December 9, 2020



Greg Kidd Hard Yaka, Inc. P.O. Box 1186 Crystal Bay, NV 89402

Re: Biological Site Assessment at 69 Starbuck Drive, Muir Beach, Marin County (APN: 199-201-03); WRA Project #30299

Mr. Kidd,

The purpose of this letter report is to provide you the initial results of one site visit in support of the Biological Site Assessment (BSA) that WRA, Inc. conducted at 69 Starbuck Drive (APN 199-201-03), Muir Beach, Marin County, California (Study Area; Attachment A). The approximately 0.77-acre Study Area is moderately sloped and northeast-facing, and is predominantly composed of hardscaped and landscaped areas. It is WRA's understanding that you are interested in developing an accessory dwelling unit (ADU). Although WRA has not been provided with site-specific plans, the limited size of the parcel, presumed approximated footprint, and site visit results are sufficient to evaluate such a development.

This report describes the results of the site visit for which the Study Area was assessed concerning: (1) the presence of land cover types protected under local, state, and federal laws and regulations (e.g., wetlands, oak woodlands) and (2) the presence and/or potential to support special-status plants and wildlife. This report also contains an evaluation of potential impacts to sensitive land cover and special-status species that may or may not occur as a result of the proposed project.

SUMMARY OF FINDINGS

No sensitive land cover types are present, and special-status plants and most special-status wildlife do not have the potential to occur within the Study Area. A narrow Monterey cypress grove residing on the northern edge of the Study Area may support wintering roost for Monarch buttefly (*Danaus plexippus*). Additionally, other trees and large shrubs provide potential nesting substrates for non-status birds protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code (CFGC). Basic incorporation of management practices into the final project description and implementation, will prevent impacts to these species. Based on these findings, this assessment concludes that's the construction of an ADU will not result in any potentially significant adverse biological impacts to the environment.

REGULATORY BACKGROUND

The following natural resources are protected under one or more of several Federal, State and/or local regulations, and were considered when analyzing the proposed tree removal.

<u>Waters of the U.S.</u>: protected under the Clean Water Act (CWA), administered by the Environmental Protection Agency (EPA) and U.S. Army Corps of Engineers (Corps):

• Includes wetlands, streams, rivers, and other aquatic habitats meeting the guidance issued by the Corps

<u>Waters of the State</u>: protected under the Porter-Cologne Act, administered by the Regional Water Quality Control Board (RWQCB):

• Includes surface water or groundwater, including saline waters, within the boundaries of the state, and are generally delineated following the guidance issued by the Corps.

<u>Streams, Lakes, and Riparian Habitat</u>: protected under the California Fish and Game Code (CFGC), administered by the California Department of Fish and Wildlife (CDFW):

• Includes creeks and rivers (bodies where water flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life), and vegetation adjacent to associated with such (riparian habitat).

<u>Sensitive Natural Communities</u>: protected under the CFGC, administered by the CDFW:

• Includes terrestrial vegetation or plant communities that are ranked by NatureServe and considered "threatened" or "endangered" by the CDFW, lists of such are included in *List of Vegetation Alliances and Associations* (CDFG 2010).

<u>Special-status Plant and Wildlife Species including Critical Habitat</u>: protected under one or more of the Federal Endangered Species Act (ESA), California Endangered Species Act (CESA), and/or California Environmental Quality Act (CEQA), as administered by the U.S. Fish and Wildlife Service (USFWS) and/or CDFW:

- Includes plant listed under the ESA and/or CESA, or those plants ranked by the California Native Plant Society (CNPS) as Rank 1, 2, and (occasionally) 3, and 4.
- Includes wildlife listed under the ESA and/or CESA, and those wildlife listed by CDFW as Species of Special Concern or Fully Protected Species, as well as bats listed as High Priority by the Western Bat Working Group (WBWG).
- In addition to regulations for special-status species, most birds in the United States, including non-status species, have baseline legal protections under both the federal Migratory Bird Treaty Act of 1918 (MBTA) and the CFGC. Under these laws/codes, the unauthorized and deliberate "take" (essentially, injury/harm or collection) of covered species is illegal; this protection includes active nests (those with eggs or young).

<u>Marin County Stream Conservation Areas:</u> protected by the County's Countywide Plan (CWP), and administered under the design review process by the Community Development Agency Planning Department.

