Estrella Substation and Paso Robles Area Reinforcement Project Biological Resources Technical Report for the Templeton Route Alternatives San Luis Obispo County, California

Prepared for

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EXECUTIVE SUMMARY

A Biological Resources Technical Report (BRTR) has been prepared for the Paso Robles-Templeton Existing 70 kilovolt (kV) Route Alternative, the Paso Robles-Templeton South River Route Alternative, and Paso Robles-Templeton Creston Route Alternative (hereinafter collectively referred to as the "Templeton Route Alternatives") for the Estrella Substation and Paso Robles Area Reinforcement Project (project) proposed jointly by Pacific Gas and Electric Company (PG&E) and NextEra Energy Transmission West, LLC (NEET West). PG&E and NEET West prepared and filed a Proponent's Environmental Assessment (PEA) with the California Public Utilities Commission (CPUC) in May 2017 for the project (SWCA 2017a). The CPUC issued a PEA deficiency letter (Deficiency Letter No. 4, dated February 27, 2018) requiring that PG&E and NEET West evaluate alternatives to the project. This BRTR provides a technical environmental analysis of biological resources associated with the Templeton Route Alternatives.

The Templeton Route Alternatives are located within and adjacent to the Templeton and Paso Robles area of San Luis Obispo County. The Paso Robles-Templeton Existing 70 kV Route Alternative involves the reconstruction and conversion of an existing 4.9-mile 70 kV single-circuit power line into a double-circuit power line. The Paso Robles-Templeton South River Route Alternative involves the construction of a new, approximately 5.2-mile-long double-circuit 70 kV power line. The Paso Robles-Templeton Creston Route Alternative involves the construction of a new, approximately 6.1-mile-long double-circuit 70 kV power line.

This report is intended to identify biological resources within and adjacent to the Templeton Route Alternatives. Biological resources considered for this report include sensitive and common plants and animals, habitats and sensitive natural communities, wildlife movement corridors, and water features subject to federal or state jurisdiction. A literature review of existing information and field surveys was conducted to document biological resources within the Biological Study Areas (BSAs) for each route alternative. This BRTR outlines the methodologies used to assess the biological resources known to occur, or known to potentially occur, within the BSAs. Determinations regarding the likelihood of special-status species occurrence are based on an evaluation of available biological resource information on regional and local conditions, species biology, existing evaluations of the Templeton Substation Alternative location and surrounding areas, and professional field investigation experience.

Two special-status animals were observed in the BSAs: American badger (*Taxidea taxus;* California Department of Fish and Wildlife [CDFW] species of special concern [SSC]) was observed in the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs; and golden eagle (*Aquila chrysaetos;* CDFW fully protected species) was observed in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. In addition, 21 special-status plant species and 19 special-status wildlife species were determined to be either likely to occur, have potential to occur, or unlikely to occur within the BSAs. There is also high potential for common and special-status avian species to nest in the BSAs during the typical nesting season (February 1–August 31). Federally designated steelhead critical habitat occurs along the Westernmost portion of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA along the Salinas River. In addition, several potentially jurisdictional wetlands and other waters, including the Salinas River, Spanish Camp Creek, and several unnamed drainages and wetland features, were observed throughout the BSAs. These features may also serve as wildlife migration corridors for dispersal of species between local areas and at larger scales between regions.

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Acronyms and Abbreviations

°F	degrees Fahrenheit
AOU	American Ornithologists' Union
BGEPA	Bald and Golden Eagle Protection Act
BRTR	Biological Resources Technical Report
BSA	Biological Study Area
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
City	City of Paso Robles, agency
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
COSE	Conservation and Open Space Element
County	County of San Luis Obispo, agency
CPUC	California Public Utilities Commission
CRPR	California Rare Plant Rank
CWA	Clean Water Act
ESA	federal Endangered Species Act
ESU	Environmentally Sensitive Unit
GIS	Geographic Information Systems
GPS	global positioning system
НСР	Habitat Conservation Plan
HOA	Homeowners Association
kV	kilovolt
LCSLO	Land Conservancy of San Luis Obispo
MBTA	Migratory Bird Treaty Act
NCCP	Natural Communities Conservation Plan
NEET West	NextEra Energy Transmission West, LLC
NOAA	National Oceanic and Atmospheric Administration
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory

PEA	Proponent's Environmental Assessment
PG&E	Pacific Gas and Electric Company
project	Estrella Substation and Paso Robles Area Reinforcement Project
RWQCB	Regional Water Quality Control Board
SSC	Species of Special Concern
SWRCB	State Water Resources Control Board
U.S.C.	United States Code
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

1 INTRODUCTION

Pacific Gas and Electric Company (PG&E) and NextEra Energy Transmission West, LLC (NEET West) propose to construct the Estrella Substation and Paso Robles Area Reinforcement Project (project) in the Paso Robles area of San Luis Obispo County, California (Figure 1). In May 2017, PG&E and NEET West jointly prepared and filed a Proponent's Environmental Assessment (PEA) with the California Public Utilities Commission (CPUC) for the project (SWCA 2017a). The CPUC issued a series of PEA deficiency letters, and Deficiency Letter No. 4, dated February 27, 2018, required that PG&E and NEET West evaluate additional route alternatives to the project. In response to the CPUC's Deficiency Letter No. 4, PG&E identified the following three power line route alternatives, collectively referred to as the "Templeton Route Alternatives."

- Paso Robles-Templeton Existing 70 kilovolt (kV) Route Alternative involves the reconstruction and conversion of an existing approximately 4.9-mile 70 kV single-circuit power line route into a double-circuit power line. The existing power line connects Paso Robles Substation to Templeton Substation.
- Paso Robles-Templeton South River Route Alternative involves the construction of a new, approximately 5.2-mile-long double-circuit 70 kV power line that would connect Paso Robles Substation to Templeton Substation.
- Paso Robles-Templeton Creston Route Alternative involves the construction of a new approximately 6.1-mile-long double-circuit 70 kV power line that would connect Paso Robles Substation to Templeton Substation.

This Biological Resources Technical Report (BRTR) has been prepared to document existing biological resources in the vicinity of the Templeton Route Alternatives. A similar report has been prepared for the Templeton Substation Alternative component of the alternatives analysis, and the results of that effort are presented under separate cover. Biological resources considered include sensitive and common plants and animals, habitats and sensitive natural communities, wildlife movement corridors, and water features subject to federal or state jurisdiction. This report describes the methodologies used to assess the biological resources known to occur and with potential to occur, and documents existing biological resources in the vicinity of the Templeton Route Alternatives.

Biological Study Areas (BSAs) were established to include the maximum anticipated extent of effects related to the Templeton Route Alternatives (Figure 2). The BSAs generally consist of a 400-foot-wide corridor along the Templeton Route Alternatives. The BSAs were slightly expanded in some areas to account for flexibility in siting the Templeton Route Alternatives. Field surveys focused on areas within the BSAs, as described in Section 3.4, Field Surveys, below.

Figure 1. General Vicinity Map







1.1 PASO ROBLES-TEMPLETON EXISTING 70 KV ROUTE ALTERNATIVE

The Paso Robles-Templeton Existing 70 kV Route Alternative is in the north-central portion of San Luis Obispo County, east of the unincorporated community of Templeton and within and around the city of Paso Robles (Figures 1 and 2). The line begins by traveling west out of Templeton Substation for approximately 0.6 mile, then heads north generally paralleling Vaquero Drive for 0.7 mile before traveling adjacent to rural single-family residential homes and across undeveloped land for approximately 1.7 miles. The line then generally follows Santa Ysabel Avenue north for 0.8 mile and South River Road for an additional 1.1 miles before tying into Paso Robles Substation. The Paso Robles-Templeton Existing 70 kV Route Alternative BSA comprises approximately 286 acres. Land uses in the BSA primarily consist of rural residential developments and agricultural areas, with more dense urban developments along the northern end of the alignment. This route alternative is located on a combination of PG&E easements and privately-owned parcels, including the Santa Ysabel Ranch Homeowners Association (HOA).

1.2 PASO ROBLES-TEMPLETON SOUTH RIVER ROUTE ALTERNATIVE

The Paso Robles-Templeton South River Route Alternative is in the north-central portion of San Luis Obispo County, within and around the city of Paso Robles and east of the unincorporated community of Templeton (Figures 1 and 2). A new 70 kV power line would follow the existing 500 kV and 230 kV transmission line corridor northeasterly out of Templeton Substation for approximately 2.1 miles to where it intersects with South River Road. The route would then follow South River Road generally northwest for 3.1 miles before tying into Paso Robles Substation. The Paso Robles-Templeton South River Route Alternative BSA comprises approximately 265 acres. Land uses in the BSA consist of agricultural areas, rural residential areas, and areas of urban development. This route alternative is located on a combination of PG&E easements and privately owned parcels, including the Spanish Lakes and Santa Ysabel Ranch HOAs.

1.3 PASO ROBLES-TEMPLETON CRESTON ROUTE ALTERNATIVE

The Paso Robles-Templeton Creston Route Alternative is in the north-central portion of San Luis Obispo County, within and around the city of Paso Robles and east of the unincorporated community of Templeton (Figures 1 and 2). A new 70 kV power line would follow the existing 500 kV and 230 kV transmission line corridor northeasterly out of Templeton Substation for approximately 3.2 miles to where it intersects with Creston Road. At Creston Road, the line would head northwest for approximately 2.2 miles along Creston Road and Charolais Road, then continue north for approximately 0.7 mile along South River Road before tying into Paso Robles Substation. The Paso Robles-Templeton Creston Route Alternative BSA comprises approximately 343 acres. Land uses in the BSA primarily consist of agricultural and rural residential areas, with areas of urban development. This route alternative is located on a combination of privately owned and city of Paso Robles-owned parcels, PG&E easements, and a Land Conservancy of San Luis Obispo (LCSLO) conservation easement on private property, including the Spanish Lakes HOA.

2 REGULATORY BACKGROUND

2.1 FEDERAL

2.1.1 Endangered Species Act

The federal Endangered Species Act (ESA) of 1973 (United States Code [U.S.C.] Title 16, Sections 1531– 1544), as amended, protects plants, fish, and wildlife that are listed as endangered or threatened by the U.S. Fish and Wildlife Service (USFWS) or the National Oceanic and Atmospheric Administration's (NOAA's) National Marine Fisheries Service (NOAA Fisheries). Section 9 of the ESA prohibits the "take" of listed fish and wildlife, where "take" is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or attempt to engage in such conduct" (Code of Federal Regulations [CFR] Title 50, Section 17.3). For plants, this statute prohibits removing, possessing, maliciously damaging, or destroying any listed plant under federal jurisdiction and removing, cutting, digging up, damaging, or destroying any listed plant in knowing violation of state law (16 U.S.C. 1538).

The ESA allows for issuance of incidental take permits to private parties either in conjunction with a Habitat Conservation Plan (HCP) or as part of a Section 7 consultation (which is discussed in the following paragraph). Under Section 10 of the ESA, a private party may obtain incidental take coverage by preparing an HCP to cover target species within the project area, identifying impacts to the covered species and presenting the measures that will be undertaken to avoid, minimize, and mitigate such impacts.

Under Section 7 of the ESA, federal agencies are required to consult with USFWS and/or NOAA Fisheries, as applicable, if their actions—including permit approvals or funding—may affect a federally listed species (including plants) or designated critical habitat. If the project is likely to adversely affect a species, the federal agency will initiate formal consultation with USFWS and/or NOAA Fisheries and issue a biological opinion as to whether a proposed agency action(s) is likely to jeopardize the continued existence of a listed species (jeopardy) or adversely modify critical habitat (adverse modification). As part of the biological opinion, USFWS may issue an incidental take statement allowing take of the species that is incidental to an otherwise authorized activity, provided that the action will not jeopardize the continued existence of the species or adversely modify designated critical habitat.

2.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703–711) protects all migratory birds, including active nests and eggs. Birds protected under the MBTA include all native waterfowl, shorebirds, hawks, eagles, owls, doves, and other common birds such as ravens, crows, sparrows, finches, swallows, and others, including their body parts (for example, feathers and plumes), active nests, and eggs. A complete list of protected species can be found in 50 CFR 10.13. Enforcement of the provisions of the federal MBTA is the responsibility of USFWS. On April 11, 2018, the USFWS issued guidance on the recent official opinion from the DOI Solicitor's Office, known as M-Opinion, affecting MBTA implementation (USFWS 2018d). The M-Opinion concludes that the take of birds resulting from an activity is not prohibited by the MBTA when the underlying purpose of that activity is not to take birds. The USFWS interprets the M-Opinion to mean the MBTA prohibitions on take apply when the purpose of the action is to take migratory birds, their eggs, or their nests.

2.1.3 Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (BGEPA) of 1940 (16 U.S.C. 668) specifically protects bald and golden eagles and their nests from intentional harm or trade in parts of these species. The 1972 amendments increased penalties for violating provisions of the BGEPA or regulations issued pursuant thereto and strengthened other enforcement measures.

2.1.4 Clean Water Act

2.1.4.1 WATERS AND WETLANDS: CLEAN WATER ACT SECTIONS 401 AND 404

The purpose of the Clean Water Act (CWA) (33 U.S.C. 1251 et seq.) is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Waters of the U.S. include rivers, streams, estuaries, the territorial seas, ponds, lakes, and wetlands. Wetlands are defined as those areas "that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 328.3).

The U.S. Environmental Protection Agency (USEPA) and U.S. Army Corps of Engineers (USACE) have recently released a new rule that would revise this definition and clarify which bodies of water are covered by the CWA. However, on October 9, 2015, the U.S. Court of Appeals for the 6th Circuit granted a nationwide stay on the rule, and the previous interpretations and guidance remain in effect until further notice.

USACE issues permits for work in wetlands and other waters of the U.S. based on guidelines established under Section 404 of the CWA. Section 404 of the CWA prohibits the discharge of dredged or fill material into waters of the U.S., including wetlands, without a permit from USACE. USEPA also has authority over wetlands and may, under Section 404(c), veto a USACE permit.

Section 401 of the CWA requires all Section 404 permit actions to obtain a state Water Quality Certification or waiver.

2.2 STATE

2.2.1 California Endangered Species Act

Sections 2050–2098 of the California Fish and Game Code (the California Endangered Species Act [CESA]) prohibit the take of state listed endangered and threatened species unless specifically authorized by the CDFW). The state definition of "take" is to hunt, pursue, catch, capture, or kill a member of a listed species or attempt to do so. CDFW administers the CESA and authorizes take through permits or memorandums of understanding issued under Section 2081 of the CESA, or through a consistency determination issued under section 2080.1. CESA Section 2090 requires state agencies to comply with threatened and endangered species protection and recovery and to promote conservation of these species.

2.2.2 Fully Protected Species Under the California Fish and Game Code

The California Fish and Game Code designates certain fish and wildlife species as "fully protected" under Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish). Fully protected species may not be taken or possessed at any time, unless authorized by CDFW under a Natural Communities Conservation Plan (NCCP) (CDFW [2830], 2018e). San Luis Obispo County does not have a NCCP (CDFWh); therefore, no permits may be issued for incidental take of these species.

2.2.3 Protection for Birds Under the California Fish and Game Code

California Fish and Game Code Section 3503 et seq. state that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Section 3503.5 makes it unlawful to take, possess, or destroy any birds in the orders of

Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird.

2.2.4 Native Plant Protection Act

The Native Plant Protection Act of 1977 (NPPA; California Fish and Game Code Sections 1900–1913) includes provisions that prohibit the taking of endangered or rare native plants. CDFW administers the NPPA and generally regards as rare many plant species included on California Rare Plant Rank (CRPR) 1A, 1B, 2A, and 2B of the California Native Plant Society (CNPS) Inventory of Rare and Endangered Vascular Plants of California. In addition, sometimes CRPR 3 and 4 plants are considered if the population has local significance in the area and would be impacted by the project.

Section 1913(b) of the California Fish and Game Code includes a specific provision to allow for the incidental removal of endangered or rare plant species, if not otherwise salvaged by CDFW, within a right-of-way to allow a public utility to fulfill its obligation to provide service to the public.

2.2.5 California Species of Special Concern

Species of Special Concern (SSC) is a category conferred by CDFW to fish and wildlife species that meet the state definition of threatened or endangered, but have not been formally listed (e.g., federally or state listed species), or are considered at risk of qualifying for threatened or endangered status in the future based on known threats. SSC is an administrative classification only, but these species should be considered "special-status" for the purposes of the California Environmental Quality Act (CEQA) analysis (see the Significance Criteria section of this document).

2.2.6 Porter-Cologne Water Quality Control Act

The State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCB) have jurisdiction over all surface water and groundwater in California, including wetlands, headwaters, and riparian areas. SWRCB or the applicable RWQCB must issue waste discharge requirements for any activity that discharges waste that could affect the quality of waters of the state.

2.2.7 Lake and Streambed Alteration Agreement Under the California Fish and Game Code

In addition to listed and special-status species, CDFW regulates activities under California Fish and Game Code Sections 1600–1616 that require a streambed alteration agreement permit. California Fish and Game Code Section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following:

- Substantially divert or obstruct the natural flow of any river, stream, or lake.
- Substantially change or use any material from the bed, channel, or bank of any river, stream, or lake.
- Deposit debris, waste, or other materials that could pass into any river, stream, or lake.

2.3 LOCAL

This section includes a summary of local or regional plans, policies, or regulations that identify sensitive or special-status species in the area of the Templeton Route Alternatives, as well as local policies or ordinances that protect biological resources. Because CPUC has exclusive jurisdiction over the siting, design, and construction of the project, the project is not subject to local discretionary regulations related to biological resources. The following summary is provided for informational purposes and to assist with CEQA review.

2.3.1 County of San Luis Obispo General Plan

The County of San Luis Obispo General Plan includes a Conservation and Open Space Element (COSE), which addresses the protection and management of natural resources, as well as goals, policies, and strategies to conserve, protect, and restore biodiversity and open space (County of San Luis Obispo 2010). The COSE includes seven goals and policies within those goals. Specific goals pertaining to biological resources identified in the COSE include:

- Goal BR 1: Native habitat and biodiversity will be protected, restored, and enhanced.
- Goal BR 2: Threatened, rare, endangered, and sensitive species will be protected.
- Goal BR 3: Maintain the acreage of native woodlands, forests, and trees at 2008 levels.
- Goal BR 4: The natural structure and function of streams and riparian habitat will be protected and restored.
- Goal BR 5: Wetlands will be preserved, enhanced, and restored.
- Goal BR 6: The County's fisheries and aquatic habitats will be preserved and improved.
- Goal BR 7: Significant marine resources will be protected.

2.3.2 County of San Luis Obispo Oak Woodlands Management Plan

The Native Tree Committee of the County of San Luis Obispo (County) has established an Oak Woodland Management Plan to encourage the long-term conservation of oak woodlands. The plan is voluntary and for informational purposes only and is not bound by the law. The plan discusses the status, economic values, natural resource values, and aesthetic and open space values of oak woodlands. In addition, the plan offers the following conservation efforts: (1) design around existing oaks; (2) encourage clustered, denser developments; (3) encourage landscaping with oak trees/natives; (4) improve oak regeneration on grazed lands; and (5) purchase conservation easements (County of San Luis Obispo 2003).

2.3.3 County of San Luis Obispo San Joaquin Kit Fox Mitigation Requirements

The County evaluates impacts to San Joaquin kit fox (*Vulpes macrotis mutica*) for County-permitted projects to ensure impacts to kit fox are mitigated to an insignificant level under CEQA. CDFW and the County have developed mitigation measures to reduce impacts to San Joaquin kit fox habitat to an insignificant level. In addition, pre-determined standard mitigation ratios have been developed for County-permitted projects located within kit fox habitat areas (County of San Luis Obispo 2006).

