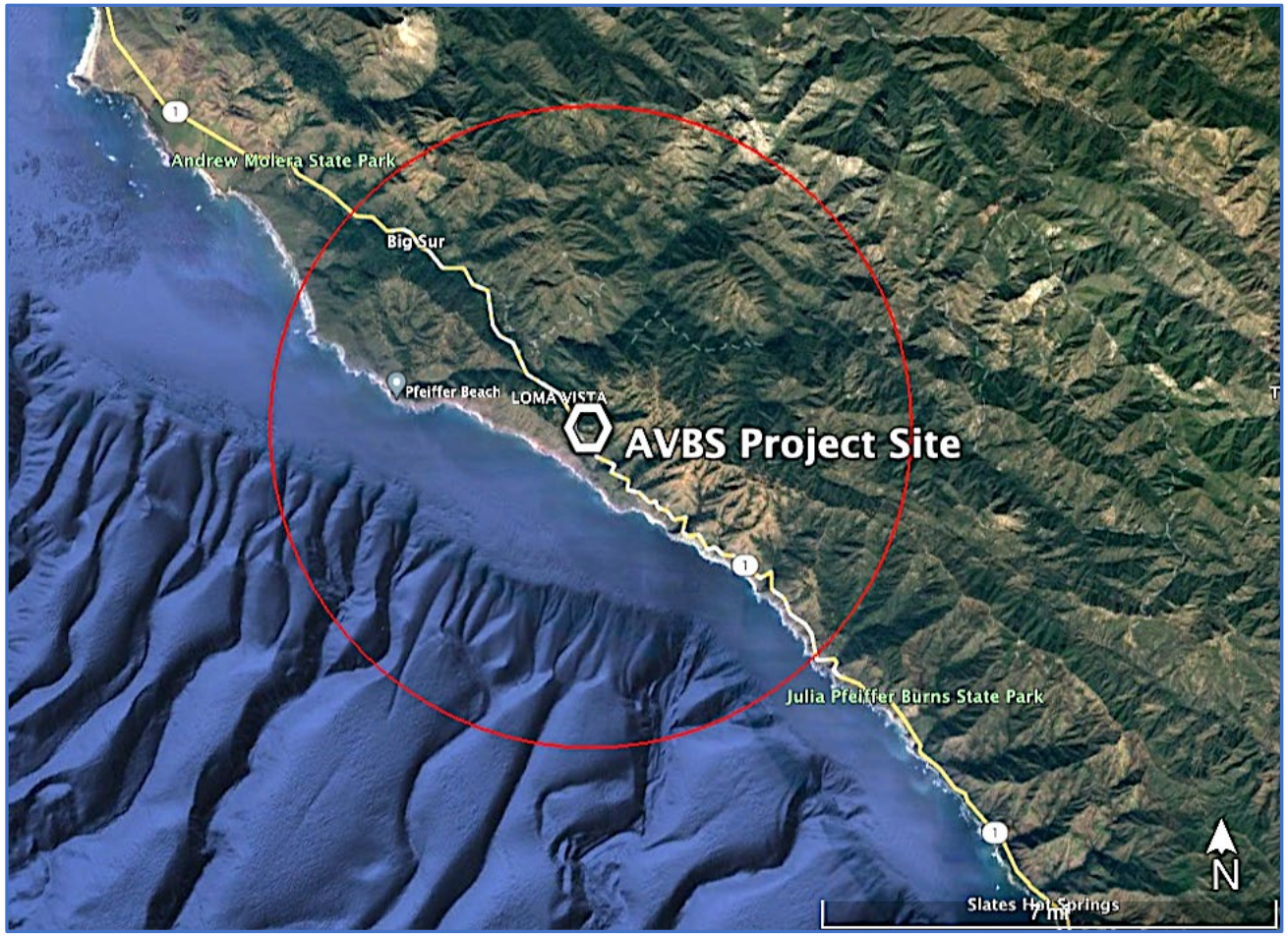
ATTACHMENT H

# Special Status Species within a Five-Mile Radius Search Area

## Alila Ventana Big Sur Fuels Treatment Project

Explanation of Table Contents

This table presents the results of a "desk top" level assessment of the habitat relationships for twenty-two plant and animal species. These species were identified through a search of the CNDDB database query completed on November 9, 2023 for a 5-mile radius search area centered on the AVBS PTA, as shown in the Google Earth image below.