• A Stream Conservation Area (SCA) is designated along all natural watercourses supporting riparian vegetation for a length of 100 feet or more. The SCA consists of the watercourse itself between the tops of the banks and a strip of land extending laterally outward from the top of both banks.

 For those ephemeral streams that do not meet these criteria to be considered an SCA, a minimum 20-foot development setback is required. Development activities that may occur within a SCA or ephemeral stream setback are closely regulated by the County and require consideration of impacts of proposed developments on species and habitats during the environmental review process.

<u>Marin County Native Tree Protection and Preservation Ordinance:</u> protected under Marin County Municipal code Chapter 22.75, "Native Tree Preservation and Protection", and administered by the Community Development Agency Planning Department.

- Protected trees are defined as native oaks (*Quercus* spp.), willows (*Salix* spp.), Sargent cypress (*Hesperocyparis sargentii* [*Cupressus s.*]), and madrone (*Arbutus menziesii*) with a minimum diameter at breast height (DBH; measured 4.5 feet above grade) of six inches, and most other native tree species, including Douglas fir (*Pseudotsuga menziesii*) and California bay (*Umbellularia californica*) with a minimum DBH of 10 inches.
- Heritage trees are defined as native oaks, willows, Sargent cypress, and madrone with a minimum DBH of 16 inches, and most other native tree species with a minimum DBH of 30 inches.
- It is unlawful to remove one or more protected or heritage trees on an undeveloped lot without a tree removal permit, except as provided for in Section 22.75.050 (Exemptions) and as provided for in Section 22.75.080 (Tree Removal Permits) of the Ordinance.
- The owner of property upon which a protected tree is located may request to remove heritage or protected trees not otherwise exempt from the Ordinance by filling an application for a Tree Removal Permit application.

Tree Removal Permit conditions of approval may include planting of replacement trees at a ratio of up to three new, appropriately-sized and installed trees for each protected tree to be removed, or the payment of in-lieu fees in the amount of \$500 per replacement tree to be deposited into the Tree Preservation Fund managed by the Marin County Parks and Open Space Department.

METHODS

Prior to the site visit, background literature was reviewed to determine the potential presence of regulated land cover types (including aquatic resources), and special-status plant and wildlife species. Resources reviewed included CDFW Natural Diversity Database records (CNDDB; CDFW 2020a) and CNPS Inventory records (CNPS 2020). For special-status wildlife (specifically birds), Shuford (1993), Shuford and Gardali (2008), and Thomson et al. (2016) were also reviewed.

Following the background literature review, a qualified WRA biologist (Aaron Arthur, author) conducted a site visit on November 12, 2020. The Study Area was examined for indicators of wetlands, streams, and areas with an Ordinary High Water Mark (OHWM) potentially under the jurisdiction of the Corps, RWQCB, and CDFW, and which may be considered SCAs under the Marin CWP. The Study Area was also examined to determine if special-status species or suitable habitat to support such species was present.

RESULTS

Land Cover Types

The Study Area contains four land cover types: non-native grassland, coyote brush scrub, Ngaio tree grove, and Monterey pine grove. These land cover are illustrated in Attachment A and described below.

Developed Areas: Hardscaping and Landscaping (no vegetation alliance). CDFW Rank: Non: Non-ESHA. The majority of the Study Area has been developed or managed in either hardscape or landscape elements, totaling 0.71 acre. Hardscaping includes the existing single-family residence, driveways, walkways, decks, and other hard elements. Landscaping areas include those intentionally altered for aesthetics and buffering, as well as those areas that have been slightly fallow, but clearly managed. Species include blue blossom (*Ceanothus thyrsiflorus*), Pride-of-Madeira (*Echium candicans*), strawberry tree (*Arbutus unedo*), rosemary (*Rosmarinus officinalis*), California wax myrtle (*Morella californica*), and crimson bottlebrush (*Callistemon citrinus*). This land cover type is not considered sensitive by the CDFW or Marin County LCP.