The Templeton Route Alternatives' BSAs are located within a County-designated kit fox habitat area with recommended general measures and practices. The project proponents will take into consideration local policies and land use priorities and concerns as they relate to biological resources; however, the project is exempt from the County's discretionary permitting and mitigation and CPUC is the lead agency under CEQA.

2.3.4 City of El Paso de Robles General Plan

The City of El Paso de Robles General Plan includes a Conservation Element and Open Space Element, which address the City's commitment to rehabilitate and enhance the environmental quality of the planning

area through protection, planning, and management of natural resources (Rincon Consultants, Inc. 2003). The General Plan includes the following goal pertaining to biological resources:

• **Goal C-3: Biological Resources.** As feasible, preserve native vegetation and protected wildlife, habitat areas, and vegetation, through avoidance, impact mitigation, and habitat enhancement.

Specific policies identified to help achieve this goal include:

- **Policy C-3A: Oak Trees.** Preserve existing oak trees and oak woodlands. Promote the planting of new oak trees.
- **Policy C-3B: Sensitive Habitat.** Incorporate habitats into project design, as feasible, including: oak woodlands, native grasslands; wetlands, and riparian areas.

2.3.5 City of El Paso de Robles Oak Tree Preservation Ordinance

The City of El Paso de Robles Oak Tree Ordinance (Ordinance No. 835 N.S.), as amended in 2001 (Municipal Code Amendment 2001-001-Oak Trees), ensures the "preservation of oak trees in order to maintain the heritage and character of the City of El Paso de Robles ("The Pass of the Oaks") as well as preserve the beauty and identity of the community" (City of El Paso de Robles 2002). While not applicable to the project, the Oak Tree Ordinance requires permits to prune and permits to remove oak trees as identified in Section 10.01.030 as well as encourages preservation and maintenance of existing oak trees as identified in Section 10.01.070.

3 METHODOLOGY

A biological resources study was conducted to support this BRTR, using a literature and records review and field surveys to document the potential for biological resources to occur within the BSAs.

3.1 LITERATURE AND RECORDS REVIEW

Biologists reviewed available regional and local natural resources information, including published and unpublished documents, publicly available data sets, and herbarium records. Database searches included the nine U.S. Geological Survey (USGS) 7.5-minute quadrangles at and surrounding the Templeton Route Alternatives: Adelaida, York Mountain, Estrella, Paso Robles, Templeton, Creston, Morro Bay North, Atascadero, and Santa Margarita (USGS 2018b). Resources reviewed with respect to site-specific information included, but were not limited to:

- CDFW California Natural Diversity Database (CNDDB) (CDFW 2018c);
- CDFW California Wildlife Habitat Relationship Systems (CDFW 2018f);
- CDFW Special Animals List (CDFW 2018e);
- CNPS Rare Plant Program Inventory of Rare and Endangered Plants (CNPS 2018a);
- eBird: An online database of bird distribution and abundance [web application] (eBird 2018);
- A Guide to the Amphibians and Reptiles of California (California Herps 2000–2016);
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA NRCS 2018c);
- USFWS Critical Habitat Portal (USFWS 2018a);
- National Wetland Inventory (NWI) (USFWS 2018b);

- USFWS Species List (USFWS 2018c);
- USGS National Hydrography Dataset (USGS 2018a);
- USGS 7.5-minute series topographic quadrangle maps (USGS 2018b);
- Aerial imagery of the Templeton Route Alternatives' BSAs;
- Estrella Substation and Paso Robles Area Reinforcement Project: Biological Resources Technical Report for the 70 kV Power Line (SWCA 2017b); and
- Estrella Substation and Paso Robles Area Reinforcement Project: Biological Resources Technical Report for Estrella Substation (SWCA 2017c).

Biological resources data were collected and overlaid on to geospatial maps from desktop and field sources to develop a Geographic Information Systems (GIS) database specific to the Templeton Route Alternatives' BSAs. This was the first analysis level and it provided reviewers with essential sensitive species location data, preliminary habitat information, potential drainages, and other jurisdictional waters, and designated critical habitat for federally listed species.

Local expert botanist Dave Keil, Ph.D., provided expertise regarding special-status species that were historically recorded in the region (D. Keil, personal communication, June 3, 2016). Based on the preliminary review, biologists and botanists compiled a target list of special-status plants, as defined by the *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities* (CDFW 2018b), that were likely to occur in the BSAs based on site-specific conditions (soils, geology, topography, elevation, and associated plant communities).

3.2 SENSITIVE BIOLOGICAL RESOURCES

Sensitive plants and animals are defined within this report to include species, subspecies, varieties, and populations recognized by USFWS and CDFW that are classified into the following categories:

- Species and subspecies listed or proposed for listing by the state of California as threatened or endangered pursuant to the CESA.
- Animals listed on the California Special Animals List as SSC and Fully Protected.
- Species, subspecies, and populations listed or proposed for listing as threatened or endangered pursuant to the federal ESA, and species that are candidates for such listings.
- Plants included in the Special Vascular Plants, Bryophytes, and Lichens List (CDFW 2018d) as threatened, endangered, an SSC, or CRPR Rank 1 or 2.

In addition, natural communities recognized by CDFW as being of special concern were considered, along with riparian habitats and water bodies under the jurisdiction of USACE, CDFW, and/or RWQCB.

Throughout this document, species, subspecies, varieties, and populations are broadly referred to as "species," a term which is used here to indicate whichever pertinent taxonomic levels are recognized by the federal and state authorities with jurisdiction over plants and animals.

Species occurrences from the CDFW CNDDB RareFind5 (CDFW 2018c) and the CNPS Online Inventory of Rare and Endangered Plants (CNPS 2018) were queried for relevant sensitive species data. Records of sensitive plants, animals, and natural communities were queried within the Adelaida, York Mountain, Estrella, Paso Robles, Templeton, Creston, Morro Bay North, Atascadero, and Santa Margarita USGS 7.5-minute quadrangles. Using the information generated from literature reviews and field surveys, the list of

special-status species with the potential to occur was further refined to reflect the species that may occur within the BSA. The likelihood of special-status species occurrence was determined based on natural history parameters, including, but not limited to, the species' range, habitat, foraging needs, migration routes, and reproductive requirements. For the purpose of this study, potential for occurrence determinations were made using the following general categories:

- *Present*: Reconnaissance-level, focused, or protocol-level surveys documented the occurrence or observation of a species in the BSA.
- Seasonally present: Individuals were observed in the BSA only during certain times of the year.
- *Likely to occur*: The species has a strong likelihood to be found in the BSA prior to or during construction but has not been directly observed to date during surveys. The likelihood that a species may occur is based on the following considerations: suitable habitat that meets the life history requirements of the species is present in the BSA; migration routes or corridors are within the BSA; records of sighting are documented within or near (5 miles) the BSA; and there is an absence of invasive predators. The main assumption is that records of occurrence have been documented within or near (5 miles) the BSA, the BSA falls within the range of the species, suitable habitat is present, but it is undetermined whether the habitat is currently occupied.
- *Potential to occur*: There is a possibility that the species can be found in the BSA prior to or during construction but has not been directly observed to date. The likelihood that a species may occur is based on the following conditions: suitable habitat that meets the life history requirements of the species is present within the BSA; migration routes or corridors are within the BSA; and there is an absence of invasive predators. The main assumption is that the BSA falls within the range of the species, suitable habitat is present, but no records of sighting are located within or near (5 miles) the BSA, or the records are old and unreliable and it is undetermined whether the habitat is currently occupied.
- Unlikely to occur: The species is not likely to occur in the BSA based on the following considerations: lack of suitable habitat and features that are required to satisfy the life history requirements of the species (e.g., absence of foraging habitat, lack of reproductive areas, and lack of sheltering areas); presence of barriers to migration/dispersal; presence of predators or invasive species that inhibit survival or occupation (e.g., the presence of bullfrogs or invasive fishes); or lack of hibernacula, hibernation areas, or aestivation areas on site.
- *Absent*: Suitable habitat does not exist in the BSA, the species is restricted to or known to be present only within a specific area outside of the BSA, or focused or protocol-level surveys did not detect the species.

3.3 BIOLOGICAL STUDY AREA

The BSAs generally consist of a 400-foot-wide corridor along the Templeton Route Alternatives. The BSAs were established to account for flexibility in siting the Templeton Route Alternatives. Field surveys focused on areas within the BSAs (Figure 2), as described below in Section 3.4, Field Surveys.

3.4 FIELD SURVEYS

Biologists conducted a general reconnaissance-level field survey between June 11 and June 14, 2018. The reconnaissance-level survey included documentation of plant and animals; vegetation types; and identification of waters, wetlands, and riparian areas that were potentially under the jurisdiction of USACE, CDFW, and/or RWQCB. Vegetation communities were classified using *Preliminary Descriptions of the*

Terrestrial Natural Communities of California (Holland 1986). Habitat was evaluated for potential to support those special-status species identified during the desktop review, and detailed notes and photographs were taken to support determinations of the potential for those species to occur within the BSAs (Appendices A, B, and C). Surveyors noted and recorded all wildlife species encountered through direct observation or sign (scat, remains, or tracks), and for birds by their species-specific vocalizations. The use of binoculars also facilitated wildlife identification, and trees and other structures (such as buildings) within the BSAs were scanned for avian nests and roosting locations.

Botanical surveys were also conducted between June 11 and14, 2018; March 18, 20, 21, 22, 25, and 26, 2019; and April 19 and 22, 2019. CDFW's *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities* (CDFW 2018b) was generally followed to facilitate a consistent and systematic approach to the survey and assessment of special-status native plants and natural communities so that reliable information was produced and the potential of locating a special-status plant species or natural community was maximized. Surveys were conducted by walking transects throughout the BSAs where suitable habitat was present to ensure thorough coverage. The surveyors referred to *The Jepson Manual* (Baldwin et al. 2012) to key every plant taxon that was identifiable (typically flowering or fruiting) down to the taxonomic level to determine rarity and listing status (Appendix A). The surveys were conducted at multiple times throughout the year to capture the appropriate bloom periods for all of the special-status plant species that have potential to occur in the BSAs.

A handheld GPS unit capable of sub-meter accuracy was used to record locations of any sensitive resources and other potential constraints to the Templeton Route Alternatives. A compiled list of all plant species observed during the surveys is included as Appendix A, and a compiled list of all wildlife species observed during the surveys is included as Appendix B.

Potentially jurisdictional waters of the state and U.S. were preliminarily mapped during the June 2018 field survey. Hydrological conditions such as presence of hydrophytic vegetation, ordinary high-water marks, and/or defined bed and banks were investigated to determine what features could be potentially jurisdictional under USACE, CDFW, and/or RWQCB. A formal jurisdictional delineation report has not been prepared as part of this study. Refer to Section 4.3.1, Jurisdictional Waters, below, for additional detail regarding potentially jurisdictional wetlands and other waters within the BSAs.

Biologists also conducted a California red-legged frog site assessment during the June 2018 field survey to determine locality records and potential California red-legged frog habitat within the BSAs. The biologists generally followed USFWS's *Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog* (USFWS 2005) with the exception that the survey area was limited to the extent of the BSAs instead of surveying out to 1 mile from the BSAs. Biologists queried the CNDDB for all reported localities within the vicinity of the BSAs, reviewed existing literature and biological reports, and reviewed aerial imagery within the BSAs to assess suitable upland and aquatic habitat areas. Biologists then conducted field surveys to map and characterize all accessible aquatic habitats within the BSAs. Aquatic habitats were characterized based on the type of water feature (e.g., pond versus stream, pool versus riffle, ephemeral versus permanent), vegetation, water depth, bank characteristics and depth, substrate, and presence of aquatic predators (e.g., bullfrogs or centrarchid fishes). USFWS habitat site assessment data sheets were filled out for each aquatic habitat area that was surveyed and photographs were taken to document the habitat conditions. Aquatic features included in the California red-legged frog site assessment data sheets are included in Appendix G.

In addition, biologists conducted an early evaluation survey as defined by the USFWS *San Joaquin Kit Fox Survey Protocol for the Northern Range* (USFWS 1999). Biologists examined vegetation communities and potential suitable natal and non-natal dens in the BSAs. Methodologies included walking meandering transects identifying suitable prey base, assessing burrows for den characteristics (e.g., "keyhole" shape

entrance, long soil apron from the entrance), and mapping burrows with entrances 4 inches in diameter or larger. Refer to Section 4.4, Sensitive Species, for a detailed discussion.

3.5 NOMENCLATURE CONVENTIONS

Vegetation alliance nomenclature in this report follows *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986). Taxonomic conventions follow *The Jepson Manual: Vascular Plants of California* (Baldwin et al. 2012) for plants, the American Ornithologists' Union (AOU) *Checklist of North and Middle American Birds* (Chesser et al. 2018) for birds, a *Complete List of Amphibian, Reptile, Bird and Mammal Species in California* (CDFW 2018a) for other vertebrate wildlife, and the *Special Animals List* (CDFW 2018e) for invertebrates.

4 EXISTING CONDITIONS

The Templeton Route Alternatives' BSAs are located within the city of Paso Robles as they approach Paso Robles Substation, and approximately 1.5 miles northeast of the community of Templeton in unincorporated San Luis Obispo County as they approach Templeton Substation. Topography within the BSAs ranges from generally flat (<5 percent) to steeper slopes (30 to 90 percent) along the Salinas River, with elevation between approximately 700 and 950 feet along the Paso Robles-Templeton Existing 70 kV Route Alternative; to gently sloping hills (0 to 30 percent) with elevation between approximately 700 and 1,200 feet along the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative.

San Luis Obispo County has a Mediterranean climate with warm to hot, dry summers and mild to cool, wet winters. The coastal climate is generally mild with average temperatures ranging from 45 to 70 degrees Fahrenheit (°F). Inland temperatures are much more variable, with average temperatures ranging from 35 to 93°F. Precipitation in the region also varies spatially and temporally with increasing precipitation typically occurring near the coast. Average annual rainfall in the vicinity of the BSAs is 15.2 inches with approximately 90% of the rain falling between October and April. Average monthly rainfall in the summer months is significantly lower than the winter months, averaging only about 0.2 inch per month between May and September. The temperature and precipitation data are based on Monthly Climate Normals data published by NOAA from the Paso Robles, California, climate station (COOP:046730) for the period between 1981 and 2000 (NOAA 2018).

4.1 SOILS

Soil type descriptions were queried using Official Soil Series Descriptions. Site-specific soil data were queried using the USDA Web Soil Survey database (USDA NRCS 2018c). Hydric ratings were determined using the Hydric Soils of the U.S. List (USDA NRCS 2018a). Soil types within the BSAs are described below, summarized in Table 1, and depicted in Appendix F.

Arbuckle soils are very deep, well-drained soils that are formed in alluvial materials from mainly conglomerate and metasedimentary rocks. Arbuckle soils occur on low terraces with slopes of 0 to 75 percent at elevations of 88 to 2,001 feet. They typically occur in dry, subhumid, mesothermal climates with hot dry summers and cool moist winters. Vegetation communities on these soils are mainly annual grasses and forbs either alone or as an understory of blue oak trees (*Quercus douglasii*). The soil is used for dryland and irrigated orchards, irrigated row and field crops, dry farmed grain, and rangeland grazing (NRCS 2018b).

Soil Type	Presence within the Paso Robles- Templeton Existing 70 kV Route Alternative BSA	Presence within the Paso Robles- Templeton South River Route Alternative BSA	Presence within the Paso Robles- Templeton Creston Route Alternative BSA
Arbuckle fine sandy loam, 0 to 2 percent slopes	✓	✓	✓
Arbuckle-Positas complex, 9 to 15 percent slopes		✓	✓
Arbuckle-Positas complex, 15 to 30 percent slopes	✓	✓	✓
Arbuckle-Positas complex, 30 to 50 percent slopes	✓	✓	✓
Arbuckle-Positas complex, 50 to 75 percent slopes	✓	✓	✓
Arbuckle-San Ysidro complex, 2 to 9 percent slopes (hydric)	1	✓	✓
Gazos shaly clay loam, 9 to 30 percent slopes		✓	
Linne-Calodo complex, 9 to 30 percent slopes	✓	✓	✓
Linne-Calodo complex, 50 to 75 percent slopes	✓		
Linne-Diablo complex, 9 to 15 percent slopes		✓	✓
Lockwood shaly loam, 2 to 9 percent slopes	✓	✓	✓
Lockwood-Concepcion complex, 9 to 15 percent slopes	✓	✓	✓
Metz loamy sand, 0 to 5 percent slopes (hydric)	✓		
Mocho clay loam, 0 to 2 percent slopes, MLRA 14 (hydric)	✓		
Nacimiento-Los Osos complex, 9 to 30 percent slopes		✓	✓
Pico fine sandy loam, 0 to 2 percent slopes	✓	✓	✓
Pico fine sandy loam, 2 to 9 percent slopes	✓	✓	✓
Ricon clay loam, 2 to 9 percent slopes, MLRA 14			✓
Sorrento clay loam, 0 to 2 percent slopes, MLRA 14	✓		
Still clay loam, 2 to 9 percent slopes	✓	\checkmark	\checkmark
Xerofluvents-Riverwash association (hydric)	\checkmark		

Table 1. Soil Types within the BSAs

Concepcion soils consist of deep, moderately well-drained soils that formed in weakly consolidated stratified alluvium or wind-deposited sandy material. These soils are located on nearly level to steep terraces with slopes of 0 to 50 percent at elevation of 40 to 200 feet adjacent to and within 1 to 2 miles of the Pacific Ocean (NRCS 2018b).

Diablo soils are typically well-drained soils that formed from weathered shale, sandstone, and consolidated sediments with minor areas of tuffaceous material. This soil type typically occurs on rolling to steep uplands with slopes 5 to 50 percent at elevations of 25 to 3,000 feet. Vegetation communities typically occurring on this soil type are annual grasses and forbs. The soil is most commonly used for grazing and for production of dry farmed grain, mainly barley (NRCS 2018b).

Gazos soils consist of moderately deep to bedrock, well-drained soils that formed in material weathered from sandstone and shale. This soil occurs on hills and has slopes of 9 to 75 percent at elevations of 50 to

4,000 feet. These soils occur in subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with these soils are mostly annual grasses and forbs with some brush and a few oak trees, used mainly for livestock grazing and for growing small grain and hay (NRCS 2018b).

Linne-Calodo soils consist of moderately deep, well-drained soils that formed in material weathered from sandstone and shale. These soils occur on uplands at elevations of 100 to 2,200 feet and have slopes of 5 to 75 percent. These soils typically occur in dry, subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with this soil type are annual grasses and forbs, a few scattered oak, and some brush. These soil types are typically used for grain crops, related crops, and almonds (NRCS 2018b).

Lockwood soils consist of very deep, well-drained soils that formed in alluvial material from dominantly siliceous shales. These soils occur on alluvial fans and bench terraces with slopes of 0 to 15 percent at elevations of 100 to 2,000 feet. They are found in the valleys of the central and southern part of the coast range in California, particularly in Salinas River. Vegetation communities associated with this soil type are annual grasses and forbs, a few scattered oaks, and some brush. The soil is used for growing irrigated row crops, truck crops, alfalfa, and some orchards; and extensive areas are used for growing dryland grain and some as rangeland (NRCS 2018b).

Los Osos soils consist of moderately deep, well-drained soils that formed in material weathered from sandstone and shale. These soils occur on uplands with slopes of 5 to 75 percent at elevations of 100 to 3,500 feet. These soils typically occur in dry, subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with this soil type are mostly annual grasses and forbs with some perennial grasses, coastal sagebrush, and live oaks. The soil is typically used for rangeland grazing, but some areas are used for grain crops and sudangrass pasture (NRCS 2018b).

