# PG&E Trenton Court Electrical Improvement Project Biological Assessment Report

**July 2023** 

# Prepared for

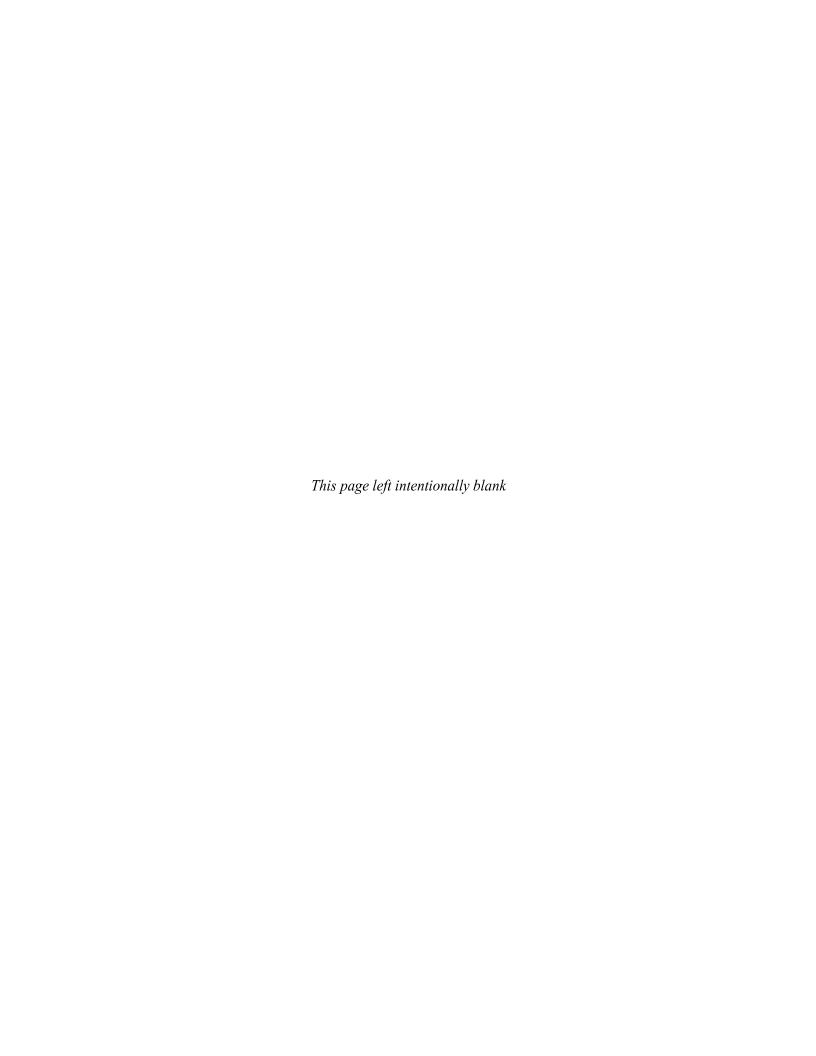
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# TABLE OF CONTENTS

| 1. | INTRODUCTION1   |                              |  |
|----|---|------------------------------|--|
|    | 1.1 Project Description   |                              |  |
| 2. | METHODS   |                              |  |
|    | 2.1 Personnel and Survey Methods.  2.2 Data Sources.  2.2.1 Botany.  2.2.2 Wildlife.  2.3 Definitions.  2.3.1 Sensitive Habitats.  2.3.2 Special-Status Species.  2.4 Regulatory Setting.  2.4.1 Federal Regulations.  2.4.2 State Regulations.  2.4.3 Local Regulations. | 8<br>9<br>9<br>9<br>10<br>10 |  |
| 3. | RESULTS   |                              |  |
|    | 3.1 Natural Communities  3.1.1 Ruderal/Disturbed  3.1.2 Developed  3.2 Sensitive Habitats  3.3 Special-Status Species  3.3.1 Special-Status Wildlife  3.3.2 Special-Status Plants   | 15<br>15<br>17<br>17         |  |
| 4. | IMPACTS AND MITIGATION  | 23<br>23                     |  |
| 5. | REFERENCES  | 31                           |  |

# **Figures**

| Figure 1. Project Vicinity                 | 2  |
|--|----|
| Figure 2. Project Location                 |    |
| Figure 3. Site Layout                      |    |
| Figure 4. Site Plan                        |    |
| Figure 5. Natural Communities              | 16 |
| Figure 6. Special-Status Plant Occurrences | 21 |

# **Appendices**

APPENDIX A: CNDDB Report

APPENDIX B: IPaC Resource List

APPENDIX C: Special-Status Species Table

# 1. INTRODUCTION

Denise Duffy & Associates, Inc. (DD&A) was contracted by California State University, Monterey Bay (CSUMB) to conduct a biological assessment of the Pacific Gas & Electric (PG&E) Trenton Court Electrical Improvement Project (project or proposed project), located on the CSUMB campus within unincorporated Monterey County (County), California (**Figures 1** and **2**). PG&E proposes to install a new electrical conduit and wire from Imjin Parkway to Trenton Court. Mitigation Measures BIO-1a and BIO-1b from the CSUMB Master Plan Environmental Impact Report (EIR) require a biological assessment for future projects on the campus. This assessment and implementation of any recommended avoidance and minimization measures comply with these requirements.

To satisfy the reporting criteria of the CSUMB and other agencies, DD&A completed a biological assessment of the project site to determine if sensitive biological resources are present or have the potential to occur within and in the vicinity of the site. This report describes the existing biological resources within and adjacent to the project site, including any special-status species or sensitive habitats which occur or have the potential to occur within and adjacent to the site. This report also assesses the potential impacts to biological resources that may result from full buildout of the project and recommends appropriate minimization and mitigation measures necessary to reduce those impacts to a less than significant level in accordance with the California Environmental Quality Act (CEQA). In addition, this report includes an overview of applicable federal, state, and local regulation, regulatory, and responsible agencies with jurisdiction over sensitive resources within the project site and the relevant permits for biological resources that could be required for the project.

# 1.1 Project Description

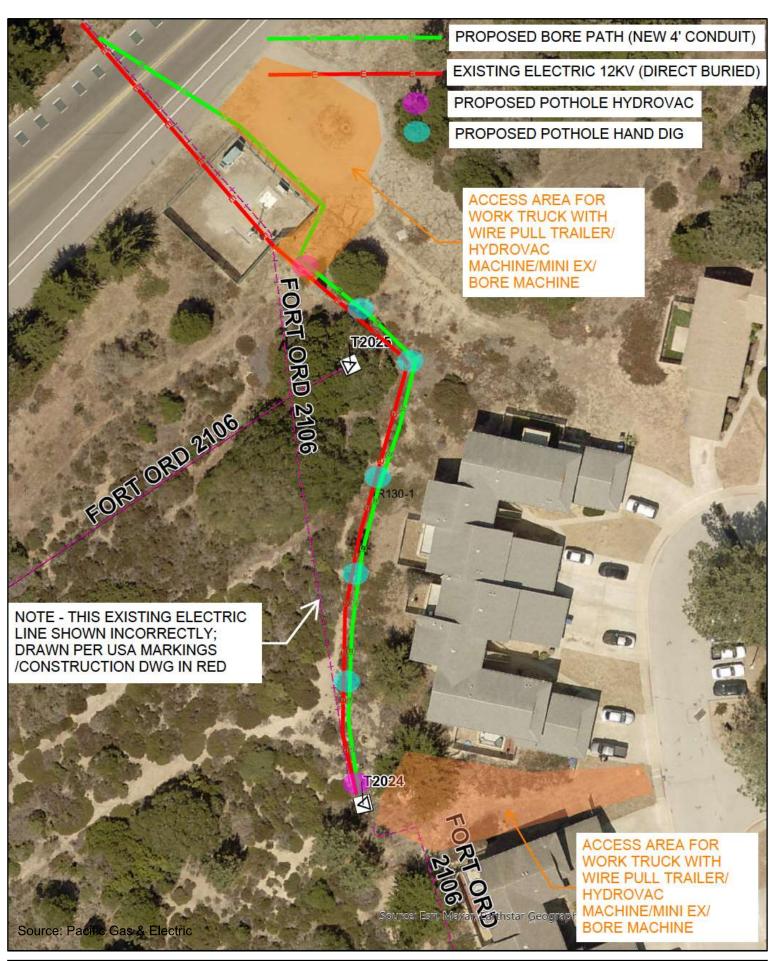
The proposed project involves emergency repairs to an existing conduit along Trenton Court and Imjin Parkway in the Frederick Park I area of East Campus Housing. The emergency repairs would involve installing new conduit and wire approximately three feet underground for approximately 300 feet (**Figure 3**). Installation would require digging a 10-foot by 15-foot pit approximately five feet deep on each end for the boring machines (**Figure 4**). Potholing would occur in between the pits to confirm boring is going the right direction. Minor tree trimming would be required near the southern pit, but no trees are proposed for removal. The project would include installation of a panel board on the northern end of the line. Work would require driving vehicles to each end of the line. Excavated material would be backfilled into the hole.

#### 1.2 Summary of Results

The project site contains ruderal/disturbed habitat and is adjacent to mixed coast live oak woodland/central maritime chaparral habitat, which is considered sensitive habitat. Two special-status plant species, sandmat manzanita and Monterey ceanothus, were observed within the project site. Monterey gilia occurs directly adjacent to, but not within, the project site. Several special-status wildlife species, including Townsend's big-eared bat, Monterey dusk-footed woodrat, Monterey ornate shrew, Northern California legless lizard, and coast horned lizard, have the potential to occur within or adjacent to the site. Finally, large trees within and adjacent to the project site may also provide suitable nesting habitat for protected avian species.







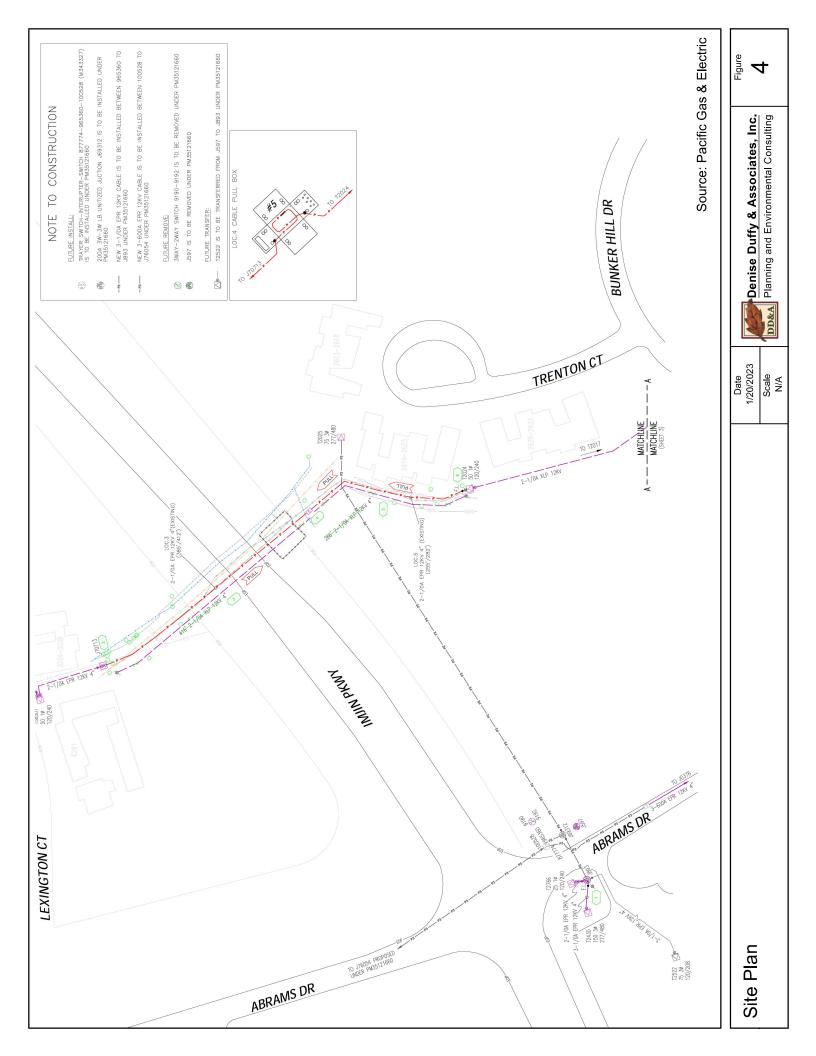
Site Layout

Date 1/20/2023

Scale N/A



Figure



The project site lies within the plan areas of the CSUMB Master Plan and the PG&E Multiple Region Operation and Maintenance Habitat Conservation Plan (MRHCP). Implementation of the avoidance, minimization, and mitigation measures from these plans that are applicable to the proposed project would reduce potential project impacts to these sensitive biological resources to a less-than-significant level under the California Environmental Quality Act (CEQA). No regulatory permits for biological resources are anticipated for the proposed project.

# 2. METHODS

# 2.1 Personnel and Survey Methods

DD&A Associate Environmental Scientist Liz Camilo conducted a reconnaissance-level biological survey of the project site on January 18, 2023, to characterize habitats present and to identify any special-status plant or wildlife species or suitable habitat for these species within the site. Survey methods included walking the project site to identify general habitat types and potential sensitive habitat types, conducting an assessment of potential wetlands and other waters, and conducting a reconnaissance-level plant and wildlife habitat survey to identify any special-status species or suitable habitat for those species occurring within the site. In support of the CSUMB Master Plan and Near-Term Developments Project (CSUMB Master Plan) and the Oak Woodlands Conservation Area Project (Oak Woodlands Project), DD&A biologists also conducted multiple biological surveys within and adjacent to the project site between 2016 and 2017. The dates for each of these surveys are outlined in **Table 1** below. Data collected during these surveys were used to assess the environmental conditions of the project site and its surroundings, evaluate environmental constraints in the site and within the local vicinity, and provide a basis for recommendations to minimize and avoid impacts.

Table 1. Biological Surveys within and Adjacent to the Project site

| Date          | Survey  | Project               | Surveyor      |
|---------------|---|-----------------------|---------------|
| April 2016    | Focused spring-flowering plant species            | CSUMB Master Plan     | DD&A          |
| July 2016     | Focused summer-flowering plant species            | CSUMB Master Plan     | DD&A          |
| December 2016 | Reconnaissance-level wildlife and general habitat | Oak Woodlands Project | DD&A          |
| Spring 2017   | Focused Monterey gilia                            | N/A                   | F. Watson Lab |
| August 2017   | Reconnaissance-level wildlife and general habitat | CSUMB Master Plan     | DD&A          |
| January 2023  | Reconnaissance-level wildlife and general habitat | Proposed Project      | DD&A          |

In surveys conducted by DD&A, the project site was surveyed for botanical resources following the applicable guidelines outlined in the U.S. Fish and Wildlife Service (Service) *Guidelines for Conducting and Reporting Botanical Inventories for Federally listed, Proposed and Candidate Plants* (Service, 2000), the California Department of Fish and Wildlife (CDFW) *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW, 2018), and California Native Plant Society (CNPS) *Botanical Survey Guidelines* (CNPS, 2001). Populations of five or fewer special-status plants were mapped as a point and the number of individual plants was documented, while population was documented. Populations included all individuals within approximately three feet of another individual; individual plants further away than three feet were mapped as a separate polygon or point.

The Service's protocol for special-status plant surveys requires that surveys are conducted approximately every three years (Service, 2000), while CDFW's protocol requires that surveys are conducted every one to five years depending on the natural communities present (CDFW, 2018). Given these protocols, the results of 2016 and 2017 surveys may not reflect current conditions. Therefore, in addition to the results of previous surveys, this analysis is based on the presence of suitable habitat.

### 2.2 Data Sources

DD&A conducted a desktop literature review to determine the presence or potential presence of special-status species and other sensitive biological resources within the project site. Primary data sources include:

- Current agency status information from the Service and CDFW for species listed, proposed for listing, or candidates for listing as threatened or endangered under the federal Endangered Species Act (ESA) or the California Endangered Species Act (CESA), and those considered CDFW "species of special concern", including:
  - California Natural Diversity Database (CNDDB) occurrences reports from the U.S.
     Geological Survey (USGS) Marina, Monterey, Moss Landing, Prunedale, Salinas, Seaside, and Spreckels quadrangles (Appendix A; CDFW, 2023), and
  - The Service's Information for Planning and Consultation (IPaC) Resource List for the project site (**Appendix B**; Service, 2023a);
- The California Native Plant Society (CNPS) Inventory of Rare and Endangered Vascular Plants of California (CNPS, 2023);
- The National Wetlands Inventory Wetlands Mapper (Service, 2023b);
- The National Hydrographic Dataset (USGS, 2022);
- Flora and Fauna Baseline Study of Fort Ord (U.S. Army Corps of Engineers [ACOE], 1992);
- Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord (HMP) (ACOE, 1997);
- Draft Biological Resources Report for the Proposed CSUMB Master Plan and Near-Term Development Components (DD&A, 2022).

From these resources, a list of special-status plant and wildlife species known or with the potential to occur in the vicinity of the project site was created (**Appendix C**). This list presents these species along with their legal status, habitat requirements, and a brief statement of the likelihood to occur within the project site.