The CNDDB search identified 20 special status species with recorded presence in the search area and two additional species, *Eriogonum latifolium* and *E. parvifolium*, due to their habitat relationship to Smith's blue butterfly (*Euphiloides enoptes smithii*). Following are the meanings of the abbreviations used in in this attachment

Abbreviations

| | |
|---|---|
| FT | Federal – Threatened |
| FE | Federal – Endangered |
| CNDDB | California Natural Diversity Database |
| CST | State of California – Threatened |
| CSE | State of California – Endangered |
| SSC | Species of Special Concern (or interest) |
| G | Global Rarity Ranking |
| S | State of California Rarity Ranking |
| CH | Critical Habitat |
| NCH | No officially defined critical habitat |
| CFL | Candidate for listing |
| G4T3 | Global rankng of "Apparently Secure" with a California level of "not very endangered" |
| G2 ` | On a global basis 6-20 element occurrences; or 1,000-3,000 individuals; or 2,000-10,000 acres. |
| G4 | Apparently secure; this rank is clearly lower than G3 but factors exist to cause some concern; i.e., there is some threat, or somewhat narrow habitat. |
| G5 | Population or stand demonstrably secure to ineradicable due to being commonly found in the world. |
| S1 | Less than six element occurrences; or less than 1,000 individuals; or less than 2,000 acres |
| S2 | Six to twenty element occurrences; or 1,000 to 3,000 individuals; or 2,000 to 10,000 acres |
| SNR | Not ranked at the state level |
| Pro | Proposed for listing |
| 1B.1 | Plant species that are rare throughout their range with the majority of them endemic to California and are seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat) |
| 1B.2 | Plant species that are rare throughout their range with the majority of them endemic to California and whose status have not been reassessed since the time they were first designated after implementation of the Rare Plant Status Review Process, and therefore may not represent the current level of threats associated with a given taxon. |
| 1B.3 | Plant species that are rare throughout their range with the majority of them endemic to California and are not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known) |

Following the table is a list, by species, of the principal documents reviewed for this analysis.

