUIRREL | | | | | NATIVE |
| M080 | NORTHERN FLYING SQUIRREL | | SC | | FS | NATIVE |
| M105 | CALIFORNIA KANGAROO RAT | | SC | | | NATIVE |
| M113 | WESTERN HARVEST MOUSE | | | | | NATIVE |
| M117 | DEER MOUSE | | SC | | | NATIVE |
| M119 | BRUSH MOUSE | | | | | NATIVE |
| M120 | PINYON MOUSE | | | | | NATIVE |
| M134 | CALIFORNIA VOLE | FE | CE | SC | BL | NATIVE |
| R071 | DESERT NIGHTSNAKE | | | | | NATIVE |

Total Number of Species: 60

Query Parameters

Included Locations

Lake Co

Included Location Seasons

Migrant, Summer, Winter, Yearlong

Included Habitats & (Stages)

Annual Grassland, Closed-cone Pine-cypress, Deciduous Orchard, Douglas-fir, Eastside Pine, Jeffrey Pine, Juniper, Klamath Mixed Conifer, Lodgepole Pine, Montane Hardwood-conifer, Pinyon-juniper, Ponderosa Pine, Red Fir, Redwood, Sierran Mixed Conifer, Subalpine Conifer, Valley Foothill Riparian, Valley Oak Woodland, White Fir

Habitat Suitability Threshold

Reproduction - Medium, Cover - Medium, Feeding - Medium

Included Habitat Seasons

Migrant, Summer, Winter, Yearlong

Excluded Elements

Aquatics - Submerged, Barren, Bogs, Brush Pile, Buildings, Campground, Cave, Cliff, Cones, Dump, Jetty, Kelp, Lakes, Lithic, Mine, Mud Flats, Nest Box, Nest Island, Pack Stations, Ponds, Rivers, Rock, Salt Ponds, Sand Dune, Shrub/agriculture, Shrub/grass, Shrub/water, 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, Tree/shrub, Trees - Fir, Trees - Pine, Vernal Pools, Water, Water - Created Body, Water/agriculture

Included Species All Species Included

Included Special Statuses Native