## BIOLOGICAL RESOURCE ASSESSMENT WITH BOTANICAL SURVEY and DELINEATION OF WATERS OF THE U.S.

for the

#### **GETAWAY HOUSE PROJECT**

APNS 048-270-22 (PTN.), 048-270-23 & 048-270-24 HOPLAND, CALIFORNIA

June 25, 2020

Prepared by Northwest Biosurvey



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#### **CONTENTS**

<u>Secti</u>	<u>ion</u>		<u>Page</u>
1.0	PRO	JECT DESCRIPTION	1
	1.1	Proposed Project	1
	1.2	Location	1
2.0	ASSI	ESSMENT METHODOLOGY	3
	2.1	Botanical Survey Methods	4
	2.2	Delineation Methods	4
	2.3	Survey Dates	4
	2.4	Biological Resource Assessment Staff	4
3.0	SITE	CHARACTERISTICS	5
	3.1	Topography and Drainage	5
	3.2	Soils	5
	3.3	Vegetation Types	6
4.0	PRE-	SURVEY RESEARCH RESULTS	9
	4.1	CNPS Electronic Inventory Analysis	9
	4.2	California Natural Diversity Database	9
	4.3	Wildlife Habitat Analysis Results	15
	4.4	Wildlife Assessment	15
5.0	FIELD	O SURVEY RESULTS	17
	5.1	Botanical Field Survey Results	17
6.0	SUM	MARY AND RECOMMENDATIONS	21
	6.1	Summary	21
	6.2	Recommendations	22
7.0	BIBL	IOGRAPHY	26

#### FIGURES AND TABLES

<u>Section</u>		<u>Page</u>
Figure 1	Location Map	2
Figure 2	Plant Communities Map	8
Table 1	Areas of Vegetation Types	6
Table 2	Selected CNPS Plants	10
Table 3	CNDDB Sensitive Plant Species	12
Table 4	Flora of Getaway House Project	18
APPENDIX	A CNDDB 9-Quad Species List	
APPENDIX	B Regional CWHR Species List	
APPENDIX	C Aquatic Resources Report	

#### 1.0 PROJECT DESCRIPTION

**1.1 Proposed Project:** This biological resource assessment and survey covers three parcels totaling approximately 97 acres which is proposed for a micro-cabin and recreational vehicle development. Vegetation types are 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 property to contain sensitive plant and wildlife habitat. The second phase consists of field surveys, including a botanical survey listing all plant taxa<sup>1</sup>. The biological resource 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 <u>and</u> all species listed in the California Natural Diversity Database (CNDDB) list of "Special Status Plants, Animals, and Natural Communities".

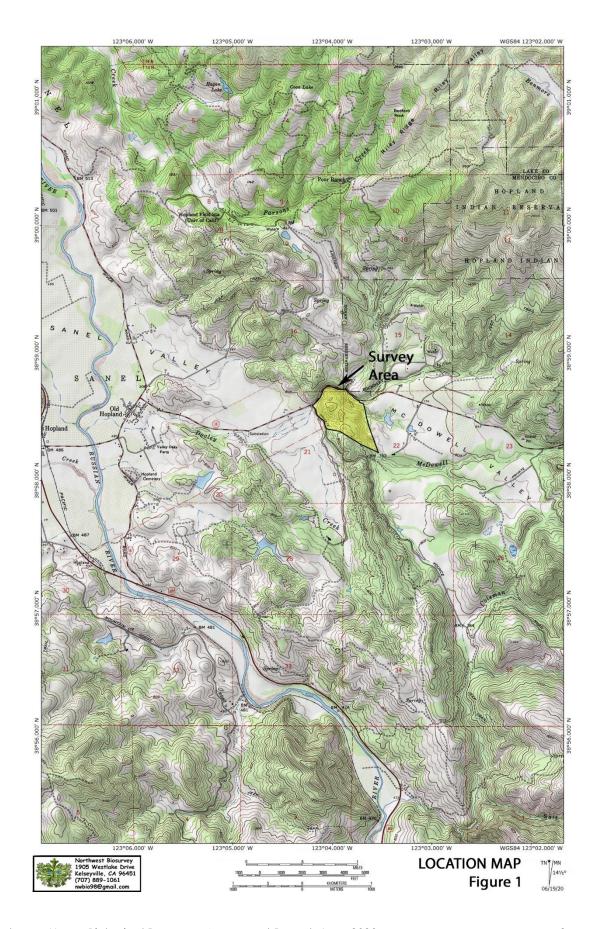
A delineation of waters of the U.S. was conducted as part of the assessment because of the presence of streams within the parcel. Due to the fact that delineations are prepared with a standard format for U.S. Army Corps of Engineers review, the delineation is provided as a separate report in **Appendix C**.

**1.2** Location: The project site is located on Highway 175, east of Hopland in Mendocino County, California (APNs 048-270-22 (ptn.), 048-270-23 & 24; T13N R11W, Hopland, Calif. 7½ Topographic Map). A location map is provided in **Figure 1**.

Getaway House Biological Resource Assessment Report, June 2020

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.

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 (CNDDB)
- Soils of the project area
- Elevation
- Presence or absence of special habitat features such as vernal pools and serpentine soils

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 (CNDDB); RareFind 5, 2020
- California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants of California (2020 edition)
- California Department of Fish and Wildlife, California Wildlife Habitat Relationships System (CWHR), Version 9.0

The CNDDB 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** <u>Botanical Survey Methods</u>: A full, in-season floristic-level survey was conducted for the project site. The CNDDB report and maps for the Hopland 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"=180" 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 6<sup>th</sup> edition, CNPS Inventory of Rare and Endangered Plants of California. A map of the plant communities is provided in **Figure 2**.

- **2.2 Delineation Methods:** The delineation was conducted as prescribed in the Corps of Engineers Wetlands Delineation Manual, January 1987 and the Arid West 2008 Supplement. Plant taxonomy and nomenclature is from the Jepson Manual, Higher Plants of California, 2012. Other texts, such as Munz's A California Flora and Supplement, 1973, and Mason's Flora of the Marshes of California, 1957, were used as supplemental texts. The survey included use of lidar mapped overlays and an extensive foot survey.
- **2.3** <u>Survey Dates</u>: Site visits for in-season floristic surveys, mapping, and the delineation were made on March 31 and June 11, 2020.
- **2.4** <u>Biological Assessment Staff</u>: The assessment, botanical field surveys, plant taxonomy, and the delineation 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. He completed his wetland delineation training under Terry Huffman of Huffman & Associates, Inc.

Mr. Zalusky was assisted in the field and with mapping and the delineation by Leigh Zalusky. Leigh Zalusky has a Bachelor of Science Degree in Engineering from the University of California, Davis. He has 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 four years.

Danielle Zalusky, Northwest Biosurvey principal planner, assisted with database review and report preparation. Ms. Zalusky has 15 years of experience as a planner in local government and the private sector and 16 years as a field biologist. 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 Getaway House property straddles a narrow spur-ridge extending southward from the western base of the Mayacamas Mountains between the Sanel and McDowell Valleys. Elevations on the property range from ~840 feet msl (mean sea level) along the ridgetop to ~640 feet msl along the valley floors. The terrain is relatively steep and is cut by a number of narrow drainages.

Drainage from the eastern side of the property drains to McDowell Creek which flows north along the eastern base of the ridge and then turns west along the northern edge of the property before entering Sanel Valley; it eventually joins Dooley Creek to continue west across the valley floor to the Russian River. Flows from the western side of the property are collected in a north-flowing channel extending along the base of the slope. This channel joins Dooley Creek at the northwestern edge of the property.

**3.2 Soils:** The survey area contains the following soil unit:

#### ■ Hopland-Woodin complex, 50-75% slopes:

These well-drained soils occur on hills and mountains. This unit includes about 40% Hopland and similar soils and 30% Woodin and similar soils. Parent material is residuum from sandstone and shale. Surface runoff is high to very high.

**3.3** <u>Vegetation Types:</u> The entire property was mapped for vegetation in order to provide project context. The project contains four 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 and shown in the vegetation map provided in **Figure 2.** 

It should be noted that an inholding that is not included in this project has been mapped for context but is not included in the assessment. Plant community colors in this inholding are shown faded in **Figure 2** to make the distinction clear.

TABLE 1. PLANT COMMUNITIES AND OTHER COVER TYPES PRESENT

COVER TYPE	Acres of Cover Type on Property	Percent of Total Acres on Property
Mixed Oak Woodland	51.38	52.73
Blue Oak Woodland	30.58	31.39
Chamise Chaparral	0.41	0.42
Wild Oat Grassland	12.85	13.19
Ruderal (disturbed areas)	2.21	2.27
TOTAL ACRES OF COVER TYPE	97.43	100.00

#### Mixed Oak Woodland:

Mixed oak woodland forms a dense woodland/forest on the steeper and more shaded slopes. Dominance among the tree species present shifts depending on the amount of shading. California black oak (Quercus kelloggii) dominates the most shaded areas but transitions into dominance by either interior live oak (Quercus wislizeni var. wislizeni), or Oregon white oak (Quercus garryanna var. garryanna) on the less shaded slopes. The ground cover is generally wild oat grassland but with a shift to the more shade-tolerant grasses and forbs. These include hedgehog dogtail (Cynosurus echinatus), blue-eyed grass (Sisyrinchium bellum), bowl-tubed iris (Iris macrosiphon), blue wildrye (Elymus glaucus ssp. glaucus), grand hounds-tongue (Cynoglossum grande), Pacific black snakeroot (Sanicula crassicaulis), and purple sanicle (Sanicula bipinnatifida).

Along the course of McDowell Creek, the shaded banks adjacent to the channel support scattered red willow (Salix laevigata), white alder (Alnus rhombifolia), and Fremont cottonwood (Populus fremontii var. fremontii). The channel itself supports occasional clumps of scouring rush (Equisetum hyemale ssp. affine) and mugwort (Artemesia douglasiana). This was not mapped as a separate riparian community because these riparian components are widely scattered within an otherwise zonal community of mixed oak woodland. In early spring, the channel still contained shallow isolated pools.