<u>Monterey Cypress Grove (Hesperocyparis macrocarpa Semi-Natural Shrub Stands).</u> <u>CDFW Rank: None; Non-ESHA</u>¹. Monterey cypress groves are limited to coastal and Bayland sites from Humboldt County to San Diego County. These groves are frequently planted along with other landscaped plants, and are situated in built environments, coastal bluffs, and coastal hills (Calflora 2020). The Study Area contains 0.06 acre of Monterey cypress grove on the western property line. The dominant cover is Monterey cypress (*Hesperocyparis macrocarpa*), with lesser cover of Douglas fir (*Pseudotsuga menziesii*), crimson bottlebrush (*Callistemon citrinus*), and Ngaio tree (*Myoporum laetum*). Due to an extremely dense canopy, the understory is essentially bereft of an herbaceous layer. This land cover type is not considered sensitive by the CDFW or Marin County LCP.

Special-status Plant Species

A total of 38 special-status plant species have been documented within five miles of the Study Area (Figure A-2). None of these have the potential to occur in the Study Area due to one or more of the following reasons:

- Hydrologic conditions (e.g. tidal, vernal pool) necessary to support the special-status plant species are not present in the Study Area;
- Edaphic (soil) conditions (e.g. serpentine, shale) necessary to support the special-status plant species are not present in the Study Area;
- Topographic conditions (e.g. elevation range) necessary to support the special-status plant species are not present in the Study Area;
- Unique pH conditions (e.g. alkali or acidic substrates) necessary to support this species are not present in the Study Area;
- Associated vegetation communities (e.g. chaparral, coastal prairie, redwood forest) necessary to support the special-status plant species are not present in the Study Area;

¹ Naturally occurring stands are limited to the Central Coast and are considered sensitive by CDFW; groves in Marin County are not native and are not considered sensitive by CDFW or other agencies

• Land use history and contemporary management (e.g. vegetation clearing, adjacent residential development) has degraded local habitat necessary to support the special-status plant species.

Special-status Wildlife Species

A total of 24 special-status wildlife species have been documented within five miles of the Study Area (Figure A-3), of which one species, along with nesting birds protected under the MBTA, have the potential to occur within the Study Area. The potential for this species to occur within the Study Area is summarized below. The remaining 23 special-status species do not have the potential to occur within the Study Area due to one or more of the following reasons:

- Aquatic habitats (e.g. rivers/streams, ponds, estuaries) necessary to support the specialstatus wildlife species are not present in the Study Area;
- On-site aquatic habitats (e.g. seasonal wetland) is isolated/not connected to larger aquatic features to provide for migration and dispersal for special-status wildlife;
- Vegetation types (e.g. tidal marsh, chaparral) that provide nesting and/or foraging resources necessary support the special-status wildlife species are not present or within the immediate vicinity of the Study Area;
- Structures or vegetation (e.g. tules, old-growth trees) necessary to provide nesting, roosting, or cover habitat to support the special-status wildlife species are not present or within the immediate vicinity of the Study Area;
- Host plants (e.g. dog violet, harlequin lotus) necessary to provide larval and nectar resources for the special-status wildlife species are not present in the Study Area;
- The Study Area is outside (e.g. north of, west of) of the special-status wildlife species documented range (including nesting/breeding range, for birds).

A list of special-status wildlife species known to occur in the vicinity of the Study Area was compiled based on available information from CNDDB (CDFW 2020a) for the Point Bonita 7.5-minute quadrangle (USGS 2018). The following special-status wildlife species with the potential to occur in the Study Area are described below.

<u>Nesting birds (non-status), High Potential (Present)</u>. The Study Area contains vegetation (trees, shrubbery, etc.) that may be used as nesting habitat by bird species with baseline protections under the federal Migratory Bird Treaty Act (MBTA) and the California Fish and Game Code. These laws/codes apply to a wide variety of native birds, including species that are non-migratory and/or commonly found near developed areas in western Marin County. In addition to adult birds, legal protections include active nests (those with eggs or young), the deliberate destruction of which is prohibited.

