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Initial Biological Assessment:

**MeeMeeMine LLC Parcel Subdivision
280 Table Bluff Road - Loleta, CA**

Humboldt County

APN: 308-271-001

**Prepared by
Hohman and Associates
July 8, 2024**

Setting

This document assesses habitats and potentially occurring special-status animals and plants; and identifies potential impacts of operation-related activities on biological resources for the proposed MeeMeeMine LLC Table Bluff Subdivision. The proposed subdivision would divide the property into two separate parcels; the parcel being assessed lies in the eastern half of the property and contains a mowed non-native field, Sitka spruce forest, and an existing leach field. The entire property has evidence of current and historical grazing. This assessment assumes that all potential impacts from the development will be limited to the proposed development site and areas immediately surrounding it.

The proposed Subdivision is approximately 7.5 acres located on the MeeMeeMine LLC property at 280 Table Bluff Rd. in Loleta, CA. The MeeMeeMine LLC property is located in Section 8, Township 3 North, Range 1 West; HB&M, approximately 1 mile north of the community of Loleta, CA in Humboldt County on the Fields Landing USGS 7.5' Quad. The property lies within the California Floristic Province, Northwestern California region, and North Coast sub-region. No watercourses exist in the project area, and no fish-bearing streams exist in the parcel. Elevation ranges from approximately 200 feet to 300 feet, with gentle to moderate slopes. The aspect is primarily east-facing. The project area is composed entirely of a non-native grassland, which is mowed frequently by the landowner. The remaining area of the parcel contains Sitka spruce forest (S2) and scattered coastal riparian scrub that could be loosely described as the Salmonberry-wax myrtle shrubland alliance (S3), however, these sensitive natural communities are a minimum of 200' from the project area.

Methods

Hohman and Associates conducted a field review in June of 2024 of the project footprint and surrounding habitat in the parcel. This included looking for signs of listed species and available habitat.

This Biological Scoping report considers the potentially occurring species and communities that could be affected by project activities in the proposed footprint based on available spatial data and habitat requirements. Focused site visits may be necessary to further evaluate potential habitat value to special-status species and finalize survey recommendations for proposed project activity. A list of special-status species was downloaded from CNDDDB BIOS for the Fields Landing 9-quad area. Species on the CNDDDB list were primarily included based on State or Federal listing status or CDFW designation. Native pollinators found in the area were also included based on State rarity and their potential to be impacted by project activities. The U.S. Fish and Wildlife Service IPac was queried and generated a scoping list to consider. Additional species were added to the special-status list for consideration based on potential habitat or high levels of conservation concern. Habitats within the 0.7-mile Biological Assessment Area (BAA) for potentially occurring species were evaluated based on CALVEG vegetation mapping and aerial photos.

Summary of Findings

The project area lies within a mowed field of non-native grassland surrounded by large, non-native conifers. No evidence of listed plant species was observed in and around the project area, so no botanical survey is recommended. The area does not provide the high canopy-closure forest habitat that could support northern spotted owls, and no occurrences of NSO have been recorded within 2-3 miles of the project area. Significant vegetation clearing operations may impact nesting birds; nesting bird surveys are recommended prior to any operations occurring during the breeding season. Although occurrences of special status mammals are possible, it is highly unlikely the species would be present in the project area. The project may avoid indirect impacts to special-status fish, amphibians, and reptiles by remaining within the confines of the proposed project area, which avoids all wetland locations. No surveys are necessary prior to parcel subdivision, only prior to potential future development in the project footprint. If newly discovered special-status species are observed, consultation with CDFW should be conducted and the results of that consultation shall be amended into the project before operations begin again

References

- California Department of Fish and Wildlife. (2024). California Natural Diversity Database (CNDDDB) – Commercial version dated July 1, 2024. Retrieved July 8, 2024
- California Natural Diversity Database (CNDDDB). July 2024. State and Federally Listed Endangered and Threatened Animals of California. California Department of Fish and Wildlife. Sacramento, CA.
- California Natural Diversity Database (CNDDDB). July 2024. Special Animals List. California Department of Fish and Wildlife. Sacramento, CA.
- California Department of Fish and Wildlife. VegCAMP – The Vegetation Classification and Mapping Program, <https://www.wildlife.ca.gov/Data/VegCAMP> California Natural Diversity Database (CNDDDB). July 2024. Special Vascular Plants, Bryophytes, and Lichens List. California Department of Fish and Wildlife. Sacramento, CA.
- California Natural Diversity Database (CNDDDB). July 2024. State and Federally Listed Endangered, Threatened, and Rare Plants of California. California Department of Fish and Wildlife. Sacramento, CA.
- California Native Plant Society, Rare Plant Program. 2024. Rare Plant Inventory (online edition, v9.5). <http://www.rareplants.cnps.org> [accessed July 8, 2024].
- Haggard, P. and Haggard, J., 2006. Insects of the Pacific Northwest. Timber Press.
- IUCN. 2023. The IUCN Red List of Threatened Species. Version 2022-2. <https://www.iucnredlist.org>. Accessed on [July 8, 2024].
- NatureServe. 2024. NatureServe Network Biodiversity Location Data accessed through NatureServe Explorer [web application]. NatureServe, Arlington, Virginia. Available <https://explorer.natureserve.org/>. (Accessed: July 8, 2024).
- Shuford, W. D., and Gardali, T., editors. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game, Sacramento.
<<https://www.wildlife.ca.gov/Conservation/SSC/Birds>>
- Sibley, D.A., 2003. The Sibley field guide to birds of Western North America. Alfred A. Knopf, New York.
- U.S. Fish and Wildlife Service (USFWS ECOS). ECOS Environmental Conservation Online System. <<https://ecos.fws.gov/ecp/>>. Accessed: July 8, 2024.
- Xerces Society for Invertebrate Conservation. Bumble bee conservation. Portland, OR.
<<http://xerces.org/bumblebees/>>.
- Zeiner, D.C., W.F. Laudenslayer, Jr., K.E. Mayer, and M. White, eds. 1988-1990. California's Wildlife. Vol. I-III. California Depart. of Fish and Game, Sacramento, California. Updated by CWHR Program Staff, February 2005. <https://www.wildlife.ca.gov/data/cwhr/life-history-and-range>

Table 1. Birds

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
<i>Accipiter cooperii</i>	Cooper's hawk	None	None	G5	S4	Yes
<i>Accipiter striatus</i>	sharp-shinned hawk	None	None	G5	S4	Yes
<i>Agelaius tricolor</i>	tricolored blackbird	None	Threatened	G1G2	S2	No
<i>Ammodramus savannarum</i>	grasshopper sparrow	None	None	G5	S3	Yes
<i>Ardea alba</i>	great egret	None	None	G5	S4	Yes
<i>Ardea herodias</i>	great blue heron	None	None	G5	S4	Yes
<i>Brachyramphus marmoratus</i>	marbled murrelet	Threatened	Endangered	G3	S2	No
<i>Charadrius montanus</i>	mountain plover	None	None	G3	S2	Yes
<i>Charadrius nivosus nivosus</i>	western snowy plover	Threatened	None	G3T3	S3	No
<i>Circus hudsonius</i>	northern harrier	None	None	G5	S3	Yes
<i>Coccyzus americanus occidentalis</i>	western yellow-billed cuckoo	Threatened	Endangered	G5T2T3	S1	No
<i>Coturnicops noveboracensis</i>	yellow rail	None	None	G4	S2	No
<i>Egretta thula</i>	snowy egret	None	None	G5	S4	Yes
<i>Elanus leucurus</i>	white-tailed kite	None	None	G5	S3S4	Yes
<i>Falco peregrinus anatum</i>	American peregrine falcon	Delisted	Delisted	G4T4	S3S4	No
<i>Haliaeetus leucocephalus</i>	bald eagle	Delisted	Endangered	G5	S3	Unlikely
<i>Nannopterum auritum</i>	double-crested cormorant	None	None	G5	S4	No
<i>Nycticorax nycticorax</i>	black-crowned night heron	None	None	G5	S4	Yes
<i>Pandion haliaetus</i>	osprey	None	None	G5	S4	Unlikely
<i>Rallus obsoletus obsoletus</i>	California Ridgway's rail	Endangered	Endangered	G3T1	S2	No
<i>Riparia riparia</i>	bank swallow	None	Threatened	G5	S3	No

Table 2. Mammals

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
<i>Antrozous pallidus</i>	pallid bat	None	None	G4	S3	No
<i>Aplodontia rufa humboldtiana</i>	Humboldt mountain beaver	None	None	G5TNR	SNR	Yes
<i>Arborimus pomo</i>	Sonoma tree vole	None	None	G3	S3	No
<i>Corynorhinus townsendii</i>	Townsend's big-eared bat	None	None	G4	S2	No
<i>Erethizon dorsatum</i>	North American porcupine	None	None	G5	S3	Yes
<i>Lasiurus cinereus</i>	hoary bat	None	None	G3G4	S4	Yes
<i>Martes caurina humboldtensis</i>	Humboldt marten	Threatened	Endangered	G4G5T1	S1	No
<i>Myotis evotis</i>	long-eared myotis	None	None	G5	S3	Yes
<i>Pekania pennanti</i>	Fisher	None	None	G5	S2S3	Yes