Metz soils are very deep, excessively drained soils that consist of alluvial material derived primarily from sedimentary rock and some other mixed rock material. This soil type typically occurs in floodplains and alluvial fans with slopes of 0 to 15 percent and at elevations of 25 to 2,500 feet. Vegetation communities associated with this soil type generally consist of willows, annual grasses, and forbs. Cultivation on this soil type is typically irrigated pasture, hay, truck crops, field crops, and fruit crops (NRCS 2018b).

Mocho soils are typically deep, well-drained soils that consist largely of alluvium materials derived from sandstone and shale rock. This soil type is found in alluvial fans that have slopes of 0 to 9 percent at elevations between 20 to 3,500 feet. Vegetation communities associated with this soil type are typically annual grasses and forbs. This soil type is often intensively used for grain crops, forage, field, and some fruit crops (NRCS 2018b).

Nacimiento soils consist of moderately deep, well-drained soils that formed in material weathered from calcareous shale and sandstone. These soils occur on rolling uplands with slopes of 9 to 75 percent at elevations of 50 to 4,800 feet. These soils typically occur in dry, subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with this soil type are annual grasses and forbs with coast live oaks (*Quercus agrifolia*) and other trees in some places. The soil is often used for rangeland grazing and dry farmed grain (NRCS 2018b).

Pico soils consist of deep, well-drained soils that form in alkaline, moderately coarse-textured alluvium derived mostly from sedimentary formations. These soils occur on floodplains and alluvial fans with slopes of 0 to 9 percent at elevations of 10 to 1,500 feet. These soils occur in subhumid, mesothermal climates with warm dry summers and cool moist winters. Vegetation communities associated with these soils are

annual grasses and forbs in uncultivated areas. The soil is used primarily for growing row crops, citrus, grain, and pasture, and there is increasing urban use (NRCS 2018b).

Positas soils consist of deep and very deep, moderately well-drained soils that formed in alluvial material from mixed rock sources. These soils typically occur on stream terraces at elevations of 200 to 1,600 feet and have slopes of 2 to 75 percent. These soils occur in dry subhumid, mesothermal climates with hot, dry summers and cool, moist winters. Vegetation communities on these soils are typically annual grasses, forbs, and scattered oaks. Many areas with Positas soils are primarily used for rangeland grazing, but some are also used for dryland grain crops and vineyards (NRCS 2018b).

Rincon soils consist of deep, well-drained soils that formed in alluvium from sedimentary rocks. These soils occur on old alluvial fans and both stream and marine terraces with slopes of 0 to 30 percent at elevation of 20 to 2,000 feet. These soils occur in subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with these soils are annual grasses and forbs. The soil is used primarily for irrigated citrus, deciduous fruits, row crops, and alfalfa, as well as some dry farming for grain and pasture (NRCS 2018b).

San Ysidro soils consist of deep, moderately well-drained soils that are formed in alluvium from sedimentary rocks. These soils occur on old, low terraces in elevations of less than 1,500 feet and have slopes of 0 to 9 percent. These soils occur in dry subhumid, mesothermal climates with hot, dry summers and cool, moist winters. Vegetation communities associated with these soils are typically annual grasses and forbs. These soils are typically used for growing dryland grains, dryland pasture, and shallow rooted row crops (NRCS 2018b).

Sorrento soils consist of very deep, well-drained soils that formed in alluvium mostly from sedimentary rocks. Sorrento soils are on alluvial fans and stabilized floodplains and have slopes of 0 to 15 percent at elevations of 25 to 2,100 feet. These soils occur in dry subhumid with moderately warm, dry summers and cool, moist winters. Vegetation communities associated with these soils are irrigated fruit, nut, field, forage, and truck crops, and some dry grain. Uncultivated areas are mostly annual grasses and forbs with sycamore along drainageways (NRCS 2018b).

Still soils consist of deep, well-drained soils that formed in alluvial material from sedimentary rocks on flood plains and alluvial fans. These soils occur on uplands at elevations of 600 to 2,000 feet and have slopes of 0 to 30 percent. These soils typically occur in dry, subhumid, mesothermal climates with warm, dry summers and cool, moist winters. Vegetation communities associated with this soil type are mainly annual grasses with scattered oaks. The soil is used for cultivated alfalfa, sugar beets, and dry farmed grain (NRCS 2018b).

Xerofluvents are somewhat excessively drained soils that occur in floodplains with 0 to 2 percent slopes at an elevation of 600 to 1,500 feet. These soils are often comprised of sand, stratified gravel, sandy loam, and gravelly loam materials, and are not considered prime farmland (NRCS 2018b).

Riverwash are soils that occur in river channels at slopes of 0 to 2 percent and are comprised entirely of sandy material. These soils occur at an elevation of 600 to 1,500 feet and are not considered prime farmland (NRCS 2018b).

4.2 HABITATS AND NATURAL COMMUNITIES

4.2.1 Critical Habitat

Federally designated steelhead critical habitat (Evolutionary Significant Unit [ESU] for South-Central California Coast steelhead in Salinas Hydrologic Unit 3309, Paso Robles Hydrologic Sub-area 330981) occurs along the Salinas River in the westernmost portion of the Paso Robles-Templeton Existing 70 kV Route Alternative (Figure 3). Two small patches of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA overlap the upper banks and floodplain of the Salinas River riparian corridor (Appendix E). While the Salinas River does not support surface flows year- round, precipitation during the winter and spring months likely provides adequate surface flows to fill the river and to provide suitable physical or biological features (i.e., freshwater migration corridor) for steelhead. Additional detail regarding steelhead and associated habitat is provided below in Section 4.4.2, Special-Status Animals.

There are no other federally designated critical habitat areas for special-status plants or animals within or immediately adjacent to the Templeton Route Alternatives' BSAs.

Vernal pool fairy shrimp critical habitat unit 29C is approximately 2.5 miles northeast from the closest point of the Paso Robles-Creston Route Alternative's BSA. Vernal pool fairy shrimp are known to currently occupy this region. Unit 29C contains the following habitat constituents required to support this species: mound and inter-mound topography within a matrix of surrounding upland habitat, which provides for cyst dispersal and adequate pool hydroperiods, and vernal pool wetland features within a matrix of upland habitat, which provide for food, shelter, hatching, growth, and reproduction (USFWS 2006). Portions of the BSAs for all the Templeton Route Alternatives contain preliminarily mapped seasonal wetlands with adjacent upland habitat that could support this species. Additional detail regarding vernal pool fairy shrimp and associated habitat is provided below in Section 4.4.2, Special-Status Animals.

4.2.2 Vegetation Communities

The landscape within the Templeton Route Alternatives' BSAs consists of agricultural, urban/developed, ruderal, nonnative grasslands, blue oak woodlands, valley oak woodland, central (Lucian) coastal scrub, coastal and valley freshwater marsh, and sandy wash. Of the vegetation communities present, three (blue oak woodland, sandy wash [Salinas River], and coastal and valley freshwater marsh) are considered sensitive communities under the City of El Paso de Robles General Plan (Rincon Consultants, Inc. 2003). Valley oak woodland, sandy wash [Salinas River], and coastal and valley freshwater marsh are also considered California Sensitive Natural Communities by CDFW. Appendix E illustrates the vegetation communities traversed by the BSAs. The approximate acres of vegetation communities occurring in each BSA are summarized below in Table 2. The following subsections describe vegetation communities that were observed in the BSAs.

Figure 3. Critical Habitat Map



Vegetation Communities	Paso Robles- Templeton Existing 70 kV Route Alternative BSA 		Paso Robles- Templeton Creston Route Alternative BSA (acres)	
Agricultural	32.2	18.3	36.7	
Urban/Developed	95.2	81.3	100.1	
Ruderal	18.8	16.4	13.8	
Nonnative Grassland	80.2	88.3	156.0	
Blue Oak Woodland	52.1	57.0	34.1	
Valley Oak Woodland	4.6	0	0	
Central (Lucian) Coastal Scrub	1.5	0	0	
Coastal and Valley Freshwater Marsh	0.3	3.7	1.2	
Sandy Wash	0.7	0	0	

Table 2. Vegetation Communities Observed within the BSAs

4.2.2.1 AGRICULTURAL

Agricultural habitat is identified by active cultivation and planting of crops in an area. Agricultural areas typically provide low habitat value for sensitive plants and wildlife species. The main form of agriculture in the Paso Robles-Templeton South River Route Alternative BSA and the Paso Robles-Templeton Creston Route Alternative BSA is grape vineyards, whereas the main form of agriculture in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA is cultivated forage crops.

4.2.2.2 URBAN/DEVELOPED

Urban/developed habitat is found in regularly and highly disturbed areas, including areas that have been developed and/or include landscaping such as trees, shrubs, ornamental plants, and lawns. Vegetation density, canopy cover, and species composition will vary based on the structure and composition of the developed area. Vegetation may include native or exotic species, or a combination of both. The urban/developed areas within the Templeton Route Alternatives' BSAs include the existing Paso Robles and Templeton substations, as well as recreational, commercial, and rural residential developments. Vegetation observed in these areas included manicured lawns and landscaped trees and shrubs.

4.2.2.3 RUDERAL

Ruderal habitat areas are often defined as occurring along road edges and other highly disturbed areas. Typically, species dominating ruderal habitat areas are able to quickly colonize disturbed areas due to their high rates of seed dispersal and fast growth (i.e., weedy species of plants). Ruderal areas are typically dominated by nonnative vegetation, but some native species can also occur. Ruderal habitat within the Templeton Route Alternatives' BSAs occurs primarily along roadsides; within rural and urban developments, abandoned fields, and livestock pastures; and adjacent to agricultural areas. Species observed in ruderal areas in the BSAs included, but were not limited to, nonnative annual grasses, poison hemlock (*Conium maculatum*), green amaranthus (*Amaranthus retroflexus*), mustard (*Brassica spp.*), and various thistles.

4.2.2.4 NONNATIVE GRASSLAND

Nonnative grasslands consist of dense to sparse cover of annual grasses generally less than 1 meter high and are dominated by nonnative grasses and forbs, including, but not limited to, soft chess (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), slender wild oats (*Avena barbata*), cheatgrass (*Bromus tectorum*), red brome (*Bromus madritensis*), red-stemmed filaree (*Erodium cicutarium*), and short-pod mustard (*Hirschfeldia incana*). Native species may include western ragweed (*Ambrosia psilostachya*), lupines (*Lupinus* spp.), and doveweed (*Croton setigerus*) (Holland 1986). Nonnative grassland within the Templeton Route Alternatives' BSAs occur primarily between rural single-family homes, in areas used for livestock grazing and ranching, and on parcels proposed for future development.

4.2.2.5 BLUE OAK WOODLAND

Blue oak woodlands are typically dominated by blue oak trees, yet often include other oak species as well as gray pine (*Pinus sabiana*). Blue oak woodlands range from open savannas to dense woodlands, and often contain an understory of grasses and herbs. This habitat type usually contains well-drained soils and occurs below 4,000 feet (Holland 1986). Blue oak woodland within the Templeton Route Alternatives' BSAs varied from open savannas in rural areas, to dense woodlands along riparian corridors and hilly (>30 percent) terrain. Other oak species observed within this community include coast live oak, California scrub oak (*Quercus berberidifolia*), and valley oak (*Quercus lobate*).

Heritage oak trees protected under the City of El Paso de Robles Oak Tree Preservation Ordinance were observed along South River Road where it overlaps with the Templeton Route Alternatives' BSAs. In addition, the Paso Robles-Templeton Creston Route Alternative BSA contains a LCSLO agricultural conservation easement for oak trees.

4.2.2.6 VALLEY OAK WOODLAND

Valley oak woodland is similar to blue oak woodland, forming in a grassy-understoried savanna, but is usually the only tree present. Other oak species such as blue oak and coast live oak are associated with this community, as well as understory vegetation such as California coffeeberry (*Rhamnus californica*) and poison-oak (*Toxicodendron diversilobum*). This habitat type occurs on deep, well-drained alluvial soils and occurs below 2,000 feet (Holland 1986). Valley oak woodland was observed along the southern portion of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. This area was fragmented and disturbed due to roadways, residential developments, and grazing.

4.2.2.7 CENTRAL (LUCIAN) COASTAL SCRUB

Central (Lucian) coastal scrub is dominated by shrubs generally growing 3 to 6 feet tall in dense stands. This community typically occurs on exposed, often south-facing slopes with shallow, rocky soils in San Luis Obispo and Santa Barbara Counties (Holland 1986). Central coastal scrub was observed only in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA on a steep slope along the eastern bank of the Salinas River.

4.2.2.8 COASTAL AND VALLEY FRESHWATER MARSH

Coastal and valley freshwater marsh is generally dominated by perennial, emergent monocots such as cattail (*Typha* sp.) and bulrush (*Scirpus* sp.) growing in closed canopies. These areas are subject to permanent freshwater flooding or prolonged saturation, which leads to an accumulation of deep, peaty soils. This vegetation community typically occurs along the upper portion of the Sacramento-San Joaquin River Delta as well as along the coast and in coastal valleys near river mouths, lakes, and springs (Holland 1986). The Paso Robles-Templeton Existing 70 kV Route Alternative BSA comprises a small area of coastal and valley freshwater marsh located along Spanish Camp Creek at the intersection of South River Road and Santa

Ysabel Avenue. In the Paso Robles-Templeton South River Route Alternative BSA, this community was observed along the Spanish Camp Creek for approximately 0.60 mile along the northeast side of South River Road. In the Paso Robles-Templeton Creston Route Alternative BSA, coastal and valley freshwater marsh was observed along the edges of the large freshwater pond located on the LCSLO conservation easement immediately south of Creston Road. Vegetation observed in coastal and valley freshwater marsh habitat in the BSAs primarily consisted of cattail (*T. latifolia*), spikerush (*Eleocharis sp.*), and bulrush.

4.2.2.9 SANDY WASH

Sandy washes are comprised of sand and gravel accumulation found in riverbeds and floodplains (Anderson et al. 1976). Sandy wash was observed only in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA in two small areas where the BSA overlaps in the Salinas River's floodplain.

4.3 DRAINAGES AND WATER FEATURES

The Templeton Route Alternatives' BSAs are located within the Paso Robles Creek-Salinas River watershed. The central drainage feature in this watershed is the Salinas River. The Salinas River flows north-northwest through the Salinas Valley, bisecting the Coast Ranges, before draining into the Pacific Ocean nearly 100 miles northwest of the BSAs.

The BSAs cross several other perennial and ephemeral drainage and wetland features that eventually flow into the Salinas River. The BSAs are located east of the Salinas River, with the Paso Robles-Templeton Existing 70 kV Route Alternative paralleling the river and briefly overlapping the river's floodplain in two areas. Refer to Appendix D for the Templeton Route Alternatives' water feature data mapped from the NWI (USFWS 2018b) and USGS National Hydrography Dataset (USGS 2018a); and to Appendix E for potentially jurisdictional waters of the state and U.S. that were mapped during the June 2018 field surveys. A more in-depth discussion of potentially jurisdictional waters within the Templeton Route Alternatives' BSAs is provided below.

4.3.1 Jurisdictional Waters

The Salinas River, Spanish Camp Creek, several unnamed natural drainages, and wetland features were identified within the Templeton Route Alternatives' BSAs. Based on the presence of hydrophytic vegetation, wetland hydrology, hydric soils, defined bed and banks, and/or a nexus to waters of the U.S., these features may be subject to USACE and CDFW jurisdiction (Appendix D). A formal jurisdictional delineation report has not been prepared for the Templeton Route Alternatives' analysis. The following sections describe jurisdictional waters that were preliminarily mapped in the BSAs during the general reconnaissance-level field surveys.

4.3.1.1 PASO ROBLES-TEMPLETON EXISTING 70 KV ROUTE ALTERNATIVE

The Paso Robles-Templeton Existing 70 kV Route Alternative parallels the eastern portion of the Salinas River, briefly encroaching within the riparian corridor in two locations along the southern portion of the alignment. The BSA is approximately 0.4 mile east of the river at its farthest distance. In addition, Spanish Camp Creek, five unnamed ephemeral drainages, and two seasonal wetland features are present within the BSA (Appendix E). The Salinas River and other ephemeral drainages observed in the BSA may be suitable migration corridors for dispersal of species between local areas and at larger scales between regions.

4.3.1.2 PASO ROBLES-TEMPLETON SOUTH RIVER ROUTE ALTERNATIVE

The Paso Robles-Templeton South River Route Alternative is located approximately 0.10 to 1.3 miles east of the Salinas River. The primary water feature in the BSA is a perennial drainage feature referred to as Spanish Camp Creek. This creek flows northwest for approximately 0.60 mile within the BSA, from

Spanish Camp Road to Santa Ysabel Avenue, and eventually drains into the Salinas River approximately 0.10 mile west of the BSA. Biologists identified two other unnamed ephemeral drainages features and one seasonal wetland located along the eastern portion of the BSA (Appendix E). Spanish Camp Creek and other ephemeral drainages observed in the BSA may provide suitable dispersal corridors for wildlife species traveling between local areas as well as between larger regions.

4.3.1.3 PASO ROBLES-TEMPLETON CRESTON ROUTE ALTERNATIVE

The Paso Robles-Templeton Creston Route Alternative is located approximately 0.25 to 2.25 miles east of the Salinas River. The primary water feature in the BSA is a large freshwater pond located on the LCSLO conservation easement immediately south of Creston Road. The freshwater pond consists of open water habitat and coastal and valley freshwater marsh, and drains generally west into Spanish Camp Creek. In addition, biologists identified the following potentially jurisdictional features in the BSA: four other unnamed ephemeral drainages, three seasonal wetlands, and one detention basin. The ephemeral drainage features may provide suitable dispersal corridors for wildlife species traveling between local areas as well as between larger regions.

4.4 SENSITIVE SPECIES

All sensitive species identified during the literature review were evaluated for their potential to occur within the Templeton Route Alternatives' BSAs. Biologists examined these records and made determinations during the June 2018 field surveys. All plants and wildlife encountered during the field surveys were recorded. Complete lists of plant and animal species observed are shown in Appendices A and B, respectively.

4.4.1 Special-Status Plants

Forty-five special-status plant species (CDFW 2018a and CNPS 2018) and one sensitive community (valley oak woodland) have occurrence records within the nine USGS 7.5-minute topographic quadrangles (USGS 2018b) at and surrounding the BSAs. Valley oak woodland records were limited to the USGS 7.5-minute Adelaida quadrangle, but a small area (less than 5 acres) was observed in the Existing 70 kV Route Alternative BSA in the USGS 7.5-minute Templeton quadrangle.

Three federal- and/or state-listed species—San Luis Obispo fountain thistle (*Cirsium fontinale var. obispoense*), spreading navarretia (*Navarretia fossalis*), and California seablite (*Suaeda californica*)—were identified in the records search; however, either the BSAs are located outside of their known range, suitable soil types were absent, or the species records were outdated, with no known occurrences in the region. These species were therefore determined absent from the BSAs. No other federal- or state-listed species were returned in the records search.