<u>Monarch butterfly (Danaus plexippus) – overwintering roost sites. CDFW Species of</u> <u>Special Concern. Moderate Potential (Presence Unknown)</u>. Monarch (Danaus plexippus) is a large, showy butterfly is found throughout the United States, southern Canada, and Central America. It also occurs in parts of South America and other continents. In North America, this species spends spring and summer months breeding and foraging across much of its range. This is followed by migration in late summer/early fall to overwintering areas in both coastal California and central Mexico. Thousands to millions of monarchs will congregate on a tree or trees with nectar and water sources nearby for overwintering. Favored roosting sites are wind-protected tree groves typically composed of eucalyptus (*Eucalyptus* spp.), coastal pines (*Pinus radiata*, *P. muricata*, *P. coulteri*), Monterey cypress (*Hesperocyparis macrocarpa*), and coast redwood (*Sequoia sempervirens*) (CDFW 2020a, CEC 2009). These stands are typically a U-shaped formation, with several rows of trees and a multi-tiered canopy to protect from high winds, but allow sunlight to penetrate for warmth (CED 2009). Native milkweeds (*Asclepias* spp.) are the larval host, while nectar resources include milkweeds and a broader suite of flowering plants (CDFW 2020a, Opler, Lotts, and Naberhaus 2011). Documented roost sites are prevalent along the California Coast from Mendocino County south to San Diego County, with numerous documented occurrences in the Bolinas-Stinson Beach-Muir Beach region of Marin County (CDFW 2020a). The Monterey cypress grove may provide nominal roosting habitat for monarch butterflies; however, the lack of a U-shape, high density, short stature, and relatively young composition of trees, suggest that these trees are not prime habitat for such.

SUMMARY

Land Cover

The Study Area does not contain sensitive land cover types; therefore, there will be no impacts to such and there are no further actions recommended for land cover.

Special-status Plants

The Study Area does not have the potential to support special-status plants; therefore, there will be no impacts to such and there are no further actions recommended for special-status plants.

Special-status Wildlife

The Study Area has the potential to support one special-status wildlife species as well as nonstatus nesting birds. The following recommendations are forwarded to protect these species.

<u>Nesting birds (including special-status birds)</u>: Non-status bird species whose nesting activities are protected by federal and/or state regulations have the potential to nest within the Study Area. However, trees will not be removed or otherwise manipulated as part of the project. Therefore, there will be no impacts to nesting birds and there are no further actions recommended for such. If trees are to be removed or limbed, in order to avoid impacts to special-status and non-status birds, such activities should be conducted between September 1 and January 31, outside of the nesting bird period.

<u>Monarch butterfly</u>: Monarch butterflies (*Danaus plexippus*) have the potential to roost in the on-site Monterey cypress (*Hesperocyparis macrocarpa*) during the winter months (November through January). However, these trees will not be removed or otherwise manipulated. Therefore, there will be no impacts to roosting monarch butterfly and there are no further actions recommended for such.

Summary

Based on the site visit and review of information pertinent to the Study Area, the development of a single-family residence, with the abovementioned recommendations, will not result in impacts to sensitive land cover or to special-status plants or wildlife. If vegetation was removed outside of nesting/roosting seasons noted above to special-status/non-status nesting birds protected under the MBTA and CFGC, nor would it impact special-status bats.

Based on the evidence collected, a residence would not substantially reduce the number or restrict the range of a rare, endangered or threatened plant or animal. The project would not cause a fish or wildlife population to drop below self-sustaining levels. The project would not adversely affect riparian habitat, wetlands, marshes, or other significant wildlife habitats. The project will not result in any potentially significant adverse biological impacts to the environment.

If you have any questions or comments, please feel free to contact us.

Sincerely,

Aaron Arthur Senior Associate Biologist/Botanist

Enclosures:Attachment A – Figures
Attachment B – Observed Species List
Attachment C – CNPS & CDFW Database Results
Attachment D – Representative Photographs

REFERENCES

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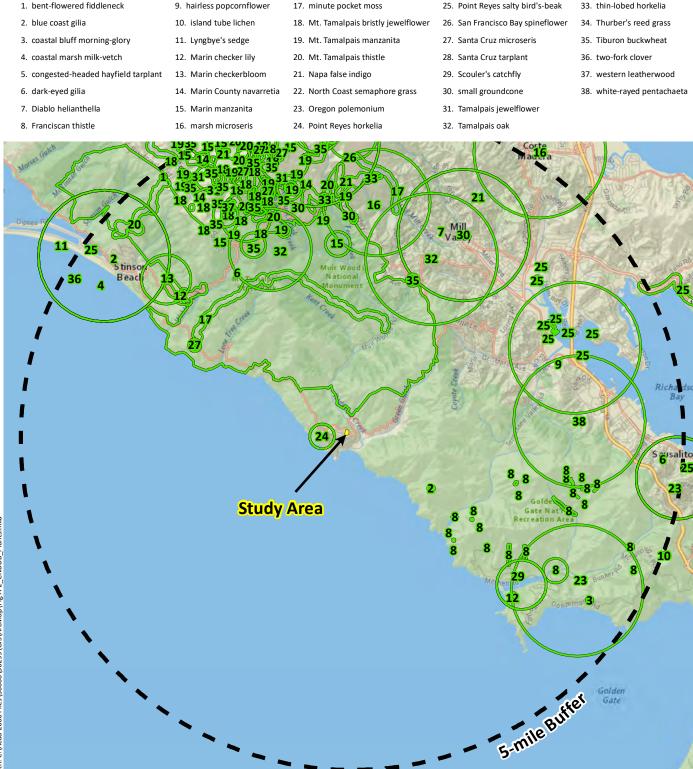
Attachment A – Figures