Table 3. Reptiles and Amphibians

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
<i>Ascaphus truei</i>	Pacific tailed frog	None	None	G4	S3S4	No
<i>Rana aurora</i>	northern red-legged frog	None	None	G4	S3	Yes
<i>Rana boylei</i>	foothill yellow-legged frog - north coast DPS	None	None	G3T4	S4	No
<i>Rhyacotriton variegatus</i>	southern torrent salamander	None	None	G3?	S2S3	No
<i>Actinemys marmorata</i>	northwestern pond turtle	Proposed Threatened	None	G2	SNR	No

Table 4. Fish

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Acipenser medirostris	green sturgeon - southern DPS	Threatened	None	G2T1	S1	No
Entosphenus tridentatus	Pacific lamprey	None	None	G4	S3	No
Eucyclogobius newberryi	tidewater goby	Endangered	None	G3	S3	No
Lampetra richardsoni	western brook lamprey	None	None	G4G5	S3S4	No
Oncorhynchus clarkii clarkii	coast cutthroat trout	None	None	G5T4	S3	No
Oncorhynchus kisutch	coho salmon - southern Oregon / northern California ESU	Threatened	Threatened	G5T2Q	S2	No
Oncorhynchus mykiss irideus	steelhead - northern California DPS summer-run	Threatened	Endangered	G5T2Q	S2	No
Oncorhynchus mykiss irideus	steelhead - northern California DPS winter-run	Threatened	None	G5T3Q	S3	No
Spirinchus thaleichthys	longfin smelt	Proposed Endangered	Threatened	G5	S1	No
Thaleichthys pacificus	eulachon	Threatened	None	G5	S1	No

Table 5. Invertebrates

Scientific Name	Common Name	FESA	CESA	GRank	SRank	Potential in BAA
Bombus caliginosus	obscure bumble bee	None	None	G2G3	S1S2	Yes
Bombus occidentalis	western bumble bee	None	Candidate Endangered	G3	S1	Yes
Cicindela hirticollis gravida	sandy beach tiger beetle	None	None	G5T2	S2	No
Scaphinotus behrensi	Behrens' snail-eating beetle	None	None	G2G4	S2S4	No

Scientific Name	Common Name	FedList	CalList	GRank	SRank	RPlantRank	GenHab	Potential
<i>Fissidens pauperculus</i>	minute pocket moss	None	None	G3?	S2	1B.2	North coast coniferous forest.	No
<i>Anomobryum julaceum</i>	slender silver moss	None	None	G5?	S2	4.2	Broadleaved upland forest, lower montane coniferous forest, north coast coniferous forest.	No
<i>Abronia umbellata</i> var. <i>breviflora</i>	pink sand-verbena	None	None	G4G5T2	S2	1B.1	Coastal dunes and coastal strand.	No
<i>Chloropyron maritimum</i> ssp. <i>palustre</i>	Point Reyes salty bird's-beak	None	None	G4?T2	S2	1B.2	Coastal salt marsh.	No
<i>Gilia millefoliata</i>	dark-eyed gilia	None	None	G2	S2	1B.2	Coastal dunes.	No
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	None	None	G4T3	S3	1B.2	Coastal bluff scrub, coastal dunes, coastal prairie.	No
<i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	None	None	G3T2	S2	1B.2	Coastal bluff scrub, coastal dunes, coastal scrub.	Yes
<i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i>	coastal marsh milk-vetch	None	None	G2T2	S2	1B.2	Coastal dunes, marshes and swamps, coastal scrub.	No
<i>Castilleja ambigua</i> var. <i>humboldtensis</i>	Humboldt Bay owl's-clover	None	None	G4T2	S2	1B.2	Marshes and swamps.	No
<i>Lathyrus japonicus</i>	seaside pea	None	None	G5	S2	2B.1	Coastal dunes.	No
<i>Oenothera wolfii</i>	Wolf's evening-primrose	None	None	G2	S1	1B.1	Coastal bluff scrub, coastal dunes, coastal prairie, lower montane coniferous forest.	Yes
<i>Collinsia corymbosa</i>	round-headed collinsia	None	None	G1	S1	1B.2	Coastal dunes.	No
<i>Gilia capitata</i> ssp. <i>pacifica</i>	Pacific gilia	None	None	G5T3	S3	1B.2	Coastal bluff scrub, chaparral, coastal prairie, valley and foothill grassland.	Yes
<i>Monotropa uniflora</i>	ghost-pipe	None	None	G5	S2	2B.2	Broadleaved upland forest, north coast coniferous forest.	No
<i>Layia carnosa</i>	beach layia	Threatened	Endangered	G2	S2	1B.1	Coastal dunes, coastal scrub.	No
<i>Clarkia amoena</i> ssp. <i>whitneyi</i>	Whitney's farewell-to-spring	None	None	G5T1	S1	1B.1	Coastal bluff scrub, coastal scrub.	Yes
<i>Erysimum menziesii</i>	Menzies' wallflower	Endangered	Endangered	G1	S1	1B.1	Coastal dunes.	No

<i>Sidalcea malviflora</i> ssp. patula	Siskiyou checkerbloom	None	None	G4G5T2	S2	1B.2	Coastal bluff scrub, coastal prairie, north coast coniferous forest.	Yes
<i>Cardamine angulata</i>	seaside bittercress	None	None	G4G5	S3	2B.1	North coast coniferous forest, lower montane coniferous forest.	No
<i>Castilleja litoralis</i>	Oregon coast paintbrush	None	None	G3	S3	2B.2	Coastal bluff scrub, coastal dunes, coastal scrub.	Yes
<i>Downingia willamettensis</i>	Cascade downingia	None	None	G4	S2	2B.2	Cismontane woodland, valley and foothill grasslands, vernal pools.	No
<i>Lathyrus palustris</i>	marsh pea	None	None	G5	S2	2B.2	Bogs and fens, lower montane coniferous forest, marshes and swamps, north coast coniferous forest, coastal prairie, coastal scrub.	No
<i>Mitellastrum caulescens</i>	leafy-stemmed mitrewort	None	None	G5	S4	4.2	Broadleafed upland forest, lower montane coniferous forest, meadows and seeps, north coast coniferous forest.	No
<i>Montia howellii</i>	Howell's montia	None	None	G3G4	S2	2B.2	Meadows and seeps, north coast coniferous forest, vernal pools.	No
<i>Packera bolanderi</i> var. bolanderi	seacoast ragwort	None	None	G4T4	S2S3	2B.2	Coastal scrub, north coast coniferous forest.	No
<i>Polemonium carneum</i>	Oregon polemonium	None	None	G3G4	S2	2B.2	Coastal prairie, coastal scrub, lower montane coniferous forest.	No
<i>Sidalcea malachroides</i>	maple-leaved checkerbloom	None	None	G3	S3	4.2	Broadleafed upland forest, coastal prairie, coastal scrub, north coast coniferous forest, riparian forest.	Yes
<i>Sidalcea oregana</i> ssp. eximia	coast checkerbloom	None	None	G5T1	S1	1B.2	Meadows and seeps, north coast coniferous forest, lower montane coniferous forest.	Yes
<i>Silene scouleri</i> ssp. scouleri	Scouler's catchfly	None	None	G5T4T5	S2S3	2B.2	Coastal bluff scrub, coastal prairie, valley and foothill grassland.	No
<i>Spergularia canadensis</i> var. occidentalis	western sand-spurrey	None	None	G5T4	S1	2B.1	Marshes and swamps (coastal salt marshes).	No
<i>Viola palustris</i>	alpine marsh violet	None	None	G5	S1S2	2B.2	Coastal scrub, bogs and fens.	No
<i>Lycopodium clavatum</i>	running-pine	None	None	G5	S3	4.1	Lower montane coniferous forest, north coast coniferous forest, marshes and swamps.	Yes

<i>Sulcaria spiralifera</i>	twisted horsehair lichen	None	None	G3G4	S2	1B.2	North Coast coniferous forest (immediate coast), coastal dunes.	No
<i>Usnea longissima</i>	Methuselah's beard lichen	None	None	G4	S4	4.2	North coast coniferous forest, broadleaved upland forest.	Yes
<i>Carex arcta</i>	northern clustered sedge	None	None	G5	S1	2B.2	Bogs and fens, north coast coniferous forest.	No
<i>Carex leptalea</i>	bristle-stalked sedge	None	None	G5	S1	2B.2	Bogs and fens, meadows and seeps, marshes and swamps.	No
<i>Carex lyngbyei</i>	Lyngbye's sedge	None	None	G5	S3	2B.2	Marshes and swamps (brackish or freshwater).	No
<i>Lilium occidentale</i>	western lily	Endangered	Endangered	G1G2	S1	1B.1	Coastal scrub, freshwater marsh, bogs and fens, coastal bluff scrub, coastal prairie, north coast coniferous forest, marshes and swamps.	Yes
<i>Erythronium revolutum</i>	coast fawn lily	None	None	G4G5	S3	2B.2	Bogs and fens, broadleaved upland forest, north coast coniferous forest.	No
<i>Carex praticola</i>	northern meadow sedge	None	None	G5	S2	2B.2	Meadows and seeps.	No
<i>Puccinellia pumila</i>	dwarf alkali grass	None	None	G5	SH	2B.2	Marshes and swamps.	No

Potential Special-Status Species Details

Potentially Occurring Special Status Birds

Cooper's hawk (*Accipiter cooperii*)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G5, S4

Habitat/Life-history Requirements: Cooper's hawks are common year-round residents in wooded areas of California, and they can be found in urban and suburban areas as well (Cornell Lab). The medium-sized hawk builds nests made of piles of sticks over two feet wide in tall trees, typically 25-50 feet off the ground (Cornell Lab). Nesting trees include pines, oaks and Douglas firs (Cornell Lab). Dense stands are typically used for nesting and patchy open areas are commonly used for hunting (Zeiner et al. 1988).