It was determined that 16 CNPS-listed species have the potential to occur or are likely to occur within the Templeton Route Alternatives' BSAs, although the likelihood of species occurrence varies among the Templeton Route Alternatives due to site-specific conditions. These species and their likelihood for occurrence is described in Table 3. Five additional CNPS-listed species were determined to be unlikely to occur in the BSAs: San Luis mariposa-lily (*Calochortus obispoensis*), San Luis Obispo sedge (*Carex obispoensis*), Brewer's spineflower (*Chorizanthe breweri*), Eastwood's larkspur (*Delphinium parryi ssp. Eastwoodiae*), and Jones' layia (*Layia jonesii*). Determinations were based on the absence of suitable habitat and features required to satisfy the life history requirements of the species (i.e., habitat associations and soil type). The remaining 24 CNPS-listed plants were determined to be absent from the BSAs because either suitable habitat does not exist, or the species is restricted to or known to be present only within a specific area outside of the BSAs. Species that were determined to be unlikely to occur or have no potential to occur were excluded from Table 3; however, a complete table with all species that were evaluated can be provided

Common Name Scientific Name	Status Federal / State / CRPR²	Habitat Associations ³	Likelihood of Occurrence within the Existing 70 kV Route Alternative BSA	Likelihood of Occurrence South River Route Alterr
Miles' milk-vetch* Astragalus didymocarpus var. milesianus	//CRPR 1B.2	Annual herb that occurs in grassy areas near the coast. Blooming period: March–June. Elevation: < 400 meters.	Likely to occur Grasslands in the BSA may provide suitable habitat for this species. Two CNDDB occurrences have been recorded (1936 and 1969) within the 9-quad database search, with the nearest approximately 5 miles southeast of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Likely to occur Grasslands in the BSA may pr habitat for this species. Two Cl occurrences have been record 1969) within the 9-quad databa with the nearest approximately southeast of the BSA. This spe observed in the BSA during su were conducted during the app bloom period.
La Panza mariposa lily	// CRPR 1B.3	Perennial bulbiferous herb that occurs in	Potential to occur	Potential to occur
Calochortus simulans		valley grassland, and foothill woodland communities. Associated with sandy (often granitic) soils. Blooming period: April–July. Elevation: 380–1,150 meters.	Nonnative grassland and blue oak woodlands in sandy soils within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Nonnative grassland and blue woodlands in sandy soils within may provide suitable habitat fo No CNDDB occurrences have recorded within 5 miles of the E species was not observed in th surveys that were conducted d appropriate bloom period.
dwarf calycadenia	// CRPR 1B.1	Annual herb that occurs in chaparral,	Potential to occur	Potential to occur
Calycadenia villosa		cismontane woodland, and valley and foothill grassland. Associated with dry, rocky hills and ridges. Blooming period: May–October. Elevation: 240– 1,350 meters	Nonnative grassland and blue oak woodlands within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Nonnative grassland and blue woodlands within the BSA may suitable habitat for this species occurrences have been record 5 miles of the BSA. This species observed in the BSA during su were conducted during the app bloom period.
Hardham's evening-primrose	//CRPR 1B.2	Annual herb that occurs in chaparral	Potential to occur	Potential to occur
Camissoniopsis hardhamiae		and cismontane woodland that is typically found in sandy soil, limestone, and disturbed oak woodland. Blooming period: March–May. Elevation: 140– 945 meters.	Blue oak woodland in sandy soils along the Salinas River may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Blue oak woodlands with sand the BSA may provide suitable I species. No CNDDB occurrence recorded within 5 miles of the B species was not observed in th surveys that were conducted d appropriate bloom period.
San Luis Obispo owl's-clover* Castilleja densiflora var. Obispoensis	// CRPR 1B.2	Annual herb that occurs in meadows, seeps, and valley and grassland. Sometimes serpentinite. Blooming period: March–June. Elevation: 10– 430 meters.	Likely to occur Wetland features, roadside drainages, and grasslands within the BSA may provide suitable habitat for this species. One CNDDB occurrence (2005) was recorded approximately 3.85 miles northeast of the BSA. This species was also observed along Buena Vista Drive, approximately 3 miles north of the BSA, during the wetland delineation for the proposed project (2016 and 2017). This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Likely to occur Spanish Camp Creek, nonnati and wetland features within the provide suitable habitat for this CNDDB occurrence (2005) wa approximately 3.85 miles north BSA. This species was also ob Buena Vista Drive, approximat north of the BSA, during the we delineation for the proposed pr and 2017). This species was n the BSA during surveys that we during the appropriate bloom p

e within the native BSA	Likelihood of Occurrence within the Creston Route Alternative BSA
rovide suitable NDDB led (1936 and ase search, / 5 miles ecies was not irveys that propriate	Likely to occur Grasslands in the BSA may provide suitable habitat for this species. Two CNDDB occurrences have been recorded (1936 and 1969) within the 9-quad database search, with the nearest approximately 5 miles southeast of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
oak n the BSA or this species. been BSA. This ne BSA during during the	Potential to occur Nonnative grassland and blue oak woodlands in sandy soils within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
oak y provide s. No CNDDB led within es was not irveys that propriate	Potential to occur Nonnative grassland and blue oak woodlands within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
dy soils within habitat for this ces have been BSA. This ne BSA during during the	Potential to occur Blue oak woodlands with sandy soils within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
ive grasslands e BSA may s species. One as recorded heast of the oserved along tely 3 miles etland roject (2016 not observed in rere conducted period.	Likely to occur Nonnative grasslands and wetland features within the BSA may provide suitable habitat for this species. One CNDDB occurrence (2005) was recorded approximately 3.85 miles northeast of the BSA. This species was also observed along Buena Vista Drive, approximately 3 miles north of the BSA, during the wetland delineation for the proposed project (2016 and 2017). This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.

Common Name Scientific Name	Status Federal / State / CRPR ²	Habitat Associations ³	Likelihood of Occurrence within the Existing 70 kV Route Alternative BSA	Likelihood of Occurrenc South River Route Alter
Lemmon's jewelflower* Caulanthus lemmonii	//CRPR 1B.2	Annual herb that occurs in grassland, chaparral, and scrub habitat. Blooming period: February–May. Elevation: 80– 1,580 meters.	Potential to occur Nonnative grassland within the BSA may provide suitable habitat. Two outdated CNDDB occurrences have been recorded approximately 2 miles northeast (1960) and 3 miles northwest (1957) of Paso Robles (exact location unknown). This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Nonnative grassland within the provide suitable habitat. Two of CNDDB occurrences have bee approximately 2 miles northea 3 miles northwest (1957) of Pa (exact location unknown). This not observed in the BSA durin were conducted during the app bloom period.
Straight-awned spineflower <i>Chorizanthe rectispina</i>	//CRPR 1B.3	Annual herb that occurs in chaparral, cismontane woodlands, and coastal scrub. Associated with sandy or gravelly soils. Blooming period is April–July. Elevation: 85–1035 meters	Potential to occur Nonnative grassland and oak woodlands in sandy/gravelly soils within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Nonnative grassland and blue woodlands in sandy soils within may provide suitable habitat for No CNDDB occurrences have recorded within 5 miles of the species was not observed in the surveys that were conducted of appropriate bloom period.
Yellow-flowered eriastrum Eriastrum luteum	//CRPR 1B.2	Annual herb that occurs in broadleafed upland forest, chaparral, and cismontane woodland on drying slopes. Associated with sandy or gravel soils. Blooming period: May–June. Elevation: < 1000 meters.	Potential to occur Oak woodlands with sandy/gravelly soil along the Salinas River may provide habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Oak woodlands with sandy so BSA may provide habitat for th CNDDB occurrences have bee within 5 miles of the BSA. This not observed in the BSA durin were conducted during the app bloom period.
Ojai fritillary Fritillaria ojaiensis	//CRPR 1B.2	Perennial bulbiferous herb that occurs in chaparral, yellow pine forest, and mixed evergreen forest. Associated with rocky slopes and river basins. Blooming period: February–May. Elevation: 225– 998 meters.	Potential to occur Rocky slopes and blue oak woodlands along the Salinas River may provide habitat. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	None No suitable habitat was obser BSA. No CNDDB occurrences recorded within 5 miles of the species was not observed in th surveys that were conducted of appropriate bloom period.
mesa horkelia* Horkelia cuneata var. puberula	//CRPR 1B.1	Perennial herb that occurs in coastal sage, chaparral, and cismontane woodland in sandy to gravelly soil. Blooming period is February–July. Elevation 70–810 meters.	Potential to occur. Oak woodlands in sandy soils along the Salinas River may provide suitable habitat for this species. Two outdated CNDDB occurrences have been recorded (1913) and (1956) within 2 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Oak woodlands in sandy soils BSA may provide suitable hab species. Two outdated CNDD have been recorded (1913) an within 2 miles of the BSA. This not observed in the BSA durin were conducted during the app bloom period.
Santa Lucia dwarf rush* Juncus luciensis	//CRPR 1B.2	Annual grass-like herb that grows in wet, sandy soils of seeps, meadows, vernal pools, streams, and roadsides. Blooming period: April–August. Elevation: 300–2040 meters.	Potential to occur Wetland features and roadside drainages within the BSA may provide suitable habitat for this species. One outdated CNDDB occurrence (1958) was recorded approximately 3.5 miles east of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Spanish Camp Creek, wetland roadside drainages within the provide habitat. One outdated occurrence (1958) was record approximately 1 mile northeas This species was not observed during surveys that were cond the appropriate bloom period.

e within the native BSA	Likelihood of Occurrence within the Creston Route Alternative BSA
e BSA may outdated en recorded st (1960) and aso Robles s species was g surveys that propriate	Potential to occur Nonnative grassland within the BSA may provide suitable habitat. Two outdated CNDDB occurrences have been recorded approximately 2 miles northeast (1960) and 3 miles northwest (1957) of Paso Robles (exact location unknown). This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Potential to occur
oak n the BSA or this species. been BSA. This ne BSA during luring the	Nonnative grassland and oak woodlands in sandy soils within the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
il within the his species. No en recorded s species was g surveys that propriate	Potential to occur Oak woodlands with sandy soil within the BSA may provide habitat for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	None
ved within the have been BSA. This ne BSA during Juring the	No suitable habitat was observed within the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Potential to occur
within the itat for this B occurrences id (1956) s species was g surveys that propriate	Oak woodlands in sandy soils within the BSA may provide suitable habitat for this species. Two outdated CNDDB occurrences have been recorded (1913) and (1956) within 2 miles of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Potential to occur
d features, and BSA may CNDDB ed t of the BSA. d in the BSA ucted during	Spanish Camp Creek, wetland features, and roadside drainages within the BSA may provide habitat. One outdated CNDDB occurrence (1958) was recorded approximately 0.7 mile southeast of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.

Common Name Scientific Name	Status Federal / State / CRPR ²	Habitat Associations ³	Likelihood of Occurrence within the Existing 70 kV Route Alternative BSA	Likelihood of Occurrence South River Route Altern
pale-yellow layia Layia heterotricha	//CRPR 1B.1	Annual herb that occurs in cismontane, pinyon, and juniper woodland; coastal scrub; wetlands and non-wetlands; and valley and foothill grassland. Associated with open clay or sandy soils, sometimes +/- alkaline soils. Blooming period: March–June. Elevation: 200– 1,800 meters.	Potential to occur Nonnative grassland with sandy soils and wetlands within the BSA may provide suitable habitat. No CNDDB occurrences have been recorded within the 9-quad database search. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Nonnative grassland with sand wetlands within the BSA may p suitable habitat. No CNDDB oc have been recorded within the database search. This species observed in the BSA during sur were conducted during the app bloom period.
woodland woollythreads*	//CRPR 1B.2	Annual herb that occurs often in	Potential to occur	Potential to occur
Monolopia gracilens		serpentine grassland, open chaparral, and oak woodland. Blooming period: February–July. Elevation: 100– 1,200 meters.	Nonnative grassland and blue oak woodlands may provide suitable habitat for this species. One outdated CNDDB occurrence (1957) was recorded approximately 2 miles northwest of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Nonnative grassland and blue woodlands may provide suitabl this species. One outdated CNI occurrence (1957) was recorde approximately 2 miles northwes This species was not observed during surveys that were condu- the appropriate bloom period.
shining navarretia* Navarretia nigelliformis ssp. radians	//CRPR 1B.2	Annual herb that occurs in cismontane woodland and valley and foothill grassland. Associated with vernal pools and clay depressions. Blooming period: April–July. Elevation: 76–1,000 meters.	Likely to occur Wetland features, and roadside drainages within the BSA may provide suitable habitat for this species. Four CNDDB occurrences have been recorded within 3 miles of the BSA between 1937 and 2014. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Likely to occur Spanish Camp Creek, wetland seasonal drainages within the E provide habitat for this species. CNDDB occurrences have bee within 3 miles of the BSA betwe 2014. This species was not obs BSA during surveys that were of during the appropriate bloom p
chaparral ragwort Senecio aphanactis	//CRPR 2B.2	Annual herb that occurs in foothill woodland, northern coastal scrub, coastal sage scrub. Alkaline flats, dry open rocky areas. Blooming period: January–May. Elevation: 10– 800 meters.	Potential to occur Grasslands and oak woodlands in the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within the 9-quad database search. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Potential to occur Grasslands and oak woodlands may provide suitable habitat for No CNDDB occurrences have a recorded within the 9-quad data This species was not observed during surveys that were condu- the appropriate bloom period.
most beautiful jewelflower* Streptanthus albidus ssp. peramoenus	//CRPR 1B.2	Annual herb that occurs in chaparral openings, cismontane woodland, and valley and foothill grassland. Associated with serpentine or metamorphic (Franciscan formation), rocky, generally barren slopes. Blooming period: March– October. Elevation: 95–1000 meters.	Potential to occur. Nonnative grassland and oak woodland within the BSA may provide habitat for this species. One outdated CNDDB occurrence (1956) was recorded in Graves stream within 5 miles southwest of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.	Unlikely to occur Nonnative grassland and oak w within the BSA may provide hal species; however, associated h soil types not observed in the B outdated CNDDB occurrence (recorded in Graves stream with southwest of the BSA. This spe observed in the BSA during sur were conducted during the app bloom period.

e within the native BSA	Likelihood of Occurrence within the Creston Route Alternative BSA
dy soils and	Potential to occur
provide ccurrences 9-quad s was not urveys that propriate	wetlands within the BSA may provide suitable habitat. No CNDDB occurrences have been recorded within the 9-quad database search. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Potential to occur
e oak ole habitat for NDDB led est of the BSA. d in the BSA lucted during	Nonnative grassland and blue oak woodlands may provide suitable habitat for this species. One outdated CNDDB occurrence (1957) was recorded approximately 2 miles northwest of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Likely to occur
d features, and BSA may s. Four en recorded veen 1937 and oserved in the conducted period.	Spanish Camp Creek, wetland features, and seasonal drainages within the BSA may provide habitat for this species. Four CNDDB occurrences have been recorded within 3 miles of the BSA between 1937 and 2014. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
	Potential to occur
ds in the BSA or this species. been tabase search. d in the BSA lucted during	Grasslands and oak woodlands in the BSA may provide suitable habitat for this species. No CNDDB occurrences have been recorded within the 9-quad database search. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.
woodlands abitat for this habitats and BSA. One (1956) was thin 5 miles becies was not urveys that propriate	Unlikely to occur Nonnative grassland and oak woodlands within the BSA may provide habitat for this species; however, associated habitats and soil types not observed in the BSA. One outdated CNDDB occurrence (1956) was recorded in Graves stream within 5 miles southwest of the BSA. This species was not observed in the BSA during surveys that were conducted during the appropriate bloom period.

Common Name	Status	Habitat Associations ³	Likelihood of Occurrence within the	Likelihood of Occurrence
Scientific Name	Federal / State / CRPR ²	Habitat Associations	Existing 70 kV Route Alternative BSA	South River Route Altern

1 List of plant species based on CNPS and CNDDB searches of USGS 7.5-minute quadrangles—Adelaida, York Mountain, Estrella, Paso Robles, Templeton, Creston, Morro Bay North, Atascadero, and Santa Margarita (USGS 2018b). ² Listing status based on CNDDB and CNPS data.

³ Habitat associations and blooming periods based on the Jepson Online Interchange for California Floristics (Queried in May/June 2016). *CNDDB occurrences recorded within 5 miles of the BSAs.

Status Codes

-- = No status

FE = Federally listed endangered, FT = Federally listed threatened,

FC = Federal candidate for listing

SE = California state-listed endangered

ST = California state-listed threatened

SCE = California candidate endangered

California Rare Plant Ranking:

1A = Plants presumed extirpated in California and either rare or extinct elsewhere

1B = Plants rare, threatened, or endangered in California and elsewhere

2A = Plants presumed extirpated in California, but common elsewhere

2B = Plants rare, threatened, or endangered in California, but more common elsewhere

CRPR Threat Ranks:

0.1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

0.2 = Moderately threatened in California (20-80% of occurrences threatened / moderate degree and immediacy of threat)

0.3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat)

upon request. Special-status plant species occurrences recorded in the CNDDB (CDFW 2018c) are depicted in Figure 4.

No special-status plant species were observed in the Templeton Route Alternatives' BSAs during the 2018 and 2019 botanical surveys. The surveys were conducted at multiple times throughout the year to capture the appropriate bloom periods for all of the special-status plant species that have potential to occur in the BSAs. A complete list of plants identified during the surveys is in Appendix A.

4.4.2 Special-Status Animals

Twenty-seven special-status animal species (CDFW 2018c) have occurrence records within the nine USGS 7.5-minute topographic quadrangles (USGS 2018b) at and surrounding the BSAs. Two special-status animals—American badger (Taxidea taxus) and golden eagle (Aquila chrysaetos)—were observed during the June 2018 survey. The American badger was observed in the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs, and the golden eagle was observed in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. The desktop review, literature research, and field investigation concluded that 17 special-status wildlife species, eight of which are federal- and/or state-listed species or CDFW fully protected species, have potential to occur, are likely to occur, or to be present in the Templeton Route Alternatives' BSAs, although the likelihood of species occurrence varies among the Templeton Route Alternatives due to site-specific conditions. These species are discussed in the subsections and Table 4 presented below. In addition, two special-status animal species-Townsend's big-eared bat (Corvnorhinus townsendii) and least Bell's vireo (Vireo bellii *pusillus*)—were determined unlikely to occur in the BSAs. The remaining six wildlife species—coast range newt (Taricha torosa), lesser slender salamander (Batrachoseps minor), Morro shoulderband snail (Helminthoglypta walkeriana), tidewater goby (Eucyclogobius newberryi), western snowy plover (Charadrius alexandrinus nivosus), and foothill yellow-legged frog (Rana boylii)-were determined to be absent in all three Templeton Route Alternatives' BSAs based on the lack of suitable habitat or because the BSAs are located outside of the species' range. Species that were determined to be unlikely to occur or have no potential to occur were excluded from Table 4; however, a complete table with all species that were evaluated can be provided upon request.

Species that were determined to be present, are likely to occur, or have potential to occur within the BSAs are discussed below. Special-status wildlife species occurrences recorded in the CNDDB (CDFW 2018c) are depicted in Figure 5.

4.4.2.1 STEELHEAD – SOUTH-CENTRAL CALIFORNIA COAST DISTINCT POPULATION SEGMENT

As mentioned in Section 4.2.1, critical habitat for California Coast steelhead in Salinas Hydrologic Unit 3309, Paso Robles Hydrologic Sub-area 330981 occurs along the Salinas River in the westernmost portion of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA (Figure 3; Appendix E). No CNDDB occurrences have been recorded within 5 miles of the BSA; however, three older occurrences dating back from 1970 to 1988 were recorded in the Morro Bay North USGS 7.5-minute quadrangle. These occurrences are on the west side of the Santa Lucia Range and lack hydrological connectivity to aquatic features in the BSAs.