| Species Name | | Listing Status | | | | | Rarity Ranking | | |
|---|---|---|---|---|---|---|---|---|---|
| Common | Scientific | FT | FE | CST | CSE | SSC | G | S | CH |
| Globus Dune Beetle | Coelus globosus | X | | | | | | | NCH |
| Profile and observation records show this species to be sandy habitats obligated. No such habitat conditions occur within, or adjacent to, the AVBS PTA. | | | | | | | | | |
| Monarch Butterfly | Danaus plexippus plexippus | | | | | CFL | G4T3 | | NCH |
| Research has shown that blue gum (Eucalyptus globulus) is a preferred tree species during the butterfly's over-wintering period along the Pacific coast. This over-wintering habitat is present in the AVBS PTA, however, specific usage information is not available in the currently available literature. | | | | | | | | | |
| Smith's Blue Butterfly | Euphiloides enoptes smithi | | X | | | | | | |
| Coast Buckwheat | Eriogonum latifolium | | | | | | G4 | SNR | |
| Dune Buckwheat | Eriogonum parvifolium | | | | | | G5 | SNR | |
| Smith's Blue Butterfly: The most recent observation record was in July of 1985 for a location 2.76 miles from the AVBS PTA. Occurrence Reposts indicated this species is commonly associated with coastal dunes and coastal sage scrub plant communities. Two species of Eriogonum, latifolium and parvifolium, are indicated as the primary hosts for both larval and adult host plants.<br><br>Coast Buckwheat: This species is designated as being a coastal habitat with associations with Coast Strands and Northern Coastal Scrub. The only recorded occurrence within a reasonable distance, was in the coastal cliffs area near Molera Beach at a distance of 9.50 km (5.90 mi.), and was recorded in 2019. The primary soils association was with those with predominantly sandy textures.<br><br>Dune Buckwheat: Calflora's "Observation Search" tool shows that the closest observation, at a distance of 0.55 km (0.34 mi.) from the AVBS PTA, was recorded in 1938, with one other, at distance 10 km (6.21 mi.) recorded in 2021. A detailed examination of Google Earth satellite imagery (GESI) of the record's location showed it to be positioned on the margin between a brush/scrub formation and a dense hardwood woodland; conditions identical to those in the AVBS PTA. The next closest record was at a distance of 4.52 km (2.81 mi.) in a more riparian influenced zone along Sycamore Canyon Road near Pfeiffer Beach. | | | | | | | | | |
| Pinnacles Optioservus Riffle Beetle | Optioservus canus | | | | | | G2 | S1 | NCH |
| Research of available literature for this species did not reveal any that addressed the habitat requirements, life cycle, or range information for this beetle. Shepard (1990) wrote that he had found the beetle in Juan Hiquera, Grimes Canyon, and Partington Creeks. Post Creek, that will exhibit conditions similar to the three aforementioned creeks, will have segments that will pass through, and/or will be adjacent to. several of the Project's MUs | | | | | | | | | |
| | | | | | | | | | |
| Foothill Yellow-legged Frog | Rana boylii | | X | | X | | | | NCH |
| Most recent observation is at 3.73 miles from the AVBS PTA on October 2, 1968. No specific habitat information was described in the observation. Prior observation only noted that the animal was observed "along the Big Sur river" near the Big Sur community and in Andrew Molera State Park. The "Micro Habitat" descriptions in the Occurrence Report are very general in nature: "Partly shaded shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying and at least 15 weeks to attain metamorphosis". The Class II Post Creek can be defined as a partly shaded shallow stream with limited occurrences of a rocky substrate. However, with respect to the egg cycle, no information is presented regarding specifically what conditions need to be present for at least fifteen weeks. | | | | | | | | | |
| California Red-legged Frog | Rana dratonyii | X | | | | X | | | M |
| Most recent observation was in 2016 at a distance of 2.84 miles from the VBS PTA. There was breeding activity documented in pools associated with the Class I Sycamore Creek. Within the PTA the following conditions are **not** present:<br>• Permanent sources of deep water with dense shrubby or emergent riparian vegetation, or,<br>• Eleven-to-twenty weeks of permanent water for larval development<br>Estivation habitat is present in the PTA where there is dense mid-slope vegetation above poorly formed riparian gallery formation along Post Creek (Class II). | | | | | | | | | |