Figure 1. Study Area Location





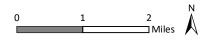


11/15-1532

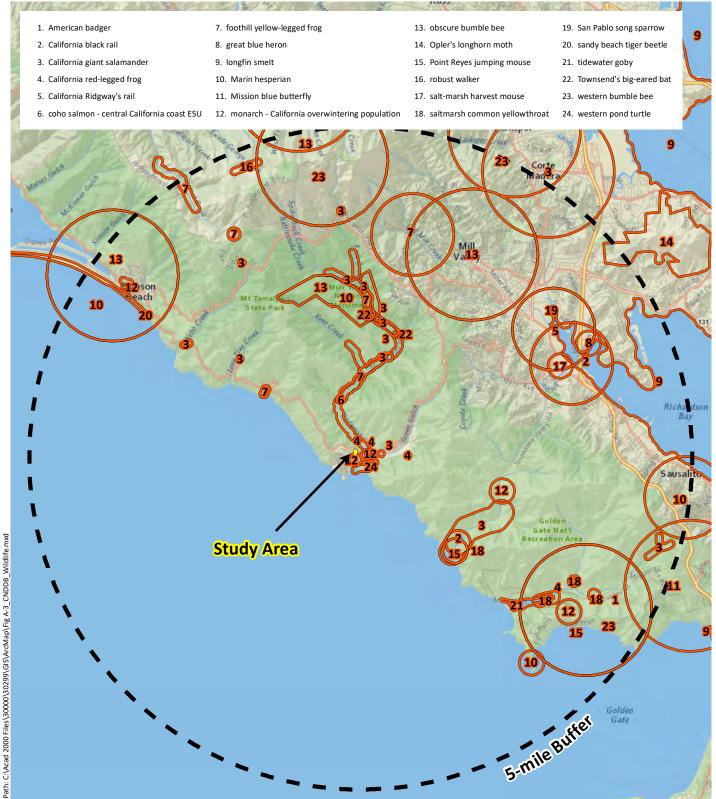
19 19 19

Sources: National Geographic, CNDDB November 2020, WRA | Prepared By: aarthur, 12/9/2020

Figure A-2. CNDDB Special-Status Plants Documented within 5 Miles of the Study Area

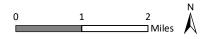






Sources: National Geographic, CNDDB November 2020, WRA | Prepared By: aarthur, 12/9/2020

Figure A-3. CNDDB Special-Status Wildlife Documented within 5 Miles of the Study Area