Habitat constituents that are required to support this species include: (1) freshwater spawning sites, (2) freshwater rearing sites, (3) freshwater migration corridors, and (4) estuarine areas. Two small patches of the Pasto Robles-Templeton Existing 70kV Route Alternative BSA encroach within the upper banks and floodplain of the Salinas River riparian corridor (Appendix E). The lack of surface flows during summer and fall months, as well as the silty and sandy substrate, make this portion of the Salinas River unsuitable for spawning or rearing habitat. Precipitation during the winter and spring months, however, likely provides




Common Name Scientific Name	Status Federal/ State/Other ²	Habitat Associations	Likelihood of Occurrence within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA	Likelihood of Occurrence within the Paso Robles-Templeton South River Route Alternative BSA	Likelihood of Occurrence within the Paso Robles-Templeton Creston Route Alternative BSA
FISH					
steelhead – south-central California coast distinct population segment Oncorhynchus mykiss irideus	FT//	Clear, cool water with abundant in-stream cover, well-vegetated stream margins, relatively stable water flow, and a 1:1 pool-to-riffle ratio.	Potential to occur The Salinas River provides a suitable freshwater migration corridor for steelhead. No CNDDB occurrences have been recorded within 5 miles of the BSA. Three CNDDB occurrences were recorded within the 9-quad database search between 1980 and 1997 in Chorro Creek and tributaries, Toro Creek, and Morro Creek; approximately 8, 10, and 12 miles southwest of the BSA, respectively. While these tributaries are known to provide suitable spawning and rearing habitat, they lack hydrological connectivity to the Salinas River and other aquatic features in the BSA.	None No suitable spawning, rearing, or migration habitat was observed within the BSA. Silty substrate and warm water temperatures make Spanish Camp Creek unsuitable for this species. No CNDDB occurrences have been recorded within 5 miles of the BSA. Three CNDDB occurrences were recorded within the 9- quad database search between 1980 and 1997 in Chorro Creek and tributaries, Toro Creek, and Morro Creek; approximately 8, 10, and 12 miles southwest of the BSA, respectively. While these tributaries are known to provide suitable spawning and rearing habitat, they lack hydrological connectivity to the Salinas River and other aquatic features in the BSA.	None No suitable spawning, rearing, or migration habitat was observed within the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA. Three CNDDB occurrences were recorded within the 9-quad database search between 1980 and 1997 in Chorro Creek and tributaries, Toro Creek, and Morro Creek; approximately 8, 10, and 12 miles southwest of the BSA, respectively. While these tributaries are known to provide suitable spawning and rearing habitat, they lack hydrological connectivity to the Salinas River and other aquatic features in the BSA.
INVERTEBRATES					
vernal pool fairy shrimp* Branchinecta lynchi	FT//	Vernal pool habitats including depressions in sandstone, to small swale, earth slump or basalt-flow depressions with a grassy or, occasionally, muddy bottom in grassland.	Likely to occur Suitable vernal pool habitat is present in the BSA and crossed by the alignment. Three recent CNDDB occurrences between 2001 and 2005 were recorded within 5 miles of the BSA, approximately 3 and 4 miles northeast, and 0.5 mile northwest, of Paso Robles Substation.	Likely to occur Suitable vernal pool habitat is present in the BSA and crossed by the alignment. Three recent CNDDB occurrences between 2001 and 2005 were recorded within 5 miles of the BSA, approximately 3 and 4 miles northeast, and 0.5 mile northwest, of Paso Robles Substation.	Likely to occur Suitable vernal pool habitat is present in the BSA and crossed by the alignment. Three recent CNDDB occurrences between 2001 and 2005 were recorded within 5 miles of the BSA, approximately 3 and 4 miles northeast, and 0.5 mile northwest, of Paso Robles Substation.
AMPHIBIANS					
California red-legged frog* Rana draytonii	FT//SSC	Semi-permanent or permanent water at least 0.5 meter deep, bordered by emergent or riparian vegetation and upland grassland, forest, or scrub habitats for refugia and dispersal.	Likely to occur Spanish Camp Creek and coastal and valley freshwater marsh may provide suitable aquatic breeding and aquatic non-breeding habitat. Two recent CNDDB occurrences were recorded within 2 miles of the BSA (2003 in Paso Robles Creek, and 2016 in and Graves Creek).	Likely to occur Spanish Camp Creek, freshwater marsh, and seasonal wetlands provide suitable aquatic breeding and aquatic non- breeding habitat. Two recent CNDDB occurrences were recorded within 2 miles of the BSA (2003 in Paso Robles Creek, and 2016 in and Graves Creek).	Likely to occur Wetland features observed throughout the BSA provide suitable aquatic breeding and aquatic non-breeding habitat. Two recent CNDDB occurrences were recorded within 2 miles of the BSA (2003 in Paso Robles Creek, and 2016 in Graves Creek).
western spadefoot * Spea hammondii	//SSC	Grasslands and valley foothill woodlands, with vernal pools that are used for breeding. Outside of breeding season, they burrow in upland areas.	Likely to occur Suitable breeding and upland habitat is present in the BSA. Three recent CNDDB occurrences have been recorded within 5 miles of the BSA.	Likely to occur Suitable breeding and upland habitat is present in the BSA. Three recent CNDDB occurrences have been recorded within 5 miles of the BSA.	Likely to occur Suitable breeding and upland habitat is present in the BSA. Three recent CNDDB occurrences have been recorded within 5 miles of the BSA.

Common Name Scientific Name	Status Federal/ State/Other ²	Habitat Associations	Likelihood of Occurrence within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA	Likelihood of Occurrence within the Paso Robles-Templeton South River Route Alternative BSA	Likelihood of Occurrence within the Paso Robles-Templeton Creston Route Alternative BSA
REPTILES					
northern California legless lizard* Anniella pulchra	//SSC	Dune scrub, coastal scrub, chaparral, pine-oak woodland, oak woodland, and riparian woodland. Requires loose soil for burrowing, moisture, warmth, and plant cover. Burrows in washes, dune sand, loose soil near bases of slopes, and near permanent or temporary streams.	Likely to occur Suitable habitat is present along the Salinas River riparian corridor. One CNDDB occurrence (2007) was recorded within 5 miles of the BSA.	Likely to occur Suitable habitat is present along Spanish Camp Creek. One CNDDB occurrence (2007) was recorded within 5 miles of the BSA.	Potential to occur Oak woodlands with some leafy debris are present within the BSA; however, conditions are drier than that typically associated with this species. One CNDDB occurrence (2007) was recorded within 5 miles of the BSA.
western pond turtle* Emys marmorata	//SSC	Flowing waters with basking sites, generally with aquatic vegetation.	Likely to occur Spanish Camp Creek may provide suitable habitat, including areas where the BSA extends into the Salinas River riparian zone. Two CNDDB occurrences were recorded within 5 miles of the BSA. The closest record occurred along the Salinas River in 2006 approximately 0.30 mile west of Paso Robles Substation.	Likely to occur Suitable habitat is present along Spanish Camp Creek. Two CNDDB occurrences were recorded within 5 miles of the BSA. The closest record occurred along the Salinas River in 2006 approximately 0.30 mile west of Paso Robles Substation.	Likely to occur The LCSLO freshwater pond may provide suitable aquatic habitat for this species. Two CNDDB occurrences were recorded within 5 miles of the BSA. The closest record occurred along the Salinas River in 2006 approximately 0.30 mile west of Paso Robles Substation.
San Joaquin whipsnake Coluber flagellum ruddocki (Masticophis flagellum ruddocki)	//SSC	Chaparral and scrub habitats but will also use adjacent grassland, oak savanna and woodland habitats; will inhabit abundant rodent burrows.	Potential to occur Grasslands and oak woodlands in the BSA may provide suitable habitat for this species. No CNDDB occurrences were recorded within 5 miles of the project.	Potential to occur Grasslands and oak woodlands in the BSA may provide suitable habitat for this species. No CNDDB occurrences were recorded within 5 miles of the project.	Potential to occur Grasslands and oak woodlands in the BSA may provide suitable habitat for this species. No CNDDB occurrences were recorded within 5 miles of the project.
coast horned lizard Phrynosoma blainvillii	/-/SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes; open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	Likely to occur Salinas River riparian corridor and other ephemeral drainages in the BSA may provide suitable habitat for this species. Biologists observed one individual approximately 6.5 miles northeast of the BSA during 2016 field survey. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Likely to occur Ephemeral drainages observed throughout the BSA may provide suitable habitat for this species. Biologists observed one individual approximately 5.75 miles northeast of the BSA during 2016 field survey. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Likely to occur Ephemeral drainages observed throughout the BSA may provide suitable habitat for this species. Biologists observed one individual approximately 5 miles northeast of the BSA during 2016 field survey. No CNDDB occurrences have been recorded within 5 miles of the BSA.
BIRDS					
tricolored blackbird* Agelaius tricolor	/ST/SSC; MBTA	(Nesting colony) Breeds near fresh water, preferably in emergent wetland with tall dense cattails or tules. Feeds in croplands and grasslands.	Potential to occur Suitable foraging habitat is present within grasslands, pastures, and agricultural habitat occurring throughout the BSA. Two CNDDB occurrences (1999 and 2008) have been recorded within 5 miles of the BSA.	Potential to occur Suitable foraging habitat is present within grasslands, pastures, and agricultural habitat occurring throughout the BSA. Two CNDDB occurrences (1999 and 2008) have been recorded within 5 miles of the BSA.	Likely to occur Suitable nesting and foraging habitat is present at and adjacent to the LCSLO freshwater pond. Two CNDDB occurrences (1999 and 2008) have been recorded within 5 miles of the BSA.
grasshopper sparrow Ammodramus savannarum	//SSC; MBTA	Summer resident and breeder in foothills and lowlands west of the Cascade-Sierra Nevada crest. Occurs in dry, dense grasslands and prairies with patches of bare ground.	Potential to occur Suitable nesting and foraging habitat is present within the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Potential to occur Suitable nesting and foraging habitat is present within the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Potential to occur Suitable nesting and foraging habitat is present within the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA.

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golden eagle* Aquila chrysaetos	//FP; MBTA; BGEPA	Broad expanses of open country are required for foraging while nesting primarily occurs in rugged mountainous areas with large trees or on cliffs.	Present Suitable nesting and foraging habitat is present within and adjacent to the BSA along Salinas River. One CNDDB occurrence (2006) of an active nest was recorded approximately 4 miles northeast of the BSA, on the west side of Huerhuero Creek, between Golden Hill Road and Airport Road. Biologists observed one individual within the BSA and two nests known to be active in previous seasons approximately 200 feet and 2.4 miles east of the BSA during 2018 field surveys.	Likely to occur Suitable nesting and foraging habitat is present within and adjacent to the BSA along Salinas River. One CNDDB occurrence (2006) of an active nest 4 miles northeast of the BSA, on the west side of Huerhuero Creek, between Golden Hill Road and Airport Road. Biologists observed two nests known to be active in previous seasons approximately 0.2 and 0.3 mile southwest of the BSA during 2018 field surveys.	Likely to occur Suitable nesting and foraging habitat is present within and adjacent to the BSA along Salinas River. One CNDDB occurrence (2006) of an active nest was recorded approximately 4 miles northeast of the BSA, on the west side of Huerhuero Creek, between Golden Hill Road and Airport Road. Biologists observed two nests known to be active in previous seasons approximately 1 mile southwest of the BSA during 2018 field surveys.
white-tailed kite Elanus leucurus	//FP; MBTA	Yearlong resident in coastal and valley lowlands; rarely away from agricultural areas. Inhabits herbaceous and open staged moist habitats mostly in cismontane areas.	Likely to occur Suitable nesting and foraging habitat is present in the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2007 and 2018 within 2 miles of the BSA (eBird 2018).	Likely to occur Suitable nesting and foraging habitat is present in the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2007 and 2018 within 2 miles of the BSA (eBird 2018).	Likely to occur Suitable nesting and foraging habitat is present in the BSA. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2007 and 2018 within 2 miles of the BSA (eBird 2018).
bald eagle <i>Haliaeetus leucocephalus</i>	DL/SE/FP; MBTA; BGEPA	Roosts communally in winter in dense, sheltered, remote conifer stands. Nests in large, old growth, or dominant live trees, often close to lakes and large rivers.	Potential to occur No suitable nesting and foraging habitat was observed in the BSA, but this species may occur based on nearby sightings. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2006 and 2018, with the nearest observed in 2015 at Lawrence Moore Park (eBird 2018).	Potential to occur No suitable nesting and foraging habitat was observed in the BSA, but this species may occur based on nearby sightings. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2006 and 2018, with the nearest observed in 2015 at Lawrence Moore Park (eBird 2018).	Potential to occur No suitable nesting and foraging habitat was observed in the BSA, but this species may occur based on nearby sightings. No CNDDB occurrences have been recorded within 5 miles of the BSA; however, multiple sightings have been recorded between 2006 and 2018, with the nearest observed in 2015 at Lawrence Moore Park (eBird 2018).
purple martin Progne subis	//SSC; MBTA	Uncommon to rare, local summer resident in a variety of wooded, low-elevation habitats. Forages over riparian areas, forest, and woodland; found in a variety of open habitats in migration.	Potential to occur Suitable nesting and foraging habitat is present within the BSA. One CNDDB occurrence (2006) was recorded just outside the 5-mile buffer around the BSA.	Potential to occur Suitable nesting and foraging habitat was observed within the BSA. One CNDDB present (2006) was recorded just outside the 5 miles of the BSA.	Potential to occur Suitable nesting and foraging habitat is present within the BSA. One CNDDB occurrence (2006) was recorded just outside the 5-mile buffer around of the BSA.
least Bell's vireo* Vireo bellii pusillus	FE/SE/MBTA	Summer resident of cottonwood-willow forest, oak woodland, shrubby thickets, and dry washes with willow thickets at the edges. Requires dense groundcover (2– 3 feet) for nesting and stratified canopy for foraging.	Unlikely to occur Salinas River may provide suitable nesting and foraging habitat for this species; however, the two areas where the BSA overlaps in the floodplain lacks the riparian strata composition required for nesting. These areas may provide marginally suitable foraging habitat. The closest and most recent (2005) CNDDB occurrence documented a breeding pair approximately 4 miles north-northwest of the BSA.	None No suitable nesting or foraging habitat was observed within the BSA. Although the BSA is within the species' summer range no suitable riparian vegetation is present within the BSA. The closest and most recent (2005) CNDDB occurrence was recorded approximately 4 miles north-northwest of the BSA.	None No suitable nesting or foraging habitat was observed within the BSA. Although the BSA is within the species' summer range, no suitable riparian vegetation is present within the BSA. The closest and most recent (2005) CNDDB occurrence was recorded approximately 4 miles north-northwest of the BSA.

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MAMMALS					
pallid bat Antrozous pallidus	/-/SSC	True desert areas, moister oak woodlands, and redwood forests of coastal regions. At lower elevations, highly associated with oak woodlands and oak savannah.	Potential to occur Potential day and night roost sites were observed within the BSA. No CNDDB occurrences were recorded within 5 miles of the project.	Potential to occur Potential day and night roost sites were observed within the BSA. No CNDDB occurrences were recorded within 5 miles of the project.	Potential to occur Potential day and night roost sites were observed within the BSA. No CNDDB occurrences were recorded within 5 miles of the project.
Townsend's big-eared bat Corynorhinus townsendii	/-/SSC	A colonial species found in all but subalpine and alpine habitats. Generally viewed as cave-dwelling species, but also found in man-made structures (e.g., mines, tunnels, buildings) for roosting. May use separate sites for night, day, hibernation, or maternity roosts.	Unlikely to occur Buildings and other man-made structures are present within the BSA; however, this species is likely to be found in buildings along the coast and are highly sensitive to human disturbance of roosting sites (Pierson et al. 1998). No CNDDB occurrences have been recorded within 5 miles of the BSA.	Unlikely to occur Buildings and other man-made structures are present within the BSA; however, this species is likely to be found in buildings along the coast and are highly sensitive to human disturbance of roosting sites (Pierson et al. 1998). No CNDDB occurrences have been recorded within 5 miles of the BSA.	Unlikely to occur Buildings and other man-made structures are present within the BSA; however, this species is likely to be found in buildings along the coast and are highly sensitive to human disturbance of roosting sites (Pierson et al. 1998). No CNDDB occurrences have been recorded within 5 miles of the BSA.
Monterey dusky-footed woodrat Neotoma macrotis luciana	/-/SSC	Dense chaparral, coastal sage-scrub, pinyon-juniper, oak and riparian woodlands, and mixed coniferous forest habitat with well-developed understory in which to make its nest.	Potential to occur Oak and riparian woodlands with well- developed understory along the Salinas River provide suitable habitat. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Potential to occur Oak woodlands within and adjacent to ephemeral drainages may provide suitable habitat. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Potential to occur Oak woodlands within and adjacent to ephemeral drainages may provide suitable habitat. No CNDDB occurrences have been recorded within 5 miles of the BSA.
Salinas pocket mouse* Perognathus inornatus psammophilus	//SSC	Habitat relations are not well known, but literature reported habitat for <i>P. inornatus</i> on the Carrizo Plain (previously considered to include <i>psammophilus</i>) as sandy loam flats dominated by herbs and grasses.	Potential to occur Nonnative grassland habitat with friable soils along the Salinas River may provide suitable habitat. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Unlikely to occur Nonnative grassland is present within the BSA; however, no friable soils were observed during the 2018 field survey period. No CNDDB occurrences have been recorded within 5 miles of the BSA.	Unlikely to occur Nonnative grassland is present within the BSA; however, no friable soils were observed during the 2018 field survey period. No CNDDB occurrences have been recorded within 5 miles of the BSA.
American badger* Taxidea taxus	/-/SSC	Open grassland, chaparral, and oak woodland with friable soils. Needs sufficient food and open, uncultivated ground.	Present One American badger carcass was observed on El Pomar Drive during the 2018 field survey period located immediately east of the BSA, across from Templeton Substation. Nonnative grasslands and oak woodlands are present within the BSA. One CNDDB occurrence (2003) was recorded within 5 miles of the BSA.	Present One American badger carcass was observed within the BSA on El Pomar Drive across from Templeton Substation during the 2018 field survey period. Nonnative grasslands and oak woodlands are present within the BSA. One CNDDB occurrence (2003) was recorded within 5 miles of the BSA.	Present One American badger carcass was observed within the BSA on El Pomar Drive across from Templeton Substation during the 2018 field survey period. Nonnative grasslands and oak woodlands are present within the BSA. One CNDDB occurrence (2003) was recorded within 5 miles of the BSA.

Common Name Scientific Name	Status Federal/ State/Other ²	Habitat Associations	Likelihood of Occurrence within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA	Likelihood of Occur the Paso Robles-Ten River Route Alterr
San Joaquin kit fox* Vulpes macrotis mutica	FE/ST/	Open, level areas with loose-textured soils supporting scattered, shrubby vegetation with little human disturbance constitute suitable habitat for kit foxes. Some agricultural areas support these foxes.	Potential to occur Nonnative grassland within low topography, burrows of sufficient size (e.g., suitable as potential dens), and a suitable prey base was observed during the 2018 field survey period. Two CNDDB occurrences (1990 and 1991) were recorded within 5 miles of the BSA. In addition, positive scat occurrences were documented in 2014 near Whitley Gardens, approximately 10 miles northeast of Paso Robles Substation (Wampler 2014).	Potential to occur Nonnative grassland withit topography, burrows of su (e.g., suitable as potential suitable prey base was ob the 2018 field survey perio occurrences (1990 and 19 recorded within 5 miles of addition, positive scat occu documented in 2014 near Gardens, approximately 1 northeast of Paso Robles (Wampler 2014).