| Species Name | | Listing Status | | | | | Rarity Ranking | | |
|---|---|---|---|---|---|---|---|---|---|
| Common | Scientific | FT | FE | CST | CSE | SSC | G | S | CH |
| Steelhead | Oncorhynchus mykiss irideus | X | | | | | G5 | SNR | NR |
| A 1980 CDF&G study of lower Post Creek found multiple *Oncorhynchus mykiss* year classes. The study report states, "General stream conditions and the abundance of available food provide an excellent nursery and spawning habitat for steelhead". Segments of Post Creek flow through, or directly adjacent to, the AVBS PTA. | | | | | | | | | |
| | | | | | | | | | |
| Black Swift | Cypseloides niger | | | | | BCC | | | |
| This bird is listed as a Species of Special Concern and the most current profile information dates to 2008. This species is considered sensitive during its breeding season. Its breeding habitat is typically in crevices in coastal cliff faces. This nesting habitat is not present within, or adjacent to, the AVBS PTA and the closest set of coastal escarpments is at a distance of 0.68 miles. | | | | | | | | | |
| Prairie Falcon | Falco mexicanus | | | | | | G5 | S4 | |
| The single Occurrence Record for this species was made in 1978 in the Ventana Double Cones area at an elevation of 4,763 feet. The required breeding site conditions (cliffs) are not present within, or adjacent to, the AVBS PTA | | | | | | | | | |
| | | | | | | | | | |
| Bristlecone Fir | *Abies bracteata* | | | | | X | | 1B.3 | |
| The closest records of occurrence in a natural setting were in Logwood Canyon, at an elevation of 2,600 feet in 1942 (two records) and 1969 (1 record). Subsequent records have shown presence associated with the State Parks in the area. This species is described as having 1) an elevational range starting at approximately 690 feet, which is approximately 390 below the average elevation of the AVBS PTA, and ascending up to 5,250 feet, 2) tolerance for a broad range of soil types, and 3) has been observed to intermix with both the species of both the Redwood and Coast Live Oak Alliances that characterize the AVBS PTA. | | | | | | | | | |
| Little Sur Manzanita | *Arctostaphylos edmundsii* | | | | | | | 1B.2 | |
| The general habitat for this species is indicated as coastal and the associated communities include Northern Coastal Scrub and chaparral. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 3.5 km (2.17 mi.) from the AVBS PTA, was recorded in 1981, and six others at distances greater than 4.5 km (2.80 mi.) from 1963 to 2002. The indicated elevational range for occurrence is 0 – 260 meters (0-853 ft.) which is below the average 1080-foot elevation of the PTA. The Calscape species profile shows that this species is found 1) on sandy, coarse-grained or other fast draining soils with a PH range between 5.0 - 7.5, and 2) in association with Coyote Brush (Baccharis pilularis), Ceanothus species, Seaside Daisy (Erigeron glaucus), Cliff Buckwheat (Eriogonum parvifolium), Iris douglasiana, and native ferns | | | | | | | | | |
| Compact Cobwebby Thistle | *Cirsium occidentale var. compactum* | | | | | | | 1B.2 | |
| The general habitat for this species is indicated as coastal and the associated communities include Coastal Strand, Northern Coastal Scrub, Coastal Sage Scrub, Chaparral, Coastal Prairie. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 4.75 km (4.04 mi.) from the AVBS PTA, was recorded in 1922. The next closest is at distance greater than 10.0 km (6.20 mi.) and was recorded in 1989. The indicated elevational range for occurrence is 5 – 65 meters (15-215 ft.) which is below the average 1,080-foot elevation of the PTA. The available literature has no information on either soils, or other vegetation species, associations. | | | | | | | | | |
| Jolon Clarkia | *Clarkia jolonensis* | | | | | | | | |
| The general habitat for this species has not been defined and the associated communities are indicated as Chaparral, Cismontane Woodland, Coastal Scrub, and Riparian Woodland. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 4.0 km (2.49 mi.) from the AVBS PTA, was recorded in 1926. At 2.55 km (7.00 mi.) to the south along SR1 there is a cluster of three observations at McWay Falls; recorded in 1901, 1995, and 2005, respectively. The indicated elevational range for occurrence is 130 – 630 meters (425-2,065 ft.) which includes the average 1080-foot elevation of the PTA. The available literature has no information on either soils, or other vegetation species, associations. | | | | | | | | | |

