

BIOLOGICAL RESOURCE EVALUATION

**General Plan Amendment/Zone Change
Assessor's Parcel Map Number
464-032-31, -32, -33, -34
County of Kern
Bakersfield, California**

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EXECUTIVE SUMMARY

Pruett Biological Resource Consulting, Inc. (PruettBio) has prepared this biological resource evaluation for a proposed Site Plan Review of Assessor's Parcel Numbers (APN) 464-032-31, -32, 33, and -34. The project consists of 6.20 gross acres (2.51 hectares)(project) Section 23, Township 29 South, Range 26 East, Mount Diablo Base and Meridian. The project is located northwest of the intersection of Rosedale Highway and Sablewood Drive, within the incorporated limits of the City of Bakersfield, County of Kern, California.

The project is located within the geographic range of several federal-, and state-listed, threatened and/or endangered plant and animal taxa. Several non-listed, special-status species also have the potential to occur in the vicinity of the project.

The purpose of this report is to document biological resources identified during a reconnaissance-level field study of the project site and include potential biological resources identified during a literature review of the site and vicinity, identify potential impacts to biological resources resulting from the project. Evaluation of potential impacts to plant and animal species are required under federal and state regulation during a General Plan Amendment and Zone Change. California Environmental Quality Act (CEQA) Appendix G thresholds have been used to evaluate potential impacts to the biological resources from the proposed project development. Avoidance and minimization measures for implementation prior to and during project activities are recommended as appropriate.

The California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) have not been contacted regarding the preparation of this report. Appendix B, Special-Status Plant and Animal Evaluations, satisfy the requirements for an initial determination of potential impacts under the CEQA Appendix G thresholds. If CEQA threshold determinations warrant, further consultation may be required with CDFW and USFWS. If additional consultation with the agencies results in the need for Application for a California Incidental Take Permit, Cal. Code Regs., tit. 14, § 783.2 outlines requirements for detailed species-specific take analysis, proposed measures to minimize and fully mitigate impacts, compliance monitoring, and funding. A detailed description satisfying Cal. Code Regs., tit. 14, § 783.2 is not required to meet the CEQA Appendix G thresholds.

A literature review was conducted of the site and vicinity, prior to the field study, of the biological resources known to occur based on recorded, direct observation, or potentially occurring in the project impact area based on current or historical habitat conditions. During the field study, existing habitat conditions, direct observations and/or species sign was recorded to assess the potential for occurrence of special-status species. This report includes an evaluation of the potential for those special-status biological resources not observed during the field study, with the potential to occur on the property based on the habitat conditions observed.

The project is in west Bakersfield in an area historically farmed. Urban development has increased along the margins of Metropolitan Bakersfield in the past 50 years and has resulted in the conversion of farmland to residential and commercial properties. The project includes single-family residences and vacant land. The project is surrounded by similar residential development with scattered commercial development. No undisturbed, native, or recovering habitat is present on the site or adjacent parcels.

The federal and state database queries yielded 14 special-status plant species and 39 special-status animal species as potentially occurring within the vicinity of the project site. Of these, 5 plant species, and 18 animal species have federal-, and/or state-listing and are afforded protection under federal or state law.

A query of the California Native Plant Society (CNPS) database was made for the nine-quadrangles surrounding the project. The CNPS tracks plant species that do not meet the CEQA Section 15380



criteria for listing as threatened or endangered and are afforded no protection under federal or state law. A USGS nine-quadrangle query additionally includes a search area beyond a standard 10-mile radius. Plant species meeting the criteria for Special Status Plants as defined in *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities* (CDFW 2018) and evaluated under CEQA Section 15380 have been included in this report.

Some CRPR 4 taxa may meet the Section 15380 definition of an endangered, rare, or threatened species, and in the definition of CRPR 4, CNPS and CDFW suggest additional reasons for including CRPR 4 taxa in a CEQA analysis. These reasons include Regionally Rare Taxa. Considered locally significant plants, that is, plants that are not rare from a statewide perspective but are rare or uncommon in a local context such as within a county or region (CEQA Guidelines, § 15125, subd. (c)), or as designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G). “Locally rare” has not been generally defined, but in counties where a “locally rare” policy exists, it applies to taxa with only five to 10 known occurrences in that county.

The CNDDDB, iPac, and CNPS lists were cross-referenced for consistency. A separate CNDDDB query for the County of Kern was also generated to evaluate plant species for local significance.

The project will not conflict with existing or adopted Habitat Conservation Plans, Natural Community Conservation Plans, local or regional conservation plans, or local ordinances protecting biological resources.



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INTRODUCTION

Pruett Biological Resource Consulting, Inc. (PruettBio) has prepared this biological resource evaluation for the proposed development of APNs 464-032-31, -32, 33, and -34. The project consists of 6.20 gross acres (2.51 hectares)(project) Section 23, Township 29 South, Range 26 East, Mount Diablo Base and Meridian The project is northwest of the intersection of Rosedale Highway and Sablewood Drive, within the incorporated limits of the City of Bakersfield, County of Kern, California. The report documents biological resources identified during fieldwork conducted on the project site and those identified through a literature search as potentially occurring based on known observations or historic habitat conditions. The report uses the information collected during the field study and literature search to evaluate potential impacts to biological resources, resulting from the project. The report is intended to assist in the analysis of the proposed project for a Site Plan Review.

Listed plant and animal species are protected under the Federal Endangered Species Act (FESA) and the California Endangered Species Act (CESA). Protection of other non-listed, special-status species is afforded under additional regulation including the Migratory Bird Treaty Act (MBTA). Pursuant to the California Environmental Quality Act (CEQA) impacts to non-listed, special-status species must be evaluated. Where necessary, the report recommends avoidance and minimization measures for implementation prior to and during project activities. The report is intended to provide technical information in support of a CEQA preliminary review. For the purposes of this report, potential impacts to the biological resources of the proposed project were evaluated in accordance with Appendix G of the *CEQA Guidelines* (2024).

PROJECT LEGAL DESCRIPTION

The project consists of 6.20 gross acres (2.51 hectares) of APNs 464-032-31, -32, 33, and -34. The project site is located northwest of the intersection of Rosedale Highway and Sablewood Drive, Section 23, Township 29 South, Range 23 East, Mount Diablo Base and Meridian.

PROJECT SETTING AND PHYSICAL DESCRIPTION

The project site is in the southern San Joaquin Valley; a broad, treeless plain in the rain shadow of the Inner Coast Ranges. The region's climate can be characterized as Mediterranean; with hot, dry summers and cool, moist winters. Summer high temperatures typically exceed 100 °Fahrenheit (°F); with an average of 110 days per year over 90 °F. Winter temperatures in the San Joaquin Valley are mild, with an average of only 16 days per year with frost (Twisselmann 1967).

Rainfall varies, increasing from west to east, with the west side of the valley receiving an average of around 4 inches (10 centimeters) per year and the east side averaging about 6 inches (15 centimeters) per year. Winter fog, called Tule fog, sometimes forms during the months of November, December, and January, supplementing the annual precipitation. Approximately 90% of the rainfall in the region occurs between November 1 and April 1. Drought cycles occur periodically, becoming severe enough that plant and animal populations can experience large fluctuations. The vegetation communities in the San Joaquin Valley are distinguishable from the Mojave Desert to the east due to Tule fog, higher humidity, and isolation from continental climatic influences by mountain ranges (Twisselmann 1967).

The general topography of the area slopes very subtly south with the project generally flat at about 360 feet (108 meters) above mean sea level. The project includes single family residences with vacant land. The project is surrounded by mixed use residential and commercial development with scattered oil production The project and vicinity were historically farmed for decades. Historical aerial imagery going back to 1985 shows residential development of the project with much of the surrounding land under row crops. Aerial imagery shows that by 2003, commercial development had begun along Rosedale Highway in the immediate vicinity of the project. No undisturbed, native, or recovering habitat is present on the project site or adjacent parcels.