Status within the Project Area: No likely nesting habitat exists within the project area. However potential habitat exists adjacent to the project.

Potential Impact/Mitigation: The potential impact area of project activity would be limited to an open, mowed field, which could serve as potential hunting ground. Noise from potential project activity as well as any planned tree removal may disturb individuals in the vicinity of the project site.

Sharp-shinned hawk (*Accipiter striatus*)

Special Status: CDFW Fully Protected; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The sharp-shinned hawk roosts in intermediate to high-canopy forest and nests in dense, even-aged, single-layered forest canopy. Nest is a platform or cup in dense foliage against trunk, or in main crotch of tree, usually 6-80 ft above ground.

Status within the Project Area: Roosting is possible within the winter in trees surrounding the open field of the potential project site. Nesting is highly unlikely given their typical seasonality.

Potential Impact/Mitigation No impact to nesting sites is expected. Impact to the field in the project area may impact hunting ground.

Grasshopper sparrow (*Ammodramus savannarum*)

Special Status: CDFW Species of Special Concern; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: An uncommon and local, summer resident and breeder in foothills and lowlands west of the Cascade-Sierra Nevada crest from Mendocino and Trinity cos. south to San Diego Co. Occurs in dry, dense grasslands, especially those with a variety of grasses and tall forbs and scattered shrubs for singing perches. nest of grasses and forbs in a slight depression in ground, hidden at base of an overhanging clump of grasses or forbs.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, a large field.

Potential Impact/Mitigation Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Great egret (*Ardea alba*)

Special Status: Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The great egret is a common yearlong resident throughout California, except for high mountains and deserts. Feeds and rests in fresh, and saline emergent wetlands, along the margins of estuaries, lakes, and slow-moving streams, on mudflats and salt ponds, and in irrigated croplands and pastures. Nests in large trees, and roosts in trees. Nests are usually near water at a height of 10-80ft and nesting activity is very sensitive to frequent human disturbance.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, in large Monterey cypresses and a large field, respectively.

Potential Impact/Mitigation Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Peregrine falcon (*Falco peregrinus anatum*)

Special Status: Federally Delisted, State Delisted, CDFW Fully Protected; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G4T4, S3S4

Habitat/Life-history Requirements: The formerly federally endangered peregrine falcon was delisted in 1999 due to recovery (USFWS ECOS). The peregrine falcon is an uncommon year-round resident and migrant in California (Zeiner et al. 1988). Peregrine falcons typically use cliffs and ledges near bodies of water for cover and nesting areas, but they may also nest on buildings or bridges in the city (Sibley 2003, Cornell Lab). Peregrine falcons may breed in woodland, forest, or coastal habitat (Zeiner et al. 1988). Riparian and wetland areas are important habitat yearlong (Zeiner et al. 1988).

Status within the Project Area: No nesting habitat exists within the project area, the project is not near any large bodies of water.

Potential Impact/Mitigation: No buildings or bridges are being removed with this project. The project will not significantly impact nesting peregrine falcons or their habitat.

Great blue heron (*Ardea herodias*)

Special Status: USFS.S.

Habitat/Life-history Requirements: The great blue heron is fairly common all year throughout most of California, in shallow estuaries and fresh and saline emergent wetlands. Less common along riverine and rocky marine shores, in croplands, pastures, and in mountains above foothills. Usually nests in colonies in tops of secluded large snags or live trees, usually among the tallest available; rarely nests on ground, rock ledges, sea cliffs, mats of tules, or shrubs. Nesting activity is sensitive to human disturbance.

Status within the Project Area: Nesting and foraging habitat exists throughout the potential project site, in large Monterey cypresses and a large field, respectively.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Mountain plover (*Charadrius montanus*)

Special Status: CDF - Sensitive; CDFW – Watch List; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: Population declining and very local; occasionally fairly common. Winter resident from September through March. Found on short grasslands and plowed fields of the Central Valley from Sutter and Yuba cos. southward. Recent extralimital records in the North Coast have been recorded.

Status within the Project Area: It is very unlikely that mountain plover will occur in the project area. Foraging sites exist within the project footprint. The species does not nest in California.

Potential Impact/Mitigation: Project operations may impact foraging sites, but is unlikely to impact populations.

Northern harrier (*Circus hudsonius*)

Special Status: CDF – Sensitive.

Habitat/Life-history Requirements: Frequents meadows, grasslands, open rangelands, desert sinks, fresh and saltwater emergent wetlands; seldom found in wooded areas. Permanent resident of the northeastern plateau and coastal areas; less common resident of the Central Valley. Widespread winter resident and migrant in suitable habitat. California population has decreased in recent decades. Nests on the ground in shrubby vegetation or tall grasses, often near wetlands.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Snowy egret (*Egretta thula*)

Special Status: CDF – Species of Special Concern; Protected under Migratory Bird Treaty Act.

Habitat/Life-history Requirements: The snowy egret is widespread in California along shores of coastal estuaries, fresh and saline emergent wetlands, ponds, slow-moving rivers, irrigation ditches, and wet fields. Feeds in shallow water or along shores of wetlands or aquatic habitats, and is the most active feeder of the California herons. Can nest either low in trees or on the ground in dense marshes.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

White-tailed kite (*Elanus leucurus*)

Special Status: CDFW – Species of Special Concern.

Habitat/Life-history Requirements: Common to uncommon, yearlong resident in coastal and valley lowlands; rarely found away from agricultural areas. Inhabits herbaceous and open stages of most habitats mostly in cismontane California. Typically nests near the top of available tree species adjacent to foraging ground (e.g. grassland and meadows).

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress. Three individuals were seen perched about 280 feet from the northern end of the project site in a large grand fir.

Potential Impact/Mitigation: Project operations could significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Bald Eagle (*Haliaeetus leucocephalus*)

Status: State Endangered, Federally Delisted August 8, 2007, CDFW “Fully Protected”, and BOF Sensitive Species

Habitat/Life-history Requirements: Requires large bodies of water or free flowing rivers with abundant fish populations, with adjacent snags or other perches. Fish are a primary source of prey, and bald eagles are typically found in forested areas near large fish-bearing waters. Bald eagles build large nests about 6 feet wide. Nests are typically found in large trees, but may be built on other available vegetation or structures.

Status within the Project Area: The Eel River lies approximately 2 miles south of the project area. The project and the area adjacent were searched for the existence of bald eagle nests or potential nest sites. No large dead tops or snags existed in adjacent trees.

Potential Impact/Mitigation: The project as proposed should not significantly impact nesting Bald Eagles or their habitat.

Black-crowned night heron (*Nycticorax nycticorax*)

Special Status: CDFW – Watchlist.

Habitat/Life-history Requirements: The black-crowned night-heron is a fairly common, yearlong resident in lowlands and foothills throughout most of California. Can nest either low in trees or on the ground in dense marshes. Feeds along the margins of lacustrine, large riverine, and fresh and saline emergent habitats.

Status within the Project Area: Suitable foraging and nesting habitat exists within the field that comprises the project area as well as adjacent Monterrey cypress.

Potential Impact/Mitigation: Project operations would significantly impact nesting habitat, thus nesting bird surveys or activities outside of nesting season are recommended.

Osprey (*Pandion haliaetus*)

Special Status: CDFW Watch List; Protected under Migratory Bird Treaty Act; NatureServe Ranks: G5, S4

Family: Accipitridae

Habitat/Life-history Requirements: Ospreys primarily prey on fish and they require large fish-bearing waters for hunting (Zeiner et al. 1988). Ospreys typically make large nests in tall snags or trees high off the ground in open forest habitats (Zeiner et al.).

Status within the Project Area: Ospreys are unlikely to occur in the area directly impacted by the project. The nearest occurrence mapped in CNDDB 2023 is more than 7 miles away from the project.

Potential Impact/Mitigation: No known Osprey nest sites are located within the assessment area. The project as proposed should not significantly impact nesting Osprey or their habitat.

