



October 20, 2021

Mr. Roel Nusse
473 Tennessee Lane
Palo Alto, CA 94306

Re: Biological Site Assessment for 704 B Street, Point Reyes Station, Marin County, California (APN: 119-198-33)

Mr. Nusse,

The purpose of this letter report is to provide you the results of the Biological Site Assessment (BSA) for existing conditions and assessment of potential effects to sensitive biological resources that may have resulted from project activities (see below) at 704 B Street, Point Reyes Station, Marin County (Figure A-1). This report is in response to the County of Marin June 8, 2021 code enforcement letter. The BSA site visit was conducted on July 20, 2021 by a WRA biologist familiar with sensitive biological resources of Marin County.

The purpose of this assessment letter is to provide information to the County of Marin, about the potential for the Project (see below) to have impacted sensitive biological resources, including Environmental Sensitive Habitat Areas (ESHAs); streams and Stream Conservation Areas (SCAs); wetlands and Wetland Conservation Areas (WCAs); and any special-status species associated with them. To that end, this report describes the results of the site visit for which the Study Area was assessed concerning: (1) the potential to support special-status plant and wildlife species; (2) the potential presence of sensitive biological communities such as wetlands or riparian habitats subject to regulatory agency jurisdiction; and (3) the potential presence of other sensitive biological resources protected by local, state, and federal laws and regulations.

BACKGROUND

As noted in the County letter, the Project consists of: (1) a garage conversion, (2) detached accessory structures (outbuildings), (3) bathroom additions, (4) deck, (5) hot tub, and (6) removal of interior wall. For the purposes of analyzing potential impacts to biological resources, only the exterior construction (i.e., accessory structures, deck, and hot tub) are relevant. Those activities conducted within the existing, permitted single-family are not relevant to biological resources.

The original residence was permitted (Building Permit #41043) in 1988 with the County of Marin as a 1,064 square foot three bedroom and one bathroom single-family home. The residence was subsequently expanded by an estimated 863 square feet (total 1,927 square feet), and an estimated 932 square feet¹ of outbuildings and a deck. The expansion to the residence appears to have occurred between 1988 and 1993, while the outbuildings and deck constructed between 1993 and 2016.

METHODS

A WRA, Inc. (WRA) biologist performed a BSA at the subject Study Area on July 20, 2021. Prior to the site visits, background literature, aerial photographs, and databases were reviewed to determine the potential presence of sensitive vegetation types, aquatic communities, and special-status plant and wildlife species regulated under several federal, state, and/or local ordinances. Resources reviewed for sensitive vegetation and aquatic features include aerial photography (Google Earth 2021), the Inverness USGS 7.5-minute quadrangle (USGS 2015), the California Department of Fish and Wildlife's (CDFW) California Natural Diversity Database (CNDDDB; CDFW 2021), California Native Plant Society's (CNPS) Electronic Inventory (CNPS 2021), the U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI; USFWS 2021), and the California Aquatic Resources Inventory (CARI; SFEI 2021).

The Study Area was examined for indicators of wetlands, streams, and aquatic features, that may be under the jurisdiction of the Corps, RWQCB, and CDFW, as well as considered ESHA under the CCA and Marin County Local Coastal Program (LCP). Additionally, the Study Area was examined for terrestrial land cover, both sensitive and non-sensitive. Finally, the Study Area was assessed for habitat characteristics and proximity to other habitats that may support the special-status plants and wildlife.

RESULTS

Land Cover

According to the Inverness 7.5-minute quadrangle (USGS 2015), the NWI (USFWS 2021), and the CARI (SFEI 2021), there are no aquatic features within the Study Area. Upon site inspection, the Study Area is composed entirely of developed and landscaped areas, which are not considered ESHA under the CCA/LCP; there is no evidence of wetlands, streams, or other aquatic features. Prior to the permitted development in 1988, the vast majority of the Study Area was composed of herbaceous cover (i.e., grasses, forbs), with woody cover (i.e., trees, shrubs) on the far southern edge (Figure A-2). The Study Area has continued to be devoid of woody vegetation with the exception of planted trees and shrubs (Figures A-3 and A-4). Considering the herbaceous areas within and adjacent to the Study Area are non-native grasslands, it is likely that the Study Area was upland grassland during the beginning of construction in 1988.