METHODS

LITERATURE REVIEW

PruettBio conducted a literature review to identify known observations and potential for listed, or otherwise special-status, species to occur in the vicinity of the project site. A standard, 10-mile (16-kilometer) radius query was performed. Database records reviewed included:

- **United States Fish & Wildlife Service (USFWS) iPac:** The iPac report generates a list of federal-listed species and other resources under the jurisdiction of the USFWS, including designated critical habitat for listed species, National Wildlife Refuge lands, and Wetlands in the National Wetlands Inventory. The list includes resources that are outside of the project site, but that have the potential to be impacted by project activities.
- **USFWS National Wetlands Inventory:** The Wetlands Mapper is an online inventory integrating digital map data and other resources to provide current information regarding the status of national wetlands, riparian, and deepwater habitats.
- **United States Department of Agriculture (USDA) WebSoil Survey:** The report is an online database providing soil data produced by the National Cooperative Soil Survey, a joint effort of the USDA and other federal, state, and local agencies. The information drawn for the Soil Survey of Kern County, California, Northwestern Part was originally drawn from fieldwork completed in 1981 with soil names and descriptions approved in 1982.
- **California Natural Diversity Database (CNDDDB-RareFind 5):** The CNDDDB is a database of listed, or otherwise special-status, plant and animal species and sensitive communities maintained by the California Department of Fish and Wildlife (CDFW). The information queried for this report included a standard 10-mile radius of the project site.
- **California Native Plant Society (CNPS) Inventory of Rare and Endangered Vascular Plants:** CNPS is a private, professional organization that maintains a database evaluating the current conservation status of California's rare, threatened, and endangered plant species. The information queried for this report included a standard 10-mile radius of the project site. The list includes resources that are outside of the project site, but that have the potential to be impacted by project activities based on known historic or current habitat features. The data base was compared to the CNDDDB and iPac queries for consistency.

FIELD STUDY

A reconnaissance-level, biological field study was conducted by Steven P. Pruett on 13 January 2024. The project was surveyed by walking the perimeter and random transects to evaluate all representative habitat features of the site. A 500-foot survey buffer, beyond the anticipated project footprint, was included as accessible. The field study conducted, allowed for 100% visual coverage of the project site. Field notes included observations of all plant and wildlife species observed. Direct observations and/or species sign was recorded to assess the potential for occurrence. Land cover types and general habitat conditions were recorded and photographed. Special-status species and habitat features, such as vegetation communities or ephemeral channels, were also recorded and photographed if observed.

Coordinates for important biological resource elements and direct observations of special-status species were recorded using a handheld geographic positioning system unit. If observed, San Joaquin kit fox (SJKF) dens were classified as defined by the *USFWS Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (2011). All plant taxa encountered were identified to the extent possible given the diagnostic features present. Identifications were made using keys contained in *The Jepson Manual: Vascular Plants of California* and online updates containing revisions to taxonomic treatments (Baldwin et al. 2012; Jepson Flora Project 2015).



RESULTS

This section summarizes the results of the field study conducted on the project site and evaluates those results for the known or potential for occurrence of special-status species based on the literature review and database queries and pursuant to statutory regulation. Discussions are provided describing the existing habitat conditions including vegetation communities, land cover and current use; soils; special-status biological resources potentially occurring in the vicinity of the project site; the potential for jurisdictional resources including designated critical habitat and riparian/wetland/water resource features; the potential for wildlife migration corridors and nursery sites; and regional and local policy.

VEGETATION COMMUNITIES AND LAND COVER

The project site is located at the west edge of urban development of Metropolitan Bakersfield. Before conversion to farmland, the original vegetive communities of the project site were Non-native Grassland (Holland 42200) and Valley Saltbush Scrub (Holland 36220). No undisturbed, native, or recovering habitat is present on the project site, adjacent parcels, or general vicinity of the project. The project includes single family residences with vacant land. The project is surrounded by mixed use residential and commercial development with scattered oil production. The project and vicinity were historically farmed for decades. Historical aerial imagery going back to 1985 shows residential development of the project with much of the surrounding land under row crops. Aerial imagery shows that by 2003, commercial development had begun along Rosedale Highway in the immediate vicinity of the project. No undisturbed, native, or recovering habitat is present on the project site or adjacent parcels. The potential for any native herbaceous species is extremely low due to ongoing disturbance. The project site and margins are dominated by ruderal/invasive plant species.

SOILS

The USGS soil survey map describes the soil of the project site as Unit 243, Wasco sandy loam and Unit 127 Granoso sandy loam, 0 to 2 percent slopes, overwash (NRCS 2020). Unit 243 is alluvium derived from mixed rock sources found on alluvial fans and flood plains. It is comprised of sandy loam, loamy sand, and sand to a depth of about 62 inches. The depth to the restrictive feature is more than 80 inches and the available water storage in profile is listed as low (about 6.4 inches). Unit 127 is alluvium derived from mixed rock sources found on alluvial fans and flood plains. It is comprised of sandy loam, loamy sand, and sand to a depth of about 62 inches. The depth to the restrictive feature is more than 80 inches and the available water storage in profile is listed as low (about 4.9 inches).

BIOLOGICAL RESOURCES

The literature review and database queries yielded 14 special-status plant species as potentially occurring within the vicinity of the project site. Thirty-nine animal species were identified as potentially occurring in the region of the project site. No evidence of any listed animal species was observed during the field study. No evidence of any locally rare plant or animal species was observed. No evidence of otherwise special-status plant or animal species, or animal species sign was observed during the field study.

No focused, protocol-level surveys were conducted for the preparation of this report. The field study was conducted outside of the blooming period for many of the special-status plant species potentially occurring in the vicinity of the project. The evaluation of special-status species that were found during the literature review with a potential to occur in the region are included in Appendix B.

Special-Status Plant Species

The federal and state database queries yielded 14 special-status plant species as potentially occurring within the vicinity of the project site. A query of the California Native Plant Society (CNPS) database was



made for the nine-quadrangles surrounding the project. A USGS nine-quadrangle query additionally includes a search area beyond a standard 10-mile radius. Plant species meeting the criteria for Special Status Plants as defined in *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities* (CDFW 2018) were evaluated under CEQA Section 15380.

Special-status plant species considered in this evaluation include all plant species that meet one or more of the following criteria:

- Listed or proposed for listing as threatened or endangered under ESA or candidates for possible future listing as threatened or endangered under the ESA (50 CFR §17.12).
- Listed or candidates for listing by the State of California as threatened or endangered under CESA (Fish and Game Code §2050 et seq.). A species, subspecies, or variety of plant is endangered when the prospects of its survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, over-exploitation, predation, competition, disease, or other factors (Fish and Game Code §2062). A plant is threatened when it is likely to become endangered in the foreseeable future in the absence of special protection and management measures (Fish and Game Code §2067).
- Listed as rare under the California Native Plant Protection Act (Fish and Game Code §1900 et seq.). A plant is rare when, although not presently threatened with extinction, the species, subspecies, or variety is found in such small numbers throughout its range that it may be endangered if its environment worsens (Fish and Game Code §1901).
- Meet the definition of rare or endangered under CEQA §15380(b) and (d). Species that may meet the definition of rare or endangered include the following:
 - Species considered by the California Native Plant Society (CNPS) to be “rare, threatened or endangered in California” (Lists 1A, 1B and 2);
 - Species that may warrant consideration on the basis of local significance or recent biological information.
 - Some species included on the California Natural Diversity Database’s (CNDDDB) Special Plants, Bryophytes, and Lichens List (California Department of Fish and Game 2008).
- Considered a locally significant species, that is, a species that is not rare from a statewide perspective but is rare or uncommon in a local context such as within a county or region (CEQA §15125 (c)) or is so designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G). Examples include a species at the outer limits of its known range or a species occurring on an uncommon soil type.