Mammals

North American porcupine (*Erethizon dorsatum*)

Special Status: CDFW Special Animals List (2017); NatureServe Ranks: G5, S3

Habitat/Life-history Requirements: The American porcupine is most commonly found in montane conifer, Douglas-fir, alpine dwarf-shrub, and wet meadow habitats (Zeiner et al. 1988). The herbivore feeds on a wide variety of aquatic and terrestrial herbs, shrubs, fruits, leaves, and buds in the summer (Zeiner et al. 1988). During the winter, the porcupine diet includes evergreen leaves, twigs, bark, and cambium of trees, particularly conifers (Zeiner et al. 1988).

Status within the Project Area: The habitat present in the project footprint is marginal, however, both nearby forest and meadow habitat may support American porcupine. No indications were seen during initial site visit.

Potential Impact/Mitigation: Although widely distributed throughout North America and occurring in many habitats, the North American porcupine is considered vulnerable in California. The project area lying entirely within a mowed non-native grassland is unlikely to impact American porcupine.

Fisher - West Coast DPS (*Pekania pennanti*)

Special Status: CDFW Species of Special Concern; NatureServe Ranks: G5, S2S3

Habitat/Life-history Requirements: The fisher uses large expanses of forest with moderate to high canopy closure, and will avoid open forest, grasslands, and wetlands (USFWS 2014). Fishers use cavities in live trees, snags and down logs for reproductive dens (USFWS 2014). Structural complexity is a critical element of fisher habitat, necessary to provide cover for resting and denning, and habitat for prey (USFWS 2014).

Status within the Project Area: The project area does not contain fisher habitat, but potential habitat may be found within the forested areas to the north of the project area, as well as unmowed grassland. No signs of Fisher activity were seen around cypress trees near the project footprint.

Potential Impact/Mitigation: No large trees are planned to be removed with this project. The property contains many openings, and would not be prime habitat for the fisher. Potential habitat may occur offsite within the parcel, but no significant impact is expected.

Humboldt mountain beaver (*Aplodontia rufa humboldtiana*)

Special Status: G5TNR, SNR

Habitat/Life-history Requirements: Found throughout the Cascade, Klamath, and Sierra Nevada Ranges. Distribution often is scattered; populations local and uncommon in the Sierra Nevada and other interior areas. Mountain beavers occur in dense riparian-deciduous and open, brushy stages of most forest types. Typical habitat in the Sierra Nevada is montane riparian; in the Coast Ranges, most populations occur below 900 m (2700 ft) (Borrecco and Anderson 1980). Frequent open and intermediate-canopy coverage with a dense understory near water. Deep, friable soils are required for burrowing, along with a cool, moist microclimate. Burrows are located in deep soils in dense thickets, preferably near a stream or spring.

Status within the Project Area: The project area does not contain mountain beaver habitat, but potential habitat may be found within the forested areas and wet areas to the north of the project area, as well as unmowed grassland. No signs of mountain beaver activity were seen around cypress trees near the project footprint.

Potential Impact/Mitigation: No impact to soils near wet areas or within dense forested areas will occur with planned project activity. Potential habitat may occur offsite within the parcel, but no significant impact is expected.

Hoary bat (*Lasiurus cinereus*)

Special Status: G3G4, S4

Habitat/Life-history Requirements: The hoary bat is the most widespread North American bat. May be found at any location in California, although distribution patchy in southeastern deserts. This common, solitary species winters along the coast and in southern California, breeding inland and north of the winter range. Habitats suitable for bearing young include all woodlands and forests with medium to large-size trees and dense foliage.

Status within the Project Area: The large cypress trees adjacent to the project area may contain suitable habitat for breeding hoary bats.

Potential Impact/Mitigation: No trees are to be removed during project activity, however noise from project activity may disturb any bats present. It is recommended that trees within 100' of the project area be surveyed for bat activity.

Long-eared myotis (*Myotis evotis*)

Special Status: G5, S3

Habitat/Life-history Requirements: The long-eared myotis is widespread in California, but generally is believed to be uncommon in most of its range. It avoids the arid Central Valley and hot deserts, occurring along the entire coast and in the Sierra Nevada, Cascades, and Great Basin from the Oregon border south through the Tehachapi Mts. to the Coast Ranges. This species has been found in nearly all brush, woodland, and forest habitats, from sea level to at least 9000 ft, but coniferous woodlands and forests seem to be preferred.

Status within the Project Area: The large cypress trees adjacent to the project area may contain suitable habitat for breeding long-eared myotis.

Potential Impact/Mitigation: No trees are to be removed during project activity, however noise from project activity may disturb any bats present. It is recommended that trees within 100' of the project area be surveyed for bat activity.

Amphibians and Reptiles

Northern red-legged frog (*Rana aurora*)

Special Status: CDFW “Species of Special Concern”; NatureServe Ranks: G4, S3

Habitat/Life-history Requirements: Found in riparian areas and permanent bodies of relatively quiet water such as ponds, pools along streams, reservoirs, springs, lakes and marshes. This frog is highly aquatic, preferring shorelines with extensive vegetation for terrestrial cover and escaping to pools 3 feet or deeper.

Status within the Project Area: The project area is upwards of 400’ from any potential watercourse and sits upon a high point in the parcel. It is unlikely that red-legged frogs would be present in this area.

Potential Impact/Mitigation: None are reported on CNDDB within the project area or within the 0.7 mile buffer. The project footprint does not intersect or impact areas of high quality Northern red-legged frog habitat.

Fishes

No suitable year-round watercourse exists within or adjacent to the project area, thus no fishes will be present or impacted by project activity.

Invertebrates

Obscure bumble bee (*Bombus caliginosus*)

Special Status: CDFW Special Animals List; NatureServe Ranks: G2G3, S1

Habitat/Life-history Requirements: The obscure bumble bee occupies open grassy coastal prairies and Coast Range meadows (IUCN). This long-tongued species may pollinate flowers with elongated corollas, such as *Keckiella* spp. (IUCN). The obscure bumblebee does not fare well in agricultural or urban/suburban environments, where it is often outcompeted by more common bumblebees (NatureServe 2017). The obscure bumblebee has declined in the San Francisco Bay area, and may be threatened by habitat loss from development (NatureServe 2017).

Potential Impact/Mitigation: The property has the potential to support many native pollinators, however, the project footprint currently consists of a large mowed field with minimal nectar sources. The project is not expected to have significant impacts on *Bombus* species.

Western bumble bee (*Bombus occidentalis*)

Special Status: State Candidate Endangered, NatureServe Ranks: G3, S1

Habitat/Life-history Requirements: The western bumble bee is a generalist short-tongued forager that may be found in open habitats such as grassy areas, urban parks and gardens, chaparral and shrub areas, and mountain meadows (IUCN). Like many bumble bees, the western bumble bee nests underground in abandoned rodent holes (IUCN). The western bumble bee is threatened by disease, habitat loss and degradation, and insecticides.

Potential Impact/Mitigation: The property has the potential to support many native pollinators, however, the project footprint currently consists of a large mowed field with minimal nectar sources. The project is not expected to have significant impacts on *Bombus* species.

Appendix A: Photos of Project Area



Picture 1. View of the project area looking directly east. Note the mowed vegetation and cypresses located 90 feet from the project area boundary. Traffic cones visible in the picture delineate the project footprint.



Picture 2. View of the project area looking south. Note the mowed vegetation and cypresses located 40 feet from the project area boundary. Traffic cones visible in the picture delineate the project footprint



Picture 3. View of the project area looking southeast. Note the mowed vegetation short trees adjacent to Table Bluff Rd. Traffic cones visible in the picture delineate the project footprint.