Special-status Species

Based upon a review of the resources noted above, 44 special-status plants and 32 special-status wildlife have been documented within the vicinity of the Study Area. Likewise, most of these species did not have the potential to occur prior the permitted construction in 1988 due to one or more of the following reasons:

¹ Based on mapping the perimeter of the building on the 2016 aerial photograph in ArcGIS

- Hydrologic conditions (e.g., vernal inundation, riverine) necessary to support the special-status plant species are not present in the Study Area
- Edaphic (soil) conditions (e.g., volcanic tuff, serpentine) necessary to support the special-status plant species are not present in the Study Area
- Topographic conditions (e.g., north-facing slope, montane) necessary to support the special-status plant species are not present in the Study Area
- Unique pH conditions (e.g., alkali scalds, acidic bogs) necessary to support the special-status plant species are not present in the Study Area
- Associated natural communities (e.g., interior chaparral, tidal marsh) necessary to support the special-status plant species are not present in the Study Area
- The Study Area is geographically isolated (e.g. below elevation, coastal environ) from the documented range of the special-status plant species
- Land use history and contemporary management (e.g., absence of mowing or grazing) has degraded the localized habitat necessary to support the special-status plant species
- Aquatic habitats (e.g., rivers, estuaries) necessary to support the special-status wildlife species are not present in the Study Area
- Vegetation habitats (e.g., coast redwood forest, chaparral) that provide nesting and/or foraging resources necessary support the special-status wildlife species are not present in the Study Area
- Physical structures and vegetation (e.g., mines, old-growth coniferous trees) necessary to provide nesting, cover, and/or foraging habitat to support the special-status wildlife species are not present in 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 nesting range

None of the special-status species have the potential or are unlikely to occur within the Study Area currently due to the lack of key habitat elements, presence of hardscape, and human activity.

CONCLUSION

The original residence was developed in 1988 within an area devoid of woody vegetation. Subsequently, the area around the residence was managed and landscaped with non-native ornamentals. And, as is the subject of this letter, outbuildings and additions were developed in the immediate vicinity of the original residence. During the site visit, there was no evidence of erosion, sediment migration, or other deleterious effects from the existing development.

Based on the evidence collected and analyzed, the additional, unpermitted development of the Study Area did not substantially impact the number or restrict the range of any special-status plant or animal. The development did not adversely affect riparian habitat, wetlands, marshes, or other significant wildlife habitats. Therefore, **it is the professional opinion of WRA that the development did not result in any potentially significant adverse impacts to biological resources.**

If you have questions or require additional information, please contact us.