#### 2.2.1 Botany

The classification and characterization of the vegetation of the project site is based on 2016 and 2017 field observations and the *Manual of California Vegetation* (Sawyer et.al., 2009). Vegetation types identified in the *Manual of California Vegetation* were utilized to determine if communities identified as sensitive on CDFW's *California Natural Communities List* (CDFW, 2022) are present within the project site. Information regarding the distribution and habitats of local and state vascular plants was also reviewed (Howitt and Howell, 1964 and 1973; Munz and Keck, 1973; Baldwin et al., 2012; Matthews and Mitchell, 2015; Jepson Flora Project, 2022). All plants observed within the project site during the field observations were identified to species or intraspecific taxon necessary to eliminate them as being special-status species using keys and descriptions in *The Jepson Manual: Vascular Plants of California, Edition 2* (Baldwin et al., 2012) and *The Plants of Monterey County an Illustrated Field Key* (Matthews and Mitchell, 2015). Scientific nomenclature for plant species identified within this document follows Baldwin, et. al, (2012); common names follow Matthews and Mitchell (2015). A full botanical inventory was not recorded for the project site but the dominant species within each habitat were noted. Dominant plant species are those which are more numerous than their competitors in an ecological community or makes up more of the

biomass; generally, the species that are most abundant. Most ecological communities are defined by their dominant species.

The California Invasive Plant Council (Cal-IPC) Inventory (Cal-IPC, 2023) was reviewed to determine if invasive plant species are present within the project site.

# 2.2.2 Wildlife

The presence or potential presence of special-status wildlife within the project site were determined using field observations of habitat and local occurrence data. The following literature and data sources were reviewed: CDFW reports on special-status wildlife (Remsen, 1978; Williams, 1986; Jennings and Hayes, 1994; Thelander, 1994); *Monterey Birds* (Roberson 2002); California Wildlife Habitat Relationships Program species-habitat models (CDFW, 2008; Zeiner et al., 1988 and 1990); *Flora and Fauna Baseline Study of Fort Ord* (ACOE, 1992); and the HMP (ACOE, 1997); and general wildlife references (Stebbins, 1985).

# 2.3 Definitions

#### 2.3.1 Sensitive Habitats

Sensitive habitats include riparian corridors, wetlands, habitats for legally protected species, areas of high biological diversity, areas supporting rare or special-status wildlife habitat, and unusual or regionally restricted vegetation types. Vegetation types considered sensitive include those listed on CDFW's *California Natural Communities List* (i.e., those habitats that are rare or endangered within the borders of California) (CDFW, 2021), those that are occupied by species listed under the ESA or are critical habitat in accordance with the ESA, and those that are defined as Environmentally Sensitive Habitat Areas under the California Coastal Act. Specific habitats may also be identified as sensitive in city or county general plans or ordinances. Sensitive habitats are regulated under federal regulations (such as the Clean Water Act and Executive Order 11990 – Protection of Wetlands), state regulations (such as CEQA and the CDFW Streambed Alteration Program), or local ordinances or policies (such as city or county tree ordinances and general plan policies).

# 2.3.2 Special-Status Species

Special-status species are those plants and animals that have been formally listed or proposed for listing as endangered or threatened or are candidates for such listing under ESA or CESA. Listed species are afforded legal protection under the ESA and CESA. Species that meet the definition of rare or endangered under the CEQA Guidelines Section 15380 are also considered special-status species. Animals on the CDFW's list of "species of special concern" (most of which are species whose breeding populations in California may face extirpation if current population trends continue) meet this definition and are typically provided management consideration through the CEQA process, although they are not legally protected under the ESA or CESA. CDFW also includes some animal species that are not assigned any of the other status designations in the CNDDB "Special Animals" list; however, these species have no legal or protection status and are not analyzed in this document.

Plants listed as rare under the California Native Plant Protection Act (CNPPA) or included in CNPS California Rare Plant Ranks (CRPR; formerly known as CNPS Lists) 1A, 1B, 2A, and 2B are also treated as special-status species as they meet the definitions of Sections 2062 and 2067 of the CESA and in

accordance with CEQA Guidelines Section 15380.<sup>1</sup> In general, the CDFW requires that plant species on 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); and CRPR 2B (plants rare, threatened, or endangered in California, but more common elsewhere) of the CNPS Inventory of Rare and Endangered Vascular Plants of California (CNPS, 2021) be fully considered during the preparation of environmental documents relating to CEQA. CNPS CRPR 4 species (plants of limited distribution) may, but generally do not, meet the definitions of Sections 2062 and 2067 of CESA, and are not typically considered in environmental documents relating to CEQA. While other species (i.e., CRPR 3 or 4 species) are sometimes found in database searches or within the literature, these do not meet the definitions of Section 2062 and 2067 of CESA and are not analyzed in this document.

Raptors (e.g., eagles, hawks, and owls) and their nests are protected under California Fish and Game Code Section 3503.5. Section 3503.5 states that it is "unlawful to take, possess, or destroy the nest or eggs of any such bird except otherwise provided by this code or any regulation adopted pursuant thereto." In addition, protected species under Fish and Game Code Section 3511 (birds), Section 4700 (mammals), Section 5515 (fish), and Section 5050 (reptiles and amphibians) are also considered special-status animal species. Species with no formal special-status designation but thought by experts to be rare or in serious decline may also be considered special-status animal species in some cases, depending on project-specific analysis and relevant, localized conservation needs or precedence.

### 2.4 Regulatory Setting

The following discussion describes the major federal, state, and local laws regulating biological resources that may be applicable to the project.

# 2.4.1 <u>Federal Regulations</u>

Federal Endangered Species Act

Provisions of the ESA of 1973 (16 USC 1532 et seq., as amended) protect federally listed threatened or endangered species and their habitats from unlawful take. Listed species include those for which proposed and final rules have been published in the Federal Register. The ESA is administered by the Service or National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS). In general, NMFS is responsible for the protection of ESA-listed marine species and anadromous fish, whereas other listed species are under Service jurisdiction.

Section 9 of ESA prohibits the take of any fish or wildlife species listed under ESA as endangered or threatened. Take, as defined by ESA, is "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or attempt to engage in any such conduct." Harm is defined as "any act that kills or injures the fish or wildlife...including significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife." In addition, Section 9 prohibits removing, digging up, and maliciously damaging or destroying federally listed plants on sites under federal jurisdiction. Section 9 does not prohibit take of federally listed plants on sites not under federal jurisdiction. If there is the potential for incidental take of a federally listed fish or wildlife species, take of listed species can be authorized through either the Section 7 consultation process for federal actions or a Section 10 incidental take permit process

<sup>&</sup>lt;sup>1</sup> CNPS initially created five CRPR to categorize degrees of concern; however, to better define and categorize rarity in California's flora, the CNPS Rare Plant Program and Rare Plant Program Committee have developed the new CRPR 2A and CRPR 2B.

for non-federal actions. Federal agency actions include activities that are on federal land, conducted by a federal agency, funded by a federal agency, or authorized by a federal agency (including issuance of federal permits).

Fort Ord Installation-Wide Multispecies Habitat Management Plan

The U.S. Army's decision to close and dispose of the Fort Ord military base was considered a major federal action that could affect listed species under the ESA. In 1993, the Service issued a Biological Opinion (BO) in accordance with Section 7 of the ESA on the disposal and reuse of former Fort Ord requiring that an HMP be developed and implemented to reduce the incidental take of listed species and loss of habitat that supports these species (Service, 1993, Service, 2017b). The *Fort Ord Installation-Wide Multispecies Habitat Management Plan* (Fort Ord HMP or HMP) was prepared to assess impacts on vegetation and wildlife resources and provide mitigation for their loss associated with the disposal and reuse of former Fort Ord (ACOE, 1997).

The HMP establishes guidelines for the conservation and management of species and habitats on former Fort Ord lands by identifying lands that are available for development, lands that have some restrictions with development, and habitat reserve areas. The intent of the plan is to establish large, contiguous habitat conservation areas and corridors to compensate for future development in other areas of the former base. The HMP identifies what type of activities can occur on each parcel at former Fort Ord; parcels are designated as "development with no restrictions," "habitat reserves with management requirements," or "habitat reserves with development restrictions." The HMP sets the standards to assure the long-term viability of former Fort Ord's biological resources in the context of base reuse so that no further mitigation should be necessary for impacts to species and habitats considered in the HMP. This plan has been approved by the Service; the HMP, deed restrictions, and Memoranda of Agreement between the Army and various land recipients provide the legal mechanism to assure HMP implementation. It is a legally binding document, and all recipients of former Fort Ord lands are required to abide by its management requirements and procedures.

The HMP anticipates some losses to special-status species and sensitive habitats as a result of redevelopment of the former Fort Ord. With the designated reserves and corridors and habitat management requirements in place, the losses of individuals of species and sensitive habitats considered in the HMP are not expected to jeopardize the long-term viability of those species, their populations, or sensitive habitats on former Fort Ord. Recipients of disposed land with restrictions or management guidelines designated by the HMP are obligated to implement those specific measures through the HMP and through deed covenants. However, the HMP does not provide specific authorization for incidental take of federal or state listed species to existing or future non-federal land recipients under the ESA or CESA. As such, impacts to applicable federal and state listed species require incidental take authorization under Section 7 or Section 10 from the Service and/or a Section 2081 incidental take permit (ITP) from the CDFW.

The project site is located within designated "development" parcels under the HMP. Parcels designated as "development" do not have management requirements relative to HMP species. However, the 2017 Programmatic BO and HMP require the identification of sensitive botanical resources within the development parcels that may be salvaged for use in restoration activities in reserve areas (Service, 2017b and ACOE, 1997).

# 2.4.2 State Regulations

# California Endangered Species Act

The CESA was enacted in 1984. The California Code of Regulations (Title 14, §670.5) lists animal species considered endangered or threatened by the state. Section 2090 of CESA requires state agencies to comply with endangered species protection and recovery and to promote conservation of these species. Section 2080 of the Fish and Game Code prohibits "take" of any species that the commission determines to be an endangered species or a threatened species. "Take" is defined in Section 86 of the Fish and Game Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." A Section 2081 Incidental Take Permit from the CDFW may be obtained to authorize "take" of any state listed species.

# California Native Plant Protection Act

The CNPPA of 1977 directed CDFW to carry out the legislature's intent to "preserve, protect and enhance rare and Endangered plants in the State." The CNPPA prohibits importing rare and Endangered plants into California, taking rare and Endangered plants, and selling rare and Endangered plants. The CESA and CNPPA authorized the Fish and Game Commission to designate endangered, threatened, and rare species and to regulate the taking of these species (§2050-2098, Fish and Game Code). Plants listed as rare under the CNPPA are not protected under CESA; however, these plants may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research.

# California Fish and Game Code

<u>Birds</u>. Section 3503 of the Fish and Game Code states that it is "unlawful to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto." Section 3503.5 prohibits the killing, possession, or destruction of any birds in the orders Falconiformes or Strigiformes (birds-of-prey). Section 3511 prohibits take or possession of fully protected birds. Section 3513 prohibits the take or possession of any migratory nongame birds designated under the federal Migratory Bird Treaty Act (MBTA). Section 3800 prohibits take of nongame birds.

<u>Fully Protected Species</u>. The classification of fully protected was the state's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish (§5515), mammals (§4700), amphibians and reptiles (§5050), and birds (§3511). Most fully protected species have also been listed as threatened or endangered species under the more recent endangered species laws and regulations. Fully protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

<u>Species of Special Concern.</u> As noted above, the CDFW also maintains a list of wildlife "species of special concern." Although these species have no legal status, the CDFW recommends considering these species during analysis of project impacts to protect declining populations and avoid the need to list them as endangered in the future.

#### CSUMB Master Plan

In accordance with CEQA requirements, CSUMB prepared and adopted an Environmental Impact Report (EIR) for the CSUMB Master Plan in 2022 (State Clearinghouse No. 2017051042). The Master Plan EIR included a programmatic analysis of the potential impacts to sensitive resources that could result from projects at the campus, and mitigation measures were identified to reduce potentially significant impacts to a less-than-significant level. The mitigation measures were adopted in the Mitigation Monitoring and

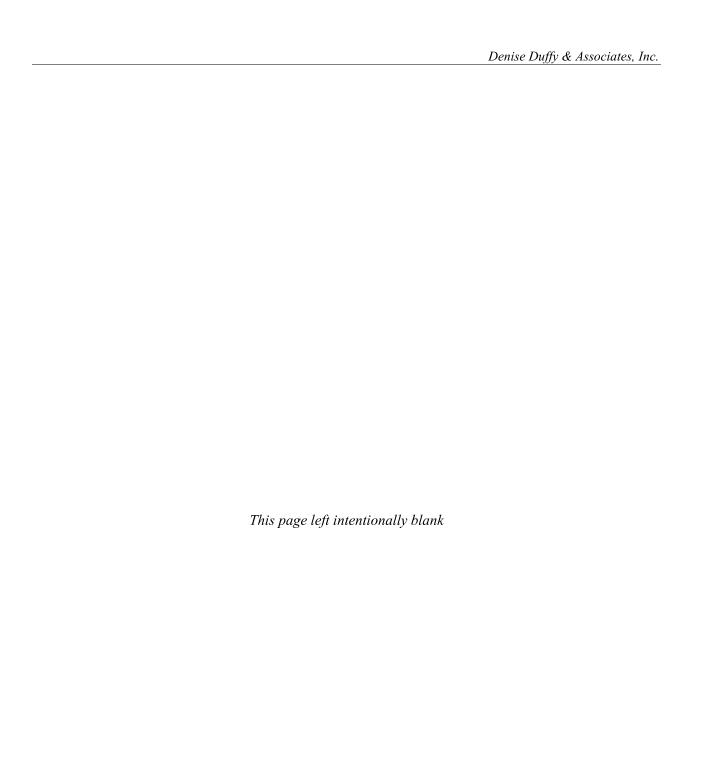
Reporting Program (MMRP) for the Master Plan EIR, and implementation of the adopted mitigation measures are required for any projects on the campus. The measures required by the MMRP that apply to the proposed project include Mitigation Measures BIO-1a, BIO-1b, and BIO-1c, which require that project-specific biological assessments are prepared prior to development of any specific site. Specific requirements of these measures as they relate to the proposed project are detailed in *Section 4, Impacts and Mitigation*.

#### PG&E Habitat Conservation Plan

In 2020, PG&E prepared and adopted the *Multiple Region Operation and Maintenance Habitat Conservation Plan* (MRHCP), a multiple species Habitat Conservation Plan (HCP) for routine operation and maintenance activities in 34 California counties, including the County of Monterey. The MRHCP provides a method for PG&E to comply with Section 10 of ESA by analyzing potential impacts of its routine operation and maintenance activities to federally listed species and providing field protocols and measures for avoiding, minimizing, and mitigating those impacts. The measures required by the MRHCP that apply to the proposed project are detailed in *Section 4, Impacts and Mitigation*.

# 2.4.3 <u>Local Regulations</u>

As a state entity, CSUMB is not subject to local government planning or ordinances, such as the general plans and ordinances for the cities of Marina and Seaside and the County of Monterey. Accordingly, because neither local general plans nor any other local land use plans or ordinances are applicable to CSUMB, such local plans and ordinances are not summarized here or further analyzed in this report.



# 3. RESULTS

#### 3.1 Natural Communities

The project site contains ruderal/disturbed habitat and is adjacent to mixed coast live oak woodland/central maritime chaparral habitat (**Figure 5**). In addition, a portion of the project site is developed. The following discussion provides an overview of these communities and their distribution within the site.

#### 3.1.1 Ruderal/Disturbed

- A Manual of California Vegetation classification: None
- California Natural Communities List: Not listed

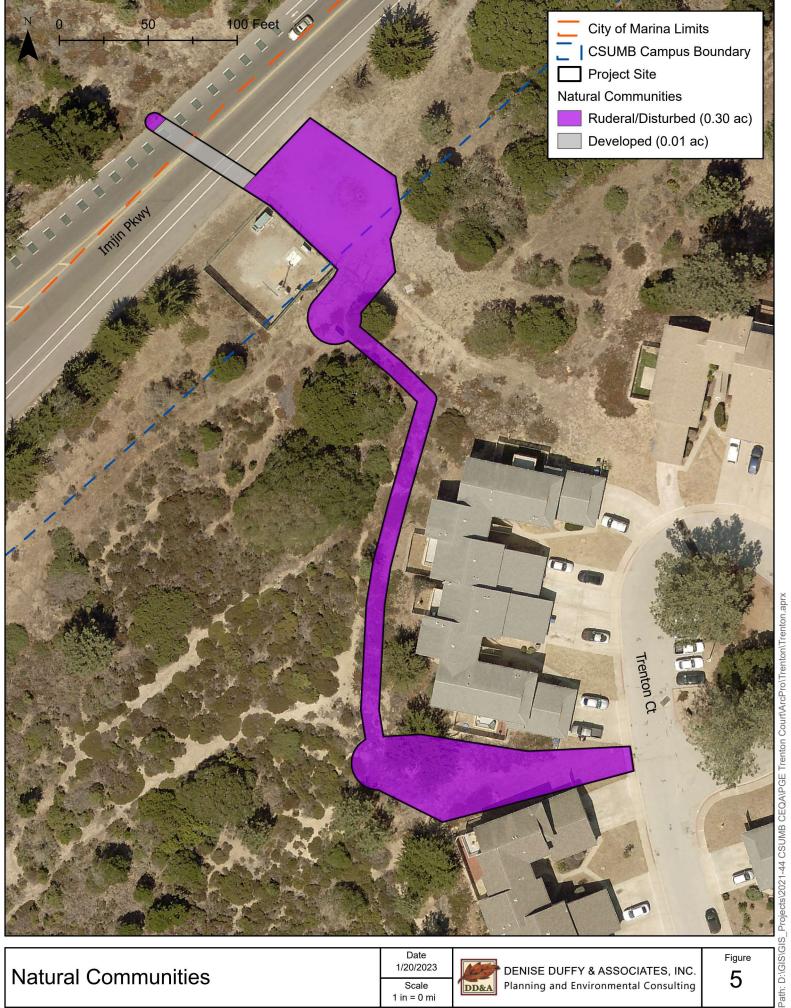
Ruderal areas are those areas which have been developed or have been subject to historic and ongoing disturbance by human activities and are devoid of vegetation or dominated by non-native and/or invasive weed species. Ruderal areas within the project site includes areas surrounding development that are regularly disturbed and other areas of historic disturbance. They are dominated by ice plant (*Carpobrotus edulis*), long-beaked filaree (*Erodium botrys*), and non-native grasses. Other common species observed include Torrey pine (*Pinus torreyana*), mock heather (*Ericameria ericoides*), coyote brush (*Baccharis pilularis*), silver bush lupine (*Lupinus albifrons*), and deerweed (*Acmispon glaber*). Approximately 0.30 acre of ruderal habitat occurs within the project site (**Figure 5**).