¹List of animal species based on CNDDB searches of USGS 7.5-minute quadrangles – Adelaida, York Mountain, Estrella, Paso Robles, Templeton, Creston, Morro Bay North, Atascadero, and Santa Margarita, Templeton, Creston, Shedd Canyon, Shandon, Cholame Hills, Ranchito Canyon, San Miguel. ²Listing status based on CDFW CNDDB State & Federally Listed Endangered & Threatened Animals of California List, April 2018.

*CNDDB occurrences recorded within 5 miles of the BSAs.

Status Codes -- = No Status

- FE = Federally Listed Endangered
- FT = Federally Listed Threatened
- FC = Federal Candidate for Listing SE = California State-Listed Endangered

ST = California State-Listed Threatened

SCE = California Candidate Endangered

DL = Delisted

FP = CDFW Fully Protected

SSC = CDFW Species of Special Concern

rrence within npleton South native BSA	Likelihood of Occurrence within the Paso Robles-Templeton Creston Route Alternative BSA
	Potential to occur
in low ufficient size al dens), and a bserved during iod. Two CNDDB 991) were f the BSA. In currences were r Whitley 10 miles s Substation	Nonnative grassland within low topography, burrows of sufficient size (e.g., suitable as potential dens), and a suitable prey base was observed during the 2018 field survey period. Two CNDDB occurrences (1990 and 1991) were recorded within 5 miles of the BSA. In addition, positive scat occurrences were documented in 2014 near Whitley Gardens, approximately 10 miles northeast of Paso Robles Substation (Wampler 2014).

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adequate surface flows to fill the river and to provide a suitable freshwater migration corridor this species to migrate to suitable upstream tributaries to spawn. Therefore, migrating adult steelhead and smolts have the potential to temporarily occur in the Salinas River within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. Both the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs are outside the critical habitat for California Coast steelhead, and no suitable habitat for this species exists in these BSAs.

4.4.2.2 VERNAL POOL FAIRY SHRIMP

No critical habitat for vernal pool fairy shrimp (*Branchinecta lynchi*) occurs in the Templeton Route Alternatives' BSAs. The nearest critical habitat—Unit 29C, Central Coast Range Region—is located approximately 2.5 miles from the northeastern portion of the Paso Robles-Templeton Creston Route Alternative BSA. Three CNDDB occurrences were recorded between 2001 and 2005 within 5 miles of the BSAs. The nearest and most recent occurrence was recorded approximately 0.50 mile west of Paso Robles Substation near the intersection of Niblick Road and Spring Street in small depressions and pools along a gravel access road.

Habitat constituents that are required to support this species include mound and inter-mound topography or vernal pool wetland features within a matrix of upland habitat (CDFW 2018f). Suitable habitat observed within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA includes: (1) a manmade depression subject to seasonal ponding located approximately 180 feet west of Lake Ysabel Road; and (2) a large low-lying seasonal wetland located immediately east of Vaquero Drive. Suitable habitat was observed in the Paso Robles-Templeton South River Route Alternative BSA in a seasonal wetland located approximately 650 feet southwest of the intersection of South River Road and Lothar Lane. Suitable habitat observed within the Paso Robles-Templeton Creston Route Alternative BSA includes: (1) a seasonal wetland located approximately 100 feet northeast of the intersection of Beechwood Drive and Creston Road; (2) a drainage swale with surrounding seasonal wetlands located immediately north of Creston Road; and (3) seasonal pond located along the easternmost portion of the BSA, between Creston Road and Hanging Tree Road. There are no recorded occurrences of vernal pool fairy shrimp in or around any of these features. Because of the presence of suitable habitat and proximity to documented occurrences within 5 miles of the BSAs, vernal pool fairy shrimp are likely to occur in the BSAs.

4.4.2.3 CALIFORNIA RED-LEGGED FROG

Two California red-legged frog (*Rana draytonii*) CNDDB occurrences (2003 and 2016) were recorded in Paso Robles and Graves creeks just southwest of the community of Templeton, approximately 2.5 and 4 miles south-southwest of the Templeton Route Alternatives' BSAs. Both Paso Robles and Graves creeks are tributaries to the Salinas River. Suitable aquatic breeding, aquatic non-breeding, and upland habitat was identified throughout the BSAs.

To determine the extent and quality of suitable red-legged frog habitat in the BSAs, a site assessment was conducted in June 2018. The site assessment followed the "*Revised Guidance on Site Assessment and Field Surveys for Red-legged Frogs* (Guidance)" issued by the USFWS with the exception that the survey area was limited to the extent of the BSAs instead of surveying out to 1 mile from the BSAs. Potential suitable breeding and non-breeding habitat was identified within the Templeton Route Alternatives' BSAs. These areas were surveyed, and observations recorded on assessment data sheets (Appendix G) with site identification numbers (e.g., California red-legged frog [CRLF] Site #) shown on Appendix E, Biological Resource Map, for each route alternative.

A total of eight sites were preliminarily identified in the BSAs in aerial photography, and all eight sites were assessed. Three sites were assessed in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA, including Spanish Camp Creek (CRLF Site #1), Salinas River (CRLF Site #6), and a man-made

retention pond (CRLF Site #8). Two sites were assessed in the Paso Robles-Templeton South River Route Alternative BSA, including Spanish Camp Creek (CRLF Site #1) and a seasonal wetland (CRLF Site #7). Five sites were assessed in the Paso Robles-Templeton Creston Route Alternative BSA, including a manmade retention basin (CRLF Site# 2), a stormwater detention basin (CRLF Site #3), another man-made detention basin (CRLF Site #4), the large freshwater pond within the LCSLO conservation easement (CRLF Site #5), and a seasonal wetland (CRLF Site #7). Based on the presence of aquatic predators (i.e., American bullfrogs [*Lithobates catesbeianus*] and centrarchid fishes) and/or lack of emergent vegetation, two of the eight survey areas (CRLF Sites #2 and #8) were determined to have either no potential or an unlikely potential to support a breeding population of California red-legged frogs (Table 5). The remaining six features may provide suitable aquatic breeding habitat for this species. In addition, ephemeral drainages observed in the Templeton Route Alternatives' BSAs may be suitable dispersal habitat for this species. The species could also be present in upland areas, such as grassland and blue oak woodland habitat during rain events due to dispersal from water bodies within and near the BSAs. While this species was not observed during the survey period, it is likely to occur in the BSAs because suitable breeding and upland habitat exists and the Templeton Route Alternatives are within the species' range.

4.4.2.4 WESTERN SPADEFOOT

Three western spadefoot toad (*Spea hammondii*) CNDDB occurrences were recorded between 2002 and 2016 within 5 miles of the Templeton Route Alternatives' BSAs. The nearest occurrence was recorded approximately 0.40 mile west of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. Additional CNDDB records show six large (up to 2 inches in length) spadefoot tadpoles were caught and released approximately 1.50 miles northeast of the Paso Robles-Templeton Creston Route Alternative BSA near Meadowlark Road in 2005. Therefore, the Salinas River and seasonal wetlands with sandy substrate observed within the Templeton Alternatives' BSAs may provide suitable breeding habitat for this species. While this species was not observed during the survey period, it is likely to occur because suitable breeding and upland habitat exists in the BSAs and the Templeton Route Alternatives are within the species' range.

4.4.2.5 NORTHERN CALIFORNIA LEGLESS LIZARD

One northern California legless lizard (*Anniella pulchra pulchra*) CNDDB occurrence (2007) was recorded within 5 miles of the Templeton Route Alternatives' BSAs. This species is found primarily in areas with sandy or loose organic soils or where there is sufficient leaf litter (CDFW 2018f). Suitable habitat was observed in blue oak woodlands along the Salinas River corridor in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA, as well as along Spanish Camp Creek in the Paso Robles-Templeton South River Route Alternative BSA. Therefore, this species is likely to occur in these BSAs. Based on the drier conditions and reduced litter debris observed along the Paso Robles-Templeton Creston Route Alternative BSA, northern California legless lizard was determined to have potential to occur in this BSA. While this species was not observed during the survey period, the Templeton Route Alternatives are within the species' range.

4.4.2.6 WESTERN POND TURTLE

Two western pond turtle (*Emys marmorata*) CNDDB occurrences were recorded within 5 miles of the Templeton Route Alternatives' BSAs: along the Salinas River's floodplain in 2006 and Atascadero Creek in 2005. Several potential suitable aquatic breeding habitats were identified within the Templeton Route Alternatives' BSAs, including the Salinas River, Spanish Camp Creek, the large freshwater pond within the LCSLO conservation easement, and seasonal wetlands (Appendix E). The species could also be present in upland areas within and near these aquatic habitats. While this species was not observed during the survey period, it is likely to occur because suitable breeding and upland habitat exists in the BSAs.

Survey Location	Paso Robles- Templeton Existing 70 kV Route Alternative BSA	Paso Robles- Templeton South River Route Alternative BSA	Paso Robles- Templeton Creston Route Alternative BSA	CRLF Present?	Emergent Vegetation Present?	Aquatic Predators Present?	Distance to Nearest CRLF Occurrence (miles)	Notes
CRLF Site #1	✓	✓		No	Yes	Yes	4.9	Spanish Camp Creek is a perennial creek with emergent vegetation. Adjacent upland habitat is present.
CRLF Site #2			✓	No	Yes	Yes	5.2	Man-made detention basin with emergent vegetation and a sandy substrate. No stream inlet or outlet; water intake is likely from an irrigation hose observed on site.
CRLF Site #3			1	No	Yes	No	5.2	Stormwater retention basin with emergent vegetation and a silty loam substrate. No ponded water was observed at the time of the site visit.
CRLF Site #4			✓	No	Yes	Yes	5.3	Detention basin in a vineyard with emergent vegetation and silty substrate. The detention basin is fed by stormwater runoff and vineyard irrigation.

Table 5. California Red-legged Frog Site Assessment

Survey Location	Paso Robles- Templeton Existing 70 kV Route Alternative BSA	Paso Robles- Templeton South River Route Alternative BSA	Paso Robles- Templeton Creston Route Alternative BSA	CRLF Present?	Emergent Vegetation Present?	Aquatic Predators Present?	Distance to Nearest CRLF Occurrence (miles)	Notes
CRLF Site #5			~	No	Yes	Yes	5.1	Large freshwater perennial pond with emergent vegetation and an earthen substrate. Water is turbid and contains sulphur.
CRLF Site #6	✓			No	Yes	Yes	3.5	The Salinas River is ephemeral with perennial pools and a sandy and gravelly substrate. Pools contain emergent vegetation.
CRLF Site #7		√	1	No	Yes	No	4.1	Seasonal wetland with emergent vegetation and shallow water (<1 foot deep).
CRLF Site #8	✓			No	No	No	2.3	Man-made retention with silty loam substrate. Pond and surrounding habitat devoid of vegetation.

Table 5. California Red-legged Frog Site Assessment

4.4.2.7 SAN JOAQUIN WHIPSNAKE (COACHWHIP)

No San Joaquin whipsnake (*Coluber flagellum ruddocki [=Masticophis flagellum ruddocki]*) CNDDB occurrences have been recorded within 5 miles of the project. An abundance of small mammal burrows was observed in grasslands and other dry open areas in the BSAs. Because of the presence of habitat and proximity to documented occurrences, San Joaquin whipsnake has potential to occur in the BSAs.

4.4.2.8 COAST HORNED LIZARD

No coast horned lizard (*Phrynosoma blainvillii*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs; however, one individual was observed in Dry Creek, approximately 5 miles northeast of the BSAs by biologists in March 2016 during field surveys for the proposed project (SWCA 2017b). Sandy soils, such as those observed in the Salinas River and ephemeral drainages, as well as soft soils along the south side of Creston Road may provide suitable habitat for this species. While this species was not observed during the survey period, it is likely to occur because suitable habitat exists in the BSAs, and the Templeton Route Alternatives are within the species' range.

4.4.2.9 TRICOLORED BLACKBIRD

Two tricolored blackbird (*Agelaius tricolor*) CNDDB occurrences (1999 and 2008) were recorded within 5 miles of the Templeton Route Alternatives' BSAs. The nearest and most recent occurrence was recorded between Franklin Hot Springs and the large freshwater pond within the LCSLO conservation easement in the Paso Robles-Templeton Creston Route Alternative BSA. Dense emergent cattails and tules were observed along the entire edge of the pond, as well as expansive grassland and agricultural habitat surrounding the pond. While this species was not observed during the survey period, it is likely to occur because suitable foraging and breeding habitat exists in this BSA. Open grasslands, pastures, and freshwater marsh habitat in the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs.

4.4.2.10 GRASSHOPPER SPARROW

No grasshopper sparrow (*Ammodramus savannarum*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs. This species may occur in open grasslands, pastures, and agricultural habitat in the BSAs. Although this species was not observed during the survey period, it has the potential to occur because suitable foraging and nesting habitat exists in the BSAs and the Templeton Route Alternatives' BSAs are within the species' summer range.

4.4.2.11 GOLDEN EAGLE

One golden eagle (*Aquila chrysaetos*) was observed flying near the entrance to Santa Ysabel Ranch HOA within the Paso Robles-Templeton Existing 70 kV Route Alternative BSA during the June 2018 field survey. According to local residents, the eagle was said to be nesting earlier in 2018 in a large stick nest located approximately 200 feet east of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA, in a eucalyptus tree on Santa Ysabel Road. Biologists confirmed the nest location during the June 2018 field survey. Furthermore, biologists observed a golden eagle sitting on a different stick nest located approximately 1,300 feet east of the Paso Robles-Templeton Existing 70 kV Route Alternative BSA in 2016. This nest was located in tall eucalyptus trees near Santa Ysabel Creek (Appendix E). Golden eagles have also been recorded in CNDDB (2006) approximately 3 miles northeast of the Templeton Route Alternatives' BSAs, on the west side of Huerhuero Creek in a blue oak tree, between Golden Hill Road and Airport Road. According to the CNDDB record, a golden eagle pair has been seen nesting at this location for at least 15 years, and a second unoccupied nest was observed in the vicinity. Suitable nesting and foraging habitat is present within the BSAs, including expansive spreads of grassland and oak woodland.

This species is present in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA, and is likely to occur in the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs.

4.4.2.12 WHITE-TAILED KITE

No white-tailed kite (*Elanus leucurus*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs; however, multiple sightings have been recorded in the area between 2007 and 2018 on eBird (2018). While this species was not observed during the survey period, open grasslands, pastures, and agricultural habitat exist in the Templeton Route Alternatives' BSAs which provide suitable foraging and nesting habitat. Therefore, this species is likely to occur.

4.4.2.13 BALD EAGLE

No bald eagle (*Haliaeetus leucocephalus*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs; however, multiple sightings have been recorded between 2006 and 2018. The nearest eBird sighting was recorded in 2015 at Lawrence Moore Park, approximately 0.3 miles west of the BSAs (eBird 2018). In addition, biologists observed one juvenile bald eagle flying near Golden Hill Road approximately 2 miles north of Paso Robles Substation during the June 2016 field survey for the proposed project (SWCA 2017b). While no suitable nesting or foraging habitat was recorded during reconnaissance surveys within the BSAs, this species is known to occur in the area and has the potential to occur (e.g., Salinas River riparian corridor, Atascadero Lake).

4.4.2.14 PURPLE MARTIN

No purple martin (*Progne subis*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs; however, numerous sightings were recorded between 1990 and 2016 in Atascadero, with one observation recorded in 2006 immediately south of the 5-mile search radii (eBird 2018). Natural and urban landscapes in the BSAs may provide suitable nesting and foraging habitat for this species. While this species was not observed during the survey period, it has the potential to occur because suitable foraging and nesting habitat exists in the BSAs and the Templeton Route Alternatives' BSAs are within the species' summer range.

4.4.2.15 PALLID BAT

No pallid bat (*Antrozous pallidus*) CNDDB occurrences have been recorded within 5 miles of the project. Blue oak woodlands, grasslands, and urban portions of the BSAs may provide suitable roosting and foraging habitat for this species. Because of the presence of suitable roosting and foraging habitat, pallid bat has potential to occur in the BSAs.

4.4.2.16 MONTEREY DUSKY-FOOTED WOODRAT

No Monterey dusky-footed woodrat (*Neotoma macrotis luciana*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs. This species is found primarily in oak and riparian woodlands with well-developed understory to nest (CDFW 2018f). No woodrat middens were observed during the 2018 field survey; however, woodlands along the Salinas River corridor and ephemeral drainages may provide suitable habitat for this species. Therefore, dusky-footed woodrats have the potential to occur in the BSA.

4.4.2.17 SALINAS POCKET MOUSE

No Salinas pocket mouse (*Perognathus inornatus psammophilus*) CNDDB occurrences have been recorded within 5 miles of the Templeton Route Alternatives' BSAs. This species occurs in annual grasslands, desert scrub, and woodland communities on sandy soils and other friable soils (Brylski 1998). This habitat was

observed along the Salinas River corridor; therefore, it has the potential to occur in the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. Grasslands and oak woodlands observed in the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs may provide suitable habitat for this species; however, it unlikely to occur due to the lack of friable soils observed in these BSAs. While this species was not observed during the survey period, the Templeton Route Alternatives' BSAs are within the species' range.

4.4.2.18 AMERICAN BADGER

One American badger carcass was observed on El Pomar Drive during the survey period. This individual was presumed to have been killed as a result of vehicular traffic and was found in an area where the Paso Robles-Templeton South River Route Alternative and Paso Robles-Templeton Creston Route Alternative BSAs overlap as the BSAs approaches Templeton Substation. One CNDDB occurrence (2003) was recorded within 5 miles of the BSAs. Nonnative grasslands and oak woodlands observed in the Templeton Route Alternatives' BSAs may provide suitable habitat for this species. In addition, an abundance of prey species is present within and around the BSAs, such as California ground squirrel (*Otospermophilus beecheyi*) and other small rodent species. Because of the presence of suitable habitat and the individual sighting along the road, this species is present in the Templeton Route Alternatives' BSAs.

4.4.2.19 SAN JOAQUIN KIT FOX

Current record searches show 10 San Joaquin kit fox (*Vulpes macrotis mutica*) CNDDB occurrences within the nine-quadrangle search between 1987 and 1997, six of which have been recorded at Camp Roberts, approximately 16 miles to the northwest. The two occurrences recorded within 5 miles of the Templeton Route Alternatives BSAs include: (1) one adult near the intersection of Union Road and Golden Hill Road in 1991, approximately 1 mile northeast of Paso Robles Substation; and (2) a denning site with one adult observed at Chandler Ranch within the undeveloped city limits of Paso Robles in 1990, approximately 1-mile northeast of the Paso Robles Substation. In addition, positive scat occurrences were documented in 2014 near Whitley Gardens, approximately 10 miles northeast of Paso Robles Substation (Wampler 2014).

Natural connections between the Salinas River and Pajaro River watersheds, the Carrizo Plain Natural Area, and the San Joaquin Valley provide migration corridors for San Joaquin kit fox; however, the amount of movement between these areas is unknown. While kit fox populations in the Salinas River watershed are known to be located at Camp Roberts and Fort Hunter Liggett (California State University, Stanislaus 2018), the Salinas River may function as a migration corridor for documented population between Shandon Valley and Camp Roberts. In addition, there are no known significant barriers to kit fox dispersal or migration between these two regions. This potential migration corridor occurs north of the BSAs.

As discussed in Section 4.2.2, vegetation communities in the BSAs included agricultural, oak woodlands, nonnative grasslands, ruderal habitat, and urban/developed areas. These areas (in particular, grassland areas) may provide suitable habitat for San Joaquin kit fox, and support a prey base (i.e., California ground squirrel and small mammals) and/or potential natal or non-natal den sites (White and Ralls 1993).