#### Blue Oak Woodland:

Blue oak (*Quercus douglasii*) provides a nearly homogenous cover in this open woodland. These are mature but moderate-sized oaks to an average height ranging from 40-50 feet and a dbh (diameter at breast height) of ~20 inches. On the more level open slopes, it occurs as savannah while the steeper slopes support woodland. The shrub layer is moderate and consists of a mix of birch leaf mountain mahogany (*Cercocarpus betuloides var. betuloides*), common manzanita (*Arctostaphylos manzanita ssp. manzanita*), and poison oak (*Toxicodendron diversilobum*). The ground cover is wild oat grassland.

#### Chamise Chaparral:

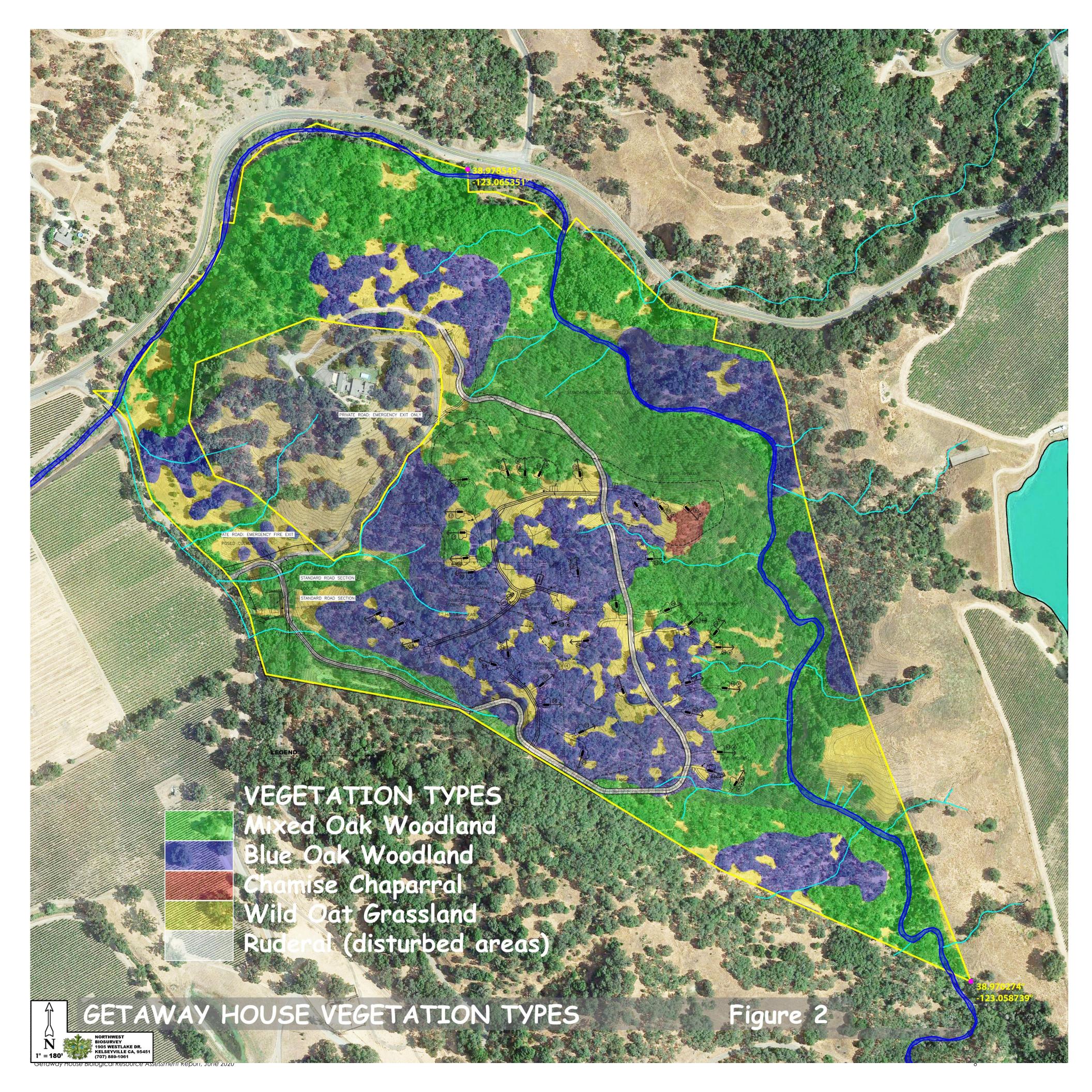
This small chamise community occupies the crest of a south-facing slope. It is heavily dominated by chamise (Adenostoma fasciculatum) with scattered common manzanita. The community is atypical in that the spacing is relatively open with a ground cover of wild oat grassland. These are typically dense communities with leaf litter and bare earth for ground cover.

#### Wild Oat Grassland:

This open grassland is heavily dominated by slender wild oat (Avena barbata). Other species include a diverse mix of forbs and grasses which shift in dominance based on aspect and shading. These include big quaking grass (Briza maxima), blue wild rye, California brome (Bromus carinatus var. carinatus), hedgehog dogtail, blue-eyed grass, and California fescue (Festuca californica).

#### Ruderal:

Ruderal (disturbed habitat) within the property is limited to a ranch road that loops through the upper elevations of the parcel.



#### 4.0 PRE-SURVEY RESEARCH RESULTS

4.1 <u>CNPS Electronic Inventory Analysis</u>: 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 Mendocino 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. It is important to note that this list includes species for which appropriate habitat is not present on the parcel (including serpentine species, 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 <u>California Natural Diversity Database</u>: The California Natural Diversity Database (CNDDB) and CDFW RareFind 5 data and maps for the Hopland 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:

#### Getaway House Project

Scientific Name	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat/Micro-Habitat
Bryum chryseum	brassy bryum	Bryaceae	moss	4.3	None	None	na	Chaparral (openings), Cismontane woodland, Valley and foothill grassland
Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	Convolvulaceae	perennial rhizo. herb	4.2	None	None	Apr-Jun	Chaparral, Lower montane coniferous forest, Valley and foothill grassland; serpentine
Carex comosa	bristly sedge	Cyperaceae	perennial rhizo. herb	2B.1	None	None	May-Sep	Coastal prairie, Marshes and swamps (lake margins), Valley and foothill grassland
Ceanothus confusus	Rincon Ridge ceanothus	Rhamnaceae	perennial evergreen shrub	1B.1	None	None	Feb-Jun	Closed-cone coniferous forest, Chaparral, Cismontane woodland; volcanic or serpentinite
Collomia diversifolia	serpentine collomia	Polemoniaceae	annual herb	4.3	None	None	May-Jun	Chaparral, Cismontane woodland; serpentinite, rocky or gravelly
Entosthodon kochii	Koch's cord moss	Funariaceae	moss	1B.3	None	None		Cismontane woodland (soil)
Epilobium septentrionale	Humboldt County fuchsia	Onagraceae	perennial herb	4.3	None	None	Jul-Sep	Broadleafed upland forest, North Coast coniferous forest; sandy or rocky
Iris longipetala	coast iris	Iridaceae	perennial rhizo. herb	4.2	None	None	Mar-May	Coastal prairie, Lower montane coniferous forest, Meadows and seeps; mesic
Layia septentrionalis	Colusa layia	Asteraceae	annual herb	1B.2	None	None	Apr-May	Chaparral, Cismontane woodland, Valley and foothill grassland; sandy, serpentinite
Streptanthus glandulosus ssp. hoffmanii	Hoffman's bristly jewelflower	Brassicaceae	annual herb	1B.3	None	None	Mar-Jul	Chaparral, Cismontane woodland, Valley and foothill grassland (often serpentinite); rocky

Scientific Name	Common Name	Family	Lifeform	CRPR	CESA	FESA	Blooming Period	Habitat/Micro-Habitat
Tracyina rostrata	beaked tracyina	Asteraceae	annual herb	1B.2	None	None	May-Jun	Chaparral, Cismontane woodland, Valley and foothill grassland
Viburnum ellipticum	oval-leaved viburnum	Adoxaceae	perennial deciduou s shrub	2B.3	None	None	May-Jun	Chaparral, Cismontane woodland, Lower montane coniferous forest

#### 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.

B = 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

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:

CESA = California Endangered Species Act

FESA = Federal Endangered Species Act

SR = State. Rare SE = State Endangered. ST = State. Threatened SD = State Delisted

SSC = CDFW Species of Special Concern FP = CDFW Fully Protected WL = CDFW Watch List FE = Federal Endangered

T = Federal Threatened FD = Federal Delisted

Rhizo. = rhizomatous

TABLE 3. CNDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE HOPLAND, CALIF. 71/2' QUADRANGLE