Ruderal areas are considered to have low biological value as they are generally dominated by non-native plant species and consist of relatively low-quality habitat from a wildlife perspective. However, common wildlife species which do well in urbanized and disturbed areas, including American crow (*Corvus brachyrhynchos*), California ground squirrel (*Otospermophilus beecheyi*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), western scrub jay (*Aphelocoma californica*), European starling (*Sturnus vulgaris*), western fence lizard (*Sceloporus occidentalis*), and rock pigeon (*Columba livia*), may forage in ruderal areas.

#### 3.1.2 <u>Developed</u>

- A Manual of California Vegetation classification: None
- California Natural Communities List: Not listed

A portion of the project site lies within the Imjin Parkway right-of-way and is developed with paved roads. No vegetation is present within this area, which is regularly disturbed by vehicle traffic, and it is considered to have little or no biological value. Approximately 0.01 acre of development occurs within the project site (**Figure 5**).



**Natural Communities** 

Date 1/20/2023

Scale 1 in = 0 mi



### 3.2 Sensitive Habitats

Due to its limited distribution and pressures from development and urbanization, military operations, and fire suppression, central maritime chaparral is listed as a sensitive habitat on the CDFW's *Natural Communities List* (CDFW, 2022). It is also identified as a sensitive habitat in the HMP (ACOE, 1997). Oak woodlands are considered important natural communities because they provide a variety of ecological, aesthetic, and economical values. The extent of oak woodland in California has declined due to agricultural conversion, urban development, fuelwood harvesting, and grazing activities. Coast live oak woodland is not considered a sensitive habitat by CDFW or the HMP (CDFW, 2022; ACOE, 1997); however, as a native tree and habitat, impacts to coast live oak trees and woodland are typically addressed and mitigated under CEQA and per the CSUMB Tree Restoration Program. While these sensitive habitats do not occur within the project site, they occur directly adjacent to the site.

# 3.3 Special-Status Species

Published occurrence data within the project site and surrounding quadrangles were evaluated to compile a table of special-status species known to occur in the vicinity of the project site (see *Section 2, Methods*). Each of these species was evaluated for their likelihood to occur within and immediately adjacent to the project site. The special-status species that are known to occur within or adjacent to the project site or that were determined to have a moderate or high potential to occur within or adjacent to the site are discussed below. All other species are assumed unlikely to occur or have a low potential to occur based on the species-specific reasons presented in **Appendix C**, are therefore unlikely to be impacted by the project, and are not discussed further.

# 3.3.1 Special-Status Wildlife

Townsend's Big-Eared Bat

The Townsend's big-eared bat (*Corynorhinus townsendii*) is a CDFW species of special concern. The Townsend's big-eared bat is a year round resident in California occurring from low desert to mid-elevation montane habitats. It is found primarily in rural settings from inland deserts to coastal redwoods, oak woodland of the inner Coast Ranges and Sierra foothills, and low to mid-elevation mixed coniferous-deciduous forests. Townsend's big-eared bats typically roost during the day in caves and mines, but can roost in buildings that offer suitable conditions. Night roosts are in more open settings and include bridges, rock crevices, and trees. It hibernates in mixed sex aggregations of a few to several hundred individuals. Hibernation is more prolonged in colder areas. This species arouses periodically and moves to alternative roosts and actively forages and drinks throughout the winter. A single young is born per year between May and July. Females form maternity colonies of 35 to 200 individuals, while males roost individually. Townsend's big-eared bats feed primarily on small moths that are gleaned from vegetation.

The CNDDB reports one occurrence of Townsend's big-eared bat within the quadrangles reviewed, located approximately 1.6 miles east of the project site. This species may utilize some of the coast live oak trees within and adjacent to the project site for night roosts and may forage over all undeveloped areas of the project site.

# Monterey Dusky-Footed Woodrat

The Monterey dusky-footed woodrat (*Neotoma macrotis luciana*, MDFW) is a CDFW species of special concern. This is a subspecies of the dusky-footed woodrat (*Neotoma macrotis*), which is common to oak woodlands and other forest types throughout California. Dusky-footed woodrats are frequently found in forest habitats with moderate canopy cover and a moderate to dense understory, including riparian forests; however, they may also be found in chaparral communities. Relatively large nests are constructed of grass, leaves, sticks, and feathers and are built in protected spots, such as rocky outcrops or dense brambles of blackberry and/or poison oak. Typical food sources for this species include leaves, flowers, nuts, berries, and truffles. Dusky-footed woodrats may be a significant food source for small- to medium-sized predators. Populations of this species may be limited by the availability of nest material. Within suitable habitat, nests are often found in close proximity to each other.

Suitable habitat for MDFW is present within the project site in ruderal/disturbed habitat. The CNDDB reports only one occurrence of this species within the quadrangles reviewed, located approximately 5.1 miles east of the project site. However, this species is known to occur throughout the former Fort Ord, and nests of this species were observed within the East Campus area during biological surveys in 2016 and 2017. Therefore, MDFW has the potential to occur within undeveloped portions of the project site and adjacent to the site.

# Monterey Ornate Shrew

The Monterey ornate shrew (*Sorex ornatus salarius*), also known as the Salinas ornate shrew, is a CDFW species of special concern and HMP species. In general, this shrew is common in the southern two-thirds of California west of the Sierra Nevada, from Mendocino to Butte counties, south to the Mexican border. It occupies a variety of mostly moist or riparian woodland habitats and also occurs within chaparral, grassland, and emergent wetland habitats where there is thick duff or downed logs. The breeding season is long; while most pregnancies occur in March and April, they may occur from February through October. The litter size is about six and females may have more than one litter per year. Most individuals do not live to breed a second year. Foraging occurs under logs rocks and leaf litter, and prey items are mostly insects and some other invertebrates.

The CNDDB reports six occurrences of the Monterey ornate shrew within the quadrangles reviewed, the nearest located approximately 4.8 miles from the project site. In addition, Figure B-18 in the HMP identifies the project site as containing potential habitat for this species (ACOE, 1997). As with most shrews, little is known about their ecology since they are hard to locate and do not survive well in traps due to very high metabolic rates. However, field surveys on the UC Fort Ord Natural Reserve found that habitats within and directly adjacent to the project site are likely considered suitable habitat for the shrew. Therefore, Monterey ornate shrew has the potential to occur within undeveloped areas of in the project site and adjacent to the site.

#### Northern California Legless Lizard

The Northern California legless lizard (*Anniella pulchra*) is a CDFW species of special concern, as well as an HMP species.<sup>2</sup> This fossorial (burrowing) species typically inhabits sandy or loose (friable) soils.

<sup>&</sup>lt;sup>2</sup> The HMP identifies this species as black-legless lizard (*Anniella pulchra* ssp. *nigra*) to differentiate it from the previously identified silvery-legless lizard (*A. p.* ssp. *pulchra*). These subspecies are based primarily on phenotypic differences (black-legless lizard being much darker, having fewer scales on the back, and a relatively shorter tail) and very limited genetic work. Further, the range of the black-legless lizard has historically been classified as "restricted to coastal and interior dune sand other

Habitats known to support Northern California legless lizard include (but are not limited to) coastal dunes, valley and foothill grasslands, chaparral, and coastal scrub at elevations from near sea level to approximately 1,800 meters (6,000 feet). The Northern California legless lizard forages on invertebrates beneath the leaf litter or duff layer at the base of bushes and trees or under wood, rocks, and slash in appropriate habitats. The diet of this species likely overlaps to some extent with that of juvenile alligator lizards and perhaps some other salamanders. This species may be preyed upon by alligator lizards, snakes, birds, and small mammals. Little is known about the specific habitat requirements for courtship and breeding; however, the mating season for this species is believed to begin late spring or early summer, with one to four live young born between September and November.

Suitable habitat and soils for Northern California legless lizard is present throughout undeveloped areas of the project site where appropriate cover conditions occur. The CNDDB reports an occurrence of this species along Schoonover Road approximately 420 feet from the project site. Therefore, the Northern California legless lizard has the potential to occur within undeveloped areas of the project site and adjacent to the site.

#### Coast Horned Lizard

The coast horned lizard (*Phrynosoma blainvillii*) is a CDFW species of special concern. Horned lizards occur in valley-foothill hardwood, conifer, and riparian habitats, as well as in pine-cypress, juniper, chaparral, and annual grass habitats. This species generally inhabits open country, especially sandy areas, washes, flood plains, and wind-blown deposits in a wide variety of habitats. Coast horned lizards rely on camouflage for protection and will often lay motionless when approached. Horned lizards often bask in the early morning on the ground or on elevated objects such as low boulders or rocks. Predators and extreme heat are avoided by burrowing into loose soil. Periods of inactivity and winter hibernation are spent burrowed into the soil or under surface objects. Little is known about the habitat requirements for breeding and egg-laying of this species. Prey species include ants, beetles, wasps, grasshoppers, flies, and caterpillars.

Suitable habitat for coast horned lizard is present throughout undeveloped areas of the project site. The CNDDB reports five occurrences of this species within the quadrangles reviewed, including two occurrences less than 100 feet from the project site. In addition, DD&A biologists have observed this species throughout the former Fort Ord. Therefore, coast horned lizard has the potential to occur within undeveloped areas of the project site and adjacent to the site.

# Nesting Raptors and Other Protected Avian Species

Raptors, their nests, and other nesting birds are protected under California Fish and Game Code. While the life histories of these species vary, overlapping nesting and foraging similarities allow for their concurrent discussion. Most raptors are breeding residents throughout most of the wooded portions of the state. Stands of live oak, riparian deciduous, or other forest habitats, as well as open grasslands, are used most frequently for nesting. Breeding generally occurs February through September, with peak activity May through July.

areas of sandy soils in the vicinity of Monterey Bay and the Monterey Peninsula" (Service, 1998), while the range of silvery-legless lizard has been classified as widespread throughout central California (Parham and Papenfuss, 2008). However, recent genetic studies have revealed five lineages of this species that correspond with different geographic areas of California (Parham and Papenfuss, 2008). These studies do not, however, identify the legless lizards occurring on the coast of Monterey Bay (i.e., the currently designated black-legless lizard) as a separate lineage. Currently, CDFW identifies both subspecies as the Northern California legless lizard and this document, therefore, follows the current regulatory identification.

Prey for these species include small birds, small mammals, and some reptiles and amphibians. Many raptor species hunt in open woodland and habitat edges.

Various species of raptors and other nesting birds, such as red-tailed hawk (*Buteo jamaicensis*), red-shouldered hawk (*Buteo lineatus*), American kestrel (*Falco sparverius*), great horned owl (*Bubo virginianus*), and turkey vulture (*Cathartes aura*), have a potential to nest within any of the large trees present adjacent to the project site. In addition, the white-tailed kite (*Elanus leucurus*), a California Fully Protected Species, has known occurrences in the vicinity of the project and has the potential to occur within and adjacent to the project site. This species may nest in the trees within and adjacent to the project site as well as forage over any undeveloped areas within the project site.

#### 3.3.2 Special-Status Plants

The following discussion identifies the special-status plant species that are known to occur or that have the potential to occur within the project site (**Appendix C**). Focused botanical surveys were conducted within the project site in 2016 (for all special-status plants) and in January 2023 (for perennial special-status plants). As described in *Section 2, Methods*, the Service's protocol for special-status plant surveys requires that surveys are conducted approximately every three years, while CDFW's protocol requires that surveys are conducted every one to five years depending on the natural communities present. Given these protocols, the results of 2016 surveys may not reflect current conditions. Therefore, in addition to the results of previous surveys, this analysis is based on the presence of suitable habitat.

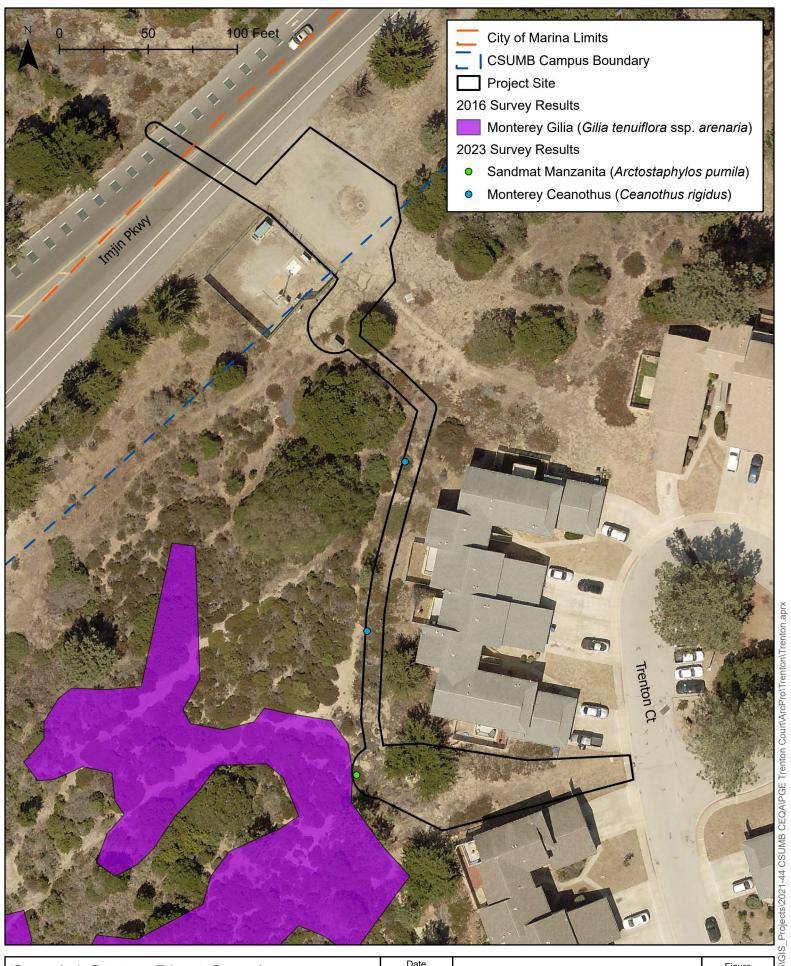
#### Sandmat Manzanita

Sandmat manzanita (*Arctostaphylos pumila*) is a CNPS CRPR 1B and HMP species in the Ericaceae family. This evergreen shrub blooms from February through May and is associated with openings in chaparral, coastal scrub, closed cone coniferous forest, coastal dunes, and cismontane woodland habitats on sandy soils at elevations of three to 205 meters. A large and important portion of this species' range is found on the former Fort Ord (Army, 1992), where it grows near the similar Hooker's manzanita. Over twenty years of weed abatement have resulted in improved habitat quality for sandmat manzanita within the former Fort Ord; however, continued expansion of exotic species is also an on-going threat to this species.

Suitable habitat for sandmat manzanita is present within all undeveloped areas of the project site. DD&A observed one sandmat manzanita individual within the site (**Figure 6**). Other sandmat manzanita plants occur adjacent to the project site within adjacent mixed coast live oak woodland/maritime chaparral habitat.

# Monterey Ceanothus

Monterey ceanothus (*Ceanothus rigidus*) is a CNPS CRPR List 4 and HMP species in the Rhamnaceae family. This evergreen shrub blooms from February through April (sometimes through June) and is associated with closed-cone coniferous forests, chaparral, and coastal scrub on sandy soils at elevations of three to 550 meters. It is endemic to the central California coast in Monterey, San Luis Obispo, and Santa Cruz Counties; however, it is presumed extirpated from the latter (Elkhorn Slough CTP, 2007). The most abundant and probably the most vigorous population of Monterey ceanothus is found on the former Fort Ord (Army, 1992).



Special-Status Plant Species Occurrences Date 7/13/2023

Scale 1 in = 0 mi



DENISE DUFFY & ASSOCIATES, INC. Planning and Environmental Consulting

Figure

Suitable habitat for Monterey ceanothus is present within the project site in ruderal/disturbed habitat. DD&A observed two Monterey ceanothus individuals within the ruderal/disturbed areas of the project site during the January 2023 biological survey (**Figure 6**). Other Monterey ceanothus plants occur adjacent to the project site within adjacent mixed coast live oak woodland/maritime chaparral habitat.