| Species Name | | Listing Status | | | | | Rarity Rankng | | |
|---|---|---|---|---|---|---|---|---|---|
| Common | Scientific | FT | FE | CST | CSE | SSC | G | S | CH |
| Tear Drop Moss | *Dacryophyllum falcifolium* | | | | | | | 1B.3 | |
| Calflora's "Observation Search" tool shows that the closest observations, at a distance of 3.38 km (2.10 mi.) south along SR1 from the AVBS PTA, was recorded in 2005. At 5.28 km (3.28 mi.) to the north along SR1 there is observation recorded in 2006. Both observations were associated with riparian conditions along Juan Hiquera and Grimes Creeks. This species has only been observed in Coast Redwood (*Sequoia sempervirens*) forests along the coast, with limestone or other calcium-rich rock[1]. No additional information regarding elevational range, soil, or other vegetation species, associations was present in the available literature. | | | | | | | | | |
| Hutchinson's Larkspur | *Delphinium hutchinsoniae* | | | | | | | 1B.3 | |
| The general habitat for this species has not been defined and the associated communities are indicated as Chaparral, Coastal Prairie, Northern Coastal Scrub, and Mixed Evergreen Forest. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 1.71 km (1.06 mi.) north along SR1 from the AVBS PTA, was recorded in 2022. Two additional records were obtained along Pfeiffer Ridge Road, , at a distance of 5.39 km (3.35 mi.) north along SR1 from the AVBS PTA, in 2002. The indicated elevational range for occurrence is 0 – 2,280 meters (0-7.480 ft.) which includes the average 1080-foot elevation of the PTA. The available literature has no information on either soils, or other vegetation species, associations. | | | | | | | | | |
| Cone Peak Bedstraw | *Galium californicum ssp. luciense* | | | | | | | 1B.3 | |
| The general habitat indicated in the literature was that of exposed ridgetop with rock outcrops and thin soils. The associated communities indicated in the Calflora species profile included Yellow Pine Forest, Mixed Evergreen Forest, and Foothill Woodland. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 6.60 km (4.09 mi.) from the AVBS PTA, and was recorded in 1973. There were a total of four records available and all were located at elevations greater than 915 m (3,000 ft.). No additional information regarding elevational range, soil, or other vegetation species, associations was present in the available literature. | | | | | | | | | |
| Toren's Grimma | *Grimmia torenii* | | | | | | | 1B.2 | |
| Research showed a very limited level of species profile information in the available literature. In the Calflora system a single observation was recorded along the summit position of the Coast Ridge Road. The record was completed in May of 2009, was at a distance of 2.81 km (2.81 mi) from the AVBS PTA, and at an elevation of 8924 m (2,703 ft.); significantly above the average 1080-foot elevation of the PTA . The location surveyed was on a sunny, dry marble rock outcrop in grassland. In general, the habitats occupied are described as: Openings, rocky, boulder and rock walls, and carbonate, and volcanic parent materials. The species is found on mountains of the Coast Range at elevations of 325–1160 m., and has been collected only on metavolcanic pillow basalts and some sandstones of the Franciscan Formation. | | | | | | | | | |
| Fragrant Fritillary | *Fritillaria liliacea* | | | | | | | 1B.2 | |
| The Calflora species profile for this species shows a weak tendency towards an occupation of ultramafic soils (relatively high trace mineral presence). Relative to vegetation communities that could be present in the AVBS PTA this species is associated with Northern Coastal Scrub and wetland-riparian. The literature reviewed shows the AVBS PTA to be 1) a significant distance outside of the specie's geographic range, and 2) above the elevational range. There is only one record of occurrence with a reasonable distance of the PTA. This location is at a distance of 4.82 km (3.00 mi), is associated with the coastal escarpment, and the record dates to 1917. | | | | | | | | | |
| Arroyo Seco Bush-mallow | *Malacothamnus palmeri var. lucianus* | | | | | | | | |
| The general habitat is described as meadow and the associated vegetation community as chaparral. The species has been observed to occupy bed rock sites and soils described as sandy loams. Calflora's "Observation Search" tool shows that the closest observation, at a distance of 3.00 km (1.86 mi.) from the AVBS PTA, was recorded at an elevation of 400 ft, and in 1973. There were an additional four records available and all were located within the floodplain of the Big Sur river at elevation no greater than 282 ft. | | | | | | | | | |
| Adobe Sanicle | *Sanicula maritima* | | | | | | | 1B.1 | |
| The Calscape species profile for this species indicates the principal habitats include moist coastal meadows and canyons. Calflora's "Observation Search" tool shows that the closest observations (2 within Andrew Molera State Park), at a distance of 10.10 km (6.24 mi.) north along SR1, were recorded in 1990 and 2018, respectively. One was located at an elevation of 8m (26 ft.) and the other at 105m (345ft.);significantly below the average 1080-foot elevation of the PTA. The available literature has no information on either soils, or other vegetation species, associations. | | | | | | | | | |

[1] Theden, Tiffany UC/SC. undated

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