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	Chaparral, lower montane coniferous forest/rocky, often serpentine;//1B.1	FebApril ann. herb	Poor habitat present
Bryum chryseum	brassy bryum	Chaparral (openings); cismontane woodland/valley and foothill grassland;//4.3	NA-moss	Habitat present – not found
Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning- glory	Chaparral, lower montane conif. forest, valley & foothill grassland/serpentinite;//4.2	April-June rhizom. herb	Habitat not present
Carex comosa	bristly sedge	Coastal prairie, marshes and swamps (lake margins), valley and foothill grassland;//2B.1	May-Sept. per. rhizom. herb	Habitat not present
Collomia diversifolia	serpentine collomia	Chaparral, cismontane woodland/serpentinite, rocky or gravelly;//4.3	May-June ann. herb	Habitat not present
Entosthodon kochii	Koch's cord moss	Cismontane woodland (soil);//1B.3	NA-moss	Habitat present – not found
Epilobium septentrionale	Humboldt County fuschia	Broadleafed upland forest; North Coast coniferous forest/sandy or rocky;//4.3	July-Sept. per. herb	Habitat not present
Erythranthe nudata	bare monkeyflower	Chaparral, cismontane woodland, serpentinite seeps;//4.3	May-June ann. herb	Habitat not present
Iris longipetala	coast iris	Coastal prairie; lower montane coniferous forest; meadows and seeps/mesic;//4.2	March-May per. rhizo. herb	Habitat not present
Kopsiopsis hookeri	small groundcone	North Coast coniferous forest/redwood forest;//2B.3 (parasitic)	April-August per. rhizom. herb	Habitat not present
Layia septentrionalis	Colusa layia	Chaparral, cismontane woodland, valley & foothill grassland/sandy or serpentine;//1B.2	April-May ann. herb	Habitat not present
Leptosiphon jepsonii	Jepson's leptisiphon	Chaparral, cismontane woodland, grassy slopes/volcanic or serpentine edge;//1B.2	May-July ann. herb	Habitat not present
Streptanthus glandulosus ssp. hoffmanii	Hoffman's bristly jewelflower	Chaparral, cismontane woodland, valley and foothill grassland/rocky, often serpentinite;//1B.3	March-July ann. herb	Poor habitat present
Tracyina rostrata	beaked tracyina	Cismontane woodland, valley & foothill grassland;//1B.2	May-June ann. herb	Habitat present – not found

Plant Species	Common Name	Habitat Requirements, Fed/State/CNPS* Status	Blooming Season	Habitat Present
Viburnum ellipticum	oval-leaved viburnum	Chaparral, cismontane woodland, lower montane coniferous forest;//2B.3	May-June decid. shrub	Habitat present – not found

<sup>\*</sup>See CNPS list for key

Wildlife Species	Common Name	Habitat Requirements/Status	Season Present	Habitat Present
Bombus caliginosus	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	Poor habitat present
Lavinia symmetricus ssp. 4	Clear Lake – Russian River roach	Closely related species found either in tributaries to Clear Lake, Lake County, or the Russian River and its tributaries; SSC/G4/S2S3	year-round	Habitat not present
Oncorhynchus mykiss irideus pop. 8	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 not present
Oncorhynchus tshawytscha (pop. 17)	chinook salmon - California coastal ESU	Freshwater fish of rivers and streams extending from Humboldt County south to Sonoma County (Russian River); FT/G5/S1	non-migratory	Habitat not present
Hysterocarpus traski pomo	Russian River tule perch	Russian River: Requires clear, flowing water with deep pools or runs and abundant cover for refuge from predators; SSC/G5/S2	year-round	Habitat not present
Taricha rivularis	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	Mesic habitat not present
Emys marmorata	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	Mesic habitat not present
Rana boylii	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	Mesic habitat not present

Wildlife Species	Common Name	Habitat Requirements/Status	Season Present	Habitat Present
Agelaius tricolor	tricolored blackbird	Fresh emergent wetland (marshes) with cattails, tules, sedges. Largely endemic to California; SSC/ST/G2G3/S1S2	year-round	Mesic habitat not present
Ammodramus savannarum	grasshopper sparrow	Prefers open grassland habitats with patches of bare ground and shrubby vegetation. Breeds in various types of grassland vegetation. Eats insects, grain, and seeds on the ground; SSC/G5/S3	sometimes migratory	Habitat may be present
Asio otus	long-eared owl	Riparian habitat, densely canopied trees; SSC/G5/S3	local and long- distance migrant	Mesic habitat not present
Aquila chrysaetos	golden eagle	Secluded cliffs with overhanging ledges and large trees near open terrain; SFP/WL/G5/S3	sometimes migratory	Habitat not present
Ardea herodias	great blue heron	Shallow ponds and estuaries, & salt and fresh emergent wetlands; G5/S4	sometimes migratory	Mesic habitat not present
Antrozous pallidus	pallid bat	Open, dry habitats, forest habitats, in caves, tunnels, buildings, bridges; sensitive to human disturbance; SSC/G5/S3	local migrant	Habitat may be present
Corynorhinus townsendii	Townsend's big-eared bat	Roosts in open near relatively mesic sites, mainly montane forest habitats; SSC/G3/S2	local migrant	Mesic habitat not present
Erethizon dorsatum	North American porcupine	Occurs in a wide variety of coniferous and mixed woodland habitats in Sierra Nevada, Cascade, and Coast Ranges/ uses fallen and standing dead trees as cover; G5/S3	year-round	Habitat not present

#### Key for Table 3:

#### **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=CDFW Fully Protected
WL=CDFW Watch List
FE/FT/FD=Federal Endangered/Threatened/Delisted
FPE/FPT/FPD/FP=Federal Proposed Endangered/Threatened/Delisting

#### **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

FC=Federal Candidate

- 4.3 <u>Wildlife Habitat Analysis Results</u>: The California Wildlife Habitat Relationships analysis lists a large number of sensitive and non-sensitive native wildlife species as potentially occurring on the site based on the general 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** <u>Wildlife Assessment</u>: Based on the pre-survey research conducted for this study, a total of 16 sensitive wildlife species need to be accounted for within the project area. These consist of the species identified as present within the Hopland quadrangle by the CNDDB and by the CWHR. Accepted protocol requires that all CNDDB species in the surrounding U.S.G.S. quadrangle be discussed even through suitable habitat may not occur on the site.

<u>Habitat for the following species is absent or very poor on the property</u>. Most of these species require perennial water, ponds, lakes, or marshes. Large raptors like eagles require large nesting platforms or ledges. These species include:

- o Obscure bumble bee (lack of food sources)
- o Clear Lake Russian River roach (fish lakes and/or perennial streams)
- Steelhead-Central California Coast DPS (fish lakes and/or perennial streams)
- o Chinook salmon California coastal ESU (fish lakes and/or perennial streams)
- Russian River tule perch (fish lakes and/or perennial streams)
- o Red-bellied newt (herptile mesic habitat not perennially present)
- Western pond turtle (herptile pond habitat not present)
- Foothill yellow-legged frog (herptile mesic habitat not perennially present)
- o Tricolored blackbird (no ponds on site)
- Long-eared owl (no riparian habitat)
- o Golden eagle (no suitable roosting sites)
- o Great blue heron (no ponds on site)
- Townsend's big-eared bat (mesic habitat not present)
- North American porcupine (conifer habitat not present)

There is a pond on an adjacent property that may provide habitat for many of the above-listed species, and these animals may occasionally occur in non-sensitive status on the Getaway property. Additionally, a Coast Range newt (*Taricha torosa*) was seen during the first site visit; however, this species often occurs in dryer habitats and may be found under rocks, on roads, etc. It does not have sensitive status.

The potential for occurrence of the remaining wildlife species is addressed below. The sensitive wildlife species with a potential to occur on this property may be found in oak woodlands and grasslands.

#### Grasshopper sparrow (Ammodramus savannarum):

This sparrow is a summer resident in foothills and lowlands west of the Cascade-Sierra Nevada crest from Mendocino and Trinity counties to southern California. It occurs in dry, dense grasslands with scattered shrubs for singing perches. Grasshopper sparrows are secretive in winter. They need thick grasslands and forbs for cover, and nest in small depressions on the ground. They breed from April to mid-July. Sparrows feed primarily on insects but also eat other invertebrates, grains, and forb seeds. They search for food on the ground. The sparrow has sensitive status while nesting.

#### Pallid bat (Antrozous pallidus):

Optimal habitat for these bats consists of open, dry habitats with rocky areas, but the bats are also found in oak savanna grasslands, and in open forest and woodlands with access to riparian and open water for feeding and drinking in northern California. Foraging occurs over open country. These bats prefer the cool summer temperatures of caves, crevices, and mines as roosting sites where they are known to wedge themselves into small spaces; they will also roost in buildings, bridges, and hollow trees. Preferred roosts are high above the ground and inaccessible to terrestrial predators, although they are occasionally found roosting on the ground underneath sacks and other items left by humans.

Pallid bats take a variety of prey, including insects, reptiles, and rodents. Maternity colonies tend to be in the more protected, isolated locations and may consist of more than 100 individuals. The bats have a home range of 1 to 3 miles and, like the Townsend's bat, are known to roost with other bat species. This species of bat does not migrate long distances between seasons. This species is extremely sensitive to human disturbance of roosting sites. Populations in California have declined due to habitat destruction and use of pesticides. The woodlands on the property contain potential roosting habitat for bats, and the pond on the adjacent property may provide feeding habitat.

Raptors and passerines with non-sensitive status are likely to nest on the property due to the woodland habitats present. These birds may include red-tailed hawks, crows and ravens, and woodpeckers. Regardless of state and federal status, all nesting raptors and many passerines are protected under the Migratory Bird Treaty Act and Fish and Game Code.

#### 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 82 plant taxa on the property, including native and introduced plants. No sensitive species were identified.