To assess the potential for San Joaquin kit fox to occur in the Templeton Route Alternatives' BSAs, biologists conducted an early evaluation survey as defined by the USFWS San Joaquin Kit Fox Survey Protocol for the Northern Range (USFWS 1999). Biologists examined vegetation communities and potential suitable natal and non-natal dens at and around the BSAs. Methodologies included walking transects approximately 10 feet apart, identifying suitable prey base and assessing burrows for den characteristics (e.g., "keyhole" shape entrance, long soil apron from the entrance). Small mammal burrows and canid burrows with entrances 4 inches in diameter or larger were mapped throughout the BSAs. These accounts are summarized below in Table 6, and locations are shown in Appendix E.

Burrows Greater than 4 Inches in Diameter	Paso Robles- Templeton Existing 70 kV Route Alternative BSA	Paso Robles- Templeton South River Route Alternative BSA	Paso Robles- Templeton Creston Route Alternative BSA
Small Mammal Burrows	7	1	27
Canid Burrows	1	0	0

Table 6. Small Mammal Burrows within the BSAs

Small mammal burrows observed in the Templeton Route Alternatives' BSAs appeared to be primarily inhabited by California ground squirrel and pocket gopher (*Thomomys bottae*). The highest number of burrows occurs in the Paso Robles-Templeton Creston Route Alternative BSA and are concentrated in open grassland near the large freshwater pond within the LCSLO conservation easement at the eastern end of the route before it turns south toward Templeton Substation. Many of the burrows observed in the BSAs showed fresh sign of mammal activity, but no signs of San Joaquin kit fox were observed (e.g., tracks, scat, etc.). No San Joaquin kit fox were observed during the surveys; however, due to the presence of nonnative grassland within low topography, burrows of sufficient size (e.g., suitable as potential dens), and the prey base availability in the Templeton Route Alternatives' BSA, there is potential for San Joaquin kit fox to occur.

5 DISCUSSION

5.1 PASO ROBLES-TEMPLETON EXISTING 70 KV ROUTE ALTERNATIVE

Based on an in-depth literature review and field surveys, two special-status animals—golden eagle and American badger—are present within or immediately adjacent to the Paso Robles-Templeton Existing 70 kV Route Alternative BSA. In addition, 21 special-status plant species and 19 special-status wildlife species were determined to be either likely to occur, have potential to occur, or unlikely to occur. There is also high potential for avian species to nest in the BSA during the typical nesting season (February 1–August 31), including golden eagle as two known active nests are located adjacent to the BSA. Federally designated steelhead critical habitat occurs along the westernmost portion of the BSA along the Salinas River. There are no other federally designated critical habitat areas for special-status species within or immediately adjacent to the BSA.

Blue oak woodlands observed in the BSA are considered sensitive under the City of El Paso de Robles General Plan. In addition, valley oak woodland, sandy wash [Salinas River], and coastal and valley freshwater marsh areas in the BSA are considered California Sensitive Natural Communities by CDFW. Heritage oak trees protected under the City of El Paso de Robles Oak Tree Ordinance (Ordinance No. 835 N.S.) were also observed along South River Road in the northern portion of the BSA.

The Salinas River, Spanish Camp Creek, coastal and valley freshwater marsh, ephemeral drainages, and seasonal wetland features were identified within the BSA. Based on the presence of hydrophytic vegetation, wetland hydrology, hydric soils, defined bed and banks, and/or a nexus to waters of the U.S., these features may be subject to USACE, RWQCB, and/or CDFW jurisdiction. Furthermore, these water features may also serve as foraging, breeding, and non-breeding habitats for special-status species, as well as wildlife migration corridors for dispersal of species between local areas and at larger scales between regions.

5.2 PASO ROBLES-TEMPLETON SOUTH RIVER ROUTE ALTERNATIVE

Based on an in-depth literature review and field surveys, one special-status animal—American badger—is present in the Paso Robles-Templeton South River Route Alternative BSA. In addition, 20 special-status plant species and 18 special-status wildlife species were determined to be either likely to occur, have potential to occur, or unlikely to occur in the BSA. There is also high potential for avian species to nest in the BSA during the typical nesting season (February 1–August 31). There are no federally designated critical habitat areas for special-status species within or immediately adjacent to the BSA.

Blue oak woodlands observed in the BSA is considered a sensitive community under the City of El Paso de Robles General Plan. Heritage oak trees protected under the City of El Paso de Robles Oak Tree Ordinance (Ordinance No. 835 N.S.) were observed along South River Road in the northern portion of the BSA. In addition, the coastal and valley freshwater marsh areas in the BSA are considered California Sensitive Natural Communities by CDFW.

Spanish Camp Creek, coastal and valley freshwater marsh, and ephemeral drainages were identified within the BSA. Based on the presence of hydrophytic vegetation, wetland hydrology, hydric soils, defined bed and banks, and/or a nexus to waters of the U.S., these features may be subject to USACE, RWQCB, and/or CDFW jurisdiction. Furthermore, these water features may also serve as foraging, breeding and non-breeding habitats for special-status species, as well as wildlife migration corridors for dispersal of species between local areas and at larger scales between regions.

5.3 PASO ROBLES-TEMPLETON CRESTON ROUTE ALTERNATIVE

Based on an in-depth literature review and field surveys, one special-status animal—American badger—is present in the Paso Robles-Templeton Creston Route Alternative BSA. In addition, 20 special-status plant species and 18 special-status wildlife species were determined to be either likely to occur, have potential to occur, or unlikely to occur in the BSA. There is also high potential for avian species to nest in the BSA during the typical nesting season (February 1–August 31). There are no federally designated critical habitat areas for special-status species within or immediately adjacent to the BSA.

Blue oak woodlands observed in the BSA is considered a sensitive community under the City of El Paso de Robles General Plan. Heritage oak trees protected under the City of El Paso de Robles Oak Tree Ordinance (Ordinance No. 835 N.S.) were observed along South River Road in the northern portion of the BSA. In addition, the Paso Robles-Templeton Creston Route Alternative BSA contains a LCSLO agricultural conservation easement for oak trees. The coastal and valley freshwater marsh areas in the BSA are also considered California Sensitive Natural Communities by CDFW.

The LCSLO freshwater pond, coastal and valley freshwater marsh, ephemeral drainages, and seasonal wetland features were identified within the BSA. Based on the presence of hydrophytic vegetation, wetland hydrology, hydric soils, defined bed and banks, and/or a nexus to waters of the U.S., these features may be subject to USACE, RWQCB, and/or CDFW jurisdiction. Furthermore, these water features may also serve as foraging, breeding and non-breeding habitats for special-status species, as well as wildlife migration corridors for dispersal of species between local areas and at larger scales between regions.

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Appendix A. Flora Compendium This page intentionally left blank

Table A-1. Flora CompendiumPaso Robles-Templeton Existing 70 kV Route Alternative

Scientific Name* Common Name		Native	Species Status
GYMNOSPERMS			
Pinaceae	Pine family		
Pinus pinea	Italian stone pine	No	
Taxodiaceae	Bald cypress family		
Sequoia sempervirens	coast redwood	Yes	
ANGIOSPERMS (DICOTS)			
Aizoaceae	Fig-marigold family		
Carpobrotus chilensis	ice plant	No	
Amaranthaceae	Amaranth family		
Amaranthus albus	tumbleweed	No	
Amaranthus retroflexus	green amaranthus	No	
Anacardiaceae	Sumac family		
Rhus aromatic	skunkbrush	Yes	
Rhus integrifolia	lemonaid berry	Yes	
Schinus molle	Peruvian pepper tree	No	
Toxicodendron diversilobum	poison oak	Yes	
Apiaceae	Carrot family		
Anthriscus caucalis	bur chivel	No	
Bowlesia incana	bowlesia	Yes	
Conium maculatum	poison hemlock	No	
Daucus pusillus	rattle snake weed	Yes	
Eryngium vaseyi	coyote thistle	Yes	
Foeniculum vulgare	sweet fennel	No	
Lomatium californicum	California lomatium	Yes	
Torilis arvensis	field hedge parsley	No	
Apocynaceae	Dogbane family		
Vinca major	greater periwinkle	No	
Asclepiadaceae	Milkweed family		
Asclepias fascicularis	narrow-leaf milkweed	Yes	
Asclepias vestita	woolly milkweed	Yes	
Asteraceae	Sunflower family		
Achillea millefolium	yarrow	Yes	
Achyrachaena mollis	blow-wives	Yes	

Scientific Name*	Common Name	Native	Species Status
Ambrosia acanthicarpa	annual burweed	Yes	
Anthemis cotula	Dog fennel	No	
Baccharis pilularis ssp. consanguinea	Coyote brush	Yes	
Baccharis salicifolia	Mule fat	Yes	
Carduus pycnocephalus	Italian thistle	No	
Carduus tenuiflorus	Slender flowered thistle	No	
Centaurea melitensis	Tocalote	No	
Centaurea solstitialis	Yellow starthistle	No	
Centromadia pungens	Common spikeweed	Yes	
Cirsium vulgare	Bull thistle	No	
Deinandra fasciculata	clustered tarweed	Yes	
Erigeron bonariensis	flax-leaved horseweed	No	
Erigeron canadensis	horseweed	Yes	
Erigeron foliosus	leafy fleabane	Yes	
Erigeron glaucus	seaside daisy	Yes	
Eriodictyon sp.	yerba santa	Yes	
Eriophyllum confertifolium	golden yarrow	Yes	
Helminthotheca echioides	bristly ox-tongue	No	
Heterotheca grandiflora	Telegraph weed	Yes	
Holocarpha heermannii	Heermann's tarweed	Yes	
Hypochaeris glabra	smooth cat's ear	No	
Hypochaeris radicata	rough cat's ear	No	
Lactuca saligna	slender lettuce	No	
Lactuca serriola	prickly lettuce	No	
Lagophylla ramosissima	Common hareleaf	Yes	
Logfia gallica	narrow-leafed filago	No	
Micropus californicus var. californicus	slender cottonweed	Yes	
Pseudognaphalium stramineum	cottonbatting plant	Yes	
Pseudognaphalium luteoalbum	Jersey cudweed	No	
Psilocarphus tenellus	Slender woolly marbles	Yes	
Senecio vulgaris	ragwort	No	
Silybum marianum	milk thistle	No	
Sonchus oleraceus	sow thistle	No	
Stephanomeria virgata	wire-lettuce	Yes	
Taraxacum officinale	dandelion	No	

Scientific Name*	Common Name	Native	Species Status
Xanthium spinosum	spiny cocklebur	Yes	
Xanthium strumarium	cocklebur	Yes	
Uropappus lindleyi	silver puffs	Yes	
Wyethia helenoides	Whitehead wyethia	Yes	
Boraginaceae	Borage family		
Amsinckia intermedia	common fiddleneck	Yes	
Amsinckia menziesii	small flowered fiddleneck	Yes	
Heliotropium curassavicum	salt heliotrope	Yes	
Nemophila menziesii	Baby blue eyes	Yes	
Plagiobothrys canescens	valley popcorn flower	Yes	
Brassicaceae	Mustard family		
Brassica nigra	black mustard	No	
Brassica rapa	field mustard	No	
Brassica tournefortii	Saharan mustard	No	
Capsella bursa-pastoris	shepherd's purse	No	
Hirschfeldia incana	summer mustard	No	
Lepidium didymium	Lesser swine cress	No	
Lepidium nitidum	Peppergrass	Yes	
Raphanus sativa	wild radish	No	
Sisymbrium irio	London rocket	No	
Thysanocarpus curvipes	lacepod	Yes	
Caprifoliaceae	Honeysuckle family		
Lonicera interrupta	honeysuckle	Yes	
Sambucus nigra	black elderberry	Yes	
Symphoricarpos mollis	creeping snowberry	Yes	
Caryophyllaceae	Pink family		
Silene gallica	catchfly	No	
Spergularia rubra	red sand spurry	No	
Stellaria media	Chickweed	No	
Chenopodiaceae	Goosefoot family		
Atriplex semibiccata	Australian saltbush	No	
Chenopodium album	pigweed	No	
Chenopodium californicum	California pigweed	Yes	
Salsola tragus	Russian thistle	No	
Cistaceae	Rock-rose family		

Scientific Name*	Common Name	Native	Species Status
Cistus monspeliensis	resinous rockrose	No	
Convolvulaceae	Morning glory family		
Convolvulus arvensis	bindweed	No	
Cucurbitaceae	Gourd family		
Marah fabaceus var. fabaceus	wild cucumber	Yes	
Ericaceae	Heath family	1	
Arctostaphylos glauca	big berry manzanita	Yes	
Euphorbiaceae	Spurge family		
Croton setiger	doveweed/turkey mullein	Yes	
Euphorbia ocellata ssp. ocellata	valley spurge	Yes	
Fabaceae	Pea family		
Acmispon americanus	Spanish lotus	Yes	
Acmispon glaber	deer weed	Yes	
Astragalus douglasii var. douglasii	Douglas's milkvetch	Yes	
Lathyrus odoratus	sweet pea	No	
Lupinus albifrons	silver lupine	Yes	
Lupinus bicolor	miniature lupine	Yes	
Lupinus hirsutissimus	stinging lupine	Yes	
Lupinus microcarpus var. microcarpus	chick lupine	Yes	
Lupinus nanus	sky lupine	Yes	
Lupinus succulentus	Succulent lupine	Yes	
Melilotus indica	sourclover	No	
Medicago polymorpha	bur clover	No	
Trifolium hirtum	rose clover	No	
Vicia hassei	Hasse's vetch	Yes	
Vicia sativa	spring vetch	No	
Vicia villosa	hairy vetch	No	
Fagaceae	Oak family		
Quercus agrifolia	coast live oak	Yes	
Quercus berberidifolia	scrub oak	Yes	
Quercus douglasii	blue oak	Yes	
Quercus lobata	valley oak	Yes	
Geraniaceae	Geranium family		
Erodium cicutarium	red-stemmed filaree	No	
Erodium moschatum	White-stem filaree	No	

Scientific Name*	Common Name	Native	Species Status
Erodium botrys	filaree	No	
Geranium dissectum	cut leaf geranium	No	
Hydrophylaceae	Waterleaf family		
Phacelia distans	common phacelia	Yes	
Phacelia malviflora	stinging phacelia	Yes	
Pholistoma auritum	fiesta flower	Yes	
Juglandaceae	Walnut family		
Juglans californica var californica	S. California black walnut	Yes	
Lamiaceae	Mint family		
Lavandula sp.	lavender	No	
Marrubium vulgare	horehound	No	
Stachys bullata	hedge nettle	Yes	
Trichostema lanceolatum	Vinegarweed	Yes	
Lauraceae	Laurel family		
Umbellaria californica	California bay	Yes	
Malvaceae	Mallow family		
Malva parviflora	cheeseweed	No	
Montiaceae	Minor's lettuce family		
Claytonia perfoliata	miners lettuce	Yes	
Myrsinaceae	Myrsine family		
Lysimachia arvensis	scarlet pimpernel	No	
Myrtaceae	Myrtle family		
Eucalyptus globules	blue gum	No	
Oleaceae	Ash family		
Olea europaea	olive	No	
Onagraceae	Evening primrose family		
Clarkia affinis	chaparral fairyfan	Yes	
Clarkia bottae	punch bowl clarkia	Yes	
Clarkia purpurea ssp quadrivulnera	purple clarkia	Yes	
Clarkia speciosa	red spotted clarkia	Yes	
Clarkia unguiculata	elegant clarkia	Yes	
Epilobium canum	California fuchsia	Yes	
Eremothera boothii ssp. decorticans	shredding evening primrosa	Yes	
Orobanchaceae	Broomrape family		

Scientific Name*	Common Name	Native	Species Status
Castilleja exserta	Owl's clover	Yes	
Oxalidaceae	Woodsorrel family		
Oxalis pes-caprae	Bermuda buttercup	No	
Papaveraceae	Poppy family		
Eschscholzia californica	California poppy	Yes	
Plantaginaceae	Plantain family		
Collinsia heterophylla	Chinese houses	Yes	
Plantago lanceolata	English plantain	No	
Plantago major	Common plantain	No	
Veronica anagalis-aquatica	Water speedwell	No	
Plantanaceae	Sycamore family		
Platanus racemosa	western sycamore	Yes	
Polemoniaceae	Phlox family		
Navarretia atractyloides	holly leaf navarretia	Yes	
Polygonaceae	Buckwheat family		
Chorizanthe membranacea	pink spineflower	Yes	
Eriogoinum fasciculatum	California buckwheat	Yes	
Eriogonum gracillimum	slender-stemmed buckwheat	Yes	
Eriogonum nudum	naked buckwheat	Yes	
Eriogonum roseum	wand buckwheat	Yes	
Polygonum aviculare	prostrate knotweed	No	
Rumex acetosella	sheep sorrel	No	
Rumex crispus	curly dock	No	
Rumex pulcher	fiddle dock	No	
Ranunculaceae	Buttercup family		
Delphinium parryi ssp. parryi	San Berbardino larkspur	Yes	
Ranunculus californicus	California buttercup	Yes	
Rhamnaceae	Buckthorn family		
Ceanothus cuneatus var. cuneatus	wedgeleaf ceanothus	Yes	
Frangula californica	coffeeberry	Yes	
Rhamnus ilicifolia	evergreen buckthorn	Yes	
Rosaceae	Rose family		
Heteromeles arbutifolia	toyon	Yes	
Rosa californica	California wild rose	Yes	

Scientific Name*	Common Name	Native	Species Status
Rubiaceae	Madder family		
Galium aparine	goose grass	Yes	
Salicaceae	Willow family		
Populus fremontii ssp. fremontii	Fremont's cottonwood	Yes	
Salix exigua	sandbar willow	Yes	
Salix lasiandra	red willow	Yes	
Salix lasiolepis	arroyo willow	Yes	
Salix laevigata	red willow	Yes	
Scrophulariaceae	Figwort family		
Verbascum thapsus	common mullein	No	
Solanaceae	Nightshade family		
Datura wrightii	jimson weed	Yes	
Nicotiana acuminate	manyflowered tobacco	No	
Solanum americanum	American black nightshade	Yes	
Urticaceae	Nettle family		
Urtica dioica	hoary nettle	Yes	
Urtica urens	dwarf nettle	No	
Verbenaceae	Verbena family		
Verbena lasiostachys	common vervain	No	
Violoaceae	Violet family		
Viola pedunculata	Johnny jump-up	Yes	
Viscaceae	Mistletoe family		
Phoradendron villosum	oak mistletoe	Yes	
Vitaceae	Grape family		
Vitis sp.	cultivated grape	Unknown	
ANGIOSPERMS (MONOCOTS)			
Araceae	Arum family		
Lemna sp.	duckweed	Yes	
Cactaceae	Cactus family		
Opunita ficus-indica	Mission cactus	No	
Cyperaceae	Sedge family		
Cyperus eragrostis	tall flat sedge	Yes	
Eleocharis macrostachya	common spikerush	Yes	
Eleocharis parishii	spikerush	Yes	

Scientific Name*	Common Name	Native	Species Status
Schoenoplectus americanus	bulrush	Yes	
Scirpus microcarpus	Mountain bog bulrush	Yes	
Liliaceae	Lily family		
Bloomeria crocea	common goldenstar	Yes	
Brodiaea terrestris	dwarf brodiaea	Yes	
Calochortus luteus	yellow mariposa lily	Yes	
Dichelostemma capitatum	blue dicks	Yes	
Juncaceae	Rush family		
Juncus effusus	Common bog rush	Yes	
Juncus phaeocephalus	Brown headed rush	Yes	
Juncus patens	Rush	Yes	
Juncus xiphiodes	Irish leaved rush	Yes	
Poaceae	Grass family		
Avena barbata	slender wild oats	No	
Avena fatua	wild oats	No	
Briza maxima	rattle snake grass	No	
Bromus arenarius	Australian chess	No	
Bromus carinatus	California brome	Yes	
Bromus diandrus	ripgut brome	No	
Bromus hordeaceus	soft chess brome	No	
Bromus madritensis	Spanish brome	No	
Bromus rubens	red brome	No	
Distichlis spicata	saltgrass	Yes	
Elymus glaucus	Blue wild rye	Yes	
Elymus hispidus	Intermediate wheatgrass	No	
Elymus triticoides	Creeping wildrye	Yes	
Festuca bromoides	brome fescue	No	
Festuca microstachys	small fescue	Yes	
Festuca myuros	rattail fescue	No	
Festuca perennis	Italian ryegrass	No	
Hordeum brachyantherum	meadow barley	Yes	
Hordeum murinum ssp. leporinum	foxtail	No	
Hordeum marinum ssp. gussoneanum	Mediterranean barley	No	
Melica imperfecta	melic grass	Yes	
Poa bulbosa	Bulbous blue grass	No	

Scientific Name*	Common Name	Native	Species Status
Poa secunda	Pine bluegrass	Yes	
Polypogon monspelliensis	Rabbit foot grass	No	
Stipa pulchra	purple needle-grass	Yes	
Stipa cernua	nodding needle grass	Yes	
Typhaceae	Cattail family		
Typha latifolia	cattail	Yes	

*Vascular Plants nomenclature follows "The Jepson Manual" and http://ucjeps.berkeley.edu/interchange.html.