### Monterey Gilia

Monterey gilia is a federally endangered, state threatened, CNPS CRPR 1B, and HMP species endemic to the Monterey Bay area. This small, erect annual herb in the Polemoniaceae family typically germinates from December to February and blooms from April through June. It can self-pollinate as well as outcross, and fruit is set from the end of April to the end of May (ICF, 2019). It produces small seeds that are dropped or shaken from their capsules and are then dispersed, likely by gravity or wind. Monterey gilia is found in sandy openings of maritime chaparral, cismontane woodland, coastal dune, and coastal scrub habitats at elevations of zero to 45 meters. It occurs at scattered locations throughout most of the former Fort Ord, which constitutes a substantial portion (at least half) of its range (Army, 1992). Most populations are small and localized, occurring on roadsides, on the cut banks of sandy ephemeral drainages, in recently burned chaparral, and in other disturbed patches; however, large populations are known from the southern portion of Marina Municipal Airport. Although it often co-occurs with Monterey spineflower, it is much more restricted and differs in microhabitat requirements. It is also found with virgate eriastrum, a species that appears to have similar ecological requirements.

Many of the populations of Monterey gilia found at Fort Ord support individuals with characteristics intermediate with the related subspecies slender-flowered gilia (*G. tenuiflora* ssp. *tenuiflora*), which is an inland species known to occur near Fort Ord in sandy washes of woodlands in the Salinas Valley (Army, 1992). It is possible that Fort Ord is a zone of intergradation between these two subspecies. Current research from the CSUMB Department of Applied Environmental Science suggests that *G. tenuiflora* ssp. *arenaria* plants within the former Fort Ord comprise two distinct, equally endangered sub-species of *G. tenuiflora*, with characteristics of *G. tenuiflora* ssp. *arenaria* found in more coastal populations and those of *G. tenuiflora* ssp. *tenuiflora* found in more inland populations (pers. comm. Dr. Fred Watson, CSUMB).

Extremely limited in its range, Monterey gilia is critically endangered due to removal of its habitat for human development, degradation of its habitat from invasive, non-native plants, and trampling by recreational users (Service, 2020). Loss of populations and habitat have resulted from coastal urban development, sand mining operations, and golf course construction. Recreational users, such as off-road vehicle users, hikers, and equestrians, threaten populations and habitat. The introduction of the aggressive ice plant and European beach grass for dune stabilization has altered habitats to unsuitable conditions for sand gilia. Commercial and residential development in and near Marina, Seaside, Sand City, and the Monterey Peninsula threaten remaining sand gilia populations.

Suitable habitat for Monterey gilia is present adjacent to the site in the mixed coast live oak woodland/maritime chaparral habitat. The CNDDB reports 28 occurrences of this species within the quadrangles reviewed, including an occurrence which overlaps the project site. This species was observed directly adjacent to the project site during 2016 surveys by DD&A and 2017 surveys by the F. Watson Lab (**Figure 6**). This species was not observed within the project site during surveys conducted during its appropriate blooming period in 2016 and 2017. While the extent and density of Monterey gilia populations vary annually, the lack of historic observations and lack of suitable habitat within the site the likelihood of occurrence low. This species is addressed in this assessment due to its presence directly adjacent to the site.

# 4. IMPACTS AND MITIGATION

# 4.1 Thresholds of Significance

For the purposes of this analysis, an impact is significant and requires mitigation if it would result in any of the following:

- a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or the Service;
- b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or the Service;
- Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling hydrological interruption, or other means;
- d. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native nursery sites;
- e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or
- f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

# 4.2 Areas of No Impact

Criterion "c" is not evaluated for impacts to wetlands or other waters as none are present within or directly adjacent to the project site.

# 4.3 Impacts and Mitigation Measures

Impact BIO-1: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or the Service.

Impacts to Special-Status Plant Species

Two special-status plant species, sandmat manzanita and Monterey ceanothus, occur within the project site; DD&A mapped one sandmat manzanita and two Monterey ceanothus plants within the project site during a 2023 biological survey. Impacts to these plants will be avoided with implementation of the standard construction best management practices recommended below.

Monterey gilia is known to occur directly adjacent to the project site. Impacts to this species will be avoided with implementation of the standard construction best management practices recommended below. The Master Plan EIR and MMRP require implementation of the following measures to avoid, minimize, or mitigate CSUMB project impacts to special-status species:

MMRP Mitigation Measure BIO-1a: The CSUMB CPD [Campus Planning and Development] Department shall require that a biological survey of development sites be conducted by a qualified biologist to determine if the development could potentially impact HMP species or potential habitat (HMP Species include: California tiger salamander, Smith's blue butterfly, Northern California legless lizard, Monterey ornate shrew, Monterey spineflower, sand gilia, sandmat manzanita, Hooker's manzanita, Toro manzanita, Monterey ceanothus, seaside bird's-beak, coast wallflower, Eastwood's goldenbush and Yadon's piperia). A report describing the results of the surveys shall be provided to the CSUMB CPD Department prior to any ground disturbing activities. The report shall include, but not be limited to 1) a description of the biological conditions at the area; 2) identification of the potential for HMP species to occur or HMP species observed, if any; and 3) maps of the locations of HMP species or potential habitat, if observed.

If HMP species that do not require take authorization from the Service or CDFW are identified within the development site, salvage efforts for these species shall be evaluated by a qualified biologist in coordination with CSUMB CPD Department to further reduce impacts per the requirements of the HMP and BO. Where salvage is determined feasible and proposed, seed collection should occur from plants within the development site and/or topsoil should be salvaged within occupied areas to be disturbed. Seeds shall be collected during the appropriate time of year for each species by qualified biologists. The collected seeds and topsoil shall be used to revegetate temporarily disturbed construction areas and reseeding and restoration efforts on- or off-site, as determined appropriate by the qualified biologist and CSUMB CPD Department. For impacts to the HMP species within the development site that do require take authorization from the Service and/or CDFW, the CSUMB CPD Department shall comply with ESA and CESA and obtain necessary permits prior to construction. If non-HMP special-status species are identified during the implementation of this measure, MM-BIO-1b shall also be implemented.

MMRP Mitigation Measure BIO-1b: The CSUMB CPD Department shall require that a biological survey of development sites be conducted by a qualified biologist to determine if the development could potentially impact a special-status species or their habitat. A report describing the results of the surveys shall be provided to the CSUMB CPD Department prior to any ground disturbing activities. The report shall include, but not be limited to: 1) a description of the biological conditions at the area; 2) identification of the potential for special-status species to occur or special-status species observed, if any; 3) maps of the locations of special-status species or potential habitat, if observed; and 4) recommended mitigation measures, if applicable. If special-status species are determined not to occur at the development site, no additional mitigation is necessary.

If special-status species are observed or determined to have the potential to occur, the project biologist shall recommend measures necessary to avoid, minimize, and/or compensate for identified impacts. Measures shall include, but are not limited to, revisions to the project design and project modifications, pre-construction surveys, construction buffers, construction best management practices, monitoring, non-native species control, restoration and preservation, and salvage and relocation.

This assessment has been completed in compliance with these measures.

In addition, PG&E's MRHCP requires implementation of the following measures to avoid, minimize, or mitigate potential impacts from PG&E operation and maintenance activities to federally listed plant species:

**MRHCP AMM Plant-01:** No herbicides will be used for vegetation management, pole clearing, or any other purpose within 100 feet of a Map Book zone (except vegetation management's direct application to cut stumps when greater than 25 feet from a Map Book zone and in conformance with applicable pesticide regulations).

**MRHCP AMM Plant-02:** Heavy equipment shall remain on access roads or other previously disturbed areas unless otherwise prescribed by a land planner, biologist, or HCP administrator.

**MRHCP AMM Plant-03:** Stockpile separately the upper 4 inches of topsoil during excavations associated with covered activities. Stockpiles of topsoil will be used to restore the disturbed ROW.

In addition to implementing the required measures from the CSUMB Master Plan EIR and MMRP and the PG&E MRHCP, the following standard construction best management practices are recommended to further reduce potential impacts to special-status plant species:

- 1. A qualified biologist will conduct an Employee Education Program for the construction crew prior to any construction activities. The qualified biologist will meet with the construction crew at the onset of construction at the project site to educate the construction crew on the following: 1) the appropriate access route(s) in and out of the construction area and review project boundaries; 2) how a biological monitor will examine the area and agree upon a method which will ensure the safety of the monitor during such activities, 3) the special-status species and sensitive habitats that are known or may be present; 4) the specific mitigation measures that will be incorporated into the construction effort; 5) the general provisions and protections afforded by the Service and CDFW; and 6) the proper procedures if a special-status species is encountered within the project site.
- 2. Trees and vegetation not planned for removal or trimming will be protected prior to and during construction to the maximum possible with exclusionary fencing, such as hay bales for herbaceous and shrubby vegetation or protective wood barriers for trees. Only certified weed-free straw will be used to avoid the introduction of non-native, invasive species. A biological monitor will supervise the installation of protective fencing and monitor at least once per week until construction is complete to ensure that the protective fencing remains intact.
- 3. Following construction, disturbed areas will be restored to pre-project contours to the maximum extent possible and will be revegetated using locally occurring native species and native erosion control seed mix, per the recommendations of a qualified biologist.
- 4. Grading, excavating, and other activities that involve substantial soil disturbance will be planned and implemented in consultation with a qualified hydrologist, engineer, or erosion control specialist, and will utilize standard erosion control techniques to minimize erosion and sedimentation to native vegetation (pre-, during, and post-construction).
- 5. No firearms will be allowed on the project site at any time.
- 6. All food-related and other trash will be disposed of in closed containers and removed from the project site at least once a week during the construction period, or more often if trash is attracting

avian or mammalian predators. Construction personnel will not feed or otherwise attract wildlife to the area.

- 7. Impacts to special-status plants and adjacent sensitive habitat shall be avoided. Special-status plants and sensitive habitat shall be protected prior to and during construction to the maximum possible through the use of exclusionary fencing or flagging, such as construction fencing or hay bales. Only certified weed-free straw will be used to avoid the introduction of non-native, invasive species. A biological monitor will supervise the installation of protective fencing and monitor at least once per week until construction is complete to ensure that the protective fencing remains intact.
- 8. Any landscaping or replanting required for the project will not use species listed as noxious by the California Department of Food and Agriculture (CDFA) or invasive by the California Invasive Plant Council (Cal-IPC).
- 9. Bare and disturbed soil will be landscaped with CDFA recommended seed mix or plantings from locally adopted species to preclude the invasion on noxious weeds in the project site.
- 10. Construction equipment will be cleaned of mud or other debris that may contain invasive plants and/or seeds and inspected to reduce the potential of spreading noxious weeds, before mobilizing to arrive at the construction site and before leaving the construction site.

With implementation of the required measures from the CSUMB Master Plan EIR and MMRP, the PG&E MRHCP, and the standard construction best management practices recommended above, impacts to special-status plant species would be avoided or minimized. Therefore, this impact would be less than significant, and no mitigation is required.

#### Impacts to Special-Status Wildlife Species

Special-status wildlife species with the potential to occur within and adjacent to the project site include Townsend's big-eared bat, MDFW, Monterey ornate shrew, Northern California legless lizard, and coast horned lizard. In addition, raptors and other protected avian species, including white-tailed kite, have the potential to nest within and adjacent to the project site. The Master Plan EIR and MMRP identify the following mitigation to avoid or minimize potential impacts to raptors and other nesting birds:

MMRP Mitigation Measure BIO-1c: Construction activities that may directly (e.g., vegetation removal) or indirectly (e.g., noise/ground disturbance) affect protected nesting avian species shall be timed to avoid the breeding and nesting season. Specifically, vegetation and/or tree removal can be scheduled after September 16 and before January 31. Alternatively, a qualified biologist shall be retained by the CSUMB CPD Department to conduct pre-construction surveys for nesting raptors and other protected avian species within 500 feet of proposed construction activities if construction occurs between February 1 and September 15. Pre-construction surveys shall be conducted no more than 14 days prior to the start of construction activities during the early part of the breeding season (February through April) and no more than 30 days prior to the initiation of these activities during the late part of the breeding season (May through August). Because some bird species nest early in spring and others nest later in summer, surveys for nesting birds may be required to continue during construction to address new arrivals, and because some species breed multiple times in a season. The necessity and timing of these continued surveys shall be determined

by the qualified biologist based on review of the final construction plans and in coordination with the USFWS and CDFW, as needed for protected avian species nests.

If raptors or other protected avian species nests are identified during the pre-construction surveys, the qualified biologist shall notify the CSUMB CPD Department and an appropriate no-disturbance buffer shall be imposed within which no construction activities or disturbance shall take place (generally 500 feet in all directions for raptors; other avian species may have species-specific requirements) until the young of the year have fledged and are no longer reliant upon the nest or parental care for survival, as determined by a qualified biologist.

In addition, PG&E's MRHCP requires implementation of the following field protocols and measures to avoid, minimize, or mitigate potential impacts from PG&E operation and maintenance activities to federally listed wildlife species and nesting birds:

**MRHCP FP-02:** Park vehicles and equipment on pavement, existing roads, or other disturbed or designated areas (barren, gravel, compacted dirt).

**MRHCP FP-03:** Use existing access and ROW roads. Minimize the development of new access and ROW roads, including clearing and blading for temporary vehicle access in areas of natural vegetation.

**MRHCP FP-04:** Route off-road access paths and site work sites to minimize impacts on plants, shrubs, and trees, small mammal burrows, and unique natural features (e.g., rock outcrops).

**MRHCP FP-06:** Minimize potential for covered species to become trapped, injured, or killed in pipes, culverts, or under materials or equipment. Inspect pipes and culverts wide enough to be entered by a covered species that could inhabit the area where pipes are stored for wildlife species prior to moving pipes and culverts. Contact a biologist if a covered species or other federally listed species is suspected or discovered.

MRHCP FP-07: Vehicle speeds on unpaved roads will not exceed 15 miles per hour.

**MRHCP FP-08:** Prohibit trash dumping, firearms, open fires (such as barbecues), hunting, and pets (except for safety in remote locations) at work sites.

*MRHCP FP-10:* Minimize the covered activity footprint and minimize the amount of time spent at a work site to reduce the potential for take of species.

MRHCP FP-13: Fit open trenches or steep-walled holes with escape ramps of plywood boards or sloped earthen ramps at each end if left open overnight. Field crews will search open trenches or steep-walled holes every morning prior to initiating daily activities to ensure wildlife is not trapped. Field crews will not handle covered species. If any covered wildlife species is found, work will stop and a biologist will be notified. A biologist with appropriate take permits will relocate the species to adjacent habitat or the species will be allowed to naturally disperse, as determined by a biologist.

**MRHCP FP-19:** Inspect and maintain exclusion fencing installed to exclude species from work areas.

**MRHCP FP-18:** Nests with eggs and/or chicks will be avoided: contact a biologist or the Avian Protection Program Manager for further guidance. Work will be stopped until the crew can obtain clarification from a biologist or the Avian Protection Program Manager on how to proceed.

In addition to implementing the required measures from the CSUMB Master Plan EIR and MMRP and the PG&E MRHCP, the standard construction best management practices recommended above would further reduce potential impacts to special-status wildlife species. Therefore, this impact would be less than significant, and no mitigation is required.

Impact BIO-2: Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or the Service.

Mixed coast live oak woodland/ central maritime chaparral habitat, which is considered a sensitive natural community by CDFW and CSUMB, occurs directly adjacent to, but not within, the project site. The project has been designed to avoid this natural community and, therefore, would not result in impacts to a sensitive habitat. Implementation of the standard construction best management practices identified above would further ensure that impacts to mixed coast live oak woodland/ central maritime chaparral habitat are avoided. Therefore, this impact would be less than significant, and no mitigation is required.

Impact BIO-3: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native nursery sites.

Wildlife movement corridors are pathways or habitat linkages that connect discrete areas of natural open space otherwise separated or fragmented by topography, changes in vegetation, and other natural or manmade factors, such as urbanization. The fragmentation of natural habitat creates isolated "islands" of vegetation that may not provide sufficient area or resources to accommodate sustainable populations for a number of species and, therefore, adversely affect both genetic and species diversity. Corridors often partially or largely mitigate the adverse effects of fragmentation by: 1) allowing animals to move between remaining habitats to replenish depleted populations and increase the gene pool available; 2) providing escape routes from fire, predators, and human disturbances, thus, reducing the risk that catastrophic events (e.g., fire and disease) will result in population or species extinction; and 3) serving as travel paths for individual animals moving throughout their home range in search of food, water, mates, and other needs, or for dispersing juveniles in search of new home ranges.

The proposed project consists of the replacement of an existing electrical conduit within an urbanized area and would not include new development. The project would not fragment natural habitat beyond existing conditions or create a barrier to wildlife movement. Therefore, this impact would be less than significant, and no mitigation is required.

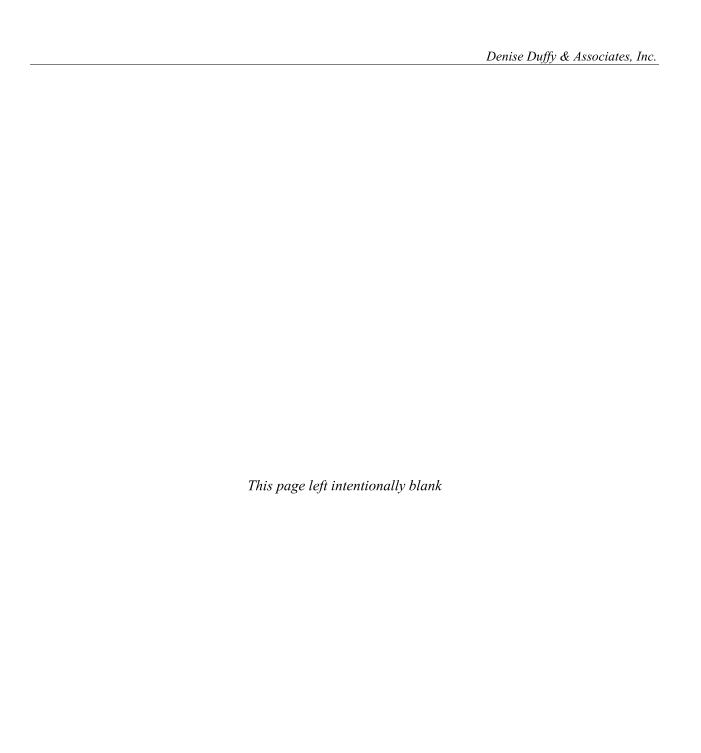
*Impact BIO-4:* Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

Implementation of the proposed project may result in minor tree trimming. CSUMB has established a tree restoration program for impacts to coast live oak and other trees resulting from projects that take place on campus. However, the proposed project would not require tree removal, and, therefore, implementation of

the project would not conflict with the CSUMB tree restoration program. This impact would be less than significant, and no mitigation is required.