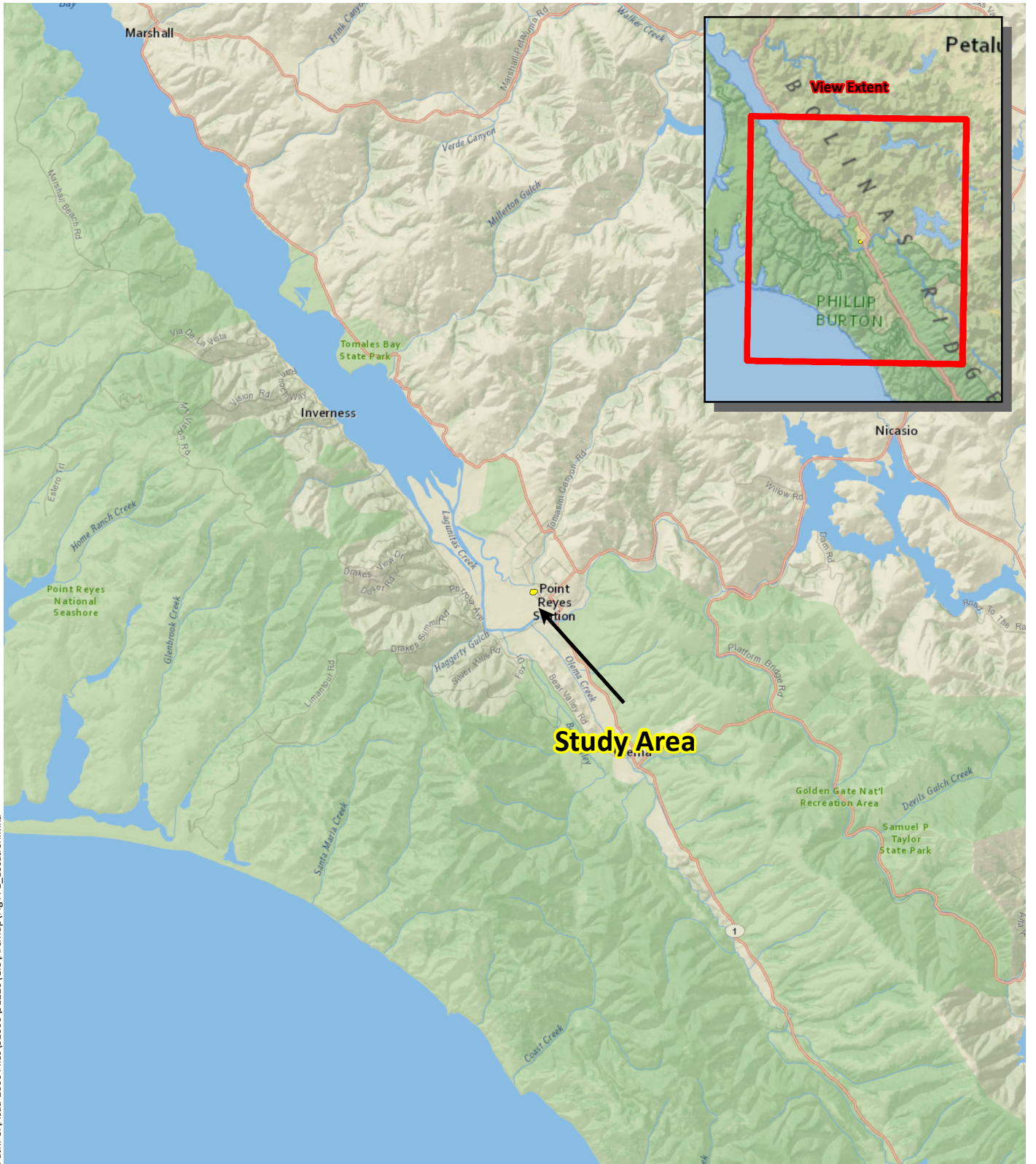
Sincerely,

A handwritten signature in black ink, appearing to read 'Aaron Arthur', written in a cursive style.

Aaron Arthur
Associated Biologist

ATTACHMENTS

- Attachment A – Figures
- Attachment B – Observed Plant List
- Attachment C – CDFW and CNPS Database Searches
- Attachment D – Study Area Photographs
- Attachment E – References

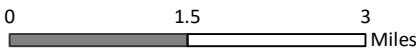


Path: C:\Acad 2000 Files\31000\31226\GIS\ArcMap\Fig A-1_Location.mxd

Sources: National Geographic, WRA | Prepared By: aarthur, 7/26/2021

Figure A-1. Study Area Location

704 B Street
Point Reyes Station, CA





Sources: DigitalGlobe 2016 Aerial, WRA | Prepared By: aarthur, 10/20/2021

Figure A-2. Study Area (1988 Aerial Photograph)

704 B Street
Point Reyes Station, CA





Sources: DigitalGlobe 2016 Aerial, WRA | Prepared By: aarthur, 10/20/2021

Figure A-3. Study Area (1993 Aerial Photograph)

704 B Street
Point Reyes Station, CA





Figure A-4. Study Area (2016 Aerial Photograph)