TABLE 4. FLORA OF THE GETAWAY HOUSE PROJECT

Habit	Species	Common Name	Family	Origin
fern	Equisetum hyemale ssp. affine	common scouring rush	Equisetaceae	N
fern	Polypodium glycyrrhiza	licorice fern	Polypodiaceae	N
fern	Adiantum jordanii	California maiden-hair fern	Pteridaceae	N
fern	Pentagramma triangularis ssp. triangularis	gold-back fern	Pteridaceae	N
forb	Conium maculatum	poison hemlock	Apiaceae	А
forb	Petroselinum crispum	parsley	Apiaceae	А
forb	Sanicula bipinnatifida	purple sanicle	Apiaceae	N
forb	Sanicula crassicaulis	Pacific sanicle, Pacific blacksnakeroot	Apiaceae	N
forb	Torilis arvensis	field hedge parsley	Apiaceae	Α
forb	Achillea millefolium	common yarrow	Asteraceae	N
forb	Agoseris retrosa	spear-leaved agoseris	Asteraceae	N
forb	Artemesia douglasiana	mugwort	Asteraceae	N
forb	Centaurea solstitialis	yellow star thistle	Asteraceae	А
forb	Hypochaeris radicata	rough cat's-ear	Asteraceae	Α
forb	Micropus californicus	cottontop	Asteraceae	N
forb	Micropus californicus var. californicus	slender cottonweed	Asteraceae	N
forb	Senecio vulgaris	common butterweed, common groundsel	Asteraceae	А
forb	Wyethia angustifolia	narrow-leaved mule ears	Asteraceae	N
forb	Wyethia glabra	green mule ears, shining mule ears	Asteraceae	N
forb	Cynoglossum grande	grand hound's tongue	Boraginaceae	N
forb	Plagiobothrys nothofulvus	rusty-haired popcornflower	Boraginaceae	N
forb	Thysanocarpus curvipes	fringe pod	Brassicaceae	N
forb	Carex multicaulis	forest sedge, many-stem sedge	Cyperaceae	N
forb	Lupinus affinis	fleshy lupine	Fabaceae	N
forb	Lupinus bicolor	miniature lupine	Fabaceae	N
forb	Trifolium hirtum	rose clover	Fabaceae	Α
forb	Vicia sativa ssp. nigra	narrow-leaved vetch	Fabaceae	Α

Habit	Species	Common Name	Family	Origin
forb	Vicia villosa ssp. villosa	winter vetch, hairy vetch	Fabaceae	Α
forb	Erodium botrys	long-beaked storksbill, broadleaf filaree	Geraniaceae	Α
forb	Erodium cicutarium	red-stem storksbill	Geraniaceae	Α
forb	Geranium dissectum	cut-leaved geranium	Geraniaceae	Α
forb	Nemophila menziesii var. atomaria	baby blue eyes	Hydrophyllaceae	N
forb	Iris macrosiphon	bowl-tubed iris	Iridaceae	N
forb	Sisyrinchium bellum	blue-eyed grass, western blue-eyed grass	Iridaceae	N
forb	Juncus confusus	Colorado rush	Juncaceae	N
forb	Luzula comosa	Pacific woodrush	Juncaceae	N
forb	Mentha pulegium	pennyroyal	Lamiaceae	Α
forb	Stachys albens	cobwebby hedge nettle, white-stem hedge nettle	Lamiaceae	N
forb	Chlorogalum pomeridianum	wavyleaf soap plant	Liliaceae	N
forb	Dichelostemma capitatum ssp. capitatum	blue dicks	Liliaceae	N
forb	Claytonia perfoliata ssp. perfoliata	miner's lettuce	Montiaceae	N
forb	Clarkia purpurea ssp. quadrivulnera	purple clarkia, winecup clarkia, four-spot	Onagraceae	N
forb	Taraxia (Camissonia) ovata	sun cup	Onagraceae	N
forb	Plantago lanceolata	English plantain	Plantaginaceae	Α
forb	Navarretia mellita	skunk navarretia	Polemoniaceae	N
forb	Dodecatheon hendersonii	Henderson's shooting stars	Primulaceae	N
forb	Delphinium nudicaule	red larkspur	Ranunculaceae	N
forb	Ranunculus occidentalis	western buttercup	Ranunculaceae	N
forb	Galium aparine	goose grass, common bedstraw	Rubiaceae	N
forb	Galium porrigens var. porrigens	climbing bedstraw, graceful bedstraw	Rubiaceae	N
forb	Pedicularis densiflora	warrior's plume, Indian warrior	Scrophulariaceae	N
forb	Brodiaea elegans ssp. elegans	harvest brodiaea	Themidaceae	N
grass	Avena barbata	slender wild oat	Poaceae	Α
grass	Briza maxima	big quaking grass	Poaceae	Α
grass	Bromus carinatus var. carinatus	California brome	Poaceae	N

Habit	Species	Common Name	Family	Origin
grass	Bromus sterilis	poverty brome	Poaceae	Α
grass	Cynosurus echinatus	hedgehog dogtail, annual dogtail	Poaceae	Α
grass	Elymus glaucus ssp. glaucus	blue wildrye	Poaceae	N
grass	Festuca californica	California fescue	Poaceae	N
grass	Hordeum brachyantherum ssp. brachyantherum	meadow barley, northern barley	Poaceae	N
grass	Phalaris aquatica	Harding grass	Poaceae	Α
shrub	Toxicodendron diversilobum	poison oak	Anacardiaceae	N
shrub	Baccharis pilularis	coyote brush, chaparral broom	Asteraceae	N
shrub	Symphoricarpos albus var. laevigatus	common snowberry	Caryophyllaceae	N
shrub	Arctostaphylos manzanita ssp. manzanita	common manzanita	Ericaceae	N
shrub	Adenostoma fasciculatum	chamise	Rosaceae	N
shrub	Cercocarpus betuloides var. betuloides	birch-leaf mountain mahogany	Rosaceae	N
shrub	Heteromeles arbutifolia	toyon	Rosaceae	N
shrub	Rosa californica	California wild rose	Rosaceae	N
shrub	Rubus armeniacus	Himalayan blackberry	Rosaceae	Α
shrub	Salix lasiolepis	arroyo willow	Salicaceae	N
tree	Alnus rhombifolia	white alder	Betulaceae	N
tree	Arbutus menziesii	Pacific madrone	Ericaceae	N
tree	Quercus douglasii	blue oak	Fagaceae	N
tree	Quercus garryanna var. garryanna	Oregon white oak	Fagaceae	N
tree	Quercus kelloggii	California black oak	Fagaceae	N
tree	Quercus wislizeni var. wislizeni	interior live oak	Fagaceae	N
tree	Aesculus californica	California buckeye	Hippocastanaceae	N
tree	Umbellularia californica	California bay	Lauraceae	N
tree	Populus fremontii var. fremontii	Fremont cottonwood	Salicaceae	N
tree	Salix laevigata	red willow	Salicaceae	N
vine	Symphoricarpos mollis	tripvine, creeping snowberry	Caprifoliaceae	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 (CNDDB) 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.
- A delineation of waters of the U.S. conducted according to the Corps of Engineers Wetlands Delineation Manual, January 1987 as updated by the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, 2008.

<u>Sensitive Plants</u>: A total of 82 native and introduced plant taxa were identified on the property during the in-season, floristic-level botanical surveys. No sensitive plant taxa were identified. Plants ranked 1B are considered by regulatory agencies to qualify as rare under Section 15380(d) of the California Environmental Quality Act (CEQA) and thus require consideration and subsequent mitigation during CEQA review. 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.

<u>Sensitive Wildlife</u>: A total of sixteen sensitive wildlife species were assessed for potential occurrence at the site because of inclusion in the CNDDB database for the Clearlake Oaks quadrangle. Two wildlife species with <u>sensitive regulatory</u> status have a potential to occur on within the oak woodlands on the property. These are:

• Birds: Grasshopper sparrow, raptors

Mammals: Pallid bat

<u>Possible Waters of the U.S.</u>: Waters of the U.S. within the property consist of intermittent and ephemeral streams. The total area of all delineated aquatic resources is **3.277** 

acres. <u>No wetlands were delineated</u>. This is discussed in **Appendix C**, **Aquatic Resources Report**.

#### 6.2 Potential Impacts and Proposed Mitigation for Biological Resources:

#### A. Sensitive Wildlife

<u>Potential Impacts</u>: Removal of trees for development has the potential to result in an incidental take of pallid bats and grasshopper sparrows - both of which are California Species of Special Concern - and passerines and raptors protected under the Migratory Bird Treaty Act and California Fish and Wildlife Code.

#### **Proposed Mitigation:**

Measure 1: To the extent feasible, construction, including vegetation removal, shall occur outside of the nesting season for grasshopper sparrows and for raptors and passerines (February 15 through August 31). In the event that vegetation removal is necessary during the nesting season, the work shall be preceded by a pre-construction nest survey conducted by a qualified biologist within two weeks of disturbance. If an active nest of a sensitive bird species is found, a construction buffer shall be established around it in consultation with CDFW staff and shall remain in place until fledging is completed or until it is determined that the nesting effort has failed as determined by the qualified biologist.

Measure 2: In order to avoid incidental take of bats, the following recommendation is made: If work is proposed within woodland habitat during the maternity roosting season for bats (April 1 through September 15), trees with features capable of supporting roosting bats shall be surveyed for bat roosts or evidence of bat roosting (guano, urine staining and scent, dead bats) within 14 days of the start of project activities or removal of vegetation. If active roosts are discovered, a buffer of 50 feet around the active roost should be established by a qualified biologist. Removal may occur once active roosting ceases as determined by the biologist.

#### B. Woodlands and Forest

<u>Potential Impacts</u>: As shown in **Table 1** and **Figure 2**, the 97-acre property contains a mix of woodland habitat. Based on an overlay of the Getaway House development plan on the vegetation map (see **Figure 2**), the

placement of cabins appears to focus on openings in the woodland canopy, clearings, and open grasslands, and therefore reduces potential tree loss. Infrastructure such as proposed access roads and paths, etc., also emphasize use of grassland clearings and avoids trees.

**Tree loss:** As a consequence of this project design focusing on reduced impacts to trees and emphasis on use of the open habitat, actual tree loss should be minimized. However, this loss should be quantified during the permit process and an agency determination made regarding its significance within the context of the CEQA Guidelines. Excavation of cabin foundations, roadways, and trails beneath the driplines of oaks has a potential to result in additional tree loss beyond the incidental removal of trees within proposed construction sites.

Habitat Fragmentation: The Getaway House property sits astride a ridge extending between the Sanel and McDowell Valleys, both of which are heavily developed in fenced vineyard. As a consequence, this intervening ridge serves as a primary wildlife corridor between extensive open habitats to the north and south. Construction and use of this project will result in significant seasonal intrusion of people and potentially pets into this habitat. Night-time noise, lighting, and pets have a potential to adversely impact wildlife movement through this corridor.