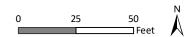






Sources: DigitalGlobe 2016 Aerial, WRA | Prepared By: aarthur, 11/25/2020

Figure A-4. Land Cover





Attachment B – Observed Species List

Family	Scientific name	Common name	Life form	Origin	Rare Status ¹	Invasive Status ²	Wetland indicator ³
Araceae	Zantedeschia aethiopica	calla lily	perennial forb	non-native		limited	OBL
Asteraceae	Baccharis pilularis	coyote brush	evergreen shrub	native			NL
Asteraceae	Cirsium vulgare	bull thistle	perennial forb	non-native		moderate	FACU
Asteraceae	Gamochaeta ustulata	featherweed	perennial forb	native			FACW
Boraginaceae	Echium candicans	Pride-of-Madeira	evergreen shrub	non-native		limited	NL
Cupressaceae	Hesperocyparis macrocarpa	Monterey cypress	evergreen tree	native			NL
Cupressaceae	Sequoia sempervirens	coast redwood	evergreen tree	native			NL
Ericaceae	Arbutus unedo	strawberry tree	evergreen tree	non-native			NL
Fabaceae	Acacia melanoxylon	blackwood acacia	evergreen tree	non-native		limited	NL
Iridaceae	Iris douglasiana	Douglas' iris	perennial forb	native			NL
Juncaceae	Juncus mexicanus	Mexican rush	perennial graminoid	native			FACW
Juncaceae	Juncus patens	common rush	perennial graminoid	native			FACW
Lamiaceae	Rosmarinus officinalis	rosemary	evergreen shrub	non-native			NL
Moraceae	Morella californica	California wax myrtle	evergreen shrub	native			FACW
Myrsinaceae	Lysimachia arvensis	scarlet pimpernel	annual forb	non-native			NL
Myrtaceae	Callistemon citrinus	crimson bottlebrush	evergreen shrub	non-native			NL
Pinaceae	Pseudotsuga menziesii	Douglas fir	evergreen tree	native			FACU
Plantaginaceae	Plantago lanceolata	English plantain	perennial forb	non-native		limited	FAC
Poaceae	Briza maxima	big rattlesnake grass	annual graminoid	non-native		limited	NL
Poaceae	Cynodon dactylon	Bermuda grass	perennial graminoid	non-native		moderate	FACU
Poaceae	Ehrharta erecta	panic veldtgrass	perennial graminoid	non-native		moderate	NL
Poaceae	Holcus lanatus	common velvet grass	perennial graminoid	non-native		moderate	FAC
Poaceae	Phalaris aquatica	harding grass	perennial graminoid	non-native		moderate	FACU
Rhamnaceae	Ceanothus thyrsiflorus	blue blossom	evergreen shrub	native			NL

Table B-1. Plant species observed in the Study Area, November 12, 2020

Family	Scientific name	Common name	Life form	Origin	Rare Status ¹	Invasive Status ²	Wetland indicator ³
Rhamnaceae	Frangula californica	California coffeeberry	evergreen shrub	native			NL
Rosaceae	Cotoneaster franchetii	orange cotoneaster	evergreen shrub	non-native		moderate	NL
Rosaceae	Prunus cerasifera	cherry plum	deciduous tree	non-native		limited	NL
Rosaceae	Rubus ursinus	California blackberry	evergreen shrub	native			FACU
Scrophulariaceae	Myoporum laetum	Ngaio tree	evergreen shrub	non-native		moderate	FACU

All species identified using the Jepson Manual, 2nd Edition (Baldwin et al. 2012) and A Flora of Sonoma County (Best et al. 1996); nomenclature follows The Jepson Flora Project (eFlora 2020) unless otherwise noted

¹Rare Status: The CNPS Inventory of Rare and Endangered Plants (CNPS 2020a)

- FE: Federal Endangered
- FT: Federal Threatened
- SE: State Endangered
- ST: State Threatened
- SR: State Rare
- Rank 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
- Rank 1B: Plants rare, threatened, or endangered in California and elsewhere
- Rank 2A: Plants presumed extirpated in California, but more common elsewhere
- Rank 2B: Plants rare, threatened, or endangered in California, but more common elsewhere
- Rank 3: Plants about which we need more information a review list
- Rank 4: Plants of limited distribution a watch list

²Invasive Status: California Invasive Plant Inventory (Cal-IPC 2006)

- High: Severe ecological impacts; high rates of dispersal and establishment; most are widely distributed ecologically.
- Moderate: Substantial and apparent ecological impacts; moderate-high rates of dispersal, establishment dependent on disturbance; limited moderate distribution ecologically
- Limited: Minor or not well documented ecological impacts; low-moderate rate of invasiveness; limited distribution ecologically
- Assessed: Assessed by Cal-IPC and determined to not be an existing current threat

³Wetland Status: National List of Plant Species that Occur in Wetlands, Arid West Region (Corps 2018)

- OBL: Almost always a hydrophyte, rarely in uplands
- FACW: Usually a hydrophyte, but occasionally found in uplands
- FAC: Commonly either a hydrophyte or non-hydrophyte
- FACU: Occasionally a hydrophyte, but usually found in uplands
- UPL: Rarely a hydrophyte, almost always in uplands
- NL: Rarely a hydrophyte, almost always in uplands
- NI: No information; not factored during wetland delineation