704 B Street
Point Reyes Station, CA

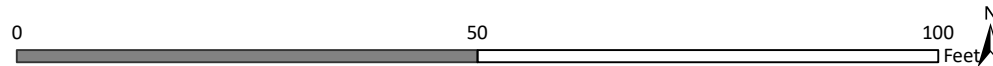


Table B-1. Plant species observed in the Study Area, July 20, 2021

Family	Scientific name	Common name	Life form	Origin	Rare Status ¹	Invasive Status ²	Wetland indicator ³
Apiaceae	<i>Torilis arvensis</i>	hedge parsley	annual forb	non-native	--	moderate	NL
Araliaceae	<i>Hedera helix</i>	English ivy	evergreen vine	non-native	--	high	NL
Asteraceae	<i>Cirsium vulgare</i>	bull thistle	perennial forb	non-native	--	moderate	FACU
Asteraceae	<i>Helminthotheca echioides</i>	bristly ox-tongue	perennial forb	non-native	--	limited	FAC
Asteraceae	<i>Sonchus asper</i>	prickly sow thistle	annual forb	non-native	--	assessed	FAC
Brassicaceae	<i>Brassica nigra</i>	black mustard	annual forb	non-native	--	moderate	NL
Brassicaceae	<i>Raphanus sativus</i>	wild radish	perennial forb	non-native	--	limited	NL
Convolvulaceae	<i>Convolvulus arvensis</i>	field bindweed	perennial forb	non-native	--	assessed	NL
Fagaceae	<i>Quercus agrifolia</i>	coast live oak	evergreen tree	native	--	--	NL
Geraniaceae	<i>Geranium dissectum</i>	cutleaf geranium	annual forb	non-native	--	moderate	NL
Geraniaceae	<i>Geranium robertianum</i>	Robert's geranium	annual forb	non-native	--	assessed	NL
Myrsinaceae	<i>Lysimachia arvensis</i>	scarlet pimpernel	annual forb	non-native	--	--	NL
Papaveraceae	<i>Eschscholzia californica</i>	California poppy	perennial forb	native	--	--	NL
Plantaginaceae	<i>Plantago major</i>	common plantain	perennial forb	non-native	--	--	FAC
Poaceae	<i>Avena barbata</i>	wild oat	annual graminoid	non-native	--	moderate	NL
Poaceae	<i>Bromus carinatus</i>	California brome	perennial graminoid	native	--	--	NL
Poaceae	<i>Bromus diandrus</i>	rip-gut brome	annual graminoid	non-native	--	moderate	NL
Poaceae	<i>Bromus hordeaceus</i>	soft chess	annual graminoid	non-native	--	limited	FACU
Poaceae	<i>Cynodon dactylon</i>	Bermuda grass	perennial graminoid	non-native	--	moderate	FACU
Poaceae	<i>Festuca perennis</i>	Italian rye grass	annual graminoid	non-native	--	moderate	FAC
Polygonaceae	<i>Rumex acetosella</i>	sheep sorrel	perennial forb	non-native	--	moderate	FACU
Rosaceae	<i>Rubus armeniacus</i>	Himalayan blackberry	evergreen shrub	non-native	--	high	FAC

All species identified using the *Jepson Manual, 2nd Edition* (Baldwin et al. 2012), *The Jepson Flora Project* (eFlora 2021) and *Marin Flora* (Howell et al. 2007); nomenclature follows *The Jepson Flora Project* (eFlora 2021) unless otherwise noted

Sp.: “species”, intended to indicate that the observer was confident in the identity of the genus but uncertain which species
Cf.: “confer” or “compared with”, intended to indicate a species appeared to the observer to be specific, but was not identified based on diagnostic characters

¹Rare Status: The CNPS Inventory of Rare and Endangered Plants (CNPS 2021a)

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



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



Query Criteria: Quad IS (Inverness (3812217))
 AND Taxonomic Group IS (Fish OR Amphibians OR Reptiles OR Birds OR Mammals OR Mollusks OR Arachnids OR Crustaceans OR Insects OR Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes)