Some CRPR 4 taxa may meet the Section 15380 definition of an endangered, rare, or threatened species, and in the definition of CRPR 4, CNPS and CDFW suggest additional reasons for including CRPR 4 taxa in a CEQA analysis. These reasons include Regionally Rare Taxa. Considered locally significant plants, that is, plants that are not rare from a statewide perspective but are rare or uncommon in a local context such as within a county or region (CEQA Guidelines, § 15125, subd. (c)), or as designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G). “Locally rare” has not been generally defined, but in counties where a “locally rare” policy exists, it applies to taxa with only five to 10 known occurrences in that county. The CNDDDB, iPac, and CNPS lists were cross-referenced for consistency.

Precipitation has been well above average to date, resulting in a good year for annual plant species observations. Of the 14 special-status plant species returned during database queries for the project vicinity, 5 species are either federally- or state-listed as threatened or endangered. Although CEQA requires consideration for impacts to locally significant plant species, no mitigation is legally required to compensate for impacts to non-listed plant species. No listed, or otherwise special-status plant species



was observed during the fieldwork conducted for the preparation of this report. No listed, or otherwise special-status plant species, has been recorded as occurring within the project site.

Special-Status Animal Species

The federal and state database queries yielded 39 special-status animal species as potentially occurring within the vicinity of the project site. Of these, 18 animal species have federal-, and/or state-listing and are afforded protection under federal or state law. Special-status animal species considered in this evaluation include those that may occur in the project vicinity that have statutory protections. This includes federal- and state-listed (rare, threatened, or endangered; fully protected) species and candidates for listing under the respective endangered species acts. Species that are of special concern to the CDFW or the USFWS are included in this evaluation. Special-status bird species that are afforded protection under the MBTA which may nest on or within an approximate 10-mile (16-kilometer) radius of the project site are also evaluated. No evidence of any listed animal species was observed during the field study. No evidence of otherwise special-status animal species, or animal species sign was observed during the field study.

Designated Critical Habitat

The USFWS iPac report and USFWS Designated Critical Habitat Mapper lists no Designated Critical Habitat (USFWS 2023). Designated Critical Habitats closest to the project site include California condor (*Gymnogyps californianus*) approximately 29-miles south/southwest and Buena Vista Lake shrew (*Sorex ornatus relictus*) approximately 13-miles west of the project site. No suitable habitat for either species exists on the project site.

Jurisdictional Water Resource Features

Section 404 of the Federal Clean Water Act (CWA) regulates discharge of dredged and fill material into Waters of the United States. Wetlands are included under this jurisdiction. Proposed activities that may result in discharge of material into Waters of the U.S. require a permit review process by the U.S. Army Corps of Engineers as set forth under CWA section 404(b)(1). Fish and Game Code section 1602 requires any person, state or local governmental agency, or public utility to notify CDFW before beginning any activity that will substantially modify a river, stream, or lake.

A search of the USFWS National Wetlands Inventory resulted in no riparian, wetlands, or other jurisdictional water features mapped on the project site (USFWS 2024). These results are consistent with the observed conditions within the survey area.

Special-Status Natural Communities

No special-status vegetation communities on the project site were identified by the USFWS iPac query, the CNDDDB, or the CNPS Inventory (USFWS 2024, CDFW 2024, CNPS 2024). These results are consistent with the observed conditions within the survey area.

Wildlife Migration Corridors and Nursery Sites

Wildlife corridors can be defined as connections between wildlife blocks that meet specific habitat needs for species movement generally during migratory periods but seasonally as well. Wildlife corridors generally contain habitat dissimilar to the surrounding vicinity and include examples such as riparian areas along rivers and streams, washes, canyons, or otherwise undisturbed areas within urbanization. Corridor width requirements can vary based on the needs of the species utilizing them. Development of the project would not impact wildlife migration corridors or nursery sites.



Regional and Local Policies

The proposed, modified project will not conflict with existing or adopted Habitat Conservation Plans, Natural Community Conservation Plans, local or regional conservation plans, or local ordinances protecting biological resources.

IMPACT ANALYSIS AND RECOMMENDED MITIGATION MEASURES

CEQA Appendix G thresholds have been used to evaluate potential impacts to the biological resources from the proposed project. Appendix G provides an analysis of the impacts of the proposed project following the standards of CEQA and provides recommendations that, when implemented, would reduce impacts to less-than-significant levels. It is important to note that potential take of any federal- or state-listed species from project activities would require contacting the appropriate wildlife agency (the USFWS and/or the CDFW).

The California Department of Fish and Wildlife (CDFW) and United States Fish and Wildlife Service (USFWS) have not been contacted regarding the preparation of this report. Appendix B, Special-Status Plant and Animal Evaluations, satisfy the requirements for an initial determination of potential impacts under the CEQA Appendix G thresholds. If CEQA threshold determinations warrant, further consultation may be required with CDFW and USFWS. If additional consultation with the agencies results in the need for Application for a California Incidental Take Permit, Cal. Code Regs., tit. 14, § 783.2 outlines requirements for detailed species-specific take analysis, proposed measures to minimize and fully mitigate impacts, compliance monitoring, and funding. A detailed description satisfying Cal. Code Regs., tit. 14, § 783.2 is not required to meet the CEQA Appendix G thresholds.

The project would create a significant impact to biological resources, based on the specifications in Appendix G of the CEQA Guidelines, if the following were to occur:

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 the California Department of Fish and Game or U.S. Fish and Wildlife Service;
2. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service;
3. Have a substantial adverse effect on federally protected wetlands as defined by section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
4. 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 wildlife nursery sites;
5. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance;
6. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

The following analysis discusses potential impacts associated with the development of the project and provides recommendations where appropriate to further reduce potential impacts.



1. Would the project 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, by the CDFW, or the USFWS?

Direct and indirect impacts, in the form of “incidental take” of a threatened, endangered, or otherwise protected species, are not expected as a result of the development of the proposed project. Implementation of standard measures for the protection of biological resources are recommended to avoid and minimize potential impact to general wildlife. These measures include, but may not be limited to:

- A biological resource pre-activity survey conducted by a qualified biologist no more than 30-days before the start of construction activities,
- Biological resource monitoring during each initial phase of ground disturbance,
- Compliance reporting provided to the required oversight agencies for all biological resource field surveys, monitoring, and additional tasks as warranted.

If known or natal SJKF dens are identified at any time during construction, protocols enumerated in the *USFWS Standardized Recommendations for Protection of the Endangered San Joaquin Kit Fox Prior to or During Ground Disturbance* (2011) should be implemented, and the appropriate agencies contacted for guidance.

The project is within the historic range of Tipton kangaroo rat. The project was not included in the southwest focus area for the species in the previous habitat conservation plan. The most recent habitat suitability modeling (Cypher 2020) does not include the project in any of the four tiers enumerated for suitability. Trapping would be required to confirm small mammal species occupying the project.

2. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations, or by the CDFW or the USFWS?

No riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or United States Fish and Wildlife Service exists on the project site. No adverse effect will occur as a result of the development of the proposed project and no mitigation measures are recommended.

3. Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No features, identified in wetland categories, appear on the USFWS National Wetlands Inventory mapping (USFWS 2021) on the proposed, modified project site. No federally protected wetlands as defined by Section 404 of the Clean Water Act were identified during the field study conducted for the preparation of this report. No substantial adverse effect will occur as a result of the development of the project. No mitigation measures are recommended.

4. Would the project 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 wildlife nursery sites?

No migratory wildlife corridors were identified during the literature search or field study. The project will not interfere substantially with the movement of any native fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites. The following recommendations are provided for the general protection of bird species that may occur on the project site or vicinity in compliance with the MBTA:

If ground-disturbing activities are planned during the nesting season for migratory birds that may nest on or near the site (generally February 1 through August 31), nesting bird surveys are recommended prior to



the commencement of ground disturbance for project activities. If nesting birds are present, no new construction or ground disturbance should occur within an appropriate avoidance area for that species until young have fledged, unless otherwise approved and monitored by a qualified onsite biologist. Appropriate avoidance should be determined by a qualified biologist. In general, minimum avoidance zones for active nests should be implemented as follows: 1) ground or low-shrub nesting non-raptors – 300 feet (91 meters); 2) burrowing owl – as appropriate based on nest location, existing surrounding activity, and evaluation of owl behavior. Coordination with CDFW may be warranted. 3) Sensitive raptors (e.g., prairie falcon, golden eagle) – 0.5 miles (0.8 kilometers); 3) other raptors – 500 feet (152 meters).

5. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

There are no biological resources on the site which are protected by local policies. Impacts from conflicts with local policies will not occur. No additional mitigation measures are recommended.

6. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

The project does not conflict with any Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. No additional mitigation measures are recommended.



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APPENDIX A

PROJECT VICINTY AND SITE



Figure A-1. Aerial photograph of the project and vicinity (Google Earth Pro 2023).



Figure A-2. Aerial photograph of the project and vicinity (Google Earth Pro 2023).



Figure A-3 Soil map of the project site (USDA, Natural Resources Conservation Service 2023).



Figure A-4. Photograph of the project site taken from the NE corner facing SW (13Jan24).



Figure A-5. Photograph of the project site taken from near the SE corner facing W (13Jan24).



Figure A-6. Photograph of the project site from near the SW corner facing NE (13Jan24).



Figure A-7. Photograph of the project site taken from the NW corner facing SE (13Jan24).

APPENDIX B

SPECIAL-STATUS PLANT AND ANIMAL EVALUATION



Table B-1: Special-status Plants That May Occur in the Vicinity of the Project.

Scientific Name Common Name	Status Fed/State/CNPS	Description	Blooming Period	Field Study Results/Potential for Occurrence
<i>Astragalus hornii</i> var. <i>hornii</i> Horn's milk vetch	S/-/1B.1	Annual herb in the Fabaceae found in meadows and seeps and on playas and lake margins on alkaline soils between 197 and 2,789 feet (60–850 meters) in elevation. Known from occurrences in the Southern San Joaquin Valley, the Tehachapi Mountains and the Western Transverse Ranges in Kern, Los Angeles, and San Bernardino Counties.	May to October	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Atriplex cordulata</i> var. <i>cordulata</i> Heartscale	S/-/1B.2	Herbaceous annual in the Chenopodiaceae found in chenopod scrub, meadows and weeps, and valley and foothill grasslands in sandy, saline or alkaline soils below 1,837 feet (560 meters) in elevation. Known to occur in the Great Central Valley from Kern County north to Southern Butte County.	April to October	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Atriplex coronata</i> var. <i>vallicola</i> Lost Hills crownscale	S/-/1B.2	Herbaceous annual in the Chenopodiaceae found in valley and foothill grasslands, playas, and vernal pools on alkaline soils between 456 and 1,640 feet (139–500 meters) in elevation.	April to August	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Atriplex tularensis</i> Bakersfield smallscale	-/E/1A	Annual herb in the Chenopodiaceae found in valley and foothill grasslands, between 131 and 328 feet (40–100 meters) in elevation. Known to occur in the San Joaquin Valley from Northwestern Kern County north to Southern Merced County and in the Sacramento Valley in Southern Butte County.	June to August (occasionally October)	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Calochortus striatus</i> Alkali mariposa lily	S/-/1B.2	Bulbiferous perennial herb in the Liliaceae found in chaparral, cismontane woodland, lower montane coniferous forest, and valley and foothill grasslands on sandy often granitic, sometimes serpentine soils, between 1,296 and 3,281 feet (395–1,000 meters). Known to occur in the Outer South Coast Ranges in Santa Barbara and San Luis Obispo Counties.	April to May	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Caulanthus californicus</i> California jewelflower	E/E/1B.1	Annual herb in the Brassicaceae family found on serpentinite soils in closed-cone coniferous forest, chaparral, and cismontane woodland between 1,542 and 4,003 feet (470–1,220 meters) in elevation.	May to July	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.



Scientific Name Common Name	Status Fed/State/CNPS	Description	Blooming Period	Field Study Results/Potential for Occurrence
<i>Chloropyron molle</i> ssp. <i>hispidum</i> Hispid bird's-beak	S/-/1B.1	Hemiparasitic annual herb in the Orobanchaceae family found on coastal dunes and coastal saltwater marshes and swamps below 98 feet (30 meters) in elevation.	May to October	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Delphinium recurvatum</i> Recurved larkspur	S/-/1B.2	Perennial herb in the Ranunculaceae family found in chaparral, cismontane woodland, and pinyon and juniper woodland on rocky, carbonate soils between 984 and 4,396 feet (300–1,340 meters) in elevation. Known to occur in Kern and Tulare Counties.	April to May	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Eremalche parryi</i> ssp. <i>kernensis</i> Kern mallow	E/-/1B.1	Perennial, stoloniferous herb in the Onagraceae family found in meadows and seeps, and subalpine coniferous forest in mesic soils between 6,562 and 10,236 feet (2,000–3,120 meters) in elevation. Known to occur in Alpine, El Dorado, Fresno, Madera, Mono, Nevada, Sierra, and Tuolumne Counties.	July to August	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Imperata brevifolia</i> <i>California satintail</i>	-/-/2B.1	Perennial herb in the Poaceae family found in chaparral, coastal sage scrub, creosote bush scrub and wetland-riparian communities. Known to occur in Butte, Lake, Fresno, Tulare, Inyo, Kern, Santa Barbara, Ventura, San Bernadino, Orange, Riverside, San Diego and Imperial Counties.	September to May	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Lasthenia glabrata</i> ssp. <i>Coulteri</i> <i>Coulter's goldfields</i>	-/-/1B.1	Annual herb in the Asteraceae family found in vernal pools and saline places at elevations below 1000m. Known to occur in Kern and San Joaquin Counties	February to June	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Monolopia congdonii</i> San Joaquin woolly-threads	E/-/1B.2	Perennial, rhizomatous herb in the Ericaceae family found in broadleaved upland forest and North Coast coniferous forest between 328 and 3,609 feet (100–1,100 meters) in elevation. Known to occur in Del Norte, Fresno, Humboldt and Siskiyou Counties.	May to August	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.
<i>Opuntia basilaris</i> var. <i>treleasei</i> Bakersfield cactus	E/E/1B.1	Perennial stem succulent in the Cactaceae family found in chenopod scrub, cismontane woodland, and valley and foothill grasslands between 394 and 1,804 feet (120–550 meters) in elevation. Known to occur in the Southeast San Joaquin Valley and Southern Sierra Nevada Foothills in Kern County.	April to May	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.



Scientific Name Common Name	Status Fed/State/CNPS	Description	Blooming Period	Field Study Results/Potential for Occurrence
<i>Stylocline masonii</i> Mason's neststraw	S/-/1B.1	Annual herb in the Asteraceae family found in chenopod scrub, coastal scrub, and valley and foothill grasslands on clay soils between 164 and 1,312 feet (50–400 meters) in elevation. Known from locations in Kern and San Diego Counties.	March to April	Not Observed/Not Expected. Decades of intensive farming has resulted in vegetation limited to invasive/ruderal species.

STATUS:

Federal and State Listing Code

- D Delisted
- E Federally or State-listed Endangered
- T Federally or State-listed Threatened

CNPS

- 1A Plants presumed extirpated in California, and either rare or extinct elsewhere
- 1B.1 Plants considered rare, threatened, or endangered in California and elsewhere; seriously threatened in California
- 1B.2 Plants considered rare, threatened, or endangered in California and elsewhere; fairly threatened in California
- 2B.1 Plants considered rare, threatened, or endangered in California, but more common elsewhere; seriously threatened in California
- 4.2 Plants of limited distribution in California; fairly threatened in California



Table B-2: Special-status Animals That May Occur in the Vicinity of the Project.

Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
Invertebrates			
<i>Desmocerus californicus dimorphus</i> Valley elderberry longhorn beetle	T/-	Central Valley riparian forest; nearly always found on or close to its host plant, elderberry (<i>Sambucus</i> species).	Not Present. No suitable habitat for the species. No host plants present on the project or vicinity.
<i>Branchinecta lynchi</i> Vernal pool fairy shrimp	T/-	Found in vernal pools throughout California. Exist as cysts during the dry season and reproduce when pools are filled with water again.	Not Present. No suitable habitat present.
Fishes			
<i>Hypomesus transpacificus</i> Delta smelt	T/-	Found only in the low-salinity and freshwater habitats of the Sacramento-San Joaquin Estuary. Historically, it was one of the most common pelagic fish in the estuary	Not Present. No suitable habitat present.
Amphibians			
<i>Rana draytonii</i> California red-legged frog	T/-	Found in habitat characterized by dense, shrubby, riparian vegetation and associated still, or slow-moving water that is at least 2.3 feet deep. The arroyo willow (<i>Salix lasiolepis</i>) cattails (<i>Typha</i> sp.) and bulrushes (<i>Scirpus</i> sp.) provide good habitat.	Not Present. No suitable habitat present.
<i>Spea hammondi</i> Western spadefoot toad	-/ CSC	Central valley and adjacent foothills, Coast Ranges from Point Conception south to the Mexico border; valley-foothill grasslands and valley-foothill hardwood, shallow temporary pools used for breeding, below 4,472 feet (1,363 meters).	Not Observed/Not Expected. No known records in the vicinity of the project. Marginal habitat present on the project.
Reptiles			
<i>Anniella spp.</i> California legless lizard	-/CSC	Found in coastal dunes, chaparral, pine-oak woodlands, desert scrub, and sandy washes in warm moist loose soils, below 5,085 feet (1550 meters).	Not Observed/Not Expected. Suitable habitat absent from the site. Potential habitat in the project vicinity.
<i>Arizona elegans occidentalis</i> California glossy snake	-/CSC	Found in low elevation scrub, grasslands and chaparral habitats.	Not Present. No suitable habitat present.
<i>Emys marmorata</i> Western pond turtle	-/CSC	Completely aquatic requiring calm waters such as pools or streams with vegetation banks or logs for basking. Will utilize upland habitat up to about 0.5 km from water.	Not Present. No suitable habitat present.
<i>Gambelia sila</i> Blunt-nosed leopard lizard (BNLL)	E/E,SFP	Found only in the San Joaquin Valley, adjacent Carrizo Plain, Elkhorn Plain, Cuyama Valley, and Panoche Valley; inhabits sparsely vegetated plains, lower canyon slopes, on valley floors, and washes; open grassland, saltbush scrub, and alkali sink are more common habitat types.	Not Present. No suitable habitat present.



Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
<i>Masticophis flagellum ruddocki</i> San Joaquin coachwhip	-/CSC	Found in the San Joaquin Valley in open, dry habitats. Associated with valley grassland and saltbush scrub habitats containing small mammal burrows which are used for refugia and oviposition sites.	Not Present. No suitable habitat present.
<i>Phrynosoma blainvillii</i> Coast horned lizard	-/CSC	Inhabits valley-foothill hardwood, coniferous and riparian, as well as pine-cypress, juniper, and annual grasslands, in Sierra Nevada below 3,937 feet (1,200 meters) and in mountains of Southern California and into the adjacent valleys.	Not Present. No suitable habitat present.
<i>Thamnophis gigas</i> Giant gartersnake	T/T	Found in areas of freshwater marshes or low-gradient streams. Can also be found in human-made habitats, such as drainage canals and irrigation ditches, especially those associated with rice farming.	Not Present. No suitable habitat present. Species believed to be extirpated from Kern County.
Birds			
<i>Agelaius tricolor</i> Tricolored blackbird	S/CSC	Forages in grasslands, wetlands, rice fields, croplands, and weedy uplands dominated by mustards and thistles, etc.; breeds in marshes containing heavy growth of bulrushes, cattails, and blackberries; found throughout the Central Valley.	Not Present/Low Probability of Occurrence in the Project Vicinity. No suitable nesting habitat on the site. Potential for marginal foraging habitat in farmlands in the vicinity of the project.
<i>Ardea alba</i> Great egret	-/-	Common resident in the southern San Joaquin Valley. Nests in large trees. Forages in saline and freshwater ponds, streams, wetlands, and irrigated farmland. Rookeries are considered sensitive by CDFW.	Not Observed/Moderate Probability of Occurrence in the Project Vicinity. No suitable nesting or foraging habitat present on the site. Suitable habitat for nesting and foraging in the vicinity of the project.
<i>Athene cunicularia</i> Burrowing owl	-/CSC	Inhabits dry, open grasslands, rolling hills, desert floors, prairies, savannas, agricultural land, and other areas of open, bare ground. These owls will also inhabit open areas near human habitation, such as airports, golf courses, shoulders of roads, railroad embankments, and the banks of irrigation ditches and reservoirs.	Not Observed/Moderate Probability of Occurrence in the Project Vicinity. Suitable habitat for nesting and foraging in the vicinity of the project. No burrowing owls or owl burrows observed.
<i>Buteo swainsoni</i> Swainson's hawk	-/T	Riparian and sometimes large isolated trees used for nesting; grasslands and agricultural lands used for foraging; in California, breeds primarily in the Sacramento Valley, with occasional nesting to the south through Kern County; migrate through the Central and San Joaquin Valleys to their wintering grounds in South America.	Not Observed/Low Probability of Occurrence in the Project Vicinity. No suitable nesting sites on the project. Low suitable foraging habitat exists across the row-crop farmland south of metropolitan Bakersfield.
<i>Charadrius nivosus nivosus</i> Western snowy plover	T/-	Nests, feeds, and takes cover on sandy or gravelly beaches along the coast, on estuarine salt ponds, alkali lakes, and at the Salton Sea. On the Pacific coast, it nests on barren to sparsely vegetated sand beaches,	Not Present. No suitable wintering habitat or foraging habitat exists on the project.



Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
		dry salt flats in lagoons, dredge spoils deposited on beach or dune habitat, levees and flats at salt-evaporation ponds, and river bars.	
<i>Circus cyaneus</i> Northern harrier	-/CSC	Widespread breeding resident, other than in the Central Valley, most lowland birds are winter migrants; ground nester that forages and nests in a wide variety of open habitats with low perches such as marshes, fields, and other treeless areas.	Not Observed/Low Probability of Occurrence in the Project Vicinity. No suitable nesting sites on the project. Suitable foraging habitat exists across the row-crop farmland south of metropolitan Bakersfield.
<i>Coccyzus americanus occidentalis</i> Western yellow-billed cuckoo	T/E	Nests in walnut and almond orchards in California, natural nesting habitat is in cottonwood-tree willow riparian forest. Known populations of breeding western yellow-billed cuckoo are several disjunct locations in California, Arizona, and western New Mexico.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
<i>Dendrocygna bicolor</i> <i>Fulvous whistling duck</i>	-/CSC	Nests in fresh emergent wetlands and quiet riverine waters. Uncommon to fairly common in the San Joaquin Valley, April to November.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
<i>Egretta thula</i> Snowy egret	-/-	Colony nesting in trees, shrubs, mangroves on or near ground in marshes, swamps, ponds. Widespread in the San Joaquin Valley in all aquatic habitat types.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
<i>Elanus leucurus</i> White tailed kite	-/SFP	Associated habitats include open grasslands, savannahs, agriculture, wetlands, oak woodland and riparian areas with associated open space.	Not Observed/Low Probability of Occurrence in the Project Vicinity. No suitable nesting sites on the project. Suitable foraging habitat exists across the row-crop farmland south of metropolitan Bakersfield.
<i>Empidonax traillii</i> Willow Flycatcher	-/E	Nests and forages in riparian habitats with dense vegetation characterized by willows, buttonbush and coyote brush, with a scattered overstory of cottonwood. Have also been known to nest in thickets dominated by tamarisk.	Not Present. No suitable nesting or foraging habitat present.
<i>Eremophila alpestris actica</i>	-/WL	Resident throughout California from the coast to the deserts up to alpine dwarf-shrub habitat above tree line	Not Observed/Moderate Probability of Occurrence in the Project Vicinity. Horned lark occur throughout the southern San Joaquin Valley and undoubtedly forage in the project vicinity.
<i>Lanius ludovicianus</i> Loggerhead shrike	-/CSC	Common resident and winter visitor in lowlands and foothills throughout California; species prefers open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches; nests on stable branches in densely-foliaged shrubs or trees, usually well-concealed.	Not Observed/Moderate Probability of Occurrence in the Project Vicinity. No suitable nesting habitat present. Loggerhead shrike occur throughout the southern San Joaquin Valley and undoubtedly forage in the project vicinity.



Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
<i>Plegadis chihi</i> White-faced ibis	-/WL	Nesting associated with large emergent wetlands. Will forage in a variety of wet meadows, irrigated pastures, flooded pond edges and wet cropland.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
<i>Vireo bellii pusillus</i> Least Bell's vireo	E/E	Occurs in riparian habitat along slow-moving, meandering rivers of southern California. Requires dense riparian shrubbery for nesting.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
<i>Xanthocephalus xanthocephalus</i>	-/CSC	Yellow-headed blackbirds are found in freshwater marshes during the summer. They particularly like to live among cattails, tule, and bulrush. During migration and over winter months, the Yellow-headed Blackbird is found in open, cultivated lands, in fields, and in pastures.	Not Present. No suitable nesting habitat exists on the project for this species. The site represents poor foraging habitat.
Mammals			
<i>Ammospermophilus nelsoni</i> San Joaquin antelope squirrel	-/T	Found in grasslands or open shrublands; formerly more extensive, current range includes southwestern portion of the San Joaquin Valley and in adjacent valleys to the west.	Not Present. Beyond the current published range of the species.
<i>Dipodomys ingens</i> Giant kangaroo rat	E/E	Western side of the San Joaquin Valley, including the Carrizo Plain and the Panoche Valley; grassland and shrub-land habitats with sparse vegetative cover and soils that are well-drained, fine sandy loams with gentle slopes.	Not Present. Beyond the current published range of the species.
<i>Dipodomys nitratooides brevinasus</i> Short-nosed kangaroo rat	E/E	Found in arid communities on the valley floor portions of Kern, Tulare, and Kings counties in scrub and grassland communities in level to near-level terrain with alluvial fan-floodplain soil (fine sands and sandy loams) with sparse grasses and woody vegetation such as iodine bush, saltbush, seep weed, and mesquite.	Not Present. Beyond the published range of the species.
<i>Dipodomys nitratooides nitratooides</i> Tipton kangaroo rat	E/E	Found in arid communities on the valley floor portions of Kern, Tulare, and Kings counties in scrub and grassland communities in level to near-level terrain with alluvial fan-floodplain soil (fine sands and sandy loams) with sparse grasses and woody vegetation such as iodine bush, saltbush, seep weed, and mesquite.	Low Probability of Occurrence. Habitat suitable for <i>Dipodomys</i> sp. The project is not within the southwest focus area of the previous Habitat Conservation Plan. Burrows typical of kangaroo rat were observed scattered across the project. Small mammal trapping would be required to determine species occupation.
<i>Eumops perotis californicus</i> Greater western mastiff bat	-/CSC	Open, semi-arid to arid habitats, including conifer and deciduous woodlands, annual and perennial grasslands, chaparral, desert scrub, and urban areas; roosts in cliff faces, as well as high buildings, trees, and	No Roosting Sites Present. No known occurrences in the vicinity of the project. Information on some bat species indicates foraging may occur over 10's of



Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
		tunnels; uncommon resident in southwestern San Joaquin Valley.	miles from roosting sites. Impacts not expected.
<i>Lasiurus cinereus</i> Hoary bat	-/CSC	Open, semi-arid to arid habitats, including conifer and deciduous woodlands, annual and perennial grasslands, chaparral, desert scrub, and urban areas; roosts in cliff faces, as well as high buildings, trees, and tunnels; uncommon resident in southwestern San Joaquin Valley.	No Roosting Sites Present. No known occurrences in the vicinity of the project. Information on some bat species indicates foraging may occur over 10's of miles from roosting sites. Impacts not expected.
<i>Onychomys torridus tularensis</i> Tulare grasshopper mouse	-/CSC	Found in valley grasslands habitats, blue oak savanna, desert associations dominated by annual grasses and California ephedra, alkali sink scrub, saltbush scrub, and upper Sonoran shrub associations, dominated by ephedra.	Not Observed/Not Expected. Beyond the current published range of the species.
<i>Perognathus inornatus inornatus</i> San Joaquin pocket mouse	S/-	Found in west-central California in the Upper Sacramento Valley, Tehama County, southward through the San Joaquin and Salinas valleys and contiguous areas to the Mojave Desert in Los Angeles, Kern and extreme western San Bernardino counties. Inhabits dry, open, grassy or weedy areas and annual grasslands, savannas, and desert-scrub associations with sandy washes or finely textured soils.	Not Observed/Not Expected. Beyond the current published range of the species.
<i>Sorex ornatus relictus</i> Buena Vista Lake shrew	E/CSC	Formerly occupied marshlands of the San Joaquin Valley and the Tulare Basin. Its range has become much restricted due to the loss of lakes and sloughs in the area. It has been recorded from the Kern Lake Preserve area and the Kern National Wildlife Refuge. Current distribution is unknown but likely to be very restricted due to the loss of habitat.	Not Present. No suitable habitat present.
<i>Taxidea taxus</i> American badger	-/CSC	Uncommon resident found through California; in less disturbed grassland and shrubland habitats in San Joaquin Valley.	Not Present No suitable habitat.
<i>Vulpes macrotis mutica</i> San Joaquin kit fox (SJKF)	E/T	Found in valley saltbush scrub, valley sink scrub, Interior Coast Range saltbush scrub, upper Sonoran sub-shrub scrub, non-native grassland, and valley sacaton grassland in the Central Valley and adjacent foothills and valleys, infrequently to the outer Coast Ranges; generally not found in densely wooded areas, wetland areas, or areas subject to frequent periodic flooding.	Moderate to High Probability of Occurrence. No potential, known, or natal dens were observed. SJKF potential for occurrence moderate to high in the vicinity of the project.

STATUS:

Federal

State



Scientific Name Common Name	Status Federal/State	General Habitat	Survey Results/Regional or Nearest Occurrence*
S	Listed as a BLM Sensitive Species		CSC California Department of Fish and Wildlife Designated Species
D	Delisted		of Special Concern
E	Listed as Endangered		D Delisted
PT	Proposed as Threatened		E Listed as Endangered
T	Listed as Threatened		SFP California Department of Fish and Wildlife Designated Fully
C	Candidate for Endangered Status		Protected
			T Listed as Threatened