#### **Proposed Mitigation:**

Measure 3: Use of woodland openings and grassland habitat should be emphasized as demonstrated in the proposed project design. Project engineers and/or surveyors should map any trees within the oak woodlands that will be removed during construction. This map and tree count should be used by permitting staff to determine whether potential impacts to oak woodlands have a potential to be significant within the context of the CEQA Guidelines and California's Oak Woodlands Protection Act. In the event that impacts are determined to be significant, standard mitigation consists of establishing a preservation ratio on an acreage basis and preserving on-site oak woodlands in a manner consistent with local planning policies. Project design and permitting should emphasize design which minimizes tree loss to the extent practical.

**Measure 4:** Construction of trails, foundations, roadways, etc., should avoid excavation beneath the driplines of trees for all trees that have not been approved for removal. In particular, trails and roadways should

minimize actual excavation and implement state of the art erosion control (e.g. rolling dips vs. water bars, etc.) where excavation is necessary.

**Measure 5:** To minimize disturbance of native wildlife using the property as a movement corridor, the following measures should be implemented:

- Pets, if allowed, should be kept indoors at night and dogs should be on a leash or under direct supervision.
- Use of overhead lighting should be avoided. Minor, on-ground, path lighting may be allowed.
- Night-time noise, particularly amplified music, should be subject to a curfew.
- Restrooms should be readily available throughout the resort and their use encouraged to avoid inadvertent human scent marking.

#### C. Waterways

<u>Potential Impacts</u>: Waterways on the property are mapped in **Figure W-2**. Roadways and trails crossing these waterways have a potential to result in erosion and sedimentation.

#### **Proposed Mitigation:**

Measure 6: Project design should minimize waterway crossings. Where these are necessary, it is recommended that they emphasize use of open bank areas lacking dense vegetation. Crossings of small waterways should consist of small bank-to-bank bridges not requiring excavation or footings. These may be removed during winter months. Use of in-channel crossings should be avoided. Use of mountain bikes on saturated earth trails during the winter and spring months should be avoided. Minor saturated areas may be planked. Intrusion into the McDowell Creek riparian zone (~ within 50 feet of the channel), should be minimized. This waterway is shown in dark blue in Figure 2. Use of trails parallel to this channel within the riparian zone should be avoided.

Any work involving the placement of fill or structures within waterways may require permits from the following agencies:

- U.S. Army Corps of Engineers
- Regional Water Quality Control Board
- California Department of Fish and Wildlife

#### D. Erosion Control

<u>Potential Impacts</u>: Vegetation clearing, and grading activities have a potential to result in sediment runoff into waterways.

#### **Proposed Mitigation:**

**Measure 7:** All work should incorporate extensive erosion control measures consistent with Mendocino County Grading Regulations. 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

## CNDDB SENSITIVE PLANT AND WILDLIFE SPECIES WITHIN THE SURROUNDING CALIF. 71/2' QUADS.

#### Surrounding 9-Quad List: Hopland Oaks Quadrangle

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
ASTI	Dicamptodon ensatus	California giant salamander	None	None	SSC	-
ASTI	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
ASTI	Taricha rivularis	red-bellied newt	None	None	SSC	-
ASTI	Ardea herodias	great blue heron	None	None	-	-
ASTI	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
ASTI	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
ASTI	Entosphenus tridentatus	Pacific lamprey	None	None	SSC	-
ASTI	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
ASTI	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
ASTI	Bombus caliginosus	obscure bumble bee	None	None	-	-
ASTI	Erethizon dorsatum	North American porcupine	None	None	-	-
ASTI	Antrozous pallidus	pallid bat	None	None	SSC	-
ASTI	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
ASTI	Lasiurus blossevillii	western red bat	None	None	SSC	-
ASTI	Myotis yumanensis	Yuma myotis	None	None	-	-
ASTI	Emys marmorata	western pond turtle	None	None	SSC	-
ASTI	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
ASTI	Cypripedium montanum	mountain lady's-slipper	None	None	-	4.2
BIG FOOT MTN.	Dicamptodon ensatus	California giant salamander	None	None	SSC	-
BIG FOOT MTN.	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
BIG FOOT MTN.	Taricha rivularis	red-bellied newt	None	None	SSC	-
BIG FOOT MTN.	Strix occidentalis caurina	Northern Spotted Owl	Threat	Threat	-	-
BIG FOOT MTN.	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
BIG FOOT MTN.	Oncorhynchus mykiss irideus pop. 16	steelhead - northern California DPS	Threat	None	-	-
BIG FOOT MTN.	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
BIG FOOT MTN.	Arborimus pomo	Sonoma tree vole	None	None	SSC	-
BIG FOOT MTN.	Lasiurus cinereus	hoary bat	None	None	-	-
BIG FOOT MTN.	Myotis yumanensis	Yuma myotis	None	None	-	-
BIG FOOT MTN.	Emys marmorata	western pond turtle	None	None	SSC	-
BIG FOOT MTN.	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
BIG FOOT MTN.	Arctostaphylos hispidula	Howell's manzanita	None	None	-	4.2
BIG FOOT MTN.	Lupinus sericatus	Cobb Mountain lupine	None	None	-	1B.2
BIG FOOT MTN.	Trifolium buckwestiorum	Santa Cruz clover	None	None	-	1B.1
BIG FOOT MTN.	Piperia candida	white-flowered rein orchid	None	None	-	1B.2
CLOVERDALE	Dicamptodon ensatus	California giant salamander	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
CLOVERDALE	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
CLOVERDALE	Taricha rivularis	red-bellied newt	None	None	SSC	-
CLOVERDALE	Aquila chrysaetos	golden eagle	None	None	FP ; WI	L -
CLOVERDALE	Haliaeetus leucocephalus	bald eagle	Delisted	End	FP	-
CLOVERDALE	Nycticorax nycticorax	black-crowned night heron	None	None	-	-
CLOVERDALE	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
CLOVERDALE	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
CLOVERDALE	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
CLOVERDALE	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
CLOVERDALE	Bombus caliginosus	obscure bumble bee	None	None	-	-
CLOVERDALE	Erethizon dorsatum	North American porcupine	None	None	-	-
CLOVERDALE	Antrozous pallidus	pallid bat	None	None	SSC	-
CLOVERDALE	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
CLOVERDALE	Emys marmorata	western pond turtle	None	None	SSC	-
CLOVERDALE	Allium peninsulare var. franciscanum	Franciscan onion	None	None	-	1B.2
CLOVERDALE	Hemizonia congesta ssp. congesta	congested-headed hayfield tarplant	None	None	-	1B.2
CLOVERDALE	Layia septentrionalis	Colusa layia	None	None	-	1B.2
CLOVERDALE	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
CLOVERDALE	Streptanthus barbiger	bearded jewelflower	None	None	-	4.2
CLOVERDALE	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
CLOVERDALE	Arctostaphylos hispidula	Howell's manzanita	None	None	-	4.2
CLOVERDALE	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
CLOVERDALE	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
CLOVERDALE	Iris longipetala	coast iris	None	None	-	4.2
CLOVERDALE	Erythronium helenae	St. Helena fawn lily	None	None	-	4.2
CLOVERDALE	Cypripedium montanum	mountain lady's-slipper	None	None	-	4.2
CLOVERDALE	Calamagrostis ophitidis	serpentine reed grass	None	None	-	4.3
CLOVERDALE	Ceanothus confusus	Rincon Ridge ceanothus	None	None	-	1B.1
ELLEDGE PEAK	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
ELLEDGE PEAK	Taricha rivularis	red-bellied newt	None	None	SSC	-
ELLEDGE PEAK	Icteria virens	yellow-breasted chat	None	None	SSC	-
ELLEDGE PEAK	Baeolophus inornatus	oak titmouse	None	None	-	-
ELLEDGE PEAK	Setophaga petechia	yellow warbler	None	None	SSC	-
ELLEDGE PEAK	Melanerpes lewis	Lewis' woodpecker	None	None	-	-
ELLEDGE PEAK	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
ELLEDGE PEAK	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
ELLEDGE PEAK	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
ELLEDGE PEAK	Erethizon dorsatum	North American porcupine	None	None	-	-
ELLEDGE PEAK	Emys marmorata	western pond turtle	None	None	SSC	-
ELLEDGE PEAK	Grimmia torenii	Toren's grimmia	None	None	-	1B.3
ELLEDGE PEAK	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
ELLEDGE PEAK	Malacothamnus mendocinensis	Mendocino bush-mallow	None	None	-	1A
ELLEDGE PEAK	Cypripedium californicum	California lady's-slipper	None	None	-	4.2
ELLEDGE PEAK	Cypripedium montanum	mountain lady's-slipper	None	None	-	4.2
ELLEDGE PEAK	Pleuropogon hooverianus	North Coast semaphore grass	None	Threat	-	1B.1
ELLEDGE PEAK	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
HIGHLAND SPR	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
highland spr	Taricha rivularis	red-bellied newt	None	None	SSC	-
HIGHLAND SPR	Aquila chrysaetos	golden eagle	None	None	FP;W	L -
HIGHLAND SPR	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
HIGHLAND SPR	Artemisiospiza belli belli	Bell's sage sparrow	None	None	WL	-
HIGHLAND SPR	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
HIGHLAND SPR	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
HIGHLAND SPR	Emys marmorata	western pond turtle	None	None	SSC	-
HIGHLAND SPR	Calycadenia micrantha	small-flowered calycadenia	None	None	-	1B.2
HIGHLAND SPR	Layia septentrionalis	Colusa layia	None	None	-	1B.2
HIGHLAND SPR	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
HIGHLAND SPR	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
HIGHLAND SPR	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
HIGHLAND SPR	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
HIGHLAND SPR	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
HIGHLAND SPR	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
HIGHLAND SPR	Trichostema ruygtii	Napa bluecurls	None	None	-	1B.2
HIGHLAND SPR	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
HIGHLAND SPR	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
HIGHLAND SPR	Calyptridium quadripetalum	four-petaled pussypaws	None	None	-	4.3
HIGHLAND SPR	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
HIGHLAND SPR	Antirrhinum subcordatum	dimorphic snapdragon	None	None	-	4.3
HIGHLAND SPR	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
HIGHLAND SPR	Horkelia bolanderi	Bolander's horkelia	None	None	-	1B.2
HOPLAND	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
HOPLAND	, Taricha rivularis	red-bellied newt	None	None	SSC	-
HOPLAND	Aquila chrysaetos	golden eagle	None	None	FP;W	L -
HOPLAND	Ardea herodias	great blue heron	None	None	-	_