Element Code	Species	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
AAAAH01020	<i>Dicamptodon ensatus</i> California giant salamander	None	None	G3	S2S3	SSC
AAABH01022	<i>Rana draytonii</i> California red-legged frog	Threatened	None	G2G3	S2S3	SSC
AAABH01050	<i>Rana boylei</i> foothill yellow-legged frog	None	Endangered	G3	S3	SSC
ABNGA04010	<i>Ardea herodias</i> great blue heron	None	None	G5	S4	
ABNGA04040	<i>Ardea alba</i> great egret	None	None	G5	S4	
ABNKC01010	<i>Pandion haliaetus</i> osprey	None	None	G5	S4	WL
ABNME01010	<i>Coturnicops noveboracensis</i> yellow rail	None	None	G4	S1S2	SSC
ABNME03041	<i>Laterallus jamaicensis coturniculus</i> California black rail	None	Threatened	G3G4T1	S1	FP
ABNNB03031	<i>Charadrius nivosus nivosus</i> western snowy plover	Threatened	None	G3T3	S2	SSC
ABPBX03010	<i>Setophaga petechia</i> yellow warbler	None	None	G5	S3S4	SSC
ABPBX1201A	<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	None	None	G5T3	S3	SSC
AFCHA02034	<i>Oncorhynchus kisutch pop. 4</i> coho salmon - central California coast ESU	Endangered	Endangered	G5T2T3Q	S2	
AFCHA0209G	<i>Oncorhynchus mykiss irideus pop. 8</i> steelhead - central California coast DPS	Threatened	None	G5T2T3Q	S2S3	
AFCHB03010	<i>Spirinchus thaleichthys</i> longfin smelt	Candidate	Threatened	G5	S1	
AFCJB19022	<i>Lavinia symmetricus ssp. 2</i> Tomales roach	None	None	G4T2T3	S2	SSC
AFCQN04010	<i>Eucyclogobius newberryi</i> tidewater goby	Endangered	None	G3	S3	
AMACC02010	<i>Lasionycteris noctivagans</i> silver-haired bat	None	None	G3G4	S3S4	
AMACC05030	<i>Lasiurus cinereus</i> hoary bat	None	None	G3G4	S4	



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
AMACC05060	<i>Lasiurus blossevillii</i> western red bat	None	None	G4	S3	SSC
AMACC08010	<i>Corynorhinus townsendii</i> Townsend's big-eared bat	None	None	G4	S2	SSC
AMACC10010	<i>Antrozous pallidus</i> pallid bat	None	None	G4	S3	SSC
AMAF01012	<i>Aplodontia rufa phaea</i> Point Reyes mountain beaver	None	None	G5T2	S2	SSC
AMAFJ01010	<i>Erethizon dorsatum</i> North American porcupine	None	None	G5	S3	
AMAJF04010	<i>Taxidea taxus</i> American badger	None	None	G5	S3	SSC
ARAAD02030	<i>Emys marmorata</i> western pond turtle	None	None	G3G4	S3	SSC
ICBRA06010	<i>Linderiella occidentalis</i> California linderiella	None	None	G2G3	S2S3	
ICMAL27010	<i>Syncaris pacifica</i> California freshwater shrimp	Endangered	Endangered	G2	S2	
IICOL67020	<i>Lichnanthe ursina</i> bumblebee scarab beetle	None	None	G2	S2	
IIHYM24250	<i>Bombus occidentalis</i> western bumble bee	None	Candidate Endangered	G2G3	S1	
IIHYM24380	<i>Bombus caliginosus</i> obscure bumble bee	None	None	G4?	S1S2	
IIOD072010	<i>Ischnura gemina</i> San Francisco forktail damselfly	None	None	G2	S2	
IMGASA4140	<i>Vespericola marinensis</i> Marin hesperian	None	None	G2	S2	
NBMUS7S010	<i>Triquetrella californica</i> coastal triquetrella	None	None	G2	S2	1B.2
NLT0032640	<i>Hypogymnia schizidiata</i> island tube lichen	None	None	G2G3	S2	1B.3
PDAP10M051	<i>Cicuta maculata var. bolanderi</i> Bolander's water-hemlock	None	None	G5T4T5	S2?	2B.1
PDAP119030	<i>Lilaeopsis masonii</i> Mason's lilaeopsis	None	Rare	G2	S2	1B.1
PDAST2E050	<i>Cirsium andrewsii</i> Franciscan thistle	None	None	G3	S3	1B.2
PDAST4R065	<i>Hemizonia congesta ssp. congesta</i> congested-headed hayfield tarplant	None	None	G5T2	S2	1B.2
PDAST5L0C5	<i>Lasthenia californica ssp. macrantha</i> perennial goldfields	None	None	G3T2	S2	1B.2



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
PDAST6E0D0	<i>Microseris paludosa</i> marsh microseris	None	None	G2	S2	1B.2
PDBRA160E3	<i>Erysimum concinnum</i> bluff wallflower	None	None	G3	S2	1B.2
PDBRA2G0J2	<i>Streptanthus glandulosus ssp. pulchellus</i> Mt. Tamalpais bristly jewelflower	None	None	G4T2	S2	1B.2
PDCAM02060	<i>Campanula californica</i> swamp harebell	None	None	G3	S3	1B.2
PDERI041K0	<i>Arctostaphylos virgata</i> Marin manzanita	None	None	G2	S2	1B.2
PDFAB0F7B2	<i>Astragalus pycnostachyus var. pycnostachyus</i> coastal marsh milk-vetch	None	None	G2T2	S2	1B.2
PDFAB40040	<i>Trifolium amoenum</i> two-fork clover	Endangered	None	G1	S1	1B.1
PDHYD0C2B1	<i>Phacelia insularis var. continentis</i> North Coast phacelia	None	None	G2T2	S2	1B.2
PDMAL11012	<i>Sidalcea calycosa ssp. rhizomata</i> Point Reyes checkerbloom	None	None	G5T2	S2	1B.2
PDNYC010N4	<i>Abronia umbellata var. breviflora</i> pink sand-verbena	None	None	G4G5T2	S2	1B.1
PDPGN0L1C0	<i>Polygonum marinense</i> Marin knotweed	None	None	G2Q	S2	3.1
PDPLM040B3	<i>Gilia capitata ssp. chamissonis</i> blue coast gilia	None	None	G5T2	S2	1B.1
PDPLM040B9	<i>Gilia capitata ssp. tomentosa</i> woolly-headed gilia	None	None	G5T2	S2	1B.1
PDRHA040F7	<i>Ceanothus gloriosus var. porrectus</i> Mt. Vision ceanothus	None	None	G4T2	S2	1B.3
PDROS0W0B0	<i>Horkelia marinensis</i> Point Reyes horkelia	None	None	G2	S2	1B.2
PDSCR0D402	<i>Castilleja ambigua var. humboldtiensis</i> Humboldt Bay owl's-clover	None	None	G4T2	S2	1B.2
PDSCR0J0C3	<i>Chloropyron maritimum ssp. palustre</i> Point Reyes salty bird's-beak	None	None	G4?T2	S2	1B.2
PDSCR2T010	<i>Triphysaria floribunda</i> San Francisco owl's-clover	None	None	G2?	S2?	1B.2
PDTHY03010	<i>Dirca occidentalis</i> western leatherwood	None	None	G2	S2	1B.2
PMALI040Q0	<i>Sagittaria sanfordii</i> Sanford's arrowhead	None	None	G3	S3	1B.2
PMCYP037Y0	<i>Carex lyngbyei</i> Lyngbye's sedge	None	None	G5	S3	2B.2



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
PMLIL0V0C0	<i>Fritillaria liliacea</i> fragrant fritillary	None	None	G2	S2	1B.2
PMLIL0V0P1	<i>Fritillaria lanceolata var. tristulis</i> Marin checker lily	None	None	G5T2	S2	1B.1
PMLIL1A0C0	<i>Lilium maritimum</i> coast lily	None	None	G2	S2	1B.1
PMPOA04060	<i>Agrostis blasdalei</i> Blasdale's bent grass	None	None	G2	S2	1B.2
PMPOA07012	<i>Alopecurus aequalis var. sonomensis</i> Sonoma alopecurus	Endangered	None	G5T1	S1	1B.1
PMPON03010	<i>Heteranthera dubia</i> water star-grass	None	None	G5	S2	2B.2

Record Count: 66

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44 matches found. Click on scientific name for details

Search Criteria: Quad is one of [3812217]

Scientific Name	Common Name	Family	Lifeform	Blooming Period	Fed List	State List	Global Rank	State Rank
CA Rare Plant Rank	General Habitats	Micro Habitats	Lowest Elevation	Highest Elevation	CA Endemic	Date Added	Photo	

Search:

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK
Abronia umbellata var. breviflora	pink sand-verbena	Nyctaginaceae	perennial herb	Jun-Oct	None	None	G4G5T2	S2	1B.1
Agrostis blasdalei	Blasdale's bent grass	Poaceae	perennial rhizomatous herb	May-Jul	None	None	G2	S2	1B.2
Alopecurus aequalis var. sonomensis	Sonoma alopecurus	Poaceae	perennial herb	May-Jul	FE	None	G5T1	S1	1B.1
Arabis blepharophylla	coast rockcress	Brassicaceae	perennial herb	Feb-May	None	None	G4	S4	4.3
Arctostaphylos virgata	Marin manzanita	Ericaceae	perennial evergreen shrub	Jan-Mar	None	None	G2	S2	1B.2
Astragalus pycnostachyus var. pycnostachyus	coastal marsh milk-vetch	Fabaceae	perennial herb	(Apr)Jun-Oct	None	None	G2T2	S2	1B.2
Campanula californica	swamp harebell	Campanulaceae	perennial rhizomatous herb	Jun-Oct	None	None	G3	S3	1B.2
Carex lyngbyei	Lyngbye's sedge	Cyperaceae	perennial rhizomatous herb	Apr-Aug	None	None	G5	S3	2B.2
Castilleja ambigua var. ambigua	johnny-nip	Orobanchaceae	annual herb (hemiparasitic)	Mar-Aug	None	None	G4T4	S3S4	4.2
Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	Apr-Aug	None	None	G4T2	S2	1B.2
Ceanothus gloriosus var. exaltatus	glory brush	Rhamnaceae	perennial evergreen shrub	Mar-Jun(Aug)	None	None	G4T4	S4	4.3
Ceanothus gloriosus var. gloriosus	Point Reyes ceanothus	Rhamnaceae	perennial evergreen shrub	Mar-May	None	None	G4T4	S4	4.3
Ceanothus gloriosus var. porrectus	Mt. Vision ceanothus	Rhamnaceae	perennial evergreen shrub	Feb-May	None	None	G4T2	S2	1B.3
Chloropyron maritimum ssp. palustre	Point Reyes salty bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Oct	None	None	G4?T2	S2	1B.2

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>FAMILY</u>	<u>LIFEFORM</u>	<u>PERIOD</u>	<u>FED LIST</u>	<u>STATE LIST</u>	<u>GLOBAL RANK</u>	<u>STATE RANK</u>	<u>RARE PLANT RANK</u>
<u><i>Cicuta maculata</i> var. <i>bolanderi</i></u>	Bolander's water-hemlock	Apiaceae	perennial herb	Jul-Sep	None	None	G5T4T5	S2?	CA 2B.1
<u><i>Cirsium andrewsii</i></u>	Franciscan thistle	Asteraceae	perennial herb	Mar-Jul	None	None	G3	S3	1B.2
<u><i>Dirca occidentalis</i></u>	western leatherwood	Thymelaeaceae	perennial deciduous shrub	Jan-Mar(Apr)	None	None	G2	S2	1B.2
<u><i>Elymus californicus</i></u>	California bottle-brush grass	Poaceae	perennial herb	May-Aug(Nov)	None	None	G4	S4	4.3
<u><i>Erigeron biolettii</i></u>	streamside daisy	Asteraceae	perennial herb	Jun-Oct	None	None	G3?	S3?	3
<u><i>Erysimum concinnum</i></u>	bluff wallflower	Brassicaceae	annual/perennial herb	Feb-Jul	None	None	G3	S2	1B.2
<u><i>Fritillaria lanceolata</i> var. <i>tristulis</i></u>	Marin checker lily	Liliaceae	perennial bulbiferous herb	Feb-May	None	None	G5T2	S2	1B.1
<u><i>Fritillaria liliacea</i></u>	fragrant fritillary	Liliaceae	perennial bulbiferous herb	Feb-Apr	None	None	G2	S2	1B.2
<u><i>Gilia capitata</i> ssp. <i>chamissonis</i></u>	blue coast gilia	Polemoniaceae	annual herb	Apr-Jul	None	None	G5T2	S2	1B.1
<u><i>Gilia capitata</i> ssp. <i>tomentosa</i></u>	woolly-headed gilia	Polemoniaceae	annual herb	May-Jul	None	None	G5T2	S2	1B.1
<u><i>Hemizonia congesta</i> ssp. <i>congesta</i></u>	congested-headed hayfield tarplant	Asteraceae	annual herb	Apr-Nov	None	None	G5T2	S2	1B.2
<u><i>Heteranthera dubia</i></u>	water star-grass	Pontederiaceae	perennial herb (aquatic)	Jul-Oct	None	None	G5	S2	2B.2
<u><i>Horkelia marinensis</i></u>	Point Reyes horkelia	Rosaceae	perennial herb	May-Sep	None	None	G2	S2	1B.2
<u><i>Hosackia gracilis</i></u>	harlequin lotus	Fabaceae	perennial rhizomatous herb	Mar-Jul	None	None	G3G4	S3	4.2
<u><i>Hypogymnia schizidiata</i></u>	island rock lichen	Parmeliaceae	foliose lichen		None	None	G2G3	S2	1B.3
<u><i>Lasthenia californica</i> ssp. <i>macrantha</i></u>	perennial goldfields	Asteraceae	perennial herb	Jan-Nov	None	None	G3T2	S2	1B.2
<u><i>Leptosiphon acicularis</i></u>	bristly leptosiphon	Polemoniaceae	annual herb	Apr-Jul	None	None	G4?	S4?	4.2
<u><i>Leptosiphon grandiflorus</i></u>	large-flowered leptosiphon	Polemoniaceae	annual herb	Apr-Aug	None	None	G3G4	S3S4	4.2
<u><i>Lilaeopsis masonii</i></u>	Mason's lilaeopsis	Apiaceae	perennial rhizomatous herb	Apr-Nov	None	CR	G2	S2	1B.1
<u><i>Lilium maritimum</i></u>	coast lily	Liliaceae	perennial bulbiferous herb	May-Aug	None	None	G2	S2	1B.1
<u><i>Microseris paludosa</i></u>	marsh microseris	Asteraceae	perennial herb	Apr-Jun(Jul)	None	None	G2	S2	1B.2
<u><i>Phacelia insularis</i> var. <i>continentis</i></u>	North Coast phacelia	Hydrophyllaceae	annual herb	Mar-May	None	None	G2T2	S2	1B.2
<u><i>Polygonum marinense</i></u>	Marin knotweed	Polygonaceae	annual herb	(Apr)May-Aug(Oct)	None	None	G2Q	S2	3.1
<u><i>Ranunculus lobbii</i></u>	Lobb's aquatic buttercup	Ranunculaceae	annual herb (aquatic)	Feb-May	None	None	G4	S3	4.2

SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFE FORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK
<i>Sagittaria sanfordii</i>	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Jun	None	None	G3	S3	1B.2
<i>Sidalcea calycosa</i> ssp. <i>rhizomata</i>	Point Reyes checkerbloom	Malvaceae	perennial rhizomatous herb	Apr-Sep	None	None	G5T2	S2	1B.2
<i>Streptanthus glandulosus</i> ssp. <i>pulchellus</i>	Mt. Tamalpais bristly jewelflower	Brassicaceae	annual herb	May-Jul(Aug)	None	None	G4T2	S2	1B.2
<i>Trifolium amoenum</i>	two-fork clover	Fabaceae	annual herb	Apr-Jun	FE	None	G1	S1	1B.1
<i>Triphysaria floribunda</i>	San Francisco owl's-clover	Orobanchaceae	annual herb	Apr-Jun	None	None	G2?	S2?	1B.2
<i>Triquetrella californica</i>	coastal triquetrella	Pottiaceae	moss		None	None	G2	S2	1B.2

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Landscaped area in the western edge of the Study Area; fence-line is edge of subject parcel



Landscaped (foreground) and developed (background) areas in the northern portion of the Study Area



Outbuilding in the northwestern portion of the developed area



Deck, residence, and outbuilding in the developed area

Attachment E – References

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