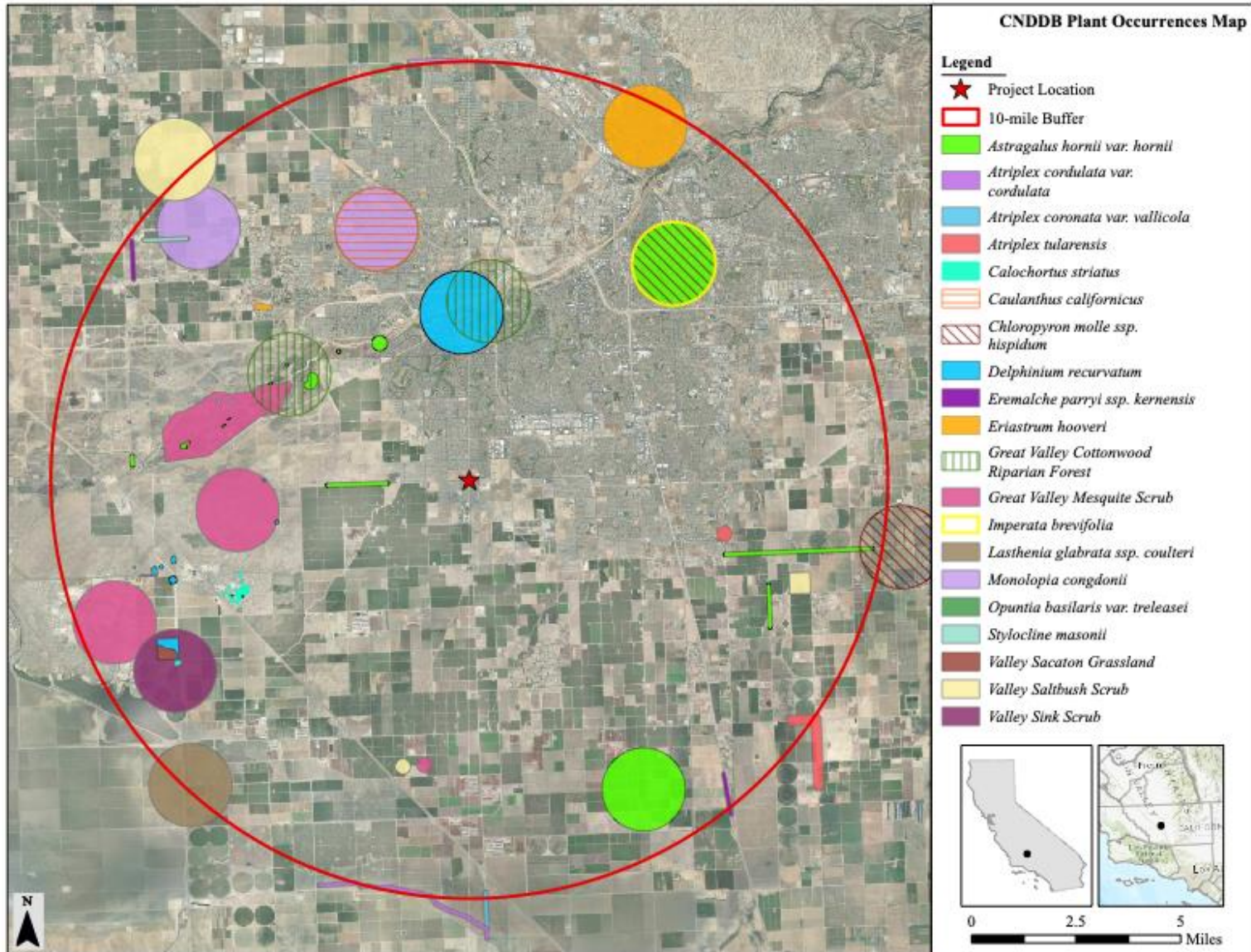


Figure B-1. CNDDDB special-status plant species occurrences within a 10-mile radius of the project (CDFW 2023).

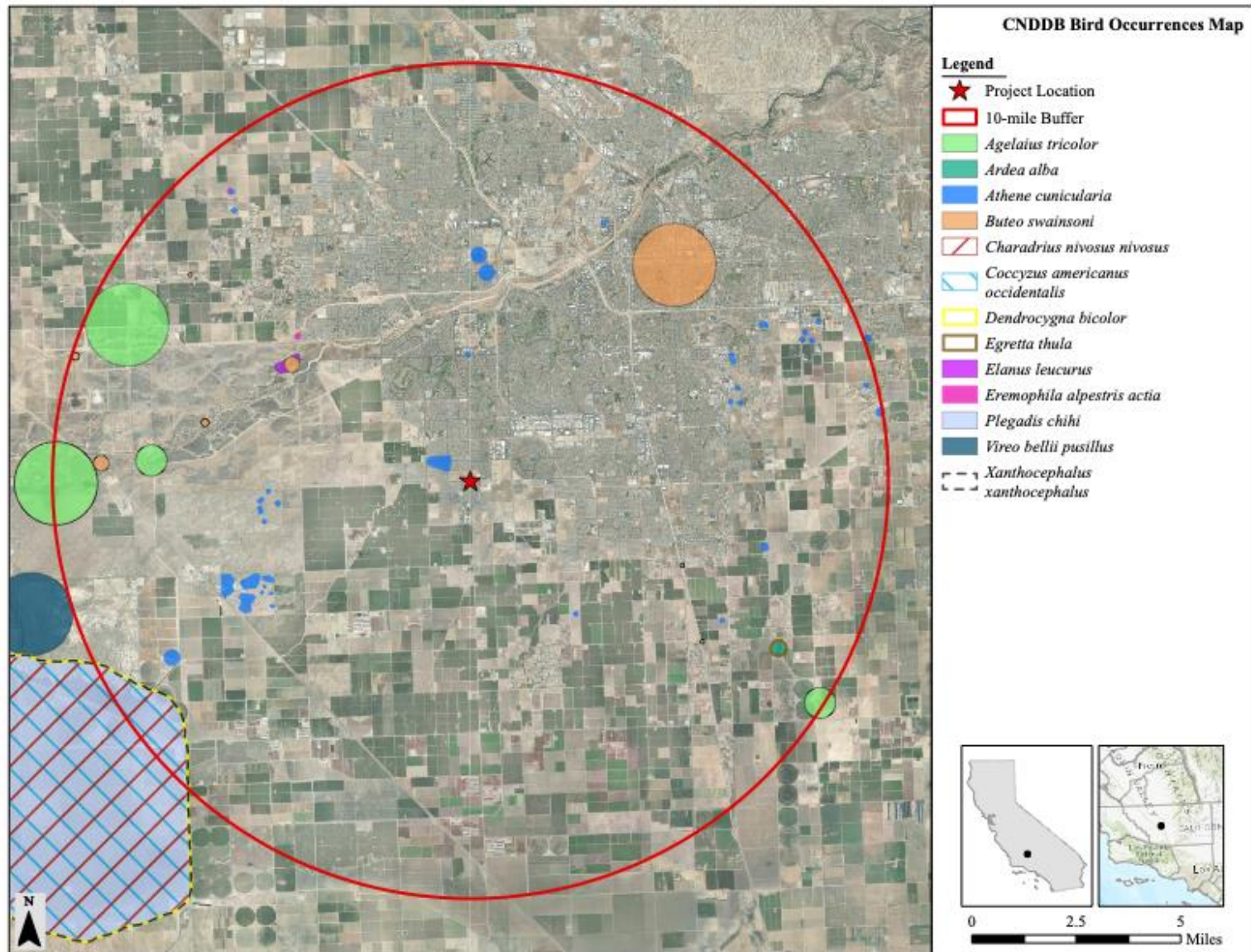


Figure B-2. CNDDDB special-status bird species occurrences within a 10-mile radius of the project (CDFW 2023).

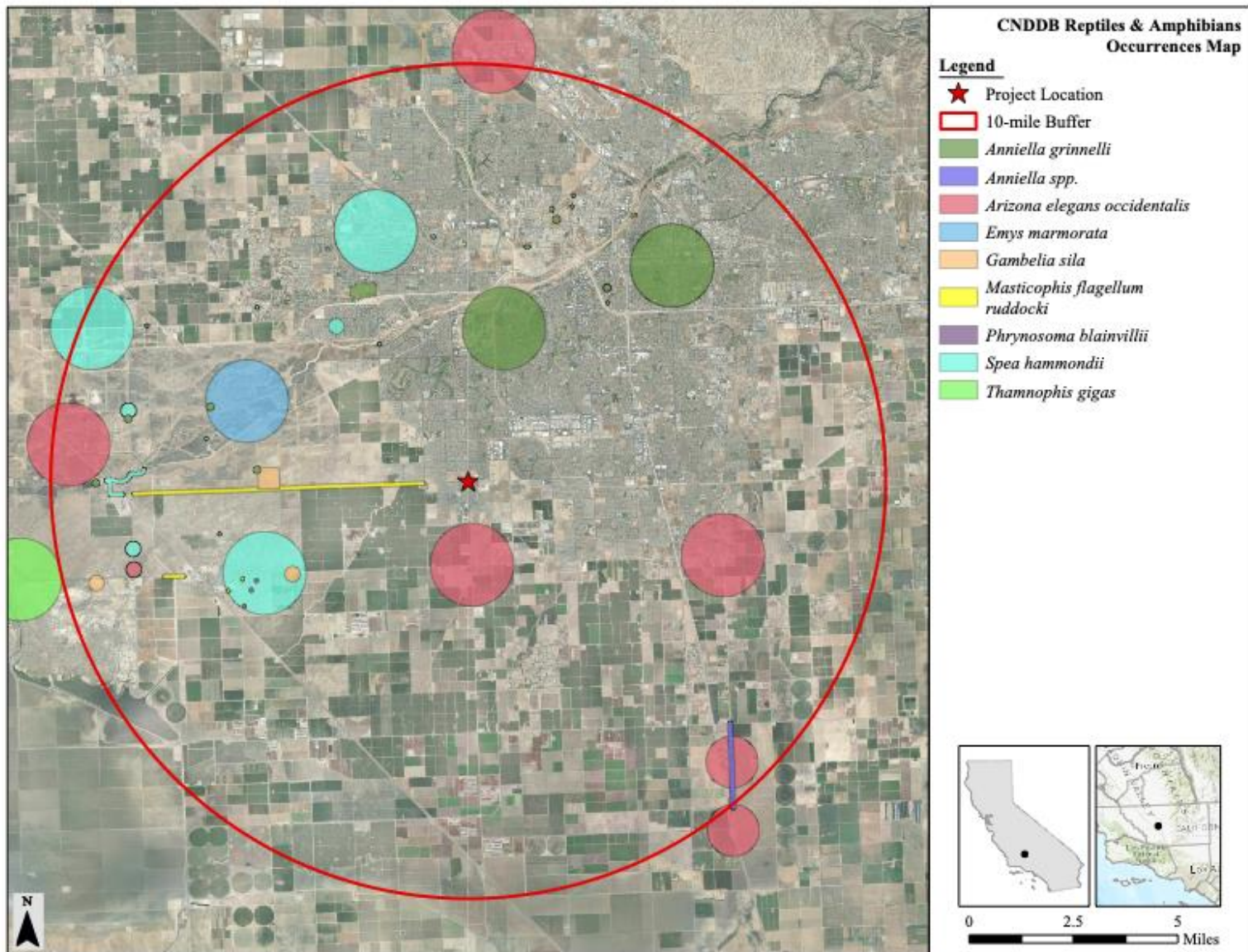


Figure B-3. CNDDDB special-status amphibian and reptile species occurrences within a 10-mile radius of the project (CDFW 2023).

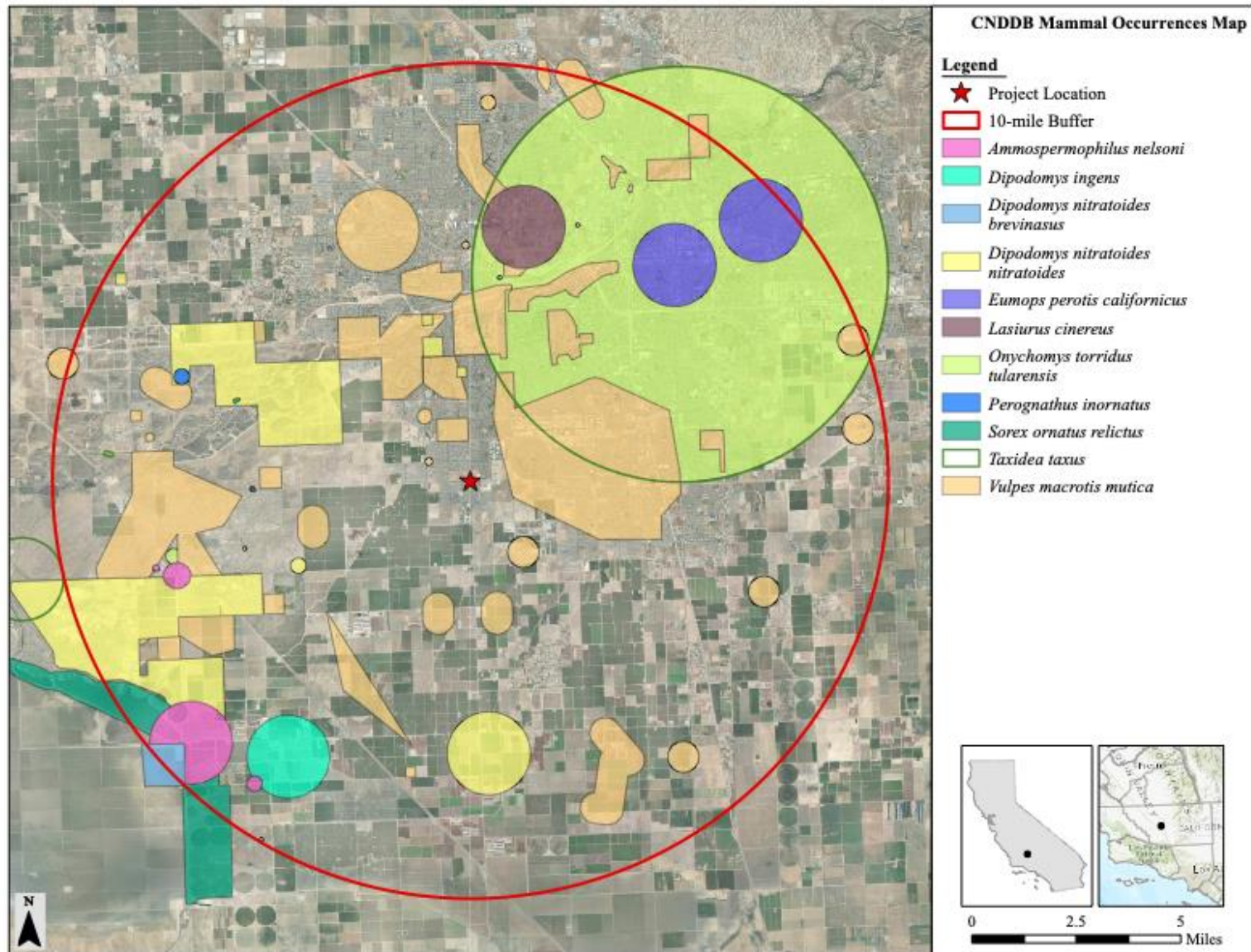


Figure B-4. CNDDDB special-status mammal species occurrences within a 10-mile radius of the project (CDFW 2023).

APPENDIX C

PLANTS AND ANIMALS OBSERVED ON THE PROJECT

FIELD STUDY CONDUCTED
13 January 2023



Table C-1. Vascular plant species observed during the field study conducted on the project site.

Scientific Name	Common Name
Asteraceae	
<i>Lactuca seriola</i>	Prickly lettuce
<i>Senecio vulgaris</i>	Common groundsel
Boraginaceae	
<i>Amsinkia menziesii</i>	Fiddleneck
Brassicaceae	
<i>Sisymbrium irio</i>	London rocket
Chenopodiaceae	
<i>Salsola tragus</i>	Russian thistle
Geraniaceae	
<i>Erodium cicutarium</i>	Redstem filaree
Malvaceae	
<i>Malva parviflora</i>	Cheeseweed
Poaceae	
<i>Bromus madritensis ssp. rubens</i>	Red brome
<i>Cynodon dactylon</i>	Bermudagrass
<i>Cyperus rotundus</i>	Nut sedge
<i>Digitaria sp.</i>	Crabgrass
<i>Hordeum vulgare</i>	Farmer's foxtail
<i>Poa annua</i>	Annual bluegrass
Zygophyllaceae	
<i>Tribulus terrestris</i>	Punctervine

Table C-2. Vertebrate animal species observed during the field study conducted on the project site.

Scientific Name	Common Name
Birds	
<i>Columba livia</i>	Rock Dove
<i>Haemorhous mexicanus</i>	House finch
<i>Passer domesticus</i>	House sparrow
<i>Sturnus vulgaris</i>	European starling
<i>Zenaida macroura</i>	Mourning dove

Scientific Name	Common Name
Mammals	
<i>Canis lupus familiaris</i>	Domestic dog (Observed)
<i>Otospermophilus beecheyi</i>	California ground squirrel (Observed)
<i>Vulpes vulpes</i>	Red fox (Observed)