Table A-2. Flora CompendiumPaso Robles-Templeton South River Route Alternative

Scientific Name*	Common Name	Native	Species Status
GYMNOSPERMS			
Pinaceae	Pine family		
Pinus pinea	Italian stone pine	No	
Taxodiaceae	Bald cypress family		
Sequoia sempervirens	coast redwood	Yes	
ANGIOSPERMS (DICOTS)			
Aizoaceae	Fig-marigold family		
Carpobrotus chilensis	ice plant	No	
Amaranthaceae	Amaranth family		
Amaranthus albus	tumbleweed	No	
Amaranthus retroflexus	green amaranthus	No	
Anacardiaceae	Sumac family		
Rhus aromatic	skunkbrush	Yes	
Rhus integrifolia	lemonaid berry	Yes	
Schinus molle	Peruvian pepper tree	No	
Toxicodendron diversilobum	poison oak	Yes	
Apiaceae	Carrot family		
Anthriscus caucalis	bur chivel	No	
Bowlesia incana	bowlesia	Yes	
Conium maculatum	poison hemlock	No	
Daucus pusillus	rattle snake weed	Yes	
Eryngium vaseyi	Coyote thistle	Yes	
Foeniculum vulgare	sweet fennel	No	
Lomatium californicum	California lomatium	Yes	
Lomatium utriculatum	Hog fennel	Yes	
Sanicula bipinnata	Poison sanicle	Yes	
Torilis arvensis	field hedge parsley	No	
Apocynaceae	Dogbane family		
Vinca major	greater periwinkle	No	
Asclepiadaceae	Milkweed family		
Asclepias fascicularis	narrow-leaf milkweed	Yes	
Asclepias vestita	woolly milkweed	Yes	
Asteraceae	Sunflower family		

Scientific Name*	Common Name	Native	Species Status
Achyrachaena mollis	blow-wives	Yes	
Ambrosia acanthicarpa	annual burweed	Yes	
Artemisia californica	California sagebrush	Yes	
Baccharis pilularis ssp. consanguinea	Coyote brush	Yes	
Baccharis salicifolia	Mule fat	Yes	
Carduus pynocephlus	Italian thistle	No	
Carduus tenuiflorus	Slender flowered thistle	No	
Centaurea melitensis	Tocalote	No	
Centaurea solstitialis	Yellow starthistle	No	
Corethrogyne filaginifolia	California aster	Yes	
Cirsium vulgare	Bull thistle	No	
Deinandra fasciculata	clustered tarweed	Yes	
Erigeron bonariensis	flax-leaved horseweed	No	
Erigeron canadensis	horseweed	Yes	
Erigeron foliosus	leafy fleabane	Yes	
Erigeron glaucus	seaside daisy	Yes	
Eriodictyon sp.	yerba santa	Yes	
Eriophyllum confertifolium	golden yarrow	Yes	
Helminthotheca echioides	bristly ox-tongue	No	
Heterotheca grandiflora	Telegraph weed	Yes	
Hypochaeris glabra	smooth cat's ear	No	
Hypochaeris radicata	rough cat's ear	No	
Lactuca saligna	slender lettuce	No	
Lactuca serriola	Prickly lettuce	No	
Logfia gallica	narrow-leafed filago	No	
Matricaria discoidea	Pineapple weed	Yes	
Micropus californicus var. californicus	slender cottonweed	Yes	
Pseudognaphalium stramineum	cottonbatting plant	Yes	
Pseudognaphalium luteoalbum	Jersey cudweed	No	
Psilocarpus tenellus	Slender woolly marbles	Yes	
Senecio vulgaris	ragwort	No	
Silybum marianum	Milk thistle	No	
Sonchus asper	Spiny sowthistle	No	
Stephanomeria virgata	wire-lettuce	Yes	
Taraxacum officinale	dandelion	No	

Scientific Name*	Common Name	Native	Species Status
Xanthium strumarium	cocklebur	Yes	
Uropappus lindleyi	silver puffs	Yes	
Boraginaceae	Borage family		
Amsinckia douglasiana	Douglas' fiddleneck	Yes	
Amsinckia menziesii	small flowered fiddleneck	Yes	
Plagiobothrys canescens	Valley popcorn flower	Yes	
Plagiobothrys nothofulvus	Rusty popcornflower	Yes	
Brassicaceae	Mustard family		
Brassica nigra	black mustard	No	
Brassica rapa	field mustard	No	
Capsella bursa-pastoris	shepherd's purse	No	
Cardamine oligosperma	Bitter cress	Yes	
Hirschfeldia incana	summer mustard	No	
Lepidium strictum	peppergrass	Yes	
Raphanus sativa	wild radish	No	
Sisymbrium irio	London rocket	No	
Thysanocarpus curvipes	lacepod	Yes	
Caprifoliaceae	Honeysuckle family		
Lonicera interrupta	honeysuckle	Yes	
Sambucus nigra	black elderberry	Yes	
Symphoricarpos mollis	creeping snowberry	Yes	
Caryophyllaceae	Pink family		
Cerastium glomeratum	Mouse ears chickweed	No	
Silene gallica	catchfly	No	
Spergularia rubra	Red sand spurry	No	
Chenopodiaceae	Goosefoot family		
Atriplex semibiccata	Australian saltbush	No	
Chenopodium album	pigweed	No	
Chenopodium californicum	California pigweed	Yes	
Salsola tragus	Russian thistle	No	
Cistaceae	Rock-rose family		
Cistus monspeliensis	resinous rockrose	No	
Convolvulaceae	Morning glory family		
Convolvulus arvensis	bindweed	No	
Cucurbitaceae	Gourd family		
Scientific Name*	Common Name	Native	Species Status
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Marah fabaceus var. fabaceus	wild cucumber	Yes	
Ericaceae	Heath family		
Arctostaphylos glauca	big berry manzanita	Yes	
Euphorbiaceae	Spurge family		
Croton setiger	doveweed/turkey mullein	Yes	
Euphorbia ocellata ssp. ocellata	valley spurge	Yes	
Fabaceae	Pea family		
Acmispon americanus	Spanish lotus	Yes	
Acmispon glaber	deer weed	Yes	
Acmispon strigosus	Strigose lotus	yes	
Acmispon wrangelianus	Chilean trefoil	Yes	
Astragalus douglasii var. douglasii	Douglas's milkvetch	Yes	
Lathyrus odoratus	sweet pea	No	
Lupinus albifrons	silver lupine	Yes	
Lupinus bicolor	miniature lupine	Yes	
Lupinus hirsutissimus	stinging lupine	Yes	
Lupinus microcarpus	chick lupine	yes	
Lupinus nanus	sky lupine	Yes	
Lupinus succulentus	Succulent lupine	Yes	
Medicago polymorpha	bur clover	No	
Trifolium gracilentum	Pin point clover	Yes	
Trifolium hirtum	rose clover	No	
Trifolium willdenovii	tomcat clover	Yes	
Vicia hassei	Hasse's vetch	Yes	
Vicia villosa	hairy vetch	No	
Fagaceae	Oak family		
Quercus agrifolia	coast live oak	Yes	
Quercus berberidifolia	scrub oak	Yes	
Quercus douglasii	blue oak	Yes	
Quercus lobata	valley oak	Yes	
Geraniaceae	Geranium family		
Erodium cicutarium	red-stemmed filaree	No	
Erodium moschatum	White-stem filaree	No	
Erodium botrys	filaree	No	
Erodium brachycarpum	White stemmed filaree		

Scientific Name*	Common Name	Native	Species Status
Geranium dissectum	cut leaf geranium	No	
Hydrophylaceae	Waterleaf family		
Phacelia distans	common phacelia	Yes	
Phacelia malviflora	stinging phacelia	Yes	
Pholistoma auritum	fiesta flower	Yes	
Pholistoma membranaceum	White fiesta flower	Yes	
Juglandaceae	Walnut family		
Juglans californica var californica	S. California black walnut	Yes	
Lamiaceae	Mint family		
Lavandula sp.	lavender	No	
Lamium amplexicaule	Henbit	No	
Marrubium vulgare	horehound	No	
Stachys bullata	hedge nettle	Yes	
Lauraceae	Laurel family		
Umbellaria californica	California bay	Yes	
Malvaceae	Mallow family		
Malva parviflora	cheeseweed	No	
Montiaceae	Minor's lettuce family		
Calandrinia menziesii	red maids	Yes	
Claytonia perfoliata	miners lettuce	Yes	
Myrsinaceae	Myrsine family		
Lysimachia arvensis	scarlet pimpernel		
Myrtaceae	Myrtle family		
Eucalyptus globules	blue gum	No	
Oleaceae	Ash family		
Olea europaea	olive	No	
Onagraceae	Evening primrose family		
Clarkia affinis	chaparral fairyfan	Yes	
Clarkia bottae	punch bowl clarkia	Yes	
Clarkia purpurea ssp quadrivulnera	purple clarkia	Yes	
Clarkia speciosa	red spotted clarkia	Yes	
Clarkia unguiculata	elegant clarkia	Yes	
Epilobium canum	California fuchsia	Yes	
Epilobium ciliatum	Slender willow herb	Yes	

Scientific Name*	Common Name	Native	Species Status
Eremothera boothii ssp. decorticans	shredding evening primrosa	Yes	
Orobanchaceae	Broomrape Family		
Castilleja exserta	Owl's clover	Yes	
Oxalidaceae	Woodsorrel family		
Oxalis pes-caprae	Bermuda buttercup	No	
Papaveraceae	Poppy family		
Eschscholzia californica	California poppy	Yes	
Papaver heterophyllum	Wind poppy	Yes	
Platystemon californicus	cream cups	Yes	
Plantaginaceae	Plantain family		
Collinsia heterophylla	Chinese houses	Yes	
Plantago erecta	California plantain	Yes	
Plantago lanceolata	English plantain	No	
Plantago major	Common plantain	No	
Veronica arvensis	Speedwell	No	
Plantanaceae	Sycamore family	,	
Platanus racemosa	western sycamore	Yes	
Polemoniaceae	Phlox family		
Gilia tricolor	Tricolor gilia	Yes	
Navarretia atractyloides	holly leaf navarretia	Yes	
Polygonaceae	Buckwheat family		
Chorizanthe membranacea	pink spineflower	Yes	
Eriogoinum fasciculatum	California buckwheat	Yes	
Eriogonum gracillimum	slender-stemmed buckwheat	Yes	
Eriogonum nudum	naked buckwheat	Yes	
Eriogonum roseum	wand buckwheat	Yes	
Polygonum aviculare	prostrate knotweed	No	
Rumex acetosella	sheep sorrel	No	
Rumex crispus	curly dock	No	
Rumex pulcher	fiddle dock	No	
Ranunculaceae	Buttercup family		
Delphinium parryi ssp. parryi	San Berbardino larkspur	Yes	
Ranunculus californicus	California buttercup	Yes	
Rhamnaceae	Buckthorn family		

Scientific Name*	Common Name	Native	Species Status
Ceanothus cuneatus var. cuneatus	wedgeleaf ceanothus	Yes	
Frangula californica	coffeeberry	Yes	
Rhamnus ilicifolia	evergreen buckthorn	Yes	
Rosaceae	Rose family		
Heteromeles arbutifolia	toyon	Yes	
Prunus ilicfolia	Holly leaf cherry	yes	
Rosa californica	California wild rose	Yes	
Rubiaceae	Madder family		
Galium andrewsii	Phlox leaved bedstraw	Yes	
Galium aparine	goose grass	Yes	
Galium parisiense	wall bedstraw	No	
Salicaceae	Willow family		
Populus fremontii ssp. fremontii	Fremont's cottonwood	Yes	
Salix exigua	sandbar willow	Yes	
Salix lasiandra	red willow	Yes	
Salix lasiolepis	arroyo willow	Yes	
Scrophulariaceae	Figwort family		
Verbascum thapsus	common mullein	No	
Solanaceae	Nightshade family		
Datura wrightii	jimson weed	Yes	
Nicotiana acuminate	manyflowered tobacco	No	
Solanum americanum	American black nightshade	Yes	
Urticaceae	Nettle family		
Urtica dioica	hoary nettle	Yes	
Urtica urens	dwarf nettle	No	
Verbenaceae	Verbena family		
Verbena lasiostachys	common vervain	No	
Violoaceae	Violet family		
Viola pedunculata	Johnny jump-up	Yes	
Viscaceae	Mistletoe family		
Phoradendron villosum	oak mistletoe	Yes	
Vitaceae	Grape family		
Vitis sp.	cultivated grape	Unknown	

Scientific Name*	Common Name	Native	Species Status
ANGIOSPERMS (MONOCOTS)			
Araceae	Arum family		
Lemna sp.	duckweed	Yes	
Cactaceae	Cactus family		
Opunita ficus-indica	Mission cactus	No	
Cyperaceae	Sedge family		
Cyperus eragrostis	tall flat sedge	Yes	
Eleocharis macrostachya	common spikerush	Yes	
Eleocharis parishii	spikerush	Yes	
Schoenoplectus americanus	bulrush	Yes	
Scirpus microcarpus	Mountain bog bulrush	Yes	
Iridaceae	Iris family		
Sisyrinchium bellum	Blue eyed grass	Yes	
Liliaceae	Lily family		
Bloomeria crocea	common goldenstar	Yes	
Brodiaea terrestris	dwarf brodiaea	Yes	
Calochortus luteus	yellow mariposa lily	Yes	
Dichelostemma capitatum	blue dicks	Yes	
Juncaceae	Rush family		
Juncus bufonius	Common toad rush	Yes	
Juncus effusus	Common bog rush	Yes	
Juncus phaeocephalus	Brown headed rush	Yes	
Poaceae	Grass family		
Avena barbata	slender wild oats	No	
Avena fatua	wild oats	No	
Briza maxima	rattle snake grass	No	
Bromus arenarius	Australian chess	No	
Bromus carinatus	California brome	Yes	
Bromus diandrus	ripgut brome	No	
Bromus hordeaceus	soft chess brome	No	
Bromus madritensis	Spanish brome	No	
Bromus rubens	red brome	No	
Bromus tectorum	Cheatgrass	No	
Distichlis spicata	saltgrass	Yes	
Festuca bromoides	brome fescue	No	

Scientific Name*	Common Name	Native	Species Status
Festuca microstachys	small fescue	Yes	
Festuca myuros	rattail fescue	No	
Festuca perennis	Italian ryegrass	No	
Hordeum brachyantherum	meadow barley	Yes	
Hordeum murinum ssp. leporinum	foxtail	No	
Hordeum marinum ssp. gussoneanum	Mediterranean barley	No	
Melica imperfecta	melic grass	Yes	
Poa bulbosa	Bulbous blue grass	No	
Poa secunda	Pine bluegrass	Yes	
Polypogon monspelliensis	Rabbit foot grass	No	
Stipa pulchra	purple needle-grass	Yes	
Stipa cernua	nodding needle grass	Yes	
Typhaceae	Cattail family		
Typha latifolia	cattail	Yes	

*Vascular Plants nomenclature follows "The Jepson Manual" and http://ucjeps.berkeley.edu/interchange.html.

Table A-3. Flora CompendiumPaso Robles-Templeton Creston Route Alternative

Scientific Name*	Common Name	Native	Species Status
GYMNOSPERMS			
Pinaceae	Pine family		
Pinus pinea	Italian stone pine	No	
Taxodiaceae	Bald cypress family		
Sequoia sempervirens	coast redwood	Yes	
ANGIOSPERMS (DICOTS)			
Aizoaceae	Fig-marigold family		
Carpobrotus chilensis	ice plant	No	
Amaranthaceae	Amaranth family		
Amaranthus albus	tumbleweed	No	
Amaranthus retroflexus	green amaranthus	No	
Anacardiaceae	Sumac family		
Rhus aromatic	skunkbrush	Yes	
Rhus integrifolia	lemonaid berry	Yes	
Schinus molle	Peruvian pepper tree	No	
Toxicodendron diversilobum	poison oak	Yes	
Apiaceae	Carrot family		
Anthriscus caucalis	bur chivel	No	
Bowlesia incana	bowlesia	Yes	
Conium maculatum	Poison hemlock	No	
Daucus pusillus	rattle snake weed	Yes	
Eryngium vaseyi	coyote thistle	Yes	
Foeniculum vulgare	sweet fennel	No	
Lomatium californicum	California lomatium	Yes	
Sanicula bipinnata	Poison sanicle	Yes	
Sanicula bipinnatafida	Purple sanicle	Yes	
Sanicula crassicaulis	Pacific sanicle	Yes	
Torilis arvensis	field hedge parsley	No	
Apocynaceae	Dogbane family		
Vinca major	greater periwinkle	No	
Asclepiadaceae	Milkweed family		
Asclepias fascicularis	narrow-leaf milkweed	Yes	
Asclepias vestita	woolly milkweed	Yes	

Scientific Name*	Common Name	Native	Species Status
Asteraceae	Sunflower family		
Achillea millefolium	yarrow	Yes	
Achyrachaena mollis	blow-wives	Yes	
Ambrosia acanthicarpa	annual burweed	Yes	
Anthemis cotula	Dog fennel	No	
Baccharis pilularis ssp. consanguinea	Coyote brush	Yes	
Baccharis salicifolia	Mule fat	Yes	
Carduus pycnocephalus	Italian thistle	No	
Carduus tenuiflorus	Slender flowered thistle	No	
Centaurea melitensis	Tocalote	No	
Centaurea solstitialis	Yellow starthistle	No	
Centromadia pungens	Common spikeweed	Yes	
Cirsium vulgare	Bull thistle	No	
Corethrogyne filaginifolia	sandaster	Yes	
Cotula coronopifolia	Brass buttons	No	
Deinandra fasciculata	clustered tarweed	Yes	
Erigeron bonariensis	flax-leaved horseweed	No	
Erigeron canadensis	horseweed	Yes	
Erigeron foliosus	leafy fleabane	Yes	
Erigeron glaucus	seaside daisy	Yes	
Eriodictyon sp.	yerba santa	Yes	
Eriophyllum confertifolium	golden yarrow	Yes	
Helminