

# Exhibit D

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Matt Hubbard  
480 Gate 5 Road, Suite 100  
Sausalito, CA 94965

October 4, 2024

Re: Casita Cypress Biological assessment updated 09/27/2024

Dear Matt,

As requested, I have completed an on-site assessment of Biological Resources on the 1.388-acre Casita Cypress property, APN 008-453-017 at 1455 Cypress Drive

### Summary

The Owners of Casita Cypress have asked for a biological assessment of their property at 1455 Cypress Drive in Pebble Beach Ca. The property has an existing 2,446 square-foot, 48-year-old single family residence with an attached 440 square foot garage and two full-sized tennis courts on the east side of the lot. A redesign of part of the property landscape and hardscape including a revision to recreational areas, and the driveway entrance is being proposed. (See Bliss Landscape Architecture {BLA} Plan sheets included with this report in the submittal) Other than the two unique Monterey peninsula native Trees, the Monterey Cypress and Monterey Pine, no special status (Rare, Threatened or Endangered) plants or animals were observed on the property. Two trees have been removed under separate permit, one a 12" dbh Coast live oak, outside the current fence line at the Southern point of the lot, and one, a 12" Monterey Pine in a crowded stand of similarly sized pines along the southeastern fence line near the new driveway entry. Both trees were dead. These trees are being mitigated for in the landscape plan with two Coast Live oaks and one Monterey Cypress tree. See arborists report from Chris Stewart, Urban Tree Management with submittal package. No Monterey Cypress or Special status plants or animals will be significantly impacted by the proposed project.

1455 Cypress Drive is at the western edge of the Monterey Peninsula within the Del Monte Forest Local coastal program segment of the of the California Coastal Act, in the Monterey Quadrangle of the USGS. The lot is roughly rectangular shaped with the four corners pointing north, south, east and west and the long sides of the rectangle running NE to S. The lot is bordered on the SW side by Cypress Drive, and the West by Cabrillo Road . This lot shares property lines with neighbors on its NW and East sides. This is a heavily developed section of Pebble Beach. This part of the Peninsula is directly adjacent to one of only two known natural populations of the Monterey Cypress (*Hesperocyparis macrocarpa*) in the world and many trees are present on the property, but they are in a mixed evergreen woodland with Coast Live Oak (*Quercus agrifolia*) and Monterey Pine (*Pinus radiata*) and nonnative Eucalyptus and Acacia. Several of the Cypress trees are clearly from row planting along the sides of the tennis courts. The most significant and possibly native origin Cypress trees are just outside the property line in the SW corner of the lot. The canopy of these trees extends into the lot but the understory inside and outside the fence there is sparse and consists of weeds and introduced landscape plants. This site has been thoroughly altered horticulturally from end to end and has no obvious natural Cypress stand within it. Along the frontage of Cypress Drive there are

several clusters of mature Monterey Cypress with recently planted small Cypress trees in open areas between them where heavy layers of shredded wood chips have been laid down. In contrast, across the road to the South and West are nearly pure stands of Monterey Cypress. Monterey Cypress Forest is considered an Environmentally Sensitive Habitat Area (ESHA) and is afforded protection under both the Coastal Act and the California Endangered Species Act (CESA).

Research and pertinent policies.

The Del Monte Forest Land Use Plan identifies much of the area within the LUP boundaries as Environmentally sensitive habitat areas (or ESHAs). ESHA's in the Del Monte Forest are defined as those areas in which plant or animal life or their habitats are either rare or especially valuable due to their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments. The Coastal Act provides strong protection for environmentally sensitive habitat areas and within such areas permits only resource-dependent uses (e.g., nature education and research) that do not result in any significant disruption of habitat values. The Act also requires that any development adjacent to environmentally sensitive habitat areas be properly sited and designed to avoid impacts that would significantly degrade such habitat areas

20. Indigenous Monterey cypress habitat is an environmentally sensitive habitat area within the Del Monte Forest. All use and development in or adjacent to indigenous Monterey cypress habitat areas shall be compatible with the objective of protecting this environmentally sensitive coastal resource. All improvements (such as structures and driveways, etc.) shall be carefully sited and designed to avoid potential damage or degradation of Monterey cypress habitat, including the microhabitat of individual cypress trees, and must be located within existing hardscaped areas and outside of the dripline of individual cypress trees. Within the perimeter of the identified habitat area for a site, including at a minimum as defined by the driplines of the outermost indigenous Monterey cypress trees on the site, removal of native trees or other indigenous vegetation, grading, paving, building construction activity, landscape alterations and summer watering shall be prohibited. Open space conservation and scenic easements are required for all undeveloped areas of a parcel within the Monterey cypress habitat area, and such easements shall be secured consistent with Policy 13.

Prior to my first visit I conducted Database searches through the California Native Plant Society Rare Plant Inventory and the California a Natural diversity Database for Special Status (Rare, Threatened or Endangered) Plants and wildlife and Plant communities in the Monterey Quadrangle. The results of those searches are included as appendices to this report. Based on the location and plant community known on the project site I was able to eliminate those plant species found only at higher elevations or further inland or in freshwater aquatic habitats. ESHA can be defined by the Individual species that it hosts, or the uniqueness of the plant community itself. In this case, while the naturally occurring Monterey Cypress Forest is extremely rare, the plant community, unlike nearby Dune and Coastal Bluff scrub plant communities, does not typically host many other rare, threatened, or endangered species. The ESHA classification is entirely focused on the Cypress Forest and its

individual trees. Notes in the database table indicate what species are likely to occur in this fragmented habitat at this elevation.

Monterey cypress occurs in two natural stands in Monterey County, California. One stand, known as the Crocker Grove, is between Point Cypress and Pescadero Point on the north side of Carmel Bay, Monterey Peninsula. A smaller one is near Point Lobos on the south side of Carmel Bay. Monterey cypress is the dominant component of the Monterey cypress forest community. This community is a moderately dense, fire-maintained forest up to 82 feet tall in sheltered areas.

Monterey cypress typically grows in pure stands with an understory of scattered dwarf shrubs and perennial herbs. It intergrades with northern coastal bluff scrub on exposed seaward edges and with Monterey pine (*Pinus radiata*) forest away from the ocean. The mix on the Casita Cypress lot does not have a dominant species and would not be classified as Monterey Cypress Forest. Monterey cypress is associated with closed-cone coniferous woodlands and closed-cone pine-cypress forests. Species commonly associated with Monterey cypress include seaside daisy (*Erigeron glaucus*), California sagebrush (*Artemisia californica*), coyote brush (*B. pilularis* var. *consanguinea*), blue blossom (*Ceanothus thrysiflorus* var. *thrysiflorus*), liveforever (*Dudleya farinosa*), lizard tail (*Eriophyllum staechadifolium*), Douglas iris (*Iris douglasiana*), bush monkeyflower (*Diplacus aurantiacus*), Pacific bayberry (*Myrica californica*), skunkweed (*Navarretia squarrosa*), poison-oak (*Toxicodendron diversilobum*), and California huckleberry (*Vaccinium ovatum*). The limited area of Monterey Cypress understory at 1455 Cypress Drive contains only a couple blue blossom shrubs (*Ceanothus thrysiflorus* variety *thrysiflorus*) with the rest being nonnative invasive weeds or landscape material and a handful of planted native selections and species.

### Observations

On September 18, 2023 and April 16 and April 22, 2024, I visited the Casita Cypress property to see the layout of the existing development and survey the entire property for sensitive plant and animal species and plant communities. The initial September visit was not the best time of year to do floristic surveys in California. Most of the special status plant species found along the Coast flower earlier in the year and 100 percent certainty of presence or absence of a plant species can only be confirmed when those plants are in bloom. The April visits allowed for the best opportunity to identify any of the special status annual or perennial species that could occur on the property. During my survey visits I walked the entire property, starting near the single-family residence on the west end and progressing throughout the property around the perimeter and through the midsection. Between the house, the tennis court, the driveway and auto court much of the property is covered by hardscape. Where it is not, the vegetation is at least 90% nonnative.

Around the house, extensive landscape planting is dominated by trees and shrubs (and weeds) of other Mediterranean regions of the world. This includes some of the most successful – ultimately invasive plants along the Central Coast. Blackwood acacia (*Acacia melanoxylon*\*), Pride of Madeira (*Echium fastuosum*\*), French broom (*Genista monspessulana*\*), Butterfly bush (*Buddleia davidii*\*), Ngaio tree (*Myoporum laetum*\*), Coast Statice (*Limonium perezii*\*), English Ivy (*Hedera helix*\*), New Zealand flax (*Phormium tenax*) Santa Barbara daisy (*Erigeron karvinskianus*\*), Jade Plant (*Crassula*

ovata\*), Panic Veldt grass (*Ehrharta erecta\**), Society garlic (*Tulbaghia violacea*), Sweet pea shrub (*Polygala myrtifolia*) Juniper (*Juniperus* sp.) Smoke tree (*Cotinus coggygria*) and Coast Rosemary (*Westringia fruticosa*). Several of these landscape plants are considered invasive on the Central Coast and are recommended for removal from areas that interface with native habitat. The “success” of these plants makes them easy care landscape plants but a threat to native plant species by their spread, and to native wildlife in their limited value as forage plants for insects, birds or mammals. The coastal climate is ideal for the naturalization of many of these plants and their inclusion in landscapes in the Coastal zone has allowed them to spread and competed with native species to the detriment of the habitat.

Native plants are infrequent on the property and scattered primarily in the SW corner under some of the remaining native Monterey Cypress, Monterey Pine and Coast Live oak trees. A few typical understory species including Woodland Strawberry (*Fragaria vesca*) Yerba buena (*Clinopodium douglasii*), Douglas’ Iris (*Iris douglasiana*), Sedge (*Carex* sp.), Blue wild rye (*Elymus glaucus*), Blue blossom (*Ceanothus thrysiflorus* variety *thrysiflorus*) and California coffeeberry (*Frangula californica*) are found in filtered light under the tree canopy next to the fence line along Cypress Drive, but in very limited numbers. A few native selections or cultivar landscape plants are found in the beds and borders around the house including a large manicured (Lolli popped) *Ceanothus* ‘Ray Hartman’, Giant chain fern and Western Sword fern.

The Monterey Cypress Forest likely occupied an area in the Southwestern portion of the property prior to the original development, but mature Coast Live oaks on the northern portion and neighboring lots could well indicate that the inland boundary of the Cypress Forest could have been closer to Cypress Drive. A cluster of old Cypress trees at the SE corner and several old decaying trunks of substantial girth may mark the northern extent of the forest in this area. The understory in each of the two small pockets of remaining Cypress trees is very limited with mostly weeds and lots of recently deposited wood chip mulch. While there are many young “volunteer” seedlings of Monterey Cypress and Monterey Pine, none of the common understory species like Seaside daisy (*Erigeron glaucus*) or Woodmint (*Stachys bullata*), are found anywhere on the property. Recent efforts at replanting Cypress seedlings in areas along the Cypress Drive driveway entrance show signs of stress from either lack of water or too much wood mulch piled up on the stems (trunks)

The Monterey Cypress Forest and associated native understory species at Casita Cypress were not likely very widespread originally. The coast Live Oak and Monterey Pines on site are comparable and indicative of higher terraces on the peninsula but are now spread out and fragmented by the landscape trees and shrubs with hardscape, or structures between the fragments. There are two areas with what may be native origin Cypress habitat on site. The most sensitive is at the southernmost portion of the lot at the intersection of Cypress Drive and Cabrillo Road (1) where several large trees have broad canopies that extend over the property but are actually outside of the lot. In evaluating the distribution of the native occurrence of Monterey Cypress on the peninsula, this area would be the lowest level of habitat sensitivity. Looking at just this lot, it would be the most sensitive and really only so because of the large trees adjacent to the lot. (See BLA sensitivity map with submittal). This area could be restored to good quality habitat with the removal of nonnative

species and replacement with typical cypress understory species. The other (2) is along the Eastern boundary where three large Cyresses persist where they may have been planted on site but could be naturally occurring. This is low quality habitat if it is natural. Redevelopment of the Middle, north, and east portions would have no impact at all on existing Monterey Cypress trees or Monterey Cypress habitat. The proposed design will have no impact on Monterey Cypress trees whether they were planted on site or germinated on site.

#### Existing house

The existing house on site does have several Cypress trees close to it on the SE and SW corners, but potential space to increase the footprint of the hardscape or landscape on the north and south sides (and northwest of the attached garage) remains where no impacts to Monterey Cypress trees or habitat would occur. North and NW of the house and garage the only limitations are where the property line setback is. South of the house the conditions are more influenced by the remaining mature Monterey Cypress and landscape revisions should carefully consider the root systems of trees on east and west corners of the building and on the southern extreme of the property. Restoring the understory of the remaining cypress trees in the south and along the SE fence line would significantly mitigate past and future forest impacts.

#### Tennis courts

The Dual Tennis courts with the out of play areas have a significant footprint that is bordered on the East by a potential remnant of Monterey Cypress Forest. The proposed new sport court is in the southwestern portion of the footprint of the current tennis complex and part of the existing driveway, and redevelopment of this area would have no negative impact on Monterey Cypress trees or habitat. The shifting of the recreational use area to the west and bringing the driveway around to the east around it before it arrives at the north side of the existing residence allows the center of the property, outside of any forested section to be utilized fully while creating a buffer between the development and the roads and the perimeter trees.

To summarize: the property in its current state has a mixture of Mixed Evergreen woodland containing Coast Live oak, Monterey Pine and Monterey Cypress and several nonnative (and invasive) trees. There are two locations on the far edges of the lot where large Monterey Cypress trees exist in clusters that are not extensive but could have naturally germinated on site. None of the trees will be significantly impacted by the property improvements and several of these trees are not within the property line. The BLA landscape planting plan includes replanting of typical Monterey Cypress Forest understory within the critical habitat zone of these trees where it extends onto this property. (Canopy drip line plus 10'). No other special status plants or animals were located and identified on the property. The landscape improvements will result in a significant reduction of hardscape on the property and will restore and improve Monterey Cypress habitat in the SW corner and the SE corner.

This landscape improvement project will have no negative impacts on special status plants, animals or plant communities.

Pat Regan

Appendices

Pages 6 -11 Photos of existing conditions on property

Pages 12 -15 California Rare Plant inventory for Monterey quadrangle

Pages 16 – 20 California Natural Diversity Database output for Monterey Quadrangle





*Figure 1: View looking north at neighboring fence line. Invasive Pride of Madeira dominating the landscape. No sensitive species or habitat here.*

*Figure 2: View looking West through densely planted landscape in NW corner of lot. No sensitive species or habitat here.*







*Figure 3: View looking NE from SW corner of lot. Invasive Acacia on left, Pride of Madeira on right. No sensitive species or habitat here*

*Figure 4: View looking SE through landscape at fence along Cypress Drive and large old Monterey Cypress in background.*







*Figure 5:View of fence along Cypress Drive with mix of invasive nonnatives and remnant native understory species , bedstraw and Douglas's iris*

*Figure 6: View looking west NW at South side of house and background trees. All nonnative landscape plants here.*







*Figure 7 : Large native California coffeeberry in understory in southern portion of lot near Cypress Drive.*

*Figure 8: Open understory near driveway and fence fronting Cypress Drive. Older Pines and Cypress and planted seedlings in foreground.*







Figure 9: View looking NE past house to Tennis Court. Monterey Pine and Cypress in background

Figure 10: View of SE corner of house with two closest planted Cypress trees.







*Figure 11: View looking NW through tennis courts toward house. No sensitive species or habitat here*

*Figure 12: View of 2 very old Monterey Cypress Trees at SE corner of Tennis courts.*



| CNPS Rare Plant inventory for the Monterey Quadrangle and 1455 Cypress Drive, Pebble Beach CA |                           |      |      |      |                 |   | Elevat. | Elevat. | Present  |
|---|---------------------------|------|------|------|-----------------|---|---------|---------|----------|
| Red text Plants are out of the 76-84 foot elevation range of the property                     |                           |      |      |      |                 |   | Low_ft  | High_ft | on site? |
| ScientificName  | CommonName                | CRPR | CESA | FESA | Blooming Period | Habitat   |         |         |          |
| Allium hickmanii  | Hickman's onion           | 1B.2 | None | None | Mar-May         | Chaparral, Closed-cone coniferous forest, Coastal prairie, Coastal scrub, Valley and foothill grassland       | 15      | 655     | no       |
| Arctostaphylos hookeri ssp. hookeri   | Hooker's manzanita        | 1B.2 | None | None | Jan-Jun         | Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal scrub                                  | 195     | 1760    | no       |
| Arctostaphylos montereyensis  | Toro manzanita            | 1B.2 | None | None | Feb-Mar         | Chaparral, Cismontane woodland, Coastal scrub   | 100     | 2395    | no       |
| Arctostaphylos pajaroensis  | Pajaro manzanita          | 1B.1 | None | None | Dec-Mar         | Chaparral   | 100     | 2495    | no       |
| Arctostaphylos pumila   | sandmat manzanita         | 1B.2 | None | None | Feb-May         | Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub                   | 10      | 675     | no       |
| Astragalus nuttallii var. nuttallii   | ocean bluff milk-vetch    | 4.2  | None | None | Jan-Nov         | Coastal bluff scrub, Coastal dunes  | 10      | 395     | no       |
| Astragalus tener var. titi  | coastal dunes milk-vetch  | 1B.1 | CE   | FE   | Mar-May         | Coastal bluff scrub, Coastal dunes, Coastal prairie   | 5       | 165     | no       |
| Castilleja ambigua var. insalutata  | pink Johnny-nip           | 1B.1 | None | None | May-Aug         | Coastal prairie, Coastal scrub  | 0       | 330     | no       |
| Castilleja latifolia  | Monterey Coast paintbrush | 4.3  | None | None | Feb-Sep         | Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub                              | 0       | 605     | no       |
| Ceanothus rigidus   | Monterey ceanothus        | 4.2  | None | None | Feb-Apr(Jun)    | Chaparral, Closed-cone coniferous forest, Coastal scrub   | 10      | 1805    | no       |
| Chorizanthe douglasii   | Douglas' spineflower      | 4.3  | None | None | Apr-Jul         | Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland | 180     | 5250    | no       |

|                                      |                         |      |      |      |                  |   |      |      |    |
|--------------------------------------|-------------------------|------|------|------|------------------|---|------|------|----|
| Chorizanthe pungens var. pungens     | Monterey spineflower    | 1B.2 | None | FT   | Apr-Jun(Jul-Aug) | Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland             | 10   | 1475 | no |
| Clarkia jolonensis                   | Jolon clarkia           | 1B.2 | None | None | Apr-Jun          | Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland  | 65   | 2165 | no |
| Clarkia lewisii                      | Lewis' clarkia          | 4.3  | None | None | May-Jul          | Broadleafed upland forest, Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal scrub | 100  | 3920 | no |
| Collinsia multicolor                 | San Francisco collinsia | 1B.2 | None | None | (Feb)Mar-May     | Closed-cone coniferous forest, Coastal scrub  | 100  | 900  | no |
| Cordylanthus rigidus ssp. littoralis | seaside bird's-beak     | 1B.1 | CE   | None | Apr-Oct          | Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal dunes, Coastal scrub             | 0    | 1690 | no |
| Cryptantha rattanii                  | Rattan's cryptantha     | 4.3  | None | None | Apr-Jul          | Cismontane woodland, Riparian woodland, Valley and foothill grassland                                   | 805  | 3000 | no |
| Delphinium hutchinsoniae             | Hutchinson's larkspur   | 1B.2 | None | None | Mar-Jun          | Broadleafed upland forest, Chaparral, Coastal prairie, Coastal scrub                                    | 0    | 1400 | no |
| Eriastrum virgatum                   | virgate eriastrum       | 4.3  | None | None | May-Jul          | Chaparral, Coastal bluff scrub, Coastal dunes, Coastal scrub  | 150  | 2295 | no |
| Ericameria fasciculata               | Eastwood's goldenbush   | 1B.1 | None | None | Jul-Oct          | Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub                                  | 100  | 900  | no |
| Erysimum menziesii                   | Menzies' wallflower     | 1B.1 | CE   | FE   | Mar-Sep          | Coastal dunes   | 0    | 115  | no |
| Fritillaria agrestis                 | stinkbells              | 4.2  | None | None | Mar-Jun          | Chaparral, Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland              | 35   | 5100 | no |
| Fritillaria liliacea                 | fragrant fritillary     | 1B.2 | None | None | Feb-Apr          | Cismontane woodland, Coastal prairie, Coastal scrub, Valley and foothill grassland                      | 10   | 1345 | no |
| Gilia tenuiflora ssp. amplifaucalis  | trumpet-throated gilia  | 4.3  | None | None | Mar-Apr          | Cismontane woodland, Valley and foothill grassland  | 1280 | 2955 | no |
| Gilia tenuiflora ssp. arenaria       | Monterey gilia          | 1B.2 | CT   | FE   | Apr-Jun          | Chaparral, Cismontane woodland, Coastal dunes, Coastal scrub  | 0    | 150  | no |



|   |                                  |      |      |      |                       |   |     |      |    |
|---|----------------------------------|------|------|------|-----------------------|---|-----|------|----|
| Horkelia cuneata var. sericea           | Kellogg's horkelia               | 1B.1 | None | None | Apr-Sep               | Chaparral, Closed-cone coniferous forest, Coastal dunes, Coastal scrub  | 35  | 655  | no |
| Hosackia gracilis                       | harlequin lotus                  | 4.2  | None | None | Mar-Jul               | Broadleaved upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland | 0   | 2295 | no |
| Iris longipetala                        | coast iris                       | 4.2  | None | None | Mar-May(Jun)          | Coastal prairie, Lower montane coniferous forest, Meadows and seeps   | 0   | 1970 | no |
| Layia carnosa                           | beach layia                      | 1B.1 | CE   | FE   | Mar-Jul               | Coastal dunes, Coastal scrub  | 0   | 195  | no |
| Leptosiphon grandiflorus                | large-flowered leptosiphon       | 4.2  | None | None | Apr-Aug               | Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland   | 15  | 4005 | no |
| Leptosiphon latisectus                  | broad-lobed leptosiphon          | 4.3  | None | None | Apr-Jun               | Broadleaved upland forest, Cismontane woodland  | 560 | 4920 | no |
| Lessingia tenuis                        | spring lessingia                 | 4.3  | None | None | May-Jul               | Chaparral, Cismontane woodland, Lower montane coniferous forest   | 985 | 7055 | no |
| Lomatium parvifolium                    | small-leaved lomatium            | 4.2  | None | None | Jan-Jun               | Chaparral, Closed-cone coniferous forest, Coastal scrub, Riparian woodland  | 65  | 2295 | no |
| Lupinus tidestromii                     | Tidestrom's lupine               | 1B.1 | CE   | FE   | Apr-Jun               | Coastal dunes   | 0   | 330  | no |
| Malacothamnus palmeri var. involucratus | Carmel Valley bush-mallow        | 1B.2 | None | None | Apr-Oct               | Chaparral, Cismontane woodland, Coastal scrub   | 100 | 3610 | no |
| Microseris paludosa                     | marsh microseris                 | 1B.2 | None | None | Apr-Jun(Jul)          | Cismontane woodland, Closed-cone coniferous forest, Coastal scrub, Valley and foothill grassland  | 15  | 1165 | no |
| Monardella sinuata ssp. nigrescens      | northern curly-leaved monardella | 1B.2 | None | None | (Apr)May-Jul(Aug-Sep) | Chaparral, Coastal dunes, Coastal scrub, Lower montane coniferous forest  | 0   | 985  | no |

|                              |  |      |      |      |              |  |     |      |    |
|------------------------------|--|------|------|------|--------------|--|-----|------|----|
| <i>Monolopia gracilens</i>   | woodland woollythreads   | 1B.2 | None | None | (Feb)Mar-Jul | Broadleaved upland forest, Chaparral, Cismontane woodland, North Coast coniferous forest, Valley and foothill grassland            | 330 | 3935 | no |
| <i>Piperia michaelii</i>     | Michael's rein orchid  | 4.2  | None | None | Apr-Aug      | Chaparral, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal scrub, Lower montane coniferous forest | 10  | 3000 | no |
| <i>Piperia yadonii</i>       | Yadon's rein orchid  | 1B.1 | None | FE   | (Feb)May-Aug | Chaparral, Closed-cone coniferous forest, Coastal bluff scrub  | 35  | 1675 | no |
| <i>Potentilla hickmanii</i>  | Hickman's cinquefoil   | 1B.1 | CE   | FE   | Apr-Aug      | Closed-cone coniferous forest, Coastal bluff scrub, Marshes and swamps, Meadows and seeps  | 35  | 490  | no |
| <i>Rosa pinetorum</i>        | pine rose  | 1B.2 | None | None | May-Jul      | Cismontane woodland, Closed-cone coniferous forest   | 5   | 3100 | no |
| <i>Sidalcea malachroides</i> | maple-leaved checkerbloom  | 4.2  | None | None | (Mar)Apr-Aug | Broadleaved upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland                        | 0   | 2395 | no |
| <i>Trifolium hydrophilum</i> | saline clover  | 1B.2 | None | None | Apr-Jun      | Marshes and swamps, Valley and foothill grassland, Vernal pools  | 0   | 985  | no |
| <i>Trifolium polyodon</i>    | Pacific Grove clover   | 1B.1 | CR   | None | Apr-Jun(Jul) | Closed-cone coniferous forest, Coastal prairie, Meadows and seeps, Valley and foothill grassland                                   | 15  | 1395 | no |
| <i>Trifolium trichocalyx</i> | Monterey clover  | 1B.1 | CE   | FE   | Apr-Jun      | Closed-cone coniferous forest  | 100 | 1000 | no |
|                              |  |      |      |      |              |  |     |      |    |
| <b>CA Rare Plant Rank</b>    | <b>Description</b>   |      |      |      |              |  |     |      |    |
| 1B.1                         | Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California |      |      |      |              |  |     |      |    |
| 1B.2                         | Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California    |      |      |      |              |  |     |      |    |
| 1B.3                         | Plants rare, threatened, or endangered in California and elsewhere; not very threatened in California  |      |      |      |              |  |     |      |    |
| 4.1                          | Plants of limited distribution; seriously threatened in California                                     |      |      |      |              |  |     |      |    |
| 4.2                          | Plants of limited distribution; fairly threatened in California  |      |      |      |              |  |     |      |    |
| 4.3                          | Plants of limited distribution; not very threatened in California                                      |      |      |      |              |  |     |      |    |

| CNDDDB inventory for the Monterey Quadrangle, 1455 Cypress Drive, Pebble Beach CA |  |            |            |        |           |           |          |
|---|--|------------|------------|--------|-----------|-----------|----------|
|   |  | Federal    | State      | CDFW   | CA Rare   | potential | observed |
| Scientific_Name   | Common_Name  | _Status    | _Status    | Status | Plnt Rank | habitat?  | on site? |
| <b>Animals - Amphibians</b>   |  |            |            |        |           |           |          |
| Ambystoma californiense pop. 1  | California tiger salamander - central California DPS | Threatened | Threatened | WL     | -         | no        | no       |
| Batrachoseps luciae   | Santa Lucia slender salamander                       | None       | None       | -      | -         | marginal  | no       |
| Rana boylei   | foothill yellow-legged frog                          | None       | Endangered | SSC    | -         | no        | no       |
| Rana draytonii  | California red-legged frog                           | Threatened | None       | SSC    | -         | no        | no       |
| Taricha torosa  | Coast Range newt                                     | None       | None       | SSC    | -         | no        | no       |
| <b>Animals - Birds</b>  |  |            |            |        |           |           |          |
| Ardea herodias  | great blue heron                                     | None       | None       | -      | -         | no        | no       |
| Athene cunicularia  | burrowing owl  | None       | None       | SSC    | -         | no        | no       |
| Charadrius nivosus nivosus  | western snowy plover                                 | Threatened | None       | SSC    | -         | no        | no       |
| Coturnicops noveboracensis  | yellow rail  | None       | None       | SSC    | -         | no        | no       |
| Cypseloides niger   | black swift  | None       | None       | SSC    | -         | no        | no       |
| Laterallus jamaicensis coturniculus   | California black rail                                | None       | Threatened | FP     | -         | no        | no       |
| Passerculus sandwichensis alaudinus   | Bryant's savannah sparrow                            | None       | None       | SSC    | -         | no        | no       |
| Pelecanus occidentalis californicus   | California brown pelican                             | Delisted   | Delisted   | FP     | -         | no        | no       |
| Ptychoramphus aleuticus   | Cassin's auklet                                      | None       | None       | SSC    | -         | no        | no       |
| Rallus obsoletus obsoletus  | California Ridgway's rail                            | Endangered | Endangered | FP     | -         | no        | no       |
| Setophaga petechia  | yellow warbler                                       | None       | None       | SSC    | -         | no        | no       |
| <b>Animals - Fish</b>   |  |            |            |        |           |           |          |
| Oncorhynchus mykiss irideus pop. 9  | steelhead - south-central California coast DPS       | Threatened | None       | -      | -         | no        | no       |
| <b>Animals - Insects</b>  |  |            |            |        |           |           |          |
| Bombus caliginosus  | obscure bumble bee                                   | None       | None       | -      | -         | no        | no       |
| Bombus occidentalis   | western bumble bee                                   | None       | None       | -      | -         | no        | no       |
| Coelus globosus   | globose dune beetle                                  | None       | None       | -      | -         | no        | no       |
| Danaus plexippus pop. 1   | monarch - California overwintering population        | Candidate  | None       | -      | -         | marginal  | no       |

|                                     |                                    | <b>Federal</b> | <b>State</b>   | <b>CDFW</b>   | <b>CA Rare</b>   | <b>potential</b> | <b>observed</b> |
|-------------------------------------|------------------------------------|----------------|----------------|---------------|------------------|------------------|-----------------|
| <b>Scientific_Name</b>              | <b>Common_Name</b>                 | <b>_Status</b> | <b>_Status</b> | <b>Status</b> | <b>Plnt Rank</b> | <b>habitat ?</b> | <b>on site?</b> |
| Euphilotes enoptes smithi           | Smith's blue butterfly             | Endangered     | None           | -             | -                | no               | no*             |
| <b>Animals - Mammals</b>            |                                    |                |                |               |                  |                  |                 |
| Enhydra lutris nereis               | southern sea otter                 | Threatened     | None           | FP            | -                | no               | no              |
| Eumetopias jubatus                  | Steller sea lion                   | Delisted       | None           | -             | -                | no               | no              |
| Lasiurus cinereus                   | hoary bat                          | None           | None           | -             | -                | no               | no              |
| Myotis yumanensis                   | Yuma myotis                        | None           | None           | -             | -                | no               | no              |
| Neotoma macrotis luciana            | Monterey dusky-footed woodrat      | None           | None           | SSC           | -                | marginal         | no              |
| Sorex ornatus salarius              | Monterey shrew                     | None           | None           | SSC           | -                | no               | no              |
| Sorex vagrans paludivagus           | Monterey vagrant shrew             | None           | None           | -             | -                | no               | no              |
| <b>Animals - Mollusks</b>           |                                    |                |                |               |                  |                  |                 |
| Haliotis cracherodii                | black abalone                      | Endangered     | None           | -             | -                | no               | no              |
| Haliotis kamtschatkana              | pinto abalone                      | None           | None           | -             | -                | no               | no              |
| <b>Animals - Reptiles</b>           |                                    |                |                |               |                  |                  |                 |
| Anniella pulchra                    | Northern California legless lizard | None           | None           | SSC           | -                | no               | no              |
| Emys marmorata                      | western pond turtle                | None           | None           | SSC           | -                | no               | no              |
| Phrynosoma blainvillii              | coast horned lizard                | None           | None           | SSC           | -                | no               | no              |
| Thamnophis hammondi                 | two-striped gartersnake            | None           | None           | SSC           | -                | no               | no              |
| <b>Community - Terrestrial</b>      |                                    |                |                |               |                  |                  |                 |
| Central Dune Scrub                  | Central Dune Scrub                 | None           | None           | -             | -                | no               | no              |
| Central Maritime Chaparral          | Central Maritime Chaparral         | None           | None           | -             | -                | no               | no              |
| Monterey Cypress Forest             | Monterey Cypress Forest            | None           | None           | -             | -                | yes              | yes             |
| Monterey Pine Forest                | Monterey Pine Forest               | None           | None           | -             | -                | yes              | remnant         |
| Monterey Pygmy Cypress Forest       | Monterey Pygmy Cypress Forest      | None           | None           | -             | -                | no               | no              |
| Northern Bishop Pine Forest         | Northern Bishop Pine Forest        | None           | None           | -             | -                | no               | no              |
| <b>Plants - Lichens</b>             |                                    |                |                |               |                  |                  |                 |
| Ramalina thrausta                   | angel's hair lichen                | None           | None           | -             | 2B.1             | no               | no              |
| Sulcaria spiralifera                | twisted horsehair lichen           | None           | None           | -             | 1B.2             | no               | no              |
| <b>Plants - Vascular</b>            |                                    |                |                |               |                  |                  |                 |
| Allium hickmanii                    | Hickman's onion                    | None           | None           | -             | 1B.2             | no               | no              |
| Arctostaphylos hookeri ssp. hookeri | Hooker's manzanita                 | None           | None           | -             | 1B.2             | no               | no              |

|                                      |                           | <b>Federal</b> | <b>State</b>   | <b>CDFW</b>   | <b>CA Rare</b>   | <b>potential</b> | <b>observed</b> |
|--------------------------------------|---------------------------|----------------|----------------|---------------|------------------|------------------|-----------------|
| <b>Scientific_Name</b>               | <b>Common_Name</b>        | <b>_Status</b> | <b>_Status</b> | <b>Status</b> | <b>Plnt Rank</b> | <b>habitat ?</b> | <b>on site?</b> |
| Arctostaphylos montereyensis         | Toro manzanita            | None           | None           | -             | 1B.2             | no               | no              |
| Arctostaphylos pajaroensis           | Pajaro manzanita          | None           | None           | -             | 1B.1             | no               | no              |
| Arctostaphylos pumila                | sandmat manzanita         | None           | None           | -             | 1B.2             | no               | no              |
| Astragalus nuttallii var. nuttallii  | ocean bluff milk-vetch    | None           | None           | -             | 4.2              | no               | no              |
| Astragalus tener var. titi           | coastal dunes milk-vetch  | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
| Castilleja ambigua var. insalutata   | pink Johnny-nip           | None           | None           | -             | 1B.1             | no               | no              |
| Castilleja latifolia                 | Monterey Coast paintbrush | None           | None           | -             | 4.3              | no               | no              |
| Ceanothus rigidus                    | Monterey ceanothus        | None           | None           | -             | 4.2              | no               | no              |
| Chorizanthe douglasii                | Douglas' spineflower      | None           | None           | -             | 4.3              | no               | no              |
| Chorizanthe pungens var. pungens     | Monterey spineflower      | Threatened     | None           | -             | 1B.2             | no               | no              |
| Clarkia jolonensis                   | Jolon clarkia             | None           | None           | -             | 1B.2             | no               | no              |
| Clarkia lewisii                      | Lewis' clarkia            | None           | None           | -             | 4.3              | no               | no              |
| Collinsia multicolor                 | San Francisco collinsia   | None           | None           | -             | 1B.2             | no               | no              |
| Cordylanthus rigidus ssp. littoralis | seaside bird's-beak       | None           | Endangered     | -             | 1B.1             | no               | no              |
| Cryptantha rattanii                  | Rattan's cryptantha       | None           | None           | -             | 4.3              | no               | no              |
| Delphinium hutchinsoniae             | Hutchinson's larkspur     | None           | None           | -             | 1B.2             | no               | no              |
| Eriastrum virgatum                   | virgate eriastrum         | None           | None           | -             | 4.3              | no               | no              |
| Ericameria fasciculata               | Eastwood's goldenbush     | None           | None           | -             | 1B.1             | no               | no              |
| Erysimum menziesii                   | Menzies' wallflower       | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
| Fritillaria agrestis                 | stinkbells                | None           | None           | -             | 4.2              | no               | no              |
| Fritillaria liliacea                 | fragrant fritillary       | None           | None           | -             | 1B.2             | no               | no              |
| Gilia tenuiflora ssp. amplifaucalis  | trumpet-throated gilia    | None           | None           | -             | 4.3              | no               | no              |
| Gilia tenuiflora ssp. arenaria       | Monterey gilia            | Endangered     | Threatened     | -             | 1B.2             | no               | no              |
| Hesperocyparis goveniana             | Gowen cypress             | Threatened     | None           | -             | 1B.2             | no               | no              |
| Hesperocyparis macrocarpa            | Monterey cypress          | None           | None           | -             | 1B.2             | yes              | yes             |
| Horkelia cuneata var. sericea        | Kellogg's horkelia        | None           | None           | -             | 1B.1             | no               | no              |
| Hosackia gracilis                    | harlequin lotus           | None           | None           | -             | 4.2              | no               | no              |
| Iris longipetala                     | coast iris                | None           | None           | -             | 4.2              | no               | no              |

|   |  | <b>Federal</b> | <b>State</b>   | <b>CDFW</b>   | <b>CA Rare</b>   | <b>potential</b> | <b>observed</b> |
|---|--|----------------|----------------|---------------|------------------|------------------|-----------------|
| <b>Scientific_Name</b>                  | <b>Common_Name</b>   | <b>_Status</b> | <b>_Status</b> | <b>Status</b> | <b>Plnt Rank</b> | <b>habitat ?</b> | <b>on site?</b> |
| Layia carnosa                           | beach layia  | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
| Leptosiphon grandiflorus                | large-flowered leptosiphon   | None           | None           | -             | 4.2              | no               | no              |
| Leptosiphon latisectus                  | broad-lobed leptosiphon  | None           | None           | -             | 4.3              | no               | no              |
| Lessingia tenuis                        | spring lessingia   | None           | None           | -             | 4.3              | no               | no              |
| Lomatium parvifolium                    | small-leaved lomatium  | None           | None           | -             | 4.2              | no               | no              |
| Lupinus tidestromii                     | Tidestrom's lupine   | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
| Malacothamnus palmeri var. involucratus | Carmel Valley bush-mallow  | None           | None           | -             | 1B.2             | no               | no              |
| Microseris paludosa                     | marsh microseris   | None           | None           | -             | 1B.2             | no               | no              |
| Monardella sinuata ssp. nigrescens      | northern curly-leaved monardella   | None           | None           | -             | 1B.2             | no               | no              |
| Monolopia gracilens                     | woodland woollythreads   | None           | None           | -             | 1B.2             | no               | no              |
| Pinus radiata                           | Monterey pine  | None           | None           | -             | 1B.1             | no               | no              |
| Piperia michaelii                       | Michael's rein orchid  | None           | None           | -             | 4.2              | no               | no              |
| Piperia yadonii                         | Yadon's rein orchid  | Endangered     | None           | -             | 1B.1             | marginal         | no              |
| Potentilla hickmanii                    | Hickman's cinquefoil   | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
| Rosa pinetorum                          | pine rose  | None           | None           | -             | 1B.2             | no               | no              |
| Sidalcea malachroides                   | maple-leaved checkerbloom  | None           | None           | -             | 4.2              | no               | no              |
| Trifolium hydrophilum                   | saline clover  | None           | None           | -             | 1B.2             | no               | no              |
| Trifolium polyodon                      | Pacific Grove clover   | None           | Rare           | -             | 1B.1             | no               | no              |
| Trifolium trichocalyx                   | Monterey clover  | Endangered     | Endangered     | -             | 1B.1             | no               | no              |
|   |  |                |                |               |                  |                  |                 |
| CA Rare Plant Rank                      | Description  |                |                |               |                  |                  |                 |
| 1A                                      | Plants presumed extinct in California and rare/extinct elsewhere                                       |                |                |               |                  |                  |                 |
| 1B.1                                    | Plants rare, threatened, or endangered in California and elsewhere; seriously threatened in California |                |                |               |                  |                  |                 |
| 1B.2                                    | Plants rare, threatened, or endangered in California and elsewhere; fairly threatened in California    |                |                |               |                  |                  |                 |
| 1B.3                                    | Plants rare, threatened, or endangered in California and elsewhere; not very threatened in California  |                |                |               |                  |                  |                 |
| 4.1                                     | Plants of limited distribution; seriously threatened in California                                     |                |                |               |                  |                  |                 |
| 4.2                                     | Plants of limited distribution; fairly threatened in California  |                |                |               |                  |                  |                 |
| 4.3                                     | Plants of limited distribution; not very threatened in California                                      |                |                |               |                  |                  |                 |
|   |  |                |                |               |                  |                  |                 |
| CESA Status                             | Description  |                |                |               |                  |                  |                 |

|                     |  |  |  |  |  |  |  |
|---------------------|--|--|--|--|--|--|--|
| FP                  | Fully Protected: This classification was the State of California's initial effort to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, amphibians and reptiles, birds and mammals. Most of the species on these lists have subsequently been listed under the state and/or federal endangered species acts.  |  |  |  |  |  |  |
| SSC                 | Species of Special Concern: It is the goal and responsibility of the Department of Fish and Wildlife to maintain viable populations of all native species. To this end, the Department has designated certain vertebrate species as "Species of Special Concern" because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction. The goal of designating species as "Species of Special Concern" is to halt or reverse their decline by calling attention to their plight and addressing the issues of concern early enough to secure their long-term viability. |  |  |  |  |  |  |
| WL                  | Watch List: The Department of Fish and Wildlife maintains a list consisting of taxa that were previously designated as "Species of Special Concern" but no longer merit that status, or which do not yet meet SSC criteria, but for which there is concern and a need for additional information to clarify status.  |  |  |  |  |  |  |
| ESA Listing Status  | Description  |  |  |  |  |  |  |
| Endangered          | The classification provided to an animal or plant in danger of extinction within the foreseeable future  |  |  |  |  |  |  |
| Threatened          | The classification provided to an animal or plant which is likely to become an Endangered species within the   |  |  |  |  |  |  |
| Proposed Endangered | The classification provided to an animal or plant that is proposed for federal listing as Endangered in the  |  |  |  |  |  |  |
| Proposed Threatened | The classification provided to an animal or plant that is proposed for federal listing as Threatened in the  |  |  |  |  |  |  |
| Candidate           | The classification provided to an animal or plant that has been studied by the United States Fish and  |  |  |  |  |  |  |
| None                | The plant or animal has no federal status.   |  |  |  |  |  |  |
| Delisted            | The plant or animal was previously listed as Endangered or Threatened, but is no longer listed on the  |  |  |  |  |  |  |

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