Impact BIO-5: Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

As described in *Section 2.4, Regulatory Setting*, the project site is located within PG&E's approved MRHCP area. In addition, the project site is located within the former Fort Ord and the plan area of the HMP. The proposed project activities are consistent with the approved HMP as it is located within parcels designated for "development" and the parcels do not have any restrictions for use. In addition, the proposed project will comply with the requirements of the HMP and MRHCP, as applicable. Therefore, implementation of the proposed project would not conflict with the approved HMP or MRHCP. This impact would be less than significant, and no mitigation is required.



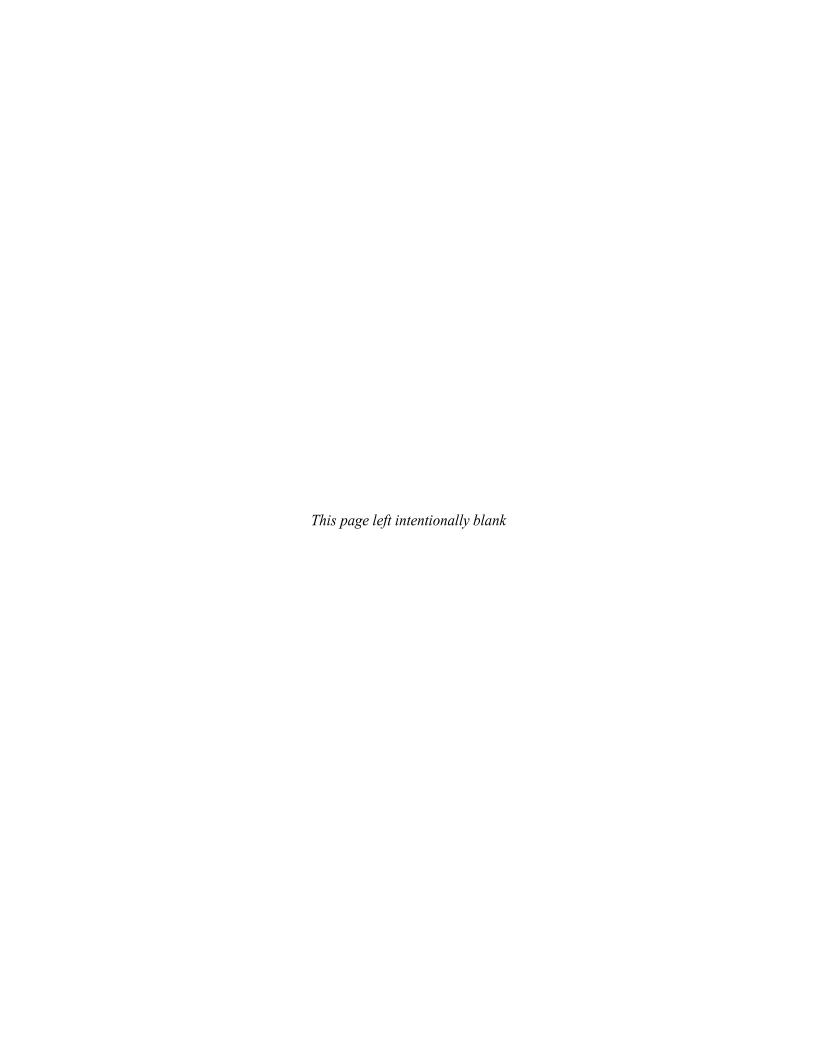
# 5. REFERENCES

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#### APPENDIX A

California Natural Diversity Database Report





#### California Department of Fish and Wildlife



#### **California Natural Diversity Database**

**Query Criteria:** 

Quad<span style='color:Red'> IS </span>(Marina (3612167)<span style='color:Red'> OR </span>Monterey (3612158)<span style='color:Red'> OR </span>Moss Landing (3612177)<span style='color:Red'> OR </span>Prunedale (3612176)<span style='color:Red'> OR </span>Salinas (3612166)<span style='color:Red'> OR </span>Seaside (3612157)<span style='color:Red'> OR </span>Spreckels (3612156))<br/>
'><span style='color:Red'> OR </span>Taxonomic Group<span style='color:Red'> IS </span>(Fish<span style='color:Red'> OR </span>Amphibians<span style='color:Red'> OR </span>Reptiles<span style='color:Red'> OR </span>Birds<span style='color:Red'> OR </span>Mammals<span style='color:Red'> OR </span>Mollusks<span style='color:Red'> OR </span>Insects<span style='color:Red'> OR </span>Insects<span style='color:Red'> OR </span>Monocots<span style='color:Red'> OR </span>Birds<span style='color:Red'> OR <

| Species   | Element Code        | Federal Status | State Status            | Global Rank | State Rank | Rare Plant<br>Rank/CDFW<br>SSC or FP |
|---|---------------------|----------------|-------------------------|-------------|------------|--------------------------------------|
| Agelaius tricolor   | ABPBXB0020          | None           | Threatened              | G1G2        | S1S2       | SSC                                  |
| tricolored blackbird  |                     |                |                         |             |            |                                      |
| Agrostis lacuna-vernalis  | PMPOA041N0          | None           | None                    | G1          | S1         | 1B.1                                 |
| vernal pool bent grass  |                     |                |                         |             |            |                                      |
| Allium hickmanii Hickman's onion                                | PMLIL02140          | None           | None                    | G2          | S2         | 1B.2                                 |
| Ambystoma californiense pop. 1                                  | AAAAA01181          | Threatened     | Threatened              | G2G3T3      | S3         | WL                                   |
| California tiger salamander - central California DPS            |                     |                |                         |             |            |                                      |
| Ambystoma macrodactylum croceum Santa Cruz long-toed salamander | AAAAA01082          | Endangered     | Endangered              | G5T1T2      | S1S2       | FP                                   |
| Anniella pulchra  | ARACC01020          | None           | None                    | G3          | S2S3       | SSC                                  |
| Northern California legless lizard                              |                     |                |                         |             |            |                                      |
| Arctostaphylos hookeri ssp. hookeri                             | PDERI040J1          | None           | None                    | G3T2        | S2         | 1B.2                                 |
| Hooker's manzanita  |                     |                |                         |             |            |                                      |
| Arctostaphylos montereyensis                                    | PDERI040R0          | None           | None                    | G2?         | S2?        | 1B.2                                 |
| Toro manzanita  |                     |                |                         |             |            |                                      |
| Arctostaphylos pajaroensis Pajaro manzanita                     | PDERI04100          | None           | None                    | G1          | S1         | 1B.1                                 |
| Arctostaphylos pumila   | PDER <b>I</b> 04180 | None           | None                    | G1          | S1         | 1B.2                                 |
| sandmat manzanita   |                     |                |                         |             |            |                                      |
| Asio flammeus<br>short-eared owl                                | ABNSB13040          | None           | None                    | G5          | S3         | SSC                                  |
| Astragalus tener var. tener alkali milk-vetch                   | PDFAB0F8R1          | None           | None                    | G2T1        | S1         | 1B.2                                 |
| Astragalus tener var. titi coastal dunes milk-vetch             | PDFAB0F8R2          | Endangered     | Endangered              | G2T1        | S1         | 1B.1                                 |
| Athene cunicularia burrowing owl                                | ABNSB10010          | None           | None                    | G4          | S3         | SSC                                  |
| Bombus caliginosus obscure bumble bee                           | IIHYM24380          | None           | None                    | G2G3        | S1S2       |                                      |
| Bombus crotchii   | IIHYM24480          | None           | Candidate               | G2          | S2         |                                      |
| Crotch bumble bee   |                     |                | Endangered              |             |            |                                      |
| Bombus occidentalis western bumble bee                          | IIHYM24252          | None           | Candidate<br>Endangered | G3          | S1         |                                      |



# California Department of Fish and Wildlife California Natural Diversity Database



| Spacies   | Element Code | Federal Status | State Status | Global Rank       | State Rank         | Rare Plant<br>Rank/CDFW<br>SSC or FP |
|---|--------------|----------------|--------------|-------------------|--------------------|--------------------------------------|
| Species  Buteo regalis  | ABNKC19120   | None None      | None Status  | Global Rank<br>G4 | State Rank<br>S3S4 | WL SSC OF FP                         |
| ferruginous hawk  | ABINIC 19120 | None           | None         | G4                | 3334               | VVL                                  |
| Castilleja ambigua var. insalutata                              | PDSCR0D403   | None           | None         | G4T2              | S2                 | 1B.1                                 |
| pink Johnny-nip   | 1 030100403  | None           | NONE         | 0412              | 32                 | 10.1                                 |
| Centromadia parryi ssp. congdonii                               | PDAST4R0P1   | None           | None         | G3T2              | S2                 | 1B.1                                 |
| Congdon's tarplant  | 1 B/OTHROIT  | None           | None         | 3012              | 02                 | 15.1                                 |
| Charadrius nivosus nivosus                                      | ABNNB03031   | Threatened     | None         | G3T3              | S3                 | SSC                                  |
| western snowy plover  |              |                |              |                   |                    |                                      |
| Chorizanthe minutiflora   | PDPGN04100   | None           | None         | G1                | S1                 | 1B.2                                 |
| Fort Ord spineflower  |              |                |              |                   |                    |                                      |
| Chorizanthe pungens var. pungens  Monterey spineflower          | PDPGN040M2   | Threatened     | None         | G2T2              | S2                 | 1B.2                                 |
| Chorizanthe robusta var. robusta robust spineflower             | PDPGN040Q2   | Endangered     | None         | G2T1              | S1                 | 1B.1                                 |
| Clarkia jolonensis  | PDONA050L0   | None           | None         | G2                | S2                 | 1B.2                                 |
| Jolon clarkia   |              |                |              |                   |                    |                                      |
| Coelus globosus   | IICOL4A010   | None           | None         | G1G2              | S1S2               |                                      |
| globose dune beetle   |              |                |              |                   |                    |                                      |
| Collinsia multicolor  | PDSCR0H0B0   | None           | None         | G2                | S2                 | 1B.2                                 |
| San Francisco collinsia   |              |                |              |                   |                    |                                      |
| Cordylanthus rigidus ssp. littoralis                            | PDSCR0J0P2   | None           | Endangered   | G5T2              | S2                 | 1B.1                                 |
| seaside bird's-beak   | ****         |                |              | 0.4               | 00                 | 000                                  |
| Corynorhinus townsendii   | AMACC08010   | None           | None         | G4                | S2                 | SSC                                  |
| Townsend's big-eared bat  | ADNIMENANA   | Nissa          | Mana         | 0.4               | 0400               | 000                                  |
| Coturnicops noveboracensis yellow rail                          | ABNME01010   | None           | None         | G4                | S1S2               | SSC                                  |
| Cypseloides niger black swift                                   | ABNUA01010   | None           | None         | G4                | S2                 | SSC                                  |
| Danaus plexippus plexippus pop. 1                               | IILEPP2012   | Candidate      | None         | G4T1T2            | S2                 |                                      |
| monarch - California overwintering population                   | <b></b>      |                | -            | <del></del>       |                    |                                      |
| Delphinium californicum ssp. interius  Hospital Canyon larkspur | PDRAN0B0A2   | None           | None         | G3T3              | S3                 | 1B.2                                 |
| Delphinium hutchinsoniae  Hutchinson's larkspur                 | PDRAN0B0V0   | None           | None         | G2                | S2                 | 1B.2                                 |
| Delphinium umbraculorum umbrella larkspur                       | PDRAN0B1W0   | None           | None         | G3                | S3                 | 1B.3                                 |
| Elanus leucurus   | ABNKC06010   | None           | None         | G5                | S3S4               | FP                                   |
| white-tailed kite   | -            |                |              |                   |                    |                                      |
| Emys marmorata  | ARAAD02030   | None           | None         | G3G4              | S3                 | SSC                                  |
| western pond turtle   |              |                |              |                   |                    |                                      |
| Eremophila alpestris actia                                      | ABPAT02011   | None           | None         | G5T4Q             | S4                 | WL                                   |
| California horned lark  |              |                |              |                   |                    |                                      |



# California Department of Fish and Wildlife California Natural Diversity Database



| Species                                      | Element Code      | Federal Status | State Status | Global Rank     | State Rank | Rare Plant<br>Rank/CDFW<br>SSC or FP |
|--|-------------------|----------------|--------------|-----------------|------------|--------------------------------------|
| Ericameria fasciculata                       | PDAST3L080        | None None      | None Status  | G2 GIODAI KAIIK | S2         | 1B,1                                 |
| Eastwood's goldenbush                        | FDA313L000        | None           | None         | G2              | 32         | 10.1                                 |
| Eriogonum nortonii                           | PDPGN08470        | None           | None         | G2              | S2         | 1B.3                                 |
| Pinnacles buckwheat                          | 1 21 31100 11 0   | None           | 110110       | 02              | 02         | 15.0                                 |
| Erysimum ammophilum                          | PDBRA16010        | None           | None         | G2              | S2         | 1B.2                                 |
| sand-loving wallflower                       |                   |                |              |                 |            |                                      |
| Erysimum menziesii                           | PDBRA160R0        | Endangered     | Endangered   | G1              | S1         | 1B.1                                 |
| Menzies' wallflower                          |                   | -              |              |                 |            |                                      |
| Eucyclogobius newberryi                      | AFCQN04010        | Endangered     | None         | G3              | S3         |                                      |
| tidewater goby                               |                   |                |              |                 |            |                                      |
| Eumetopias jubatus                           | AMAJC03010        | Delisted       | None         | G3              | S2         |                                      |
| Steller sea lion                             |                   |                |              |                 |            |                                      |
| Euphilotes enoptes smithi                    | IILEPG2026        | Endangered     | None         | G5T1T2          | S2         |                                      |
| Smith's blue butterfly                       |                   |                |              |                 |            |                                      |
| Falco mexicanus                              | ABNKD06090        | None           | None         | G5              | S4         | WL                                   |
| prairie falcon                               |                   |                |              |                 |            |                                      |
| Falco peregrinus anatum                      | ABNKD06071        | Delisted       | Delisted     | G4T4            | S3S4       | FP                                   |
| American peregrine falcon                    |                   |                |              |                 |            |                                      |
| Fritillaria liliacea                         | PMLIL0V0C0        | None           | None         | G2              | S2         | 1B.2                                 |
| fragrant fritillary                          |                   |                |              |                 |            |                                      |
| Gilia tenuiflora ssp. arenaria               | PDPLM041P2        | Endangered     | Threatened   | G3G4T2          | S2         | 1B.2                                 |
| Monterey gilia                               |                   |                |              |                 |            |                                      |
| Hesperocyparis goveniana                     | PGCUP04031        | Threatened     | None         | G1              | S1         | 1B.2                                 |
| Gowen cypress                                |                   |                |              |                 |            |                                      |
| Hesperocyparis macrocarpa                    | PGCUP04060        | None           | None         | G1              | S1         | 1B.2                                 |
| Monterey cypress                             |                   |                |              |                 |            |                                      |
| Holocarpha macradenia                        | PDAST4X020        | Threatened     | Endangered   | G1              | S1         | 1B.1                                 |
| Santa Cruz tarplant                          |                   |                |              |                 |            |                                      |
| Horkelia cuneata var. sericea                | PDROS0W043        | None           | None         | G4T1?           | S1?        | 1B.1                                 |
| Kellogg's horkelia                           | DDDGGGWGDG        | N.             | N.           | 00              | 00         | 45.0                                 |
| Horkelia marinensis Point Reyes horkelia     | PDROS0W0B0        | None           | None         | G2              | S2         | 1B.2                                 |
| Lasiurus cinereus                            | AMA C C 0 E 0 2 2 | None           | Nama         | C2C4            | C4         |                                      |
| hoary bat                                    | AMACC05032        | None           | None         | G3G4            | S4         |                                      |
| ·  | PDAST5L040        | Endangered     | None         | G1              | S1         | 1B.1                                 |
| Lasthenia conjugens  Contra Costa goldfields | PDAS13L040        | Endangered     | None         | Gi              | 31         | ID.I                                 |
| Laterallus jamaicensis coturniculus          | ABNME03041        | None           | Threatened   | G3T1            | S1         | FP                                   |
| California black rail                        | ADINIVIEU3U4 I    | NONG           | rinealeneu   | 9911            | 31         | 11                                   |
| Lavinia exilicauda harengus                  | AFCJB19013        | None           | None         | G4T3            | S3         | SSC                                  |
| Monterey hitch                               | A 00D 19013       | 140110         | 140110       | J+10            | 55         | 300                                  |
| Layia carnosa                                | PDAST5N010        | Threatened     | Endangered   | G2              | S2         | 1B.1                                 |
| beach layia                                  | DAGIGIOIO         | THOULONG       | Lindangorod  | J <u>L</u>      | <i>52</i>  | 10.1                                 |
| Seasifiayia                                  |                   |                |              |                 |            |                                      |