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
HOPLAND	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
HOPLAND	Ammodramus savannarum	grasshopper sparrow	None	None	SSC	-
HOPLAND	Asio otus	long-eared owl	None	None	SSC	-
HOPLAND	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
HOPLAND	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
HOPLAND	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
HOPLAND	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	Threat	None	-	-
HOPLAND	Bombus caliginosus	obscure bumble bee	None	None	-	-
HOPLAND	Erethizon dorsatum	North American porcupine	None	None	-	-
HOPLAND	Antrozous pallidus	pallid bat	None	None	SSC	-
HOPLAND	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
HOPLAND	Emys marmorata	western pond turtle	None	None	SSC	-
HOPLAND	Bryum chryseum	brassy bryum	None	None	-	4.3
HOPLAND	Entosthodon kochii	Koch's cord moss	None	None	-	1B.3
HOPLAND	Layia septentrionalis	Colusa layia	None	None	-	1B.2
HOPLAND	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
HOPLAND	Streptanthus glandulosus ssp. hoffmanii	Hoffman's bristly jewelflower	None	None	-	1B.3
HOPLAND	Viburnum ellipticum	oval-leaved viburnum	None	None	-	2B.3
HOPLAND	Calystegia collina ssp. oxyphylla	Mt. Saint Helena morning-glory	None	None	-	4.2
HOPLAND	Carex comosa	bristly sedge	None	None	-	2B.1
HOPLAND	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
HOPLAND	Iris longipetala	coast iris	None	None	-	4.2
HOPLAND	Epilobium septentrionale	Humboldt County fuchsia	None	None	-	4.3
HOPLAND	Kopsiopsis hookeri	small groundcone	None	None	-	2B.3
HOPLAND	Erythranthe nudata	bare monkeyflower	None	None	-	4.3
HOPLAND	Collomia diversifolia	serpentine collomia	None	None	-	4.3
HOPLAND	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
LAKEPORT	Elanus leucurus	white-tailed kite	None	None	FP	-
LAKEPORT	Haliaeetus leucocephalus	bald eagle	Delisted	End	FP	-
LAKEPORT	Ardea alba	great egret	None	None	-	-
LAKEPORT	Ardea herodias	great blue heron	None	None	-	-
LAKEPORT	Egretta thula	snowy egret	None	None	-	-
LAKEPORT	Nycticorax nycticorax	black-crowned night heron	None	None	-	-
LAKEPORT	Agelaius tricolor	tricolored blackbird	None	Threat	SSC	-
LAKEPORT	Pandion haliaetus	osprey	None	None	WL	-
LAKEPORT	Phalacrocorax auritus	double-crested cormorant	None	None	WL	-
LAKEPORT	Archoplites interruptus	Sacramento perch	None	None	SSC	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
LAKEPORT	Lavinia exilicauda chi	Clear Lake hitch	None	Threat	-	-
LAKEPORT	Lavinia symmetricus ssp. 4	Clear Lake - Russian River roach	None	None	SSC	-
LAKEPORT	Hysterocarpus traskii lagunae	Clear Lake tule perch	None	None	SSC	-
LAKEPORT	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	None	None	-	-
LAKEPORT	Bombus occidentalis	western bumble bee	None	Cand End	-	-
LAKEPORT	Dubiraphia brunnescens	brownish dubiraphian riffle beetle	None	None	-	-
LAKEPORT	Pekania pennanti	fisher - West Coast DPS	None	Threat	SSC	-
LAKEPORT	Taxidea taxus	American badger	None	None	SSC	-
LAKEPORT	Emys marmorata	western pond turtle	None	None	SSC	-
LAKEPORT	Coastal and Valley Freshwater Marsh	Coastal and Valley Freshwater Marsh	None	None	-	-
LAKEPORT	Layia septentrionalis	Colusa layia	None	None	-	1B.2
LAKEPORT	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
LAKEPORT	Amsinckia lunaris	bent-flowered fiddleneck	None	None	-	1B.2
LAKEPORT	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
LAKEPORT	Plagiobothrys lithocaryus	Mayacamas popcornflower	None	None	-	1A
LAKEPORT	Brasenia schreberi	watershield	None	None	-	2B.3
LAKEPORT	Arctostaphylos manzanita ssp. elegans	Konocti manzanita	None	None	-	1B.3
LAKEPORT	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
LAKEPORT	Fritillaria purdyi	Purdy's fritillary	None	None	-	4.3
LAKEPORT	Hesperolinon adenophyllum	glandular western flax	None	None	-	1B.2
LAKEPORT	Clarkia gracilis ssp. tracyi	Tracy's clarkia	None	None	-	4.2
LAKEPORT	Erythranthe nudata	bare monkeyflower	None	None	-	4.3
LAKEPORT	Antirrhinum virga	twig-like snapdragon	None	None	-	4.3
LAKEPORT	Leptosiphon acicularis	bristly leptosiphon	None	None	-	4.2
LAKEPORT	Leptosiphon latisectus	broad-lobed leptosiphon	None	None	-	4.3
LAKEPORT	Ranunculus lobbii	Lobb's aquatic buttercup	None	None	-	4.2
PURDYS GARDENS	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
PURDYS GARDENS	Aquila chrysaetos	golden eagle	None	None	FP;W	L -
PURDYS GARDENS	Circus hudsonius	northern harrier	None	None	SSC	-
PURDYS GARDENS	Pandion haliaetus	osprey	None	None	WL	-
PURDYS GARDENS	Baeolophus inornatus	oak titmouse	None	None	-	-
PURDYS GARDENS	Ammodramus savannarum	grasshopper sparrow	None	None	SSC	-
PURDYS GARDENS	Hysterocarpus traskii pomo	Russian River tule perch	None	None	SSC	-
PURDYS GARDENS	·	steelhead - central California coast DPS	Threat	None	-	-
PURDYS GARDENS		chinook salmon - California coastal ESU	Threat	None	-	-
PURDYS GARDENS		obscure bumble bee	None	None	-	-
PURDYS GARDENS	Erethizon dorsatum	North American porcupine	None	None	-	-

QUAD NAME	SCIENTIFIC NAME	COMMON NAME	FEDERAL	CALIF	CDFW	CNPS
PURDYS GARDENS	Pekania pennanti	fisher - West Coast DPS	None	Threat	SSC	-
<b>PURDYS GARDENS</b>	Antrozous pallidus	pallid bat	None	None	SSC	-
<b>PURDYS GARDENS</b>	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
<b>PURDYS GARDENS</b>	Myotis lucifugus	little brown bat	None	None	-	-
<b>PURDYS GARDENS</b>	Myotis yumanensis	Yuma myotis	None	None	-	-
<b>PURDYS GARDENS</b>	Emys marmorata	western pond turtle	None	None	SSC	-
<b>PURDYS GARDENS</b>	Northern Interior Cypress Forest	Northern Interior Cypress Forest	None	None	-	-
<b>PURDYS GARDENS</b>	Serpentine Bunchgrass	Serpentine Bunchgrass	None	None	-	-
<b>PURDYS GARDENS</b>	Entosthodon kochii	Koch's cord moss	None	None	-	1B.3
PURDYS GARDENS	Perideridia gairdneri ssp. gairdneri	California Gairdner's yampah	None	None	-	4.2
<b>PURDYS GARDENS</b>	Layia septentrionalis	Colusa layia	None	None	-	1B.2
PURDYS GARDENS	Tracyina rostrata	beaked tracyina	None	None	-	1B.2
PURDYS GARDENS	Viburnum ellipticum	oval-leaved viburnum	None	None	-	2B.3
PURDYS GARDENS	•	Raiche's manzanita	None	None	-	1B.1
PURDYS GARDENS	Monardella viridis	green monardella	None	None	-	4.3
PURDYS GARDENS	Lilium rubescens	redwood lily	None	None	-	4.2
PURDYS GARDENS	Kopsiopsis hookeri	small groundcone	None	None	-	2B.3
<b>PURDYS GARDENS</b>	Gratiola heterosepala	Boggs Lake hedge-hyssop	None	End	-	1B.2
<b>PURDYS GARDENS</b>		bristly leptosiphon	None	None	-	4.2
<b>PURDYS GARDENS</b>	Ranunculus Iobbii	Lobb's aquatic buttercup	None	None	-	4.2
<b>PURDYS GARDENS</b>	Ceanothus confusus	Rincon Ridge ceanothus	None	None	-	1B.1
PURDYS GARDENS	Horkelia bolanderi	Bolander's horkelia	None	None	-	1B.2
YORKVILLE	Rana boylii	foothill yellow-legged frog	None	Cand Threat	SSC	-
YORKVILLE	Ardea herodias	great blue heron	None	None	-	-
YORKVILLE	Oncorhynchus mykiss irideus pop. 8	steelhead - central California coast DPS	Threat	None	-	-
YORKVILLE	Corynorhinus townsendii	Townsend's big-eared bat	None	None	SSC	-
YORKVILLE	Lasiurus cinereus	hoary bat	None	None	-	-
YORKVILLE	Usnea longissima	Methuselah's beard lichen	None	None	-	4.2
YORKVILLE	Harmonia guggolziorum	Guggolz's harmonia	None	None	-	1B.1
YORKVILLE	Cryptantha dissita	serpentine cryptantha	None	None	-	1B.2
YORKVILLE	Streptanthus glandulosus ssp. hoffmanii	Hoffman's bristly jewelflower	None	None	-	1B.3
YORKVILLE	Arctostaphylos stanfordiana ssp. raichei	Raiche's manzanita	None	None	-	1B.1
YORKVILLE	Astragalus breweri	Brewer's milk-vetch	None	None	-	4.2
YORKVILLE	Lilium rubescens	redwood lily	None	None	-	4.2
YORKVILLE	Leptosiphon rattanii	Rattan's leptosiphon	None	None	-	4.3
YORKVILLE	Ceanothus confusus	Rincon Ridge ceanothus	None	None	-	B.1