Appendix B: Maps

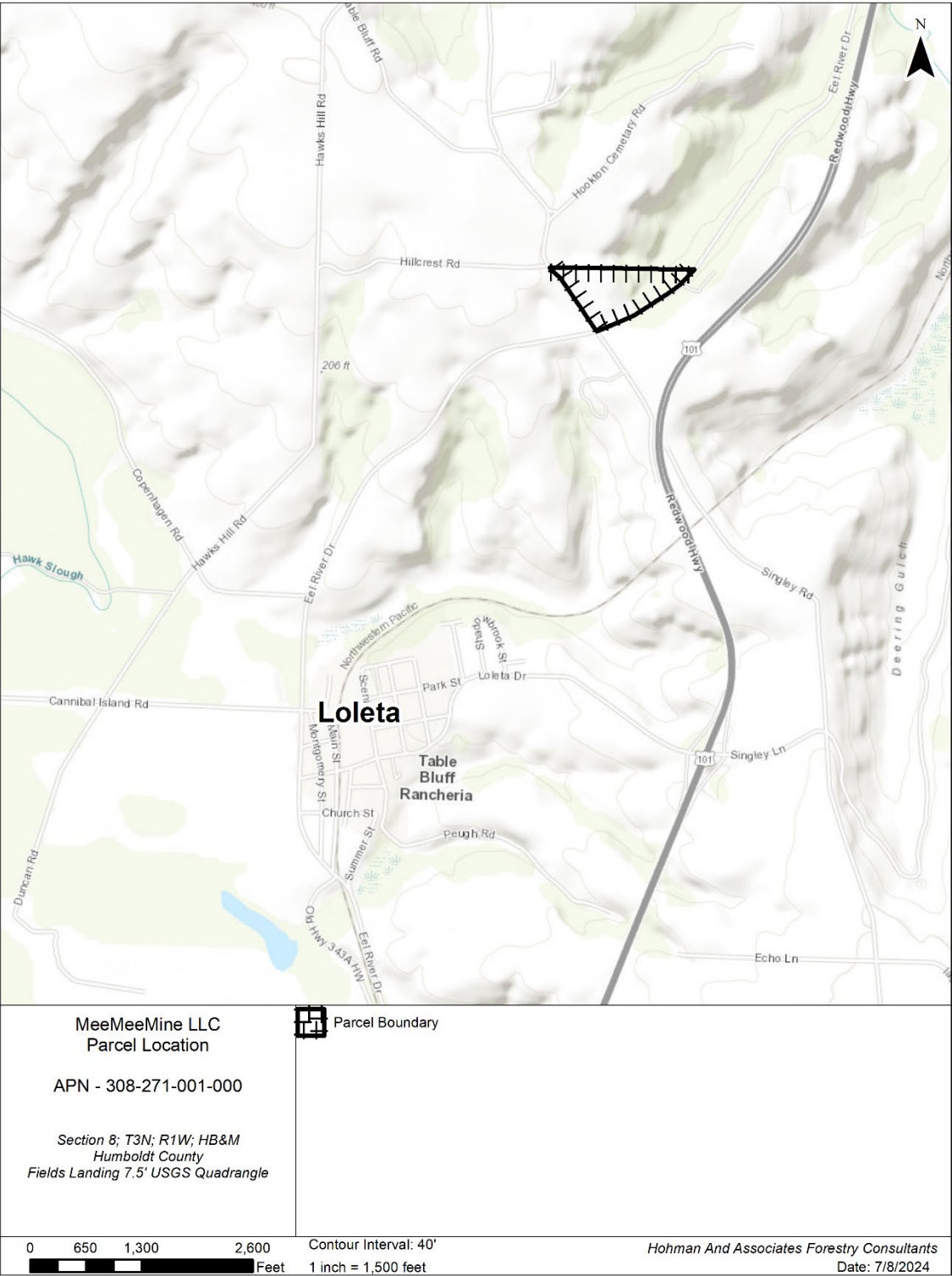


Figure 1. Location of MeeMeeMine LLC parcel

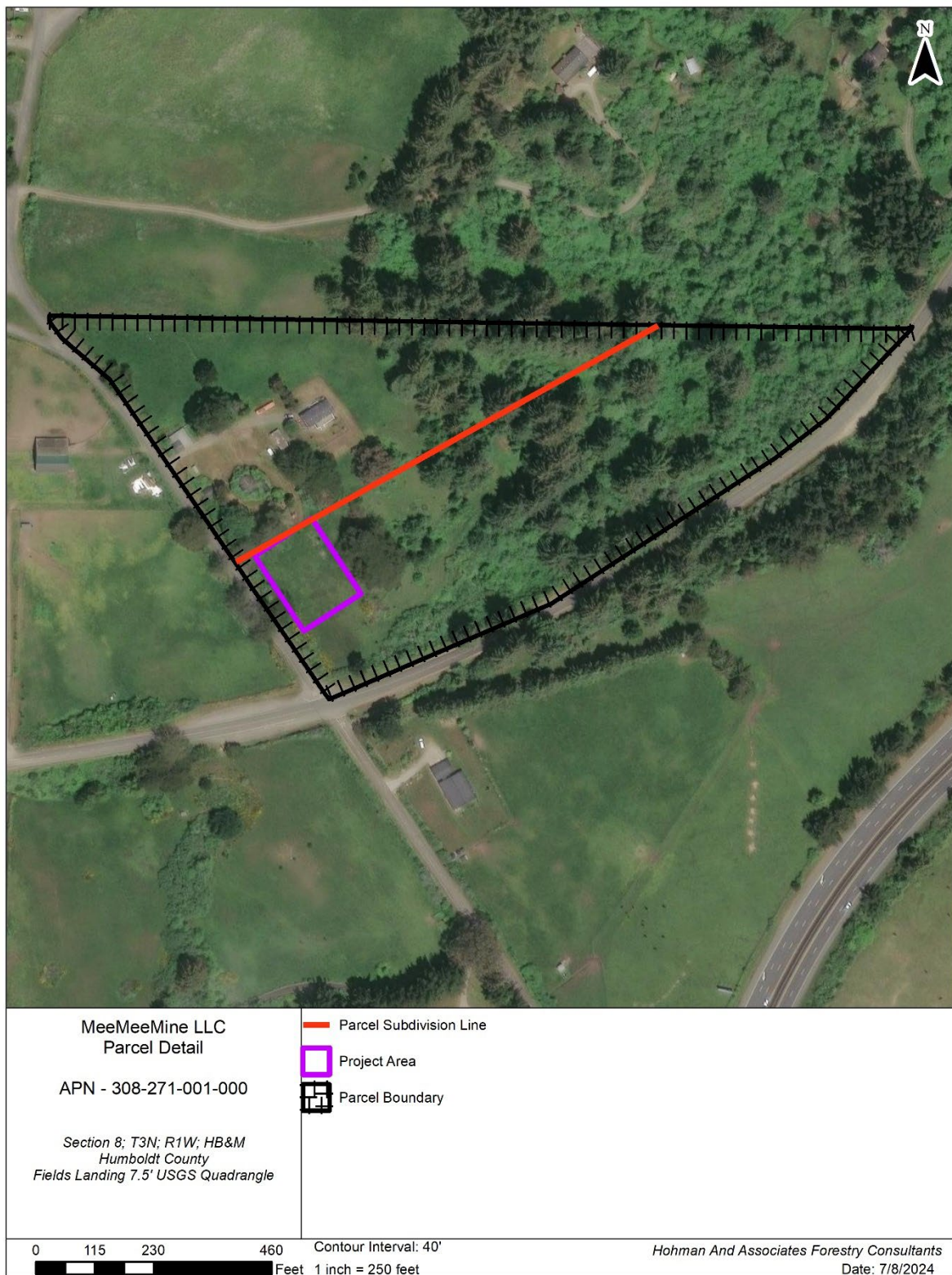


Figure 2. Detail map of parcel division and project area

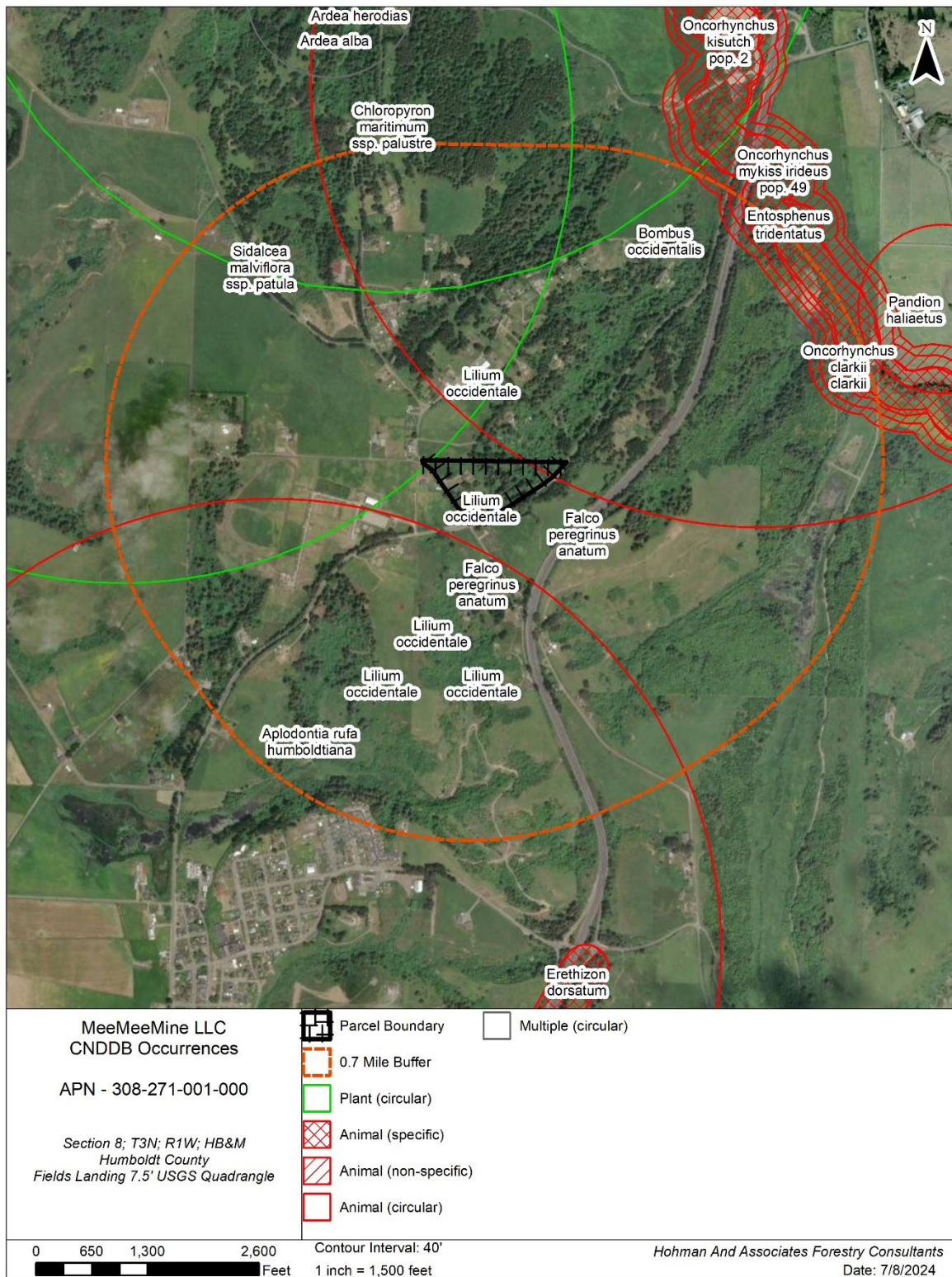


Figure 3. CNDDDB occurrences map of 0.7 mile buffer surrounding parcel

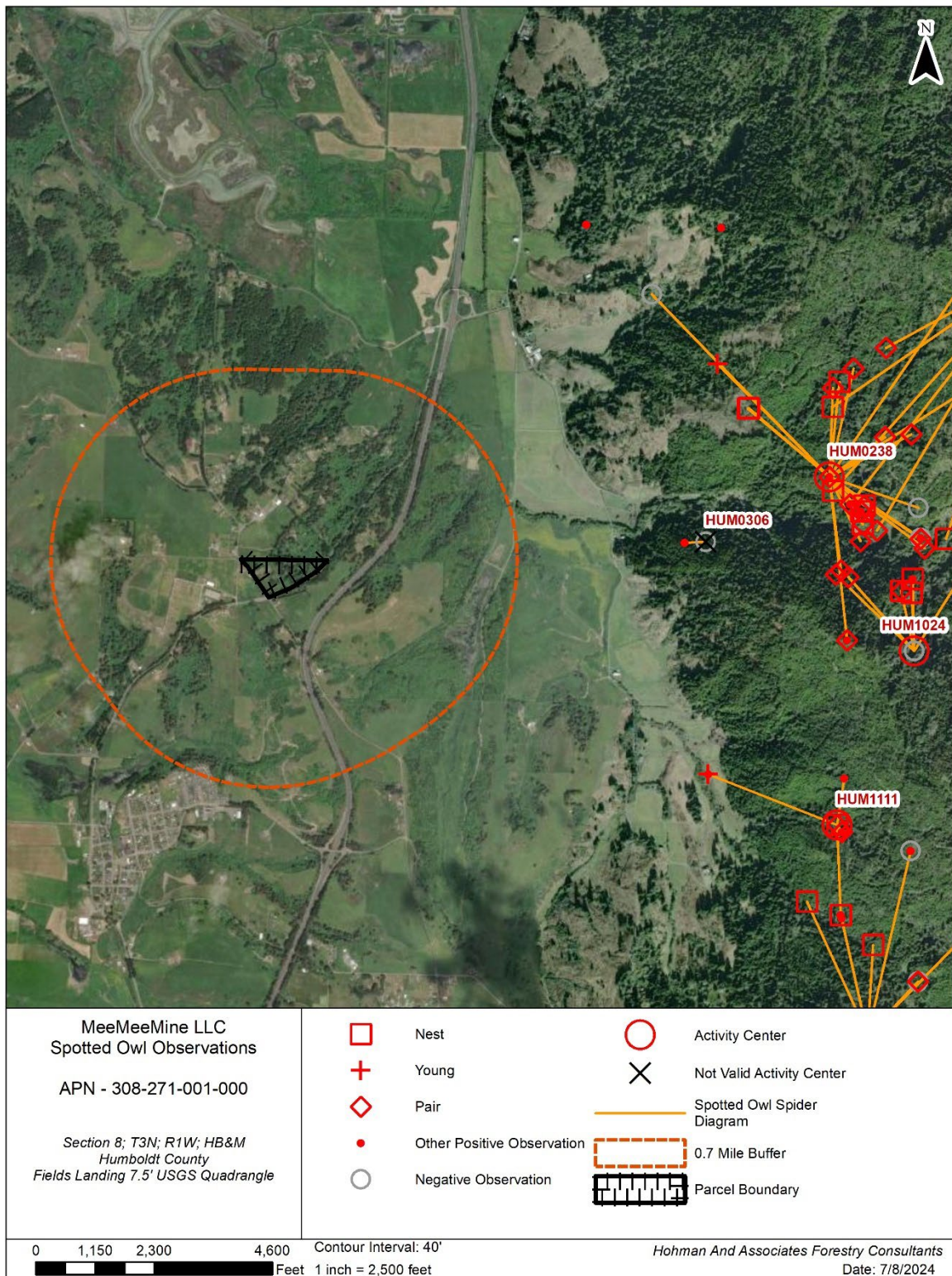


Figure 4. NSO activity centers in the vicinity of the parcel

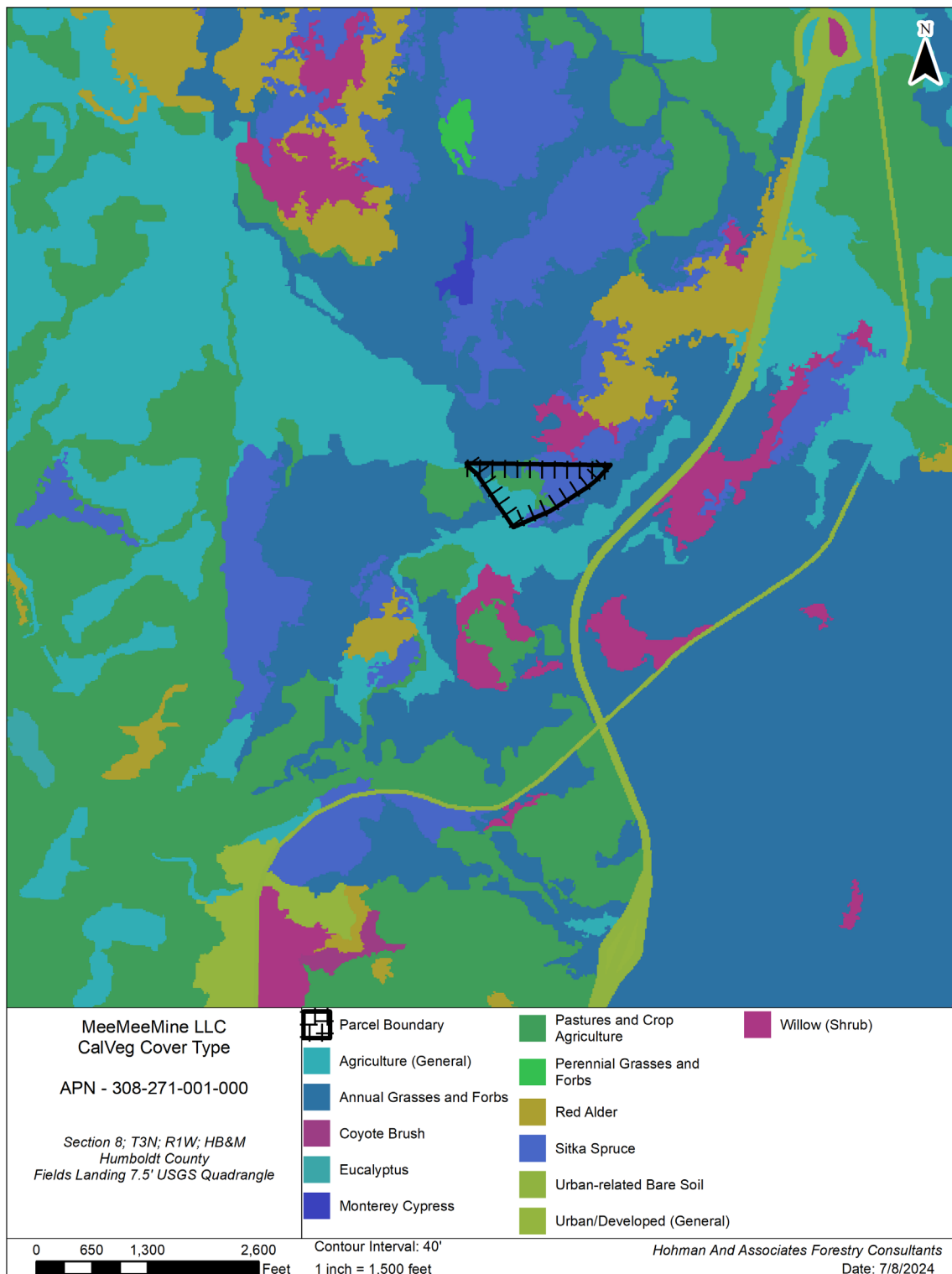


Figure 5. Calveg cover type of area surrounding MeeMeeMine parcel



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Query Criteria: Quad< IS (Fields Landing (4012462)< OR Cannibal Island (4012463)< OR Eureka (4012472)< OR Arcata South (4012471)< OR McWhinney Creek (4012461)< OR Hydesville (4012451)< OR Fortuna (4012452)< OR Ferndale (4012453))