# California Department of Fish and Wildlife California Natural Diversity Database



| Species   | Element Code | Federal Status | State Status   | Global Rank | State Rank | Rare Plant<br>Rank/CDFW<br>SSC or FP |
|---|--------------|----------------|----------------|-------------|------------|--------------------------------------|
| Legenere limosa   | PDCAM0C010   | None           | None           | G2          | S2         | 1B.1                                 |
| legenere  |              |                |                |             |            |                                      |
| Linderiella occidentalis  | ICBRA06010   | None           | None           | G2G3        | S2S3       |                                      |
| California linderiella  |              |                |                |             |            |                                      |
| Lupinus tidestromii   | PDFAB2B3Y0   | Endangered     | Endangered     | G1          | S1         | 1B.1                                 |
| Tidestrom's lupine  |              | -              | •              |             |            |                                      |
| Malacothamnus palmeri var. involucratus                           | PDMAL0Q0B1   | None           | None           | G3T2Q       | S2         | 1B,2                                 |
| Carmel Valley bush-mallow   |              |                |                |             |            |                                      |
| Malacothrix saxatilis var. arachnoidea                            | PDAST660C2   | None           | None           | G5T2        | S2         | 1B.2                                 |
| Carmel Valley malacothrix   |              |                |                |             |            |                                      |
| Meconella oregana   | PDPAP0G030   | None           | None           | G2G3        | S2         | 1B.1                                 |
| Oregon meconella  |              |                |                |             |            |                                      |
| Microseris paludosa   | PDAST6E0D0   | None           | None           | G2          | S2         | 1B.2                                 |
| marsh microseris  |              |                |                |             |            |                                      |
| Monardella sinuata ssp. nigrescens                                | PDLAM18162   | None           | None           | G3T2        | S2         | 1B.2                                 |
| northern curly-leaved monardella                                  |              |                |                |             |            |                                      |
| Monolopia gracilens   | PDAST6G010   | None           | None           | G3          | S3         | 1B.2                                 |
| woodland woollythreads  |              |                |                |             |            |                                      |
| Neotoma macrotis luciana  | AMAFF08083   | None           | None           | G5T3        | S3         | SSC                                  |
| Monterey dusky-footed woodrat                                     |              |                |                |             |            |                                      |
| Oncorhynchus mykiss irideus pop. 9                                | AFCHA0209H   | Threatened     | None           | G5T2Q       | S2         |                                      |
| steelhead - south-central California coast DPS                    |              |                |                |             |            |                                      |
| Pelecanus occidentalis californicus                               | ABNFC01021   | Delisted       | Delisted       | G4T3T4      | S3         | FP                                   |
| California brown pelican  |              |                |                |             |            |                                      |
| Phrynosoma blainvillii  | ARACF12100   | None           | None           | G3G4        | S4         | SSC                                  |
| coast horned lizard   |              |                |                |             |            |                                      |
| Pinus radiata   | PGPIN040V0   | None           | None           | G1          | S1         | 1B.1                                 |
| Monterey pine   |              |                |                |             |            |                                      |
| Piperia yadonii   | PMORC1X070   | Endangered     | None           | G1          | S1         | 1B.1                                 |
| Yadon's rein orchid   |              |                |                |             |            |                                      |
| Plagiobothrys chorisianus var. chorisianus  Choris' popcornflower | PDBOR0V061   | None           | None           | G3T1Q       | S1         | 1B.2                                 |
| Potentilla hickmanii Hickman's cinquefoil                         | PDROS1B370   | Endangered     | Endangered     | G1          | S1         | 1B.1                                 |
| Rallus obsoletus obsoletus  | ABNME05011   | Endangered     | Endangered     | G3T1        | S1         | FP                                   |
| California Ridgway's rail   | 7.B.W.200011 | Endangorod     | Lindangorod    | 3011        | 01         | • •                                  |
| Ramalina thrausta   | NLLEC3S340   | None           | None           | G5?         | S2S3       | 2B.1                                 |
| angel's hair lichen   |              |                |                |             |            |                                      |
| Rana boylii pop. 6  | AAABH01056   | Proposed       | Endangered     | G3T1        | S1         |                                      |
| foothill yellow-legged frog - south coast DPS                     |              | Endangered     | <b>Q</b> 1 - 1 |             |            |                                      |
| Rana draytonii  | AAABH01022   | Threatened     | None           | G2G3        | S2S3       | SSC                                  |
| California red-legged frog  |              |                |                |             |            |                                      |



# California Department of Fish and Wildlife California Natural Diversity Database

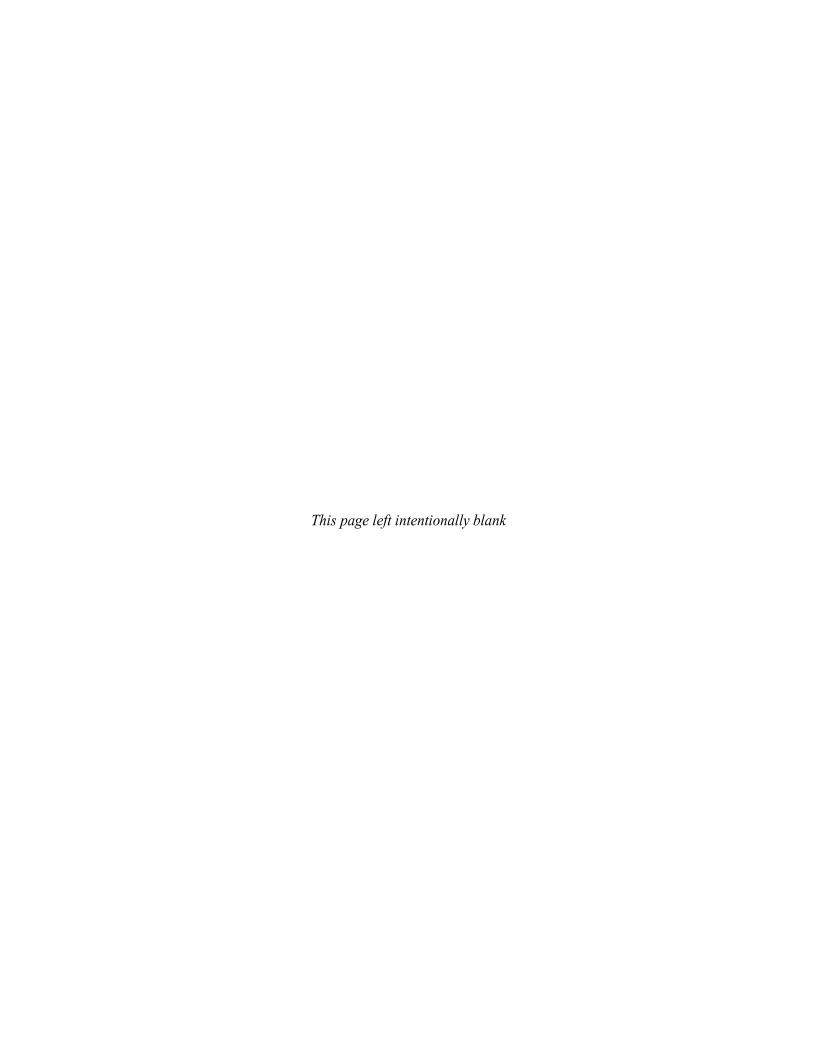


| Species  | Element Code    | Federal Status | State Status | Global Rank | State Rank | Rare Plant<br>Rank/CDFW<br>SSC or FP |
|--|-----------------|----------------|--------------|-------------|------------|--------------------------------------|
| Reithrodontomys megalotis distichlis                             | AMAFF02032      | None           | None         | G5T1        | S2         | 300 0                                |
| Salinas harvest mouse  |                 |                |              |             |            |                                      |
| Riparia riparia  | ABPAU08010      | None           | Threatened   | G5          | S2         |                                      |
| bank swallow   |                 |                |              |             |            |                                      |
| Rosa pinetorum   | PDROS1J0W0      | None           | None         | G2          | S2         | 1B.2                                 |
| pine rose  |                 |                |              |             |            |                                      |
| Sidalcea malachroides  | PDMAL110E0      | None           | None         | G3          | S3         | 4.2                                  |
| maple-leaved checkerbloom  |                 |                |              |             |            |                                      |
| Sorex ornatus salarius   | AMABA01105      | None           | None         | G5T1T2      | S1S2       | SSC                                  |
| Monterey shrew   |                 |                |              |             |            |                                      |
| Spea hammondii   | AAABF02020      | None           | None         | G2G3        | S3S4       | SSC                                  |
| western spadefoot  |                 |                |              |             |            |                                      |
| Spirinchus thaleichthys  | AFCHB03010      | Candidate      | Threatened   | G5          | S1         |                                      |
| longfin smelt  |                 |                |              |             |            |                                      |
| Stebbinsoseris decipiens   | PDAST6E050      | None           | None         | G2          | S2         | 1B.2                                 |
| Santa Cruz microseris  |                 |                |              |             |            |                                      |
| Sulcaria spiralifera   | NLT0042560      | None           | None         | G3G4        | S2         | 1B.2                                 |
| twisted horsehair lichen   |                 |                |              |             |            |                                      |
| Taricha torosa   | AAAAF02032      | None           | None         | G4          | S4         | SSC                                  |
| Coast Range newt   |                 |                |              |             |            |                                      |
| Taxidea taxus  | AMAJF04010      | None           | None         | G5          | S3         | SSC                                  |
| American badger  |                 |                |              |             |            |                                      |
| Thamnophis hammondii   | ARADB36160      | None           | None         | G4          | S3S4       | SSC                                  |
| two-striped gartersnake  |                 |                |              |             |            |                                      |
| Trifolium buckwestiorum  | PDFAB402W0      | None           | None         | G2          | S2         | 1B.1                                 |
| Santa Cruz clover  | DDE 4 D 400 D 5 |                | N.I.         | 00          | 00         | 45.0                                 |
| Trifolium hydrophilum saline clover                              | PDFAB400R5      | None           | None         | G2          | S2         | 1B.2                                 |
|  | DDE 4 D 400110  | N              | 5            | 0.4         | 0.4        | 45.4                                 |
| Trifolium polyodon  Pacific Grove clover                         | PDFAB402H0      | None           | Rare         | G1          | S1         | 1B.1                                 |
|  | DDEAD400.10     | Endongerad     | Endonasas    | C1          | 0.1        | 1D 1                                 |
| Trifolium trichocalyx  Monterey clover                           | PDFAB402J0      | Endangered     | Endangered   | G1          | S1         | 1B.1                                 |
| Monterey clover  | IMCAS 17040     | None           | None         | Ca          | 63         |                                      |
| Tryonia imitator mimic tryonia (=California brackishwater snail) | IMGASJ7040      | None           | None         | G2          | S2         |                                      |
| mimic tryonia (-camornia brackisniwater shall)                   |                 |                |              |             |            |                                      |

**Record Count: 97** 

#### **APPENDIX B**

IPaC Resource List

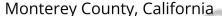


# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

#### Location





#### Local office

Ventura Fish And Wildlife Office

**\( (805) 644-1766** 

**(805)** 644-3958

▼ FW8VenturaSection7@FWS.Gov

NOT FOR CONSULTATION

2493 Portola Road, Suite B Ventura, CA 93003-7726

https://www.fws.gov/Ventura

# Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

#### Birds

NAME **STATUS** California Condor Gymnogyps californianus **Endangered** There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8193 California Least Tern Sterna antillarum browni **Endangered** Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8104 Least Bell's Vireo Vireo bellii pusillus Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/5945 Marbled Murrelet Brachyramphus marmoratus **Threatened** There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/4467 Southwestern Willow Flycatcher Empidonax traillii extimus **Endangered** Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6749 Western Snowy Plover Charadrius nivosus nivosus **Threatened** There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8035

Yellow-billed Cuckoo Coccyzus americanus

Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/3911

#### **Amphibians**

NAME STATUS

California Red-legged Frog Rana draytonii

Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/2891

California Tiger Salamander Ambystoma californiense

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/2076

Threatened

#### **Fishes**

NAME STATUS

Tidewater Goby Eucyclogobius newberryi

Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/57

#### Insects

NAME STATUS

Monarch Butterfly Danaus plexippus

Candidate

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/9743

#### Crustaceans

NAME STATUS

#### Vernal Pool Fairy Shrimp Branchinecta lynchi

**Threatened** 

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/498

### Flowering Plants

NAME STATUS

Contra Costa Goldfields Lasthenia conjugens

**Endangered** 

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/7058

Marsh Sandwort Arenaria paludicola

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/2229

Monterey Gilia Gilia tenuiflora ssp. arenaria

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/856

Monterey Spineflower Chorizanthe pungens var. pungens

Threatened

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/396

Yadon's Piperia Piperia yadonii

Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

https://ecos.fws.gov/ecp/species/4205

#### Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

# Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <a href="https://www.fws.gov/program/migratory-birds/species">https://www.fws.gov/program/migratory-birds/species</a>
- Measures for avoiding and minimizing impacts to birds
   <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a>

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

| NAME   | BREEDING SEASON         |
|--|-------------------------|
| Allen's Hummingbird Selasphorus sasin  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9637">https://ecos.fws.gov/ecp/species/9637</a>                                      | Breeds Feb 1 to Jul 15  |
| Bald Eagle Haliaeetus leucocephalus  This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.                   | Breeds Jan 1 to Aug 31  |
| Belding's Savannah Sparrow Passerculus sandwichensis beldingi  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/8">https://ecos.fws.gov/ecp/species/8</a> | Breeds Apr 1 to Aug 15  |
| Black Oystercatcher Haematopus bachmani This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9591">https://ecos.fws.gov/ecp/species/9591</a>                                     | Breeds Apr 15 to Oct 31 |
| Black Swift Cypseloides niger  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/8878">https://ecos.fws.gov/ecp/species/8878</a>  | Breeds Jun 15 to Sep 10 |
| Black Tern Chlidonias niger  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3093">https://ecos.fws.gov/ecp/species/3093</a>  | Breeds May 15 to Aug 20 |
| Black Turnstone Arenaria melanocephala  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.   | Breeds elsewhere        |

#### Bullock's Oriole Icterus bullockii

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds Mar 21 to Jul 25

#### California Gull Larus californicus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 1 to Jul 31

#### California Thrasher Toxostoma redivivum

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Jan 1 to Jul 31

#### Clark's Grebe Aechmophorus clarkii

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Jun 1 to Aug 31

#### Common Yellowthroat Geothlypis trichas sinuosa

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/2084

Breeds May 20 to Jul 31

#### Golden Eagle Aquila chrysaetos

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a>

Breeds Jan 1 to Aug 31

#### Lawrence's Goldfinch Carduelis lawrencei

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9464">https://ecos.fws.gov/ecp/species/9464</a>

Breeds Mar 20 to Sep 20

#### Marbled Godwit Limosa fedoa

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9481">https://ecos.fws.gov/ecp/species/9481</a>

Breeds elsewhere

#### Nuttall's Woodpecker Picoides nuttallii

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/9410">https://ecos.fws.gov/ecp/species/9410</a>

Breeds Apr 1 to Jul 20

#### Oak Titmouse Baeolophus inornatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9656

Breeds Mar 15 to Jul 15

#### Olive-sided Flycatcher Contopus cooperi

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3914

Breeds May 20 to Aug 31

#### Scripps's Murrelet Synthliboramphus scrippsi

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Feb 20 to Jul 31

#### Short-billed Dowitcher Limnodromus griseus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9480

Breeds elsewhere

#### Tricolored Blackbird Agelaius tricolor

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910

Breeds Mar 15 to Aug 10

#### Western Grebe aechmophorus occidentalis

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/6743

Breeds Jun 1 to Aug 31

#### Willet Tringa semipalmata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

#### Wrentit Chamaea fasciata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Mar 15 to Aug 10

## **Probability of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and

understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

#### Breeding Season (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

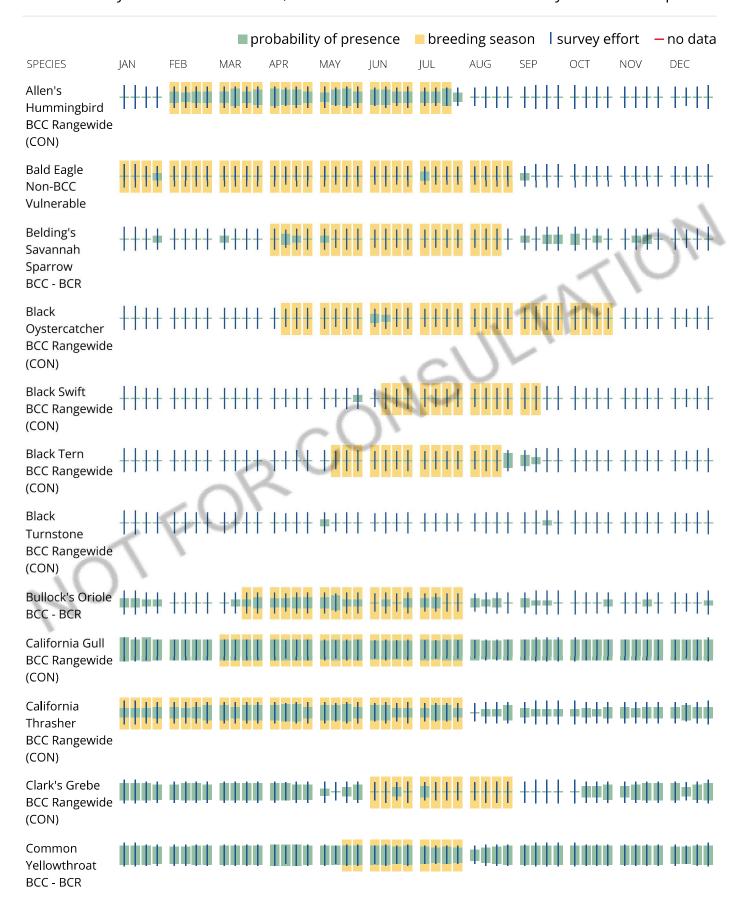
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