#### 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
- 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 WHR 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**

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
B052	GREAT EGRET			CD	NATIVE
B116	COOPER'S HAWK				NATIVE
B119	RED-SHOULDERED HAWK				NATIVE
B121	SWAINSON'S HAWK	СТ		BL FS	NATIVE
B124	FERRUGINOUS HAWK				NATIVE
B125	ROUGH-LEGGED HAWK				NATIVE
B127	AMERICAN KESTREL				NATIVE
B128	MERLIN				NATIVE
B141	MOUNTAIN QUAIL			НА	NATIVE
B251	BAND-TAILED PIGEON			НА	NATIVE
B255	MOURNING DOVE			НА	NATIVE
B260	GREATER ROADRUNNER				NATIVE
B264	WESTERN SCREECH OWL				NATIVE
B265	GREAT HORNED OWL				NATIVE
B269	BURROWING OWL		SC	BL	NATIVE
B270	SPOTTED OWL	FT	SC	BL FS CD	NATIVE
B272	LONG-EARED OWL		SC		NATIVE
B277	COMMON POORWILL				NATIVE
B287	ANNA'S HUMMINGBIRD				NATIVE
B289	CALLIOPE HUMMINGBIRD				NATIVE
B291	RUFOUS HUMMINGBIRD				NATIVE
B294	LEWIS' S WOODPECKER				NATIVE
B302	NUTTALL'S WOODPECKER				NATIVE
B317	HAMMOND'S FLYCATCHER				NATIVE
B318	DUSKY FLYCATCHER				NATIVE
B320	PACIFIC-SLOPE FLYCATCHER				NATIVE

ID	SPECIES NAME	STATUS	NATIVE/INTRODUCED
B321	BLACK PHOEBE		NATIVE
B326	ASH-THROATED FLYCATCHER		NATIVE
B337	HORNED LARK		NATIVE
B348	WESTERN SCRUB-JAY		NATIVE
B353	AMERICAN CROW	НА	NATIVE
B360	BUSHTIT		NATIVE
B368	BEWICK'S WREN	SC	NATIVE
B369	HOUSE WREN		NATIVE
B377	BLUE-GRAY GNATCATCHER		NATIVE
B381	MOUNTAIN BLUEBIRD		NATIVE
B386	HERMIT THRUSH		NATIVE
B391	WRENTIT		NATIVE
B393	NORTHERN MOCKINGBIRD		NATIVE
B398	CALIFORNIA THRASHER		
B407	CEDAR WAXWING		
B410	LOGGERHEAD SHRIKE	FE SC	
B417	HUTTON'S VIREO	SC	
B418	WARBLING VIREO		
B425	ORANGE-CROWNED WARBLER		
B426	NASHVILLE WARBLER		
B430	YELLOW WARBLER	SC	
B436	BLACK-THROATED GRAY WARBLER		
B437	TOWNSEND'S WARBLER		
B460	MACGILLIVRAY'S WARBLER		
B463	WILSON'S WARBLER		
B475	BLACK-HEADED GROSBEAK		
B477	LAZULI BUNTING		
B489	CHIPPING SPARROW		
B495	LARK SPARROW		
B497	BELL'S SPARROW	FT SC	
B499	SAVANNAH SPARROW	CE SC	
B501	GRASSHOPPER SPARROW	SC	
B506	LINCOLN'S SPARROW		
B509	GOLDEN-CROWNED SPARROW		

ID	SPECIES NAME		STATUS	NATIVE/INTRODUCED
B510	WHITE-CROWNED SPARROW			
B521	WESTERN MEADOWLARK			
B532	BULLOCK'S ORIOLE			
B538	HOUSE FINCH			
B543	LESSER GOLDFINCH			
B544	LAWRENCE'S GOLDFINCH			
B545	AMERICAN GOLDFINCH			
B699	BARRED OWL			
B702	CHIMNEY SWIFT			
B798	WHITE-THROATED SPARROW			
B799	HARRIS'S SPARROW			
B809	INDIGO BUNTING			
M003	VAGRANT SHREW			SC
M006	ORNATE SHREW	FE		SC
M025	LONG-EARED MYOTIS			BL
M030	SILVER-HAIRED BAT			
M032	BIG BROWN BAT			
M033	WESTERN RED BAT			SC FS
M034	HOARY BAT			
M037	TOWNSEND'S BIG-EARED BAT			SC BL FS
M045	BRUSH RABBIT	FE	CE	
M055	YELLOW-PINE CHIPMUNK			
M056	REDWOOD CHIPMUNK			
M057	SHADOW CHIPMUNK			
M059	SONOMA CHIPMUNK			
M075	GOLDEN-MANTLED GROUND SQUIRREL			
M080	NORTHERN FLYING SQUIRREL		SC	FS
M105	CALIFORNIA KANGAROO RAT		SC	
M113	WESTERN HARVEST MOUSE			
M117	DEER MOUSE		SC	
M119	BRUSH MOUSE			
M120	PINYON MOUSE			
M134	CALIFORNIA VOLE	FE	CE	SC
M136	LONG-TAILED VOLE			

ID	SPECIES NAME	STATUS	NATIVE/INTRODUCED
M146	СОУОТЕ		
M149	GRAY FOX		
M151	BLACK BEAR		
M181	MULE DEER		

Total Number of Species: 98

## **Query Parameters**

#### **Included Locations**

Mendocino Co

#### **Included Location Seasons**

Migrant, Summer, Winter, Yearlong

### **Included Habitats & (Stages)**

Annual Grassland, Blue Oak Woodland, Chamise-redshank Chaparral, Montane Hardwood

#### **Habitat Suitability Threshold**

Reproduction - Low, Cover - Low, Feeding - Low

#### **Included Habitat Seasons**

Migrant, Summer, Winter, Yearlong

#### **Excluded Elements**

Algae, Aquatics - Emergent, Aquatics - Submerged, Bank, Barren, Cave, Cliff, Cones, Duff, Fish, Grass/agriculture,

Invertebrates - Aquatic, Kelp, Lithic, Log - Large (hollow), Log - Large (rotten), Log - Large (sound), Rock, Sand Dune.

Shrub/agriculture, Slash - Large (hollow), Slash - Large (rotten), Slash - Large (sound), Snag - Large (rotten), Snag - Large (sound), Soil - Aerated, Soil - Friable, Soil - Gravelly, Soil - Organic, Soil - Saline, Soil - Sandy, Steep Slope, Talus,

Tree/agriculture, Trees - Fir, Trees - Pine, Water/agriculture

#### Included Species All Species Included

Included Special Statuses Native

# APPENDIX C

# **AQUATIC RESOURCES/DELINEATION REPORT**

#### **DELINEATION OF WATERS OF THE U.S.**

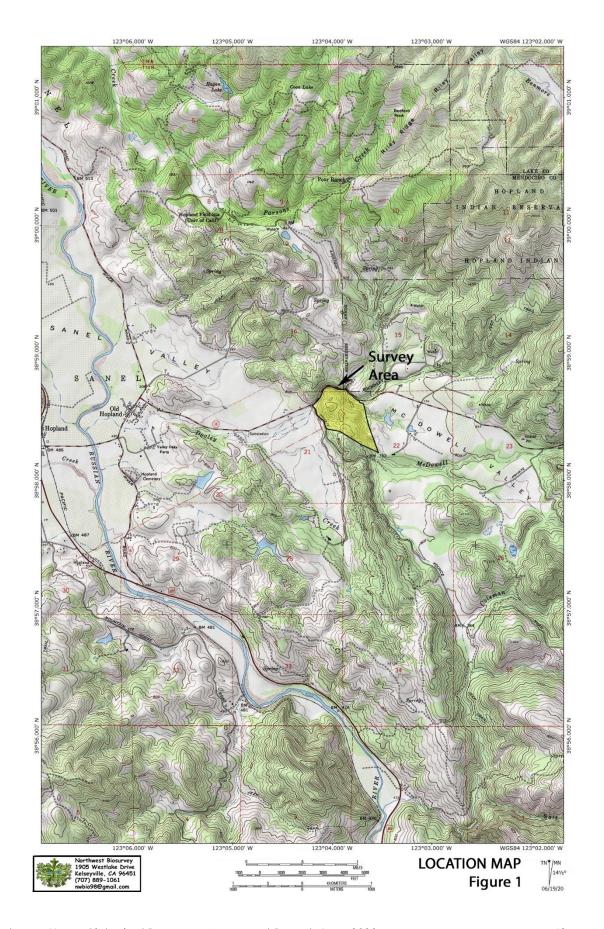
# 1.0 <u>Methodology</u>

- **1.1** <u>Purpose of Delineation:</u> This delineation has been conducted at the request of the local permitting agency in order to determine the extent of possible waters of the U.S. on the project.
- 1.2 <u>Delineation Procedure</u>: This delineation has been conducted as prescribed in the Corps of Engineers Wetlands Delineation Manual, January 1987, and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region, 2008. Plant taxonomy and nomenclature is from the Jepson Manual, Higher Plants of California, 2012. Other texts, such as Munz's A California Flora and Supplement 1973, and Mason's Flora of the Marshes of California, 1957, were used as supplemental texts; however, all nomenclature and wetland indicator status have been checked with the U.S. Army Corps of Engineers. 2016. National Wetland Plant Lists: Arid West and California.

The survey included use of Google satellite images, 7.5' USGS quadrangle maps, and LIDAR mapped overlays along with an extensive foot survey.

- **1.3** <u>Delineation Date</u>: Delineation fieldwork was completed on March 31, 2020.
- 1.4 <u>Delineation Staff</u>: The delineation was 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 more than 35 years of experience as a biologist in the government and private sectors. He completed his wetland delineation training under Terry Huffman of Huffman & Associates, Inc.