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Abronia umbellata</i> var. <i>breviflora</i> pink sand-verbena	G4G5T2 S2	None None	Rare Plant Rank - 1B.1 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	5 236	61 S:10	0	6	1	1	0	2	4	6	10	0	0
<i>Accipiter cooperii</i> Cooper's hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	300 300	118 S:1	1	0	0	0	0	0	1	0	1	0	0
<i>Accipiter striatus</i> sharp-shinned hawk	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	200 1,200	22 S:3	0	0	2	0	0	1	1	2	3	0	0
<i>Acipenser medirostris</i> pop. 1 green sturgeon - southern DPS	G2T1 S1	Threatened None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern IUCN_EN-Endangered	0 0	14 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Actinemys marmorata</i> northwestern pond turtle	G2 SNR	Proposed Threatened None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	3 600	1082 S:10	0	2	1	0	0	7	2	8	10	0	0
<i>Agelaius tricolor</i> tricolored blackbird	G1G2 S2	None Threatened	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_EN-Endangered USFWS_BCC-Birds of Conservation Concern	53 53	960 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Ammodramus savannarum</i> grasshopper sparrow	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	22 22	27 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Anodonta californiensis</i> California floater	G3 S2?	None None	USFS_S-Sensitive	41 41	6 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Anomobryum julaceum</i> slender silver moss	G5? S2	None None	Rare Plant Rank - 4.2	320 320	13 S:1	0	0	0	0	0	1	1	0	1	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Antrozous pallidus</i> pallid bat	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	40 40	420 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Apodontia rufa humboldtiana</i> Humboldt mountain beaver	G5TNR SNR	None None		50 1,700	28 S:14	0	0	0	0	0	14	13	1	14	0	0
<i>Arborimus pomo</i> Sonoma tree vole	G3 S3	None None	CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	40 1,900	222 S:18	0	0	0	0	0	18	18	0	18	0	0
<i>Ardea alba</i> great egret	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	4 194	43 S:6	1	0	0	0	0	5	4	2	6	0	0
<i>Ardea herodias</i> great blue heron	G5 S4	None None	CDF_S-Sensitive IUCN_LC-Least Concern	4 600	156 S:12	3	0	1	0	1	7	9	3	11	1	0
<i>Ascaphus truei</i> Pacific tailed frog	G4 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern	100 1,027	491 S:8	0	0	0	0	0	8	6	2	8	0	0
<i>Astragalus pycnostachyus</i> var. <i>pycnostachyus</i> coastal marsh milk-vetch	G2T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		24 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Bombus caliginosus</i> obscure bumble bee	G2G3 S1S2	None None	IUCN_VU-Vulnerable	0 2,100	181 S:6	0	0	0	0	0	6	6	0	6	0	0
<i>Bombus occidentalis</i> western bumble bee	G3 S1	None Candidate Endangered	IUCN_VU-Vulnerable USFS_S-Sensitive	15 2,100	306 S:9	0	0	0	0	0	9	9	0	9	0	0
<i>Brachyramphus marmoratus</i> marbled murrelet	G3 S2	Threatened Endangered	CDF_S-Sensitive IUCN_EN-Endangered	600 1,800	110 S:6	0	2	0	0	0	4	6	0	6	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Cardamine angulata</i> seaside bittercress	G4G5 S3	None None	Rare Plant Rank - 2B.1	310 310	38 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Carex arcta</i> northern clustered sedge	G5 S1	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	500 500	13 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Carex leptalea</i> bristle-stalked sedge	G5 S1	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	300 300	8 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Carex lyngbyei</i> Lyngbye's sedge	G5 S3	None None	Rare Plant Rank - 2B.2 IUCN_LC-Least Concern	0 20	37 S:21	2	3	10	0	0	6	10	11	21	0	0
<i>Carex praticola</i> northern meadow sedge	G5 S2	None None	Rare Plant Rank - 2B.2		14 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Castilleja ambigua</i> var. <i>humboldtensis</i> Humboldt Bay owl's-clover	G4T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_UCBG-UC Botanical Garden at Berkeley	5 10	31 S:20	2	6	4	0	0	8	13	7	20	0	0
<i>Castilleja litoralis</i> Oregon coast paintbrush	G3 S3	None None	Rare Plant Rank - 2B.2	50 500	44 S:5	0	0	0	0	0	5	4	1	5	0	0
<i>Charadrius montanus</i> mountain plover	G3 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened USFWS_BCC-Birds of Conservation Concern	494 7	S:2	0	0	0	0	0	2	0	2	2	0	0
<i>Charadrius nivosus nivosus</i> western snowy plover	G3T3 S3	Threatened None	CDFW_SSC-Species of Special Concern	10 23	140 S:3	0	1	0	0	0	2	1	2	3	0	0
<i>Chloropyron maritimum</i> ssp. <i>palustre</i> Point Reyes salty bird's-beak	G4?T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	5 10	80 S:16	2	6	1	1	0	6	9	7	16	0	0
<i>Cicindela hirticollis grvida</i> sandy beach tiger beetle	G5T2 S2	None None		10 10	34 S:1	0	0	0	0	1	0	1	0	0	0	1



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Circus hudsonius</i> northern harrier	G5 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	682 6	S:1	0	0	1	0	0	0	0	1	1	0	0
<i>Clarkia amoena ssp. whitneyi</i> Whitney's farewell-to-spring	G5T1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	20 20	S:1	8	0	0	0	0	1	1	0	1	0	0
<i>Coastal Terrace Prairie</i> Coastal Terrace Prairie	G2 S2.1	None None		160 160	8 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Coccyzus americanus occidentalis</i> western yellow-billed cuckoo	G5T2T3 S1	Threatened Endangered	BLM_S-Sensitive USFS_S-Sensitive	10 10	165 S:2	1	0	0	0	0	1	0	2	2	0	0
<i>Collinsia corymbosa</i> round-headed collinsia	G1 S1	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		13 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	G4 S2	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	30 250	635 S:4	0	0	0	0	0	4	4	0	4	0	0
<i>Coturnicops noveboracensis</i> yellow rail	G4 S2	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive USFWS_BCC-Birds of Conservation Concern	4 24	45 S:4	0	0	0	0	0	4	3	1	4	0	0
<i>Downingia willamettensis</i> Cascade downingia	G4 S2	None None	Rare Plant Rank - 2B.2	48 335	8 S:4	0	0	0	0	0	4	4	0	4	0	0
<i>Egretta thula</i> snowy egret	G5 S4	None None	IUCN_LC-Least Concern	4 47	20 S:3	1	0	0	0	0	2	1	2	3	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Elanus leucurus</i> white-tailed kite	G5 S3S4	None None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	60 60	190 S:2	0	0	0	0	0	2	0	2	2	0	0
<i>Entosphenus tridentatus</i> Pacific lamprey	G4 S3	None None	AFS_VU-Vulnerable BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	14 43	9 S:5	0	0	0	0	0	5	1	4	5	0	0
<i>Erethizon dorsatum</i> North American porcupine	G5 S3	None None	IUCN_LC-Least Concern	13 1,490	523 S:13	0	0	0	0	0	13	4	9	13	0	0
<i>Erysimum menziesii</i> Menzies' wallflower	G1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	5 30	19 S:5	1	2	1	1	0	0	1	4	5	0	0
<i>Erythronium revolutum</i> coast fawn lily	G4G5 S3	None None	Rare Plant Rank - 2B.2 SB_UCSC-UC Santa Cruz		172 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Eucyclogobius newberryi</i> tidewater goby	G3 S3	Endangered None	AFS_EN-Endangered CDFW_SSC-Species of Special Concern IUCN_NT-Near Threatened	0 12	127 S:11	1	1	0	1	0	8	1	10	11	0	0
<i>Falco peregrinus anatum</i> American peregrine falcon	G4T4 S3S4	Delisted Delisted	CDF_S-Sensitive	40 586	75 S:8	1	5	0	0	0	2	1	7	8	0	0
<i>Fissidens pauperculus</i> minute pocket moss	G3? S2	None None	Rare Plant Rank - 1B.2 USFS_S-Sensitive	100 650	22 S:4	0	0	0	0	0	4	4	0	4	0	0
<i>Gilia capitata ssp. pacifica</i> Pacific gilia	G5T3 S3	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	150 2,100	91 S:5	0	1	0	0	0	4	4	1	5	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Gilia millefoliata</i> dark-eyed gilia	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	536	54 S:9	0	4	1	0	0	4	7	2	9	0	0
<i>Haliaeetus leucocephalus</i> bald eagle	G5 S3	Delisted Endangered	BLM_S-Sensitive CDF_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern USFS_S-Sensitive	29580	333 S:3	1	1	0	0	0	1	0	3	3	0	0
<i>Hesperovax sparsiflora</i> var. <i>brevifolia</i> short-leaved evax	G4T3 S3	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	1015	72 S:7	0	2	1	0	0	4	2	5	7	0	0
<i>Lampetra richardsoni</i> western brook lamprey	G4G5 S3S4	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	35350	4 S:4	0	0	0	0	0	4	1	3	4	0	0
<i>Lasiurus cinereus</i> hoary bat	G3G4 S4	None None	IUCN_LC-Least Concern		238 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lasthenia californica</i> ssp. <i>macrantha</i> perennial goldfields	G3T2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		59 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lathyrus japonicus</i> seaside pea	G5 S2	None None	Rare Plant Rank - 2B.1 IUCN_LC-Least Concern	5200	24 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Lathyrus palustris</i> marsh pea	G5 S2	None None	Rare Plant Rank - 2B.2	1010	13 S:2	0	0	0	0	0	2	2	0	2	0	0