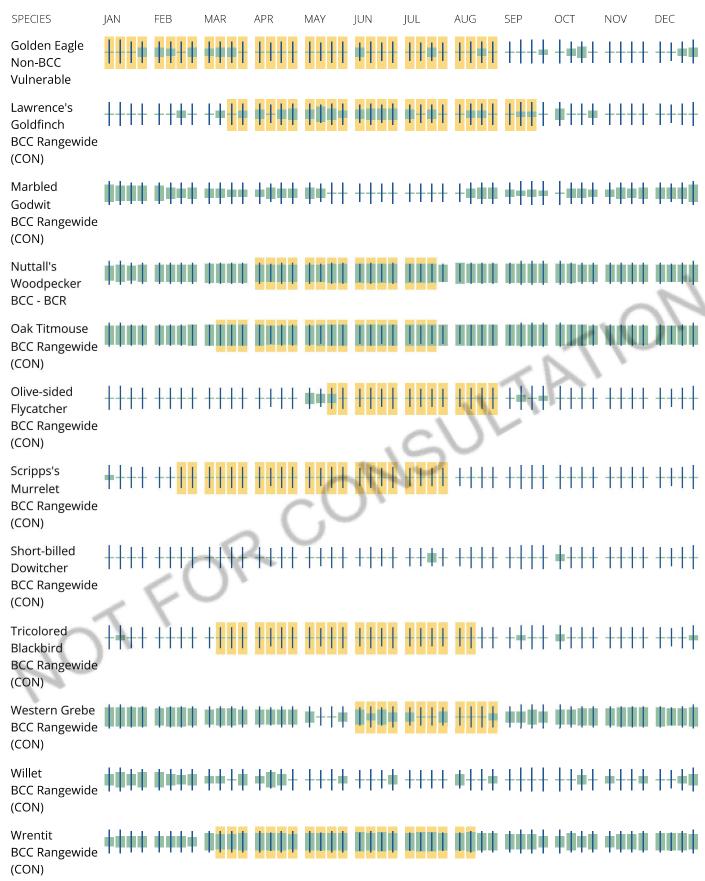
#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

## What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information Locator (RAIL) Tool</u>.

# What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and</u> citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);

- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.</u>

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

#### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

#### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

#### **Facilities**

#### National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

#### Fish hatcheries

There are no fish hatcheries at this location.

# Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

#### **Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

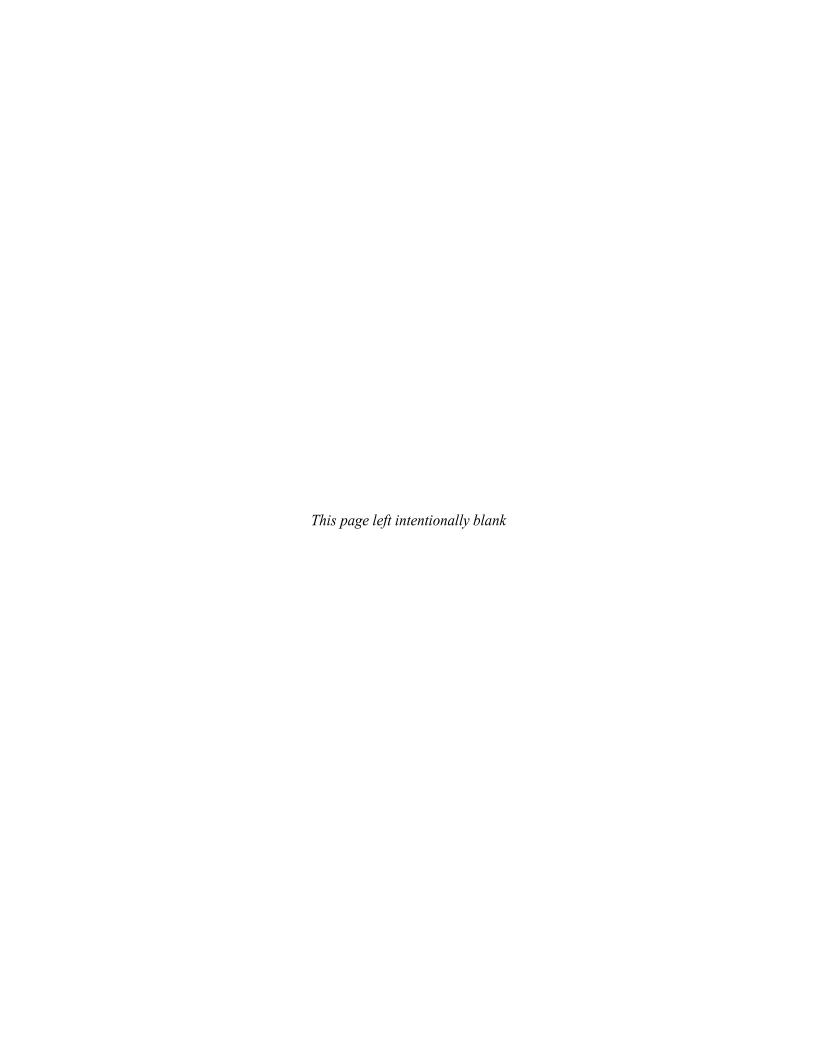
Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

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#### APPENDIX C



Special-Status Species Table Marina, Monterey, Moss Landing, Prunedale, Salinas, Seaside, and Spreckels Quadrangles

| Species  | Status<br>(Service/CDFW/CNPS) | General Habitat   | Potential Occurrence   |
|--|-------------------------------|---|--|
| Corynorhinus townsendii Townsend's big-eared bat             | —/ CSC /—                     | Found primarily in rural settings from inland deserts to coastal redwoods, oak woodland of the inner Coast Ranges and Sierra foothills, and low to mid-elevation mixed coniferous-deciduous forests. Typically roost during the day in limestone caves, lava tubes, and mines, but can roost in buildings that offer suitable conditions. Night roosts are in more open settings and include bridges, rock crevices, and trees. | Moderate Suitable habitat is present within the project site. The CNDDB reports one occurrence of this species within the quadrangles reviewed, located approximately 2.4 miles east of the project site.  |
| Neotoma macrotis luciana<br>Monterey dusky-footed<br>woodrat | —/ CSC /—                     | Forest and oak woodland habitats of moderate canopy with moderate to dense understory. Also occurs in chaparral habitats.   | Moderate Suitable habitat is present within the project site. The CNDDB reports one occurrence of this species within the quadrangles reviewed, located approximately six miles east of the project site. However, this species is known to occur throughout the former Fort Ord. Nests of this species were observed within the East Campus area during biological surveys in 2016 and 2017. Therefore, this species has a moderate potential to occur within the project site. |
| Sorex ornatus salarius<br>Monterey ornate shrew              | —/ CSC / —                    | Mostly moist or riparian woodland habitats and within chaparral, grassland, and emergent wetland habitats where there is a thick duff or downed logs.   | Moderate Suitable habitat is present within project site. The CNDDB reports six occurrences of this species within the quadrangles reviewed, the nearest located approximately 4.6 miles from the project site. The HMP identifies the project site as containing potential habitat for this species.  |
| <i>Taxidea taxus</i><br>American badger                      | —/ CSC / —                    | Dry, open grasslands, fields, pastures savannas, and mountain meadows near timberline are preferred. The principal requirements seem to be sufficient food, friable soils, and relatively open, uncultivated grounds.   | Unlikely  No suitable habitat within the project site.   |

| Species  | Status (Service/CDFW/CNPS) | General Habitat  | Potential Occurrence  |
|--|----------------------------|--|---|
| Agelaius tricolor Tricolored blackbird (nesting colony)                  | —/SC+CSC/—                 | Nest in colonies in dense riparian vegetation, along rivers, lagoons, lakes, and ponds. Forages over grassland or aquatic habitats.  | Unlikely  No suitable habitat is present within project site.   |
| Asio flammeus Short-eared owl (nesting)                                  | —/CSC/—                    | Usually found in open areas with few trees, such as annual and perennial grasslands, prairies, meadows, dunes, irrigated lands, and saline and freshwater emergent marshes. Dense vegetation is required for roosting and nesting cover. This includes tall grasses, brush, ditches, and wetlands. Open, treeless areas containing elevated sites for perching, such as fence posts or small mounds, are also needed. Some individuals breed in northern California. | Unlikely  No suitable habitat is present within project site.   |
| Athene cunicularia Burrowing owl (burrow sites and some wintering sites) | —/CSC/—                    | Year-round resident of open, dry grassland and desert habitats, and in grass, forb and open shrub stages of pinyon-juniper and ponderosa pine habitats. Frequent open grasslands and shrublands with perches and burrows. Use rodent burrows (often California ground squirrel) for roosting and nesting cover. Pipes, culverts, and nest boxes may be substituted for burrows in areas where burrows are not available.   | Low Suitable habitat is present within project site; however, no burrows were observed during the January 2023 biological survey. |
| Brachyramphus marmoratus<br>Marbled murrelet                             | FT / SE / —                | Occur year-round in marine subtidal and pelagic habitats from the Oregon border to Point Sal. Partial to coastlines with stands of mature redwood and Douglas-fir. Requires dense mature forests of redwood and/or Douglas-fir for breeding and nesting.   | Unlikely  No suitable habitat is present within project site.   |
| Charadrius alexandrinus<br>nivosus<br>Westem snowy plover                | FT / CSC / —               | Sandy beaches on marine and estuarine shores, also salt pond levees and the shores of large alkali lakes. Requires sandy, gravelly or friable soil substrate for nesting.  | Unlikely  No suitable habitat within the project site.  |
| Coturnicops noveboracensis<br>Yellow rail                                | —/ CSC / —                 | Wet meadows and coastal tidal marshes. Occurs year round in California, but in two primary seasonal roles: as a very local breeder in the northeastern interior and as a winter visitor (early Oct to mid-Apr) on the coast and in the Suisun Marsh region   | <b>Unlikely</b> No suitable habitat is present within project site.   |

| Species  | Status (Service/CDFW/CNPS) | General Habitat   | Potential Occurrence  |
|--|----------------------------|---|---|
| Vireo bellii pusillus<br>Least Bell's Vireo                              | FE / SE / —                | Riparian areas and drainages. Breed in willow riparian forest supporting a dense, shrubby understory. Oak woodland with a willow riparian understory is also used in some areas, and individuals sometimes enter adjacent chaparral, coastal sage scrub, or desert scrub habitats to forage.  | Unlikely  No suitable habitat is present within project site.   |
| Ambystoma californiense<br>California tiger salamander                   | FT / ST /—                 | Annual grassland and grassy understory of valley-foothill hardwood habitats in central and northern California. Need underground refuges and vernal pools or other seasonal water sources.  | Unlikely Suitable upland and dispersal habitat is present within the project site; however, the project site is outside of the known dispersal range of any known breeding resources.                                 |
| Ambystoma macrodactylum<br>croceum<br>Santa Cruz long-toed<br>salamander | FE / SE+CFP /—             | Preferred habitats include ponderosa pine, montane hardwood-conifer, mixed conifer, montane riparian, red fir and wet meadows. Occurs in a small number of localities in Santa Cruz and Monterey Counties. Adults spend the majority of the time in underground burrows and beneath objects. Larvae prefer shallow water with clumps of vegetation. | Unlikely  No suitable habitat is present within project site. The project site is outside the currently known range of this species.  |
| Anniella pulchra<br>Northern California legless<br>Iizard                | —/ CSC /—                  | Requires moist, warm habitats with loose soil for burrowing and prostrate plant cover, often forages in leaf litter at plant bases; may be found on beaches, sandy washes, and in woodland, chaparral, and riparian areas.  | High  Suitable habitat is present within the project site. The CNDDB reports 56 occurrences of this species within the quadrangles reviewed, the nearest occurrence located less than one mile from the project site. |
| Emys marmorata<br>Western pond turtle                                    | —/ CSC /—                  | Associated with permanent or nearly permanent water in a wide variety of habitats including streams, lakes, ponds, irrigation ditches, etc. Require basking sites such as partially submerged logs, rocks, mats of vegetation, or open banks.   | Unlikely  No suitable habitat is present within project site.   |
| Phrynosoma blainvillii<br>Coast horned lizard                            | —/CSC/—                    | Associated with open patches of sandy soils in washes, chaparral, scrub, and grasslands.  | High Suitable habitat is present within the project site. The CNDDB reports five occurrences of this species within the quadrangles reviewed, including one occurrence less than 50 feet from the project site.       |
| Rana boylii<br>Foothill yellow-legged frog                               | —/SC+CSC/—                 | Partly shaded, shallow streams and riffles with a rocky substrate in a variety of habitats, including hardwood, pine, and riparian forests, scrub, chaparral, and wet meadows. Rarely encountered far from permanent water.   | Unlikely  No suitable habitat is present within project site.   |

| Species   | Status (Semijos/CDEW/CNDS) | General Habitat  | Potential Occurrence  |
|---|----------------------------|--|---|
| Rana draytonii<br>California red-legged frog  | FT / CSC / —               | Lowlands and foothills in or near permanent or lateseason sources of deep water with dense, shrubby, or emergent riparian vegetation. During late summer or fall adults are known to utilize a variety of upland habitats with leaf litter or mammal burrows.  | Unlikely Suitable upland and dispersal habitat is present within the project site; however, the project site is outside of the known dispersal range of any known breeding resources. |
| Taricha torosa<br>Coast Range newt  | —/CSC/—                    | Occurs mainly in valley-foothill hardwood, valley-foothill hardwood-conifer, coastal scrub, and mixed chaparral but is known to occur in grasslands and mixed conifer types. Seek cover under rocks and logs, in mammal burrows, rock fissures, or man-made structures such as wells. Breed in intermittent ponds, streams, lakes, and reservoirs.   | Unlikely Suitable upland and dispersal habitat is present within the project site; however, the project site is outside of the known dispersal range of any known breeding resources. |
| Thannophis hammondii<br>Two-striped garter snake                                    | —/ CSC /—                  | ted with perman<br>bordered by der<br>from sea level to  | Unlikely  No suitable habitat is present within project site.   |
| Eucyclogobius newberryi<br>Tidewater goby   | FE / CSC / —               | Brackish water habitats, found in shallow lagoons and lower stream reaches. Tidewater gobies appear to be naturally absent (now and historically) from three large stretches of coastline where lagoons or estuaries are absent and steep topography or swift currents may prevent tidewater gobies from dispersing between adjacent localities. The southernmost large, natural gap occurs between the Salinas River in Monterey County and Arroyo del Oso in San Luis Obispo | No suitable obligate habitat is present within project site.  |
| Oncorhynchus mykiss irideus<br>Steelhead<br>(south-central California coast<br>DPS) | FT / — / —                 | Cold headwaters, creeks, and small to large rivers and lakes; anadromous in coastal streams.   | Not Present  No suitable obligate habitat is present within project site.   |
| Spirinchus thaleichthys<br>Longfin smelt  | FC / ST+CSC / —            | Euryhaline, nektonic and anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefers salinities of 15-30 PPT but can be found in completely freshwater to almost pure seawater.   | No suitable obligate habitat is present within project site.  |

| Species  | Status                | General Habitat  | Potential Occurrence   |
|--|-----------------------|--|--|
|  | (Service/CDF W/CINFS) | INVERTEBRATES  |  |
| Bombus crotchii<br>Crotch bumble bee                                 | —/ SC /—              | Occurs in open grassland and scrub at relatively warm and dry sites. Requires plants that bloom and provide adequate nectar and pollen throughout the colony's life cycle, which is from early February to late October. Generally nests underground, often in abandoned mammal burrows. Within California this species is known to occur in the Mediterranean, Pacific Coast, Western Desert, as well as Great Valley and adjacent foothill regions.                | <b>Unlikely</b> No suitable nesting habitat within the project site.   |
| Bombus occidentalis Western bumble bee                               | —/ SC /—              | Occurs in open grassy areas, urban parks, urban gardens, chaparral, and meadows. Requires plants that bloom and provide adequate nectar and pollen throughout the colony's life cycle, which is from early February to late November. Generally nests underground, often in abandoned mammal burrows. Populations are currently largely restricted to high elevation sites in the Sierra Nevada; however, the historic range includes the northern California coast. | Unlikely  No suitable nesting habitat within the project site.   |
| Danaus plexippus<br>Monarch butterfly                                | FC/—/—                | Overwinters in coastal California using colonial roosts generally found in Eucalyptus, pine and acacia trees. Overwintering habitat for this species within the Coastal Zone represents ESHA. Local ordinances often protect this species as well.   | Unlikely  No suitable habitat is present within the project site. No overwintering occurrences are known within the project site.  |
| Branchinecta lynchi<br>Vernal pool fairy shrimp                      | FT / — / —            | Require ephemeral pools with no flow. Associated with vernal pool/grasslands from near Red Bluff (Shasta County), through the central valley, and into the South Coast Mountains Region.  Require ephemeral pools with no flow.  | Not Present  No suitable obligate habitat is present within project site.  |
| Euphilotes enoptes smithi<br>Smith's blue butterfly                  | FE/—/—                | Most commonly associated with coastal dunes and coastal sage scrub plant communities in Monterey and Santa Cruz Counties. Plant hosts are <i>Eriogonum latifolium</i> and <i>E. parvifolium</i> .  | Not Present Marginally suitable habitat is present within the project site; however, the obligate host plants were not observed within the project site during the January 2023 biological survey. |
| Linderiella occidentalis<br>California linderiella (fairy<br>shrimp) | _/_/_                 | Ephemeral ponds with no flow. Generally associated with hardpans.  | <b>Not Present</b> No suitable obligate habitat within the project site.   |
| Agrostis lacuna-vernalis<br>Vernal pool bent grass                   | —/—/ IB               | Vernal pool Mima mounds at elevations of 115-145 meters. Annual herb in the Poaceae family; blooms April-May. Known only from Butterfly Valley and Machine Gun Flats of Ft. Ord National Monument.   | Unlikely  No suitable habitat within the project site. The project site is outside the known elevation range of this species.  |