Attachment C – CNPS & CDFW Database Search Results





California Natural Diversity Database

Query Criteria: Quad IS (Point Bonita (3712275))
syle='color:Red'> AND Taxonomic Group IS (Fish OR Amphibians OR Reptiles OR Birds OR Amphibians OR Mollusks OR Arachnids OR Crustaceans OR Insects OR Ferns OR Gymnosperms OR Arachnids OR Gymnosperms OR Birds OR Ferns OR Gymnosperms OR Birds OR Gymnosperms OR Birds OR Gymnosperms OR Birds OR Birds OR Gymnosperms OR Birds OR Gymnosperms OR Birds OR Birds OR Birds OR Birds OR Gymnosperms OR Birds OR Lichens OR Birds OR Lichens OR Birds OR </span

Element Code	Species	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
AAAAH01020	Dicamptodon ensatus	None	None	G3	S2S3	SSC
	California giant salamander					
AAABH01022	Rana draytonii	Threatened	None	G2G3	S2S3	SSC
	California red-legged frog					
AAABH01050	Rana boylii	None	Endangered	G3	S3	SSC
	foothill yellow-legged frog					
ABNME03041	Laterallus jamaicensis coturniculus	None	Threatened	G3G4T1	S1	FP
	California black rail					
ABPAU08010	Riparia riparia	None	Threatened	G5	S2	
	bank swallow					
ABPBX1201A	Geothlypis trichas sinuosa	None	None	G5T3	S3	SSC
	saltmarsh common yellowthroat					
AFCHA02034	Oncorhynchus kisutch pop. 4	Endangered	Endangered	G4	S2	
	coho salmon - central California coast ESU					
AFCHB03010	Spirinchus thaleichthys	Candidate	Threatened	G5	S1	
	longfin smelt					
AFCQN04010	Eucyclogobius newberryi	Endangered	None	G3	S3	
	tidewater goby					
AMAFH01031	Zapus trinotatus orarius	None	None	G5T1T3Q	S1S3	SSC
	Point Reyes jumping mouse					
AMAJC03010	Eumetopias jubatus	Delisted	None	G3	S2	
	Steller (=northern) sea-lion					
AMAJF04010	Taxidea taxus	None	None	G5	S3	SSC
	American badger					
ARAAD02030	Emys marmorata	None	None	G3G4	S3	SSC
	western pond turtle					
IICOL02101	Cicindela hirticollis gravida	None	None	G5T2	S2	
	sandy beach tiger beetle					
IICOL67020	Lichnanthe ursina	None	None	G2	S2	
	bumblebee scarab beetle					
IIHYM24250	Bombus occidentalis	None	Candidate Endangered	G2G3	S1	
	western bumble bee		Lindangered			
IILEPG801A	Plebejus icarioides missionensis	Endangered	None	G5T1	S1	
	Mission blue butterfly					
IILEPP2012	Danaus plexippus pop. 1	None	None	G4T2T3	S2S3	
	monarch - California overwintering population					



Selected Elements by Element Code California Department of Fish and Wildlife California Natural Diversity Database



Element Code	Species	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
IMGASA4140	Vespericola marinensis	None	None	G2	S2	
	Marin hesperian					
PDAST2E050	<i>Cirsium andrewsii</i> Franciscan thistle	None	None	G3	S3	1B.2
PDAST470D3	Grindelia hirsutula var. maritima San Francisco gumplant	None	None	G5T1Q	S1	3.2
PDAST4R065	Hemizonia congesta ssp. congesta congested-headed hayfield tarplant	None	None	G5T2	S2	1B.2
PDAST5N010	<i>Layia carnosa</i> beach layia	Endangered	Endangered	G2	S2	1B.1
PDAST6X030	Pentachaeta bellidiflora white-rayed pentachaeta	Endangered	Endangered	G1	S1	1B.1
PDBOR0V0B0	Plagiobothrys glaber hairless popcornflower	None	None	GX	SX	1A
PDCAR0U1MC	Silene scouleri ssp. scouleri Scouler's catchfly	None	None	G5T4T5	S2S3	2B.2
PDCON040D2	Calystegia purpurata ssp. saxicola coastal bluff morning-glory	None	None	G4T2T3	S2S3	1B.2
PDPLM040B3	Gilia capitata ssp. chamissonis blue coast gilia	None	None	G5T2	S2	1B.1
PDPLM04130	<i>Gilia millefoliata</i> dark-eyed gilia	None	None	G2	S2	1B.2
PDPLM09180	Leptosiphon rosaceus rose leptosiphon	None	None	G1	S1	1B.1
PDPLM0E050	<i>Polemonium carneum</i> Oregon polemonium	None	None	G3G4	S2	2B.2
PDROS0W043	Horkelia cuneata var. sericea Kellogg's horkelia	None	None	G4T1?	S1?	1B.1
PDROS0W0B0	<i>Horkelia marinensis</i> Point Reyes horkelia	None	None	G2	S2	1B.2
PMCYP032Y0	Carex comosa bristly sedge	None	None	G5	S2	2B.1
PMLIL0V0P1	<i>Fritillaria lanceolata var. tristulis</i> Marin checker lily	None	None	G5T2	S2	1B.1
PMPON03010	Heteranthera dubia water star-grass	None	None	G5	S2	2B.2
	-					