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						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
Layia carnosa beach layia	G2 S2	Threatened Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_SBBG-Santa Barbara Botanic Garden	10 40	25 S:4	0	3	1	0	0	0	1	3	4	0	0
Lilium occidentale western lily	G1G2 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_BerrySB-Berry Seed Bank	30 350	16 S:8	0	3	0	1	3	1	3	5	5	3	0
Lycopodium clavatum running-pine	G5 S3	None None	Rare Plant Rank - 4.1	180 1,860	120 S:23	2	7	10	3	0	1	23	0	23	0	0
Margaritifera falcata western pearlshell	G3G4 S1S2	None None	IUCN_NT-Near Threatened	75 75	78 S:1	0	0	0	0	0	1	1	0	1	0	0
Martes caurina humboldtensis Humboldt marten	G4G5T1 S1	Threatened Endangered	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	140 1,100	44 S:2	0	0	0	0	0	2	2	0	2	0	0
Mitellastrum caulescens leafy-stemmed mitrewort	G5 S4	None None	Rare Plant Rank - 4.2	1,200 1,200	21 S:1	0	1	0	0	0	0	1	0	1	0	0
Monotropa uniflora ghost-pipe	G5 S2	None None	Rare Plant Rank - 2B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	100 100	115 S:1	0	0	0	0	0	1	1	0	1	0	0
Montia howellii Howell's montia	G3G4 S2	None None	Rare Plant Rank - 2B.2	50 1,600	123 S:16	0	6	2	3	3	2	6	10	13	3	0
Myotis evotis long-eared myotis	G5 S3	None None	BLM_S-Sensitive IUCN_LC-Least Concern	40 40	139 S:1	0	1	0	0	0	0	1	0	1	0	0
Nannopterum auritum double-crested cormorant	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	10 10	39 S:1	0	0	0	0	0	1	1	0	1	0	0
Northern Coastal Salt Marsh Northern Coastal Salt Marsh	G3 S3.2	None None		0 0	53 S:11	1	0	0	0	0	10	11	0	11	0	0
Nycticorax nycticorax black-crowned night heron	G5 S4	None None	IUCN_LC-Least Concern	4 194	37 S:8	1	0	0	0	0	7	6	2	8	0	0



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<i>Oenothera wolffii</i> Wolf's evening-primrose	G2 S1	None None	Rare Plant Rank - 1B.1 SB_BerrySB-Berry Seed Bank	10 10	29 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Oncorhynchus clarkii clarkii</i> coast cutthroat trout	G5T4 S3	None None	AFS_VU-Vulnerable CDFW_SSC-Species of Special Concern USFS_S-Sensitive	5 120	45 S:10	0	0	1	0	0	9	5	5	10	0	0
<i>Oncorhynchus kisutch pop. 2</i> coho salmon - southern Oregon / northern California ESU	G5T2Q S2	Threatened Threatened	AFS_TH-Threatened	35 117	10 S:5	0	0	2	0	0	3	0	5	5	0	0
<i>Oncorhynchus mykiss irideus pop. 48</i> steelhead - northern California DPS summer- run	G5T2Q S2	Threatened Endangered	AFS_TH-Threatened	200 400	10 S:2	0	0	1	1	0	0	0	2	2	0	0
<i>Oncorhynchus mykiss irideus pop. 49</i> steelhead - northern California DPS winter- run	G5T3Q S3	Threatened None	AFS_TH-Threatened CDFW_SSC-Species of Special Concern	16 578	96 S:10	0	0	6	3	0	1	3	7	10	0	0
<i>Packera bolanderi var. bolanderi</i> seacoast ragwort	G4T4 S2S3	None None	Rare Plant Rank - 2B.2	500 1,000	72 S:4	0	2	0	2	0	0	1	3	4	0	0
<i>Pandion haliaetus</i> osprey	G5 S4	None None	CDF_S-Sensitive CDFW_WL-Watch List IUCN_LC-Least Concern	10 1,240	504 S:75	14	24	6	2	1	28	72	3	74	1	0
<i>Pekania pennanti</i> Fisher	G5 S2S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	555 1,510	555 S:2	0	1	0	0	0	1	0	2	2	0	0
<i>Polemonium carneum</i> Oregon polemonium	G3G4 S2	None None	Rare Plant Rank - 2B.2	2,000 2,000	16 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Puccinellia pumila</i> dwarf alkali grass	G5 SH	None None	Rare Plant Rank - 2B.2	15 15	2 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Rallus obsoletus obsoletus</i> California Ridgway's rail	G3T1 S2	Endangered Endangered	CDFW_FP-Fully Protected		99 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Rana aurora</i> northern red-legged frog	G4 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	4 1,400	292 S:58	0	4	2	1	0	51	18	40	58	0	0



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<i>Rana boylei</i> pop. 1 foothill yellow-legged frog - north coast DPS	G3T4 S4	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern USFS_S-Sensitive	7 2,100	1608 S:22	4	1	0	0	0	17	10	12	22	0	0
<i>Rhyacotriton variegatus</i> southern torrent salamander	G3? S2S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFS_S-Sensitive	200 1,200	416 S:8	0	0	1	0	0	7	5	3	8	0	0
<i>Riparia riparia</i> bank swallow	G5 S3	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern	13 130	299 S:6	2	0	0	0	0	4	2	4	6	0	0
<i>Scaphinotus behrensi</i> Behrens' snail-eating beetle	G2G4 S2S4	None None		400 400	4 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Sidalcea malachroides</i> maple-leaved checkerbloom	G3 S3	None None	Rare Plant Rank - 4.2	100 1,650	136 S:28	2	4	7	10	0	5	28	0	28	0	0
<i>Sidalcea malviflora</i> ssp. <i>patula</i> Siskiyou checkerbloom	G4G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_UCSC-UC Santa Cruz	50 2,200	60 S:8	1	3	2	0	0	2	2	6	8	0	0
<i>Sidalcea oregana</i> ssp. <i>eximia</i> coast checkerbloom	G5T1 S1	None None	Rare Plant Rank - 1B.2	20 150	19 S:4	0	0	1	0	0	3	3	1	4	0	0
<i>Silene scouleri</i> ssp. <i>scouleri</i> Scouler's catchfly	G5T4T5 S2S3	None None	Rare Plant Rank - 2B.2		23 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Sitka Spruce Forest</i> Sitka Spruce Forest	G1 S1.1	None None		160 160	4 S:1	0	0	1	0	0	0	1	0	1	0	0
<i>Spergularia canadensis</i> var. <i>occidentalis</i> western sand-spurrey	G5T4 S1	None None	Rare Plant Rank - 2B.1	5 10	4 S:4	0	0	1	0	0	3	3	1	4	0	0
<i>Spirinchus thaleichthys</i> longfin smelt	G5 S1	Proposed Endangered Threatened	IUCN_LC-Least Concern	0 50	46 S:7	0	0	0	0	0	7	6	1	7	0	0
<i>Sulcaria spiralifera</i> twisted horsehair lichen	G3G4 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive	30 43	18 S:2	0	0	0	0	0	2	1	1	2	0	0
<i>Thaleichthys pacificus</i> eulachon	G5 S1	Threatened None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern		10 S:2	0	0	0	0	1	1	2	0	1	1	0



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<i>Usnea longissima</i> Methuselah's beard lichen	G4 S4	None None	Rare Plant Rank - 4.2 BLM_S-Sensitive	290 2,100	206 S:36	0	6	7	10	0	13	36	0	36	0	0
<i>Viola palustris</i> alpine marsh violet	G5 S1S2	None None	Rare Plant Rank - 2B.2	100 100	10 S:2	0	0	0	0	0	2	2	0	2	0	0