| Species  | Status (Service/CDFW/CNPS) | General Habitat   | Potential Occurrence   |
|--|----------------------------|---|--|
| Allium hickmanii<br>Hickman's onion                          | —/—/ IB                    | Mesic areas of closed-cone coniferous forests, maritime chaparral, coastal prairie, coastal scrub, and valley and foothill grasslands at elevations of 5-200 meters. Bulbiferous perennial herb in the Alliaceae family; blooms March-May.  | Unlikely  No suitable habitat within the project site.   |
| Arctostaphylos hookeri ssp.<br>hookeri<br>Hooker's manzanita | —/—/ 1B                    | Closed-cone coniferous forest, chaparral, cismontane woodland, and coastal scrub on sandy soils at elevations of 85-536 meters. Evergreen shrub in the Ericaceae family; blooms January-June.   | Not Present Suitable habitat is present within the project site; however, this species was not observed within the project site during the January 2023 biological survey. |
| Arctostaphylos montereyensis<br>Toro manzanita               | —/—/ 1B                    | Maritime chaparral, cismontane woodland, and coastal scrub on sandy soils at elevations of 30-730 meters. Evergreen shrub in the Ericaceae family; blooms February-March.   | Not Present Suitable habitat is present within the project site; however, this species was not observed within the project site during the January 2023 biological survey. |
| Arctostaphylos pajaroensis<br>Pajaro manzanita               | —/—/ 1B                    | Chaparral on sandy soils at elevations of 30-760 meters. Evergreen shrub in the Ericaceae family; blooms December-March.  | Not Present Suitable habitat is present within the project site; however, this species was not observed within the project site during the January 2023 biological survey. |
| Arctostaphylos pumila<br>Sandmat manzanita                   | —/—/ 1B                    | Openings of closed-cone coniferous forests, maritime chaparral, cismontane woodland, coastal dunes, and coastal scrub on sandy soils at elevations of 3-205 meters. Evergreen shrub in the Ericaceae family, blooms February-May.   | Present Suitable habitat is present within the project site. This species was observed within the project site during the January 2023 biological survey.                  |
| Arenaria paludicola<br>Marsh sandwort                        | FE / SE / 1B               | Known from only two natural occurrences in Black Lake Canyon and at Oso Flaco Lake. Sandy openings of freshwater of brackish marshes and swamps at elevations of 3-170 meters. Stoloniferous perennial herb in the Caryophyllaceae family; blooms May-August.                                       | Unlikely  No suitable habitat within the project site. The project site is outside of the currently known range for this species.  |
| Astragalus tener var. tener<br>Alkali milk-vetch             | —/—/IB                     | Playas, valley and foothill grassland on adobe clay, and vernal pools on alkaline soils at elevations of 1-60 meters. Annual herb in the Fabaceae family; blooms March-June.  | Unlikely  No suitable habitat within the project site.   |
| Astragalus tener var. titi<br>Coastal dunes milk-vetch       | FE / SE / 1B               | Sandy soils in coastal bluff scrub, coastal dunes, coastal prairie (mesic); elevation 3-164 feet. Annual herb in the Fabaceae family; blooms March-May.   | Unlikely  No suitable habitat within the project site.   |
| Bryoria spiralifera<br>Twisted horsehair lichen              | —/—/ 1B                    | California North Coast coniferous forest at elevations of 0–30 meters. Often found on conifers, including <i>Picea sitchensis, Pinus contorta</i> var. <i>contorta</i> , <i>Pseudotsuga menziesii, Abies grandis</i> , and <i>Tsuga heterophylla</i> . Fruticose lichen in the Parmeliaceae family. | Unlikely  No suitable habitat within the project site.   |
| Castilleja ambigua var.<br>insalutata<br>Pink Johnny-nip     | —/—/ IB                    | Coastal prairie and coastal scrub at elevations of 0-100 meters. Annual herb in the Orobanchaceae family; blooms May-August.  | Unlikely  No suitable habitat within the project site.   |

| Species  | Status (Service/CDFW/CNPS) | General Habitat   | Potential Occurrence   |
|--|----------------------------|---|--|
| Ceanothus rigidus<br>Monterey ceanothus                              | —/—/—                      | Closed cone coniferous forest, chaparral, and coastal scrub on sandy soils at elevations of 3-550 meters. Evergreen shrub in the Rhamnaceae family, blooms February-June.   | <b>Present</b> Suitable habitat is present within the project site. This species was observed within the project site during the January 2023 biological survey.                                   |
| Centromadia parryi ssp.<br>congdonii<br>Congdon's tarplant           | —/—/1B                     | Valley and foothill grassland on heavy clay, saline, or alkaline soils at elevations of 0-230 meters. Annual herb in the Asteraceae family; blooms May-November.  | <b>Unlikely</b> No suitable habitat within the project site.   |
| Chorizanthe minutiflora Fort Ord spineflower                         | —/—/1B                     | Sandy openings of maritime chaparral and coastal scrub at elevations of 55-150 meters. Only known occurrences on Fort Ord National Monument. Annual herb in the Polygonaceae family; blooms April-July.   | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.                 |
| Chorizanthe pungens var. pungens Monterey spineflower                | FT/—/1B                    | Maritime chaparral, cismontane woodland, coastal dunes, coastal scrub, and valley and foothill grassland on sandy soils at elevations of 3-450 meters. Annual herb in the Polygonaceae family; blooms April-July.   | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.                 |
| Chorizanthe robusta var.<br>robusta<br>Robust spineflower            | FE / — / 1 <b>B</b>        | Openings in cismontane woodland, coastal dunes, maritime chaparral, and coastal scrub on sandy or gravelly soils at elevations of 3-300 meters. Annual herb in the Polygonaceae family; blooms April-September.   | <b>Unlikely</b> Suitable habitat is present within the project site; however, the project site is outside of the known distribution range of this species.   |
| Clarkia jolonensis<br>Jolon clarkia                                  | —/—/1B                     | Cismontane woodland, chaparral, riparian woodland, and coastal scrub at elevations of 20-660 meters. Annual herb in the Onagraceae family; blooms April-June.   | <b>Low</b> Low quality habitat is present within the coast live oak woodland and chaparral habitats of the project site; however, no occurrences of this species are known on the Former Fort Ord. |
| Collinsia multicolor<br>San Francisco collinsia                      | —/—/1B                     | Closed-cone coniferous forest and coastal scrub, sometimes on serpentinite soils, at elevations of 30-250 meters. Annual herb in the Plantaginaceae family, blooms March-May.   | Unlikely  No suitable habitat within the project site.   |
| Cordylanthus rigidus ssp.<br>littoralis<br>Seaside bird's-beak       | —/ SE/ 1B                  | Closed-cone coniferous forests, maritime chaparral, cismontane woodlands, coastal dunes, and coastal scrub on sandy soils, often on disturbed sites, at elevations of 0-425 meters. Annual hemi-parasitic herb in the Orobanchaceae family; blooms April-October. | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.                 |
| Delphinium californicum ssp.<br>interius<br>Hospital Canyon larkspur | —/—/1B                     | Openings in chaparral, coastal scrub, and mesic areas of cismontane woodland at elevations of 230-1095 meters. Perennial herb in the Ranunculaceae family; blooms April-June.   | <b>Unlikely</b> Suitable habitat is present within the project site; however, the project site is outside the known elevation range of this species.   |
| Delphinium hutchinsoniae<br>Hutchinson's larkspur                    | —/—/1B                     | Broadleaved upland forest, chaparral, coastal scrub, and coastal prairie at elevations of 0-427 meters.  Perennial herb in the Ranunculaceae family; blooms March-June.   | <b>Low</b> Suitable habitat is present within chaparral and coastal scrub habitats of the project site; however, no occurrences of this species are known on the Former Fort Ord.                  |

| Species  | Status (Service/CDFW/CNPS) | General Habitat  | Potential Occurrence  |
|--|----------------------------|--|---|
| Delphinium umbraculorum<br>Umbrella larkspur                   | —/—/1B                     | Cismontane woodland at elevations of 400-1600 meters. Perennial herb in the Ranunculaceae family; blooms April-June.   | <b>Unlikely</b> Suitable habitat is present within the project site; however, the project site is outside the known elevation range of this species.  |
| Ericameria fasciculata<br>Eastwood's goldenbush                | —/—/1 <b>B</b>             | Openings in closed-cone coniferous forest, maritime chaparral, coastal dunes, and coastal scrub on sandy soils at elevations of 30-275 meters. Evergreen shrub in the Asteraceae family; blooms July-October.                                      | Not Present Suitable habitat is present within the project site; however, this species was not observed within the project site during the January 2023 biological survey.  |
| Eriogonum nortonii<br>Pinnacles buckwheat                      | —/—/1B                     | Chaparral and valley and foothill grassland on sandy soils, often on recent burns, at elevations of 300-975 meters. Annual herb in the Polygonaceae family; blooms May-September.  | Not Present Suitable habitat is present within the project site; however, this species was not observed within the project site during the January 2023 biological survey. In addition, the project site is outside the known elevation range of this species.  |
| Erysimum ammophilum<br>Coast wallflower                        | —/—/1B                     | Openings in maritime chaparral, coastal dunes, and coastal scrub on sandy soils at elevations of 0-60 meters. Perennial herb in the Brassicaceae family; blooms February-June.   | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.  |
| Erysimum menziesii<br>Menzies' wallflower                      | FE / SE / 1B               | Coastal dunes at elevations of 0-35 meters. Perennial herb in the Brassicaceae family; blooms March-September.   | Unlikely  No suitable habitat within the project site.  |
| <i>Fritillaria liliacea</i><br>Fragrant fritillary             | —/—/1B                     | Cismontane woodland, coastal prairie, coastal scrub, and valley and foothill grassland, often serpentinite, at elevations of 3-410 meters. Bulbiferous perennial herb in the Liliaceae family; blooms February-April.                              | <b>Low</b> Suitable habitat is present the project site; however, no occurrences of this species are known on the Former Fort Ord.  |
| <i>Gilia tenuiflora</i> ssp. <i>arenaria</i><br>Monterey gilia | FE / ST / 1B               | Openings in maritime chaparral, cismontane woodland, coastal dunes, and coastal scrub on sandy soils at elevations of 0-45 meters. Annual herb in the Polemoniaceae family; blooms April-June.   | Low Only marginal, very low-quality habitat is present within the project site. This species was observed directly adjacent to the project site during 2016 surveys by DD&A and 2017 surveys by the F. Watson Lab. While the extent and density of Monterey gilia populations vary annually, with the lack of historic observations and lack of suitable habitat, the potential for this species to occur within the site is low. |
| Hesperocyparis goveniana<br>Gowen cypress                      | FT/—/1B                    | Closed-cone coniferous forest and maritime chaparral at elevations of 30-300 meters. Evergreen tree in the Cupressaceae family. Natively occurring only at Point Lobos near Gibson Creek and the Huckleberry Hill Nature Preserve near Highway 68. | Not Present  Not observed within the project site during 2016 botanical surveys. The project site is outside of the currently known native range of this species.   |
| Hesperocyparis macrocarpa<br>Monterey cypress                  | —/—/1B                     | Closed-cone coniferous forest at elevations of 10-30 meters. Evergreen tree in the Cupressaceae family. Natively occurring only at Cypress Point in Pebble Beach and Point Lobos State Park; widely planted and naturalized elsewhere.             | Not Present A Monterey cypress tree is present within the project site; however, the site is outside of the currently known native range of this species. Any Monterey cypress trees within the site are from planted stock and are therefore not considered special-status species.  |

| Species  | Status (Service/CDFW/CNPS) | General Habitat   | Potential Occurrence   |
|--|----------------------------|---|--|
| Microseris paludosa<br>Marsh microseris                                      | —/—/1B                     | Closed-cone coniferous forest, cismontane woodland, coastal scrub, and valley and foothill grassland at elevations of 5-300 meters. Perennial herb in the Asteraceae family; blooms April-July.   | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.   |
| Monardella sinuata ssp.<br>nigrescens<br>Northern curly-leaved<br>monardella | —/—/1B                     | Chaparral, coastal dunes, coastal scrub, and lower montane coniferous forest (ponderosa pine sandhills) on sandy soils at elevations of 0-300 meters. Annual herb in the Lamiaceae family; blooms April-September.  | Low Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.  |
| Monolopia gracilens<br>Woodland woollythreads                                | —/—/1B                     | Openings of broadleaved upland forest, chaparral, cismontane woodland, North Coast coniferous forest, and valley and foothill grassland on serpentinite soils at elevations of 100-1200 meters. Annual herb in the Asteraceae family; blooms February-July.   | Unlikely Suitable habitat is present within the project site; however, the project site is outside the known elevation range of this species.  |
| Pinus radiata<br>Monterey pine   | —/—/1B                     | Closed-cone coniferous forest and cismontane woodland at elevations of 25-185 meters. Evergreen tree in the Pinaceae family. Only three native stands in CA at Ano Nuevo, Cambria, and the Monterey Peninsula; introduced in many areas.  | Not Present  The project site is outside of the currently known native range of this species. Any Monterey pine trees within or adjacent to the site are from planted stock and are therefore not considered special-status species. |
| <i>Piperia yadonii</i><br>Yadon's rein orchid                                | FE/—/1B                    | Sandy soils in coastal bluff scrub, closed-cone coniferous forest, and maritime chaparral at elevations of 10-510 meters. Annual herb in the Orchidaceae family; blooms February-August.  | <b>Low</b> Only marginal, very low-quality habitat is present within the project site. In addition, this species was not observed within the project site during previous surveys.   |
| Plagiobothrys chorisianus var.<br>chorisianus<br>Choris's popcorn-flower     | —/—/1B                     | Mesic areas of chaparral, coastal prairie, and coastal scrub at elevations of 15-160 meters. Annual herb in the Boraginaceae family; blooms March-June.   | <b>Unlikely</b> Marginally suitable habitat is present within the project site. However, this species is only known to occur within a few vernal pools on the Former Fort Ord.   |
| Potentilla hickmanii<br>Hickman's cinquefoil                                 | FE / SE / 1B               | Coastal bluff scrub, closed-cone coniferous forests, vernally mesic meadows and seeps, and freshwater marshes and swamps at elevations of 10-149 meters. Perennial herb in the Rosaceae family; blooms April-August.  | Unlikely  No suitable habitat within the project site.   |
| Ramalina thrausta<br>Angel's hair lichen                                     | —/—/2B                     | North coast coniferous forest on dead twigs and other lichens. Epiphytic fructose lichen in the Ramalinaceae family. In northern CA it is usually found on dead twigs, and has been found on Alnus rubra, Calocedrus decurrens, Pseudotsuga menziesii, Quercus garryana, and Rubus spectabilis. In Sonoma County it grows on and among dangling mats of R. menziesii and Usnea spp. | Unlikely  No suitable habitat within the project site.   |
| Rosa pinetorum<br>Pine rose  | —/—/1B                     | Closed-cone coniferous forest at elevations of 2-300 meters. Perennial shrub in the Rosaceae family; blooms May-July. Possible hybrid of <i>R. spithamea</i> , <i>R. gymnocarpa</i> , or others; further study needed.  | Unlikely  No suitable habitat within the project site.   |

12

# STATUS DEFINITIONS

# Federa

= listed as Endangered under the federal Endangered Species Act

= listed as Threatened under the federal Endangered Species Act FT

= Candidate for listing under the federal Endangered Species Act FC

= no listing

# State

= listed as Endangered under the California Endangered Species Act

= listed as Threatened under the California Endangered Species Act SE

= Candidate for listing under California Endangered Species Act SC

= listed as Rare under the California Native Plant Protection Act SR

= California Fully Protected Species

= CDFW Species of Concern

= no listing

# California Native Plant Society

= California Rare Plant Rank 1B species; plants rare, threatened, or endangered in California and elsewhere

= no listing

# Former Fort Ord Habitat Management Plan (HMP)

= Former Fort Ord HMP Species Bold

# POTENTIAL TO OCCUR

= known occurrence of species in the vicinity from the CNDDB or other documentation; presence of suitable habitat conditions = known occurrence of species within the site; presence of suitable habitat conditions; or observed during field surveys Present High

= known occurrence of species in the vicinity from the CNDDB or other documentation; presence of marginal habitat conditions within the site Moderate

= species known to occur in the vicinity from the CNDDB or other documentation; lack of suitable habitat or poor quality Low

= species not known to occur in the vicinity from the CNDDB or other documentation, no suitable habitat is present within the site

Not Present

= species was not observed during surveys

Unlikely