Record Count: 36



*The database used to provide updates to the Online Inventory is under construction. <u>View updates and changes made since May 2019 here</u>.

Plant List

16 matches found. Click on scientific name for details

Search Criteria

Found in Quad 3712275

Q Modify Search Criteria Second to Excel Modify Columns 2 Modify Sort Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<u>Arabis blepharophylla</u>	coast rockcress	Brassicaceae	perennial herb	Feb-May	4.3	S4	G4
<u>Astragalus nuttallii var.</u> <u>nuttallii</u>	ocean bluff milk- vetch	Fabaceae	perennial herb	Jan-Nov	4.2	S4	G4T4
<u>Calystegia purpurata</u> <u>ssp. saxicola</u>	coastal bluff morning-glory	Convolvulaceae	perennial herb	(Mar)Apr-Sep	1B.2	S2S3	G4T2T3
<u>Castilleja ambigua var.</u> <u>ambigua</u>	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	4.2	S3S4	G4T4
Chorizanthe valida	Sonoma spineflower	Polygonaceae	annual herb	Jun-Aug	1B.1	S1	G1
<u>Cirsium andrewsii</u>	Franciscan thistle	Asteraceae	perennial herb	Mar-Jul	1B.2	S3	G3
Erysimum franciscanum	San Francisco wallflower	Brassicaceae	perennial herb	Mar-Jun	4.2	S3	G3
<u>Fritillaria lanceolata var.</u> <u>tristulis</u>	Marin checker lily	Liliaceae	perennial bulbiferous herb	Feb-May	1B.1	S2	G5T2
<u>Gilia capitata ssp.</u> <u>chamissonis</u>	blue coast gilia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G5T2
<u>Gilia millefoliata</u>	dark-eyed gilia	Polemoniaceae	annual herb	Apr-Jul	1B.2	S2	G2
<u>Grindelia hirsutula var.</u> <u>maritima</u>	San Francisco gumplant	Asteraceae	perennial herb	Jun-Sep	3.2	S1	G5T1Q
<u>Horkelia cuneata var.</u> <u>sericea</u>	Kellogg's horkelia	Rosaceae	perennial herb	Apr-Sep	1B.1	S1?	G4T1?
<u>Horkelia marinensis</u>	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	1B.2	S2	G2
Pentachaeta bellidiflora	white-rayed pentachaeta	Asteraceae	annual herb	Mar-May	1B.1	S1	G1
Polemonium carneum	Oregon polemonium	Polemoniaceae	perennial herb	Apr-Sep	2B.2	S2	G3G4
<u>Silene scouleri ssp.</u> <u>scouleri</u>	Scouler's catchfly	Caryophyllaceae	perennial herb	(Mar-May)Jun- Aug(Sep)	2B.2	S2S3	G5T4T5

Suggested Citation

California Native Plant Society, Rare Plant Program. 2020. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 24 November 2020].

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Contributors

<u>The California Database</u> <u>The California Lichen Society</u> <u>California Natural Diversity Database</u> <u>The Jepson Flora Project</u> <u>The Consortium of California Herbaria</u> <u>CalPhotos</u>

Questions and Comments

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Attachment D – Representative Photographs



Hardscaped (proposed project location) in the central eastern portion of the Study Area



Hardscaped (proposed project: foreground; residence: background) in the eastern portion of the Study Area



Landscape (neglected) area in the central portion of the Study Area



Monterey cypress grove on northern edge of the Study Area