Fieldwork and mapping were also conducted by Leigh Zalusky. Leigh Zalusky has a Bachelor of Science Degree in Engineering from the University of California, Davis. Leigh also received formal delineation training under Terry Huffman of Huffman & Associates, Inc.



## 2.0 Existing Conditions

- **2.1** <u>Location</u>: The project site is located on Highway 175, east of Hopland in Mendocino County, California (APNs 048-270-22 (ptn.), 048-270-23 & 24; T13N R11W, Hopland, Calif. 7½ Topographic Map). A location map is provided in **Figure 1**.
- **2.2** Topography and Drainage: The Getaway House property straddles a narrow spur-ridge extending southward from the western base of the Mayacamas Mountains between the Sanel and McDowell Valleys. Elevations on the property range from ~840 feet msl (mean sea level) along the ridgetop to ~640 feet msl along the valley floors. The terrain is relatively steep and is cut by a number of narrow drainages.

Drainage from the eastern side of the property drains to McDowell Creek, which flows north along the eastern base of the ridge and then turns west along the northern edge of the property before entering Sanel Valley; it eventually joins Dooley Creek to continue west across the valley floor to the Russian River. Flows from the western side of the property are collected in a north-flowing channel extending along the base of the slope. This channel joins Dooley Creek at the northwestern edge of the property.

**2.3 Soils:** The survey area contains a single soil type:

## Hopland-Woodin complex, 50-75% slopes:

These well-drained soils occur on hills and mountains. This unit includes about 40% Hopland and similar soils and 30% Woodin and similar soils. Parent material is residuum from sandstone and shale. Surface runoff is high to very high.

## 3.0 Aquatic Resources Results

**3.1** Waters of the U.S: The results of the delineation are shown on the aerial photo base map provided in **Appendix C**, **Figure W-2**. Waters of the U.S. within the property consist of intermittent and ephemeral streams.

The total area of all delineated aquatic resources is **3.277 acres**. The delineation results are shown in **Table 1**.

TABLE 1. POSSIBLE AQUATIC RESOURCES WITHIN THE SURVEY AREA

ISI	R4 R6	- - - - - - - - - - - - -	RPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW N	38.517624° 38.517624° 38.975639° 38.974602° 38.974665° 38.975170° 38.974698° 38.974241° 38.973730° 38.977615° 38.976838° 38.976642° 38.976504°	-122.449268° -123.069138° -123.068700° -123.067559° -123.066634° -123.066580° -123.066109° -123.066914° -123.065182° -123.064774° -123.064770° -123.064889° -123.064080°	4727 383 314 476 116 402 153 394 951 531 263 192 444	25.6 1.5 2.6 3.1 2.8 2.0 2.6 2.5 3.0 3.4 1.8 1.1 4.5	2.7780 0.0132 0.0187 0.0339 0.0075 0.0185 0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED1 ED2 ED3 ED4 ED5 ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED19 ED20	R6 R		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.975639° 38.974887° 38.974602° 38.974665° 38.975170° 38.974698° 38.9774241° 38.9777894° 38.977615° 38.976642°	-123.069138° -123.068700° -123.067559° -123.066634° -123.066234° -123.066109° -123.066914° -123.064770° -123.064889°	383 314 476 116 402 153 394 951 531 263 192 444	1.5 2.6 3.1 2.8 2.0 2.6 2.5 3.0 3.4 1.8	0.0132 0.0187 0.0339 0.0075 0.0185 0.0091 0.0226 0.0655 0.0414 0.0109
ED2 ED3 ED4 ED5 ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED19 ED20	R6 R		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.974887° 38.974602° 38.974665° 38.975170° 38.974698° 38.974241° 38.973730° 38.977894° 38.977615° 38.976638° 38.976642°	-123.068700° -123.067559° -123.066634° -123.066580° -123.066109° -123.066914° -123.065182° -123.064770° -123.064889°	314 476 116 402 153 394 951 531 263 192 444	2.6 3.1 2.8 2.0 2.6 2.5 3.0 3.4 1.8	0.0187 0.0339 0.0075 0.0185 0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED3 ED4 ED5 ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.974602° 38.974665° 38.975170° 38.974698° 38.974241° 38.973730° 38.977894° 38.977615° 38.976638° 38.976642°	-123.067559° -123.066634° -123.066580° -123.066109° -123.066914° -123.065182° -123.064770° -123.064889°	476 116 402 153 394 951 531 263 192 444	3.1 2.8 2.0 2.6 2.5 3.0 3.4 1.8	0.0339 0.0075 0.0185 0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED4 ED5 ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.974665° 38.975170° 38.974698° 38.974241° 38.973730° 38.977894° 38.977615° 38.976838° 38.976642°	-123.066634° -123.066580° -123.066234° -123.066109° -123.066914° -123.065182° -123.064774° -123.064770° -123.064889°	116 402 153 394 951 531 263 192 444	2.8 2.0 2.6 2.5 3.0 3.4 1.8	0.0075 0.0185 0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED5 ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.975170° 38.974698° 38.974241° 38.973730° 38.977894° 38.977615° 38.976838° 38.976642°	-123.066580° -123.066234° -123.066109° -123.065182° -123.064774° -123.064770° -123.064889°	402 153 394 951 531 263 192 444	2.0 2.6 2.5 3.0 3.4 1.8	0.0185 0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED6 ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6		NRPW NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.974698° 38.974241° 38.973730° 38.977894° 38.977615° 38.976638° 38.976642°	-123.066234° -123.066109° -123.066914° -123.065182° -123.064774° -123.064770° -123.064889°	153 394 951 531 263 192 444	2.6 2.5 3.0 3.4 1.8	0.0091 0.0226 0.0655 0.0414 0.0109 0.0048
ED7 ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6 R6 R6 R6 R6 R6 R6		NRPW NRPW NRPW NRPW NRPW NRPW NRPW	38.974241° 38.973730° 38.977894° 38.977615° 38.976838° 38.976642°	-123.066109° -123.066914° -123.065182° -123.064774° -123.064770° -123.064889°	394 951 531 263 192 444	2.5 3.0 3.4 1.8 1.1	0.0226 0.0655 0.0414 0.0109 0.0048
ED8 ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6 R6 R6 R6 R6	- - - - - -	NRPW NRPW NRPW NRPW NRPW NRPW	38.973730° 38.977894° 38.977615° 38.976838° 38.976642°	-123.066914° -123.065182° -123.064774° -123.064770° -123.064889°	951 531 263 192 444	3.0 3.4 1.8 1.1	0.0655 0.0414 0.0109 0.0048
ED9 ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6 R6 R6 R6		NRPW NRPW NRPW NRPW NRPW	38.977894° 38.977615° 38.976838° 38.976642°	-123.065182° -123.064774° -123.064770° -123.064889°	531 263 192 444	3.4 1.8 1.1	0.0414 0.0109 0.0048
ED10 ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6 R6 R6	- - - -	NRPW NRPW NRPW NRPW	38.977615° 38.976838° 38.976642°	-123.064774° -123.064770° -123.064889°	263 192 444	1.8	0.0109 0.0048
ED11 ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6 R6	- - - -	NRPW NRPW NRPW	38.976838° 38.976642°	-123.064770° -123.064889°	192 444	1.1	0.0048
ED12 ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6 R6	- - -	NRPW NRPW	38.976642°	-123.064889°	444		
ED13 ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6 R6	-	NRPW				4.5	0.0459
ED14 ED15 ED16 ED17 ED18 ED19 ED20	R6	-		38.976504°	-123 UE4U6U <sub>0</sub>	204		0.0733
ED15 ED16 ED17 ED18 ED19 ED20	-	-	NIR P\X/		-123.004000	304	1.4	0.0098
ED16 ED17 ED18 ED19 ED20	R6		14121 00	38.974610°	-123.062825°	754	1.5	0.0260
ED17 ED18 ED19 ED20		-	NRPW	38.975671°	-123.061152°	185	2.0	0.0085
ED18 ED19 ED20	R6	-	NRPW	38.975202°	-123.061062°	288	2.3	0.0152
ED19 ED20	R6	-	NRPW	38.972462°	-123.062834°	91	2.0	0.0042
ED20	R6	-	NRPW	38.972329°	-123.061921°	270	3.3	0.0205
	R6	-	NRPW	38.972259°	-123.062671°	75	1.7	0.0029
ED21	R6	-	NRPW	38.973315°	-123.060887°	260	1.5	0.0090
	R6	-	NRPW	38.972962°	-123.062013°	352	2.3	0.0186
ED22	R6	-	NRPW	38.972435°	-123.062598°	175	2.0	0.0080
ED23	R6	-	NRPW	38.972214°	-123.062683°	135	1.4	0.0043
ED24	R6	-	NRPW	38.972317°	-123.061962°	355	2.7	0.0220
ED25	R6	-	NRPW	38.972345°	-123.060863°	56	2.0	0.0026
ED26	R6	-	NRPW	38.972288°	-123.060704°	47	1.5	0.0016
ED27	R6	-	NRPW	38.972294°	-123.060590°	85	1.7	0.0033
ED28	R6	-	NRPW	38.971417°	-123.060992°	543	2.3	0.0287
ED29	R6	-	NRPW	38.972162°	-123.059804°	185	1.8	0.0076
ED30	R6	-	NRPW	38.970602°	-123.059489°	53	3.1	0.0038
ED31	R6	-	NRPW	38.970845°	-123.059174°	124	3.6	0.0102
Total Stream Segments:						3.2768		
Total Possible			nin Survev A	Area				3.2768

# 4.0 RECOMMENDATIONS

Any work proposed within the possible waters of the U.S. will require permits from the following:

- U.S. Army Corps of Engineers (Nationwide Permit)
- Regional Water Quality Control Board (Water Quality Certification 401 permit)
- California Department of Fish and Wildlife (1602 Stream Alteration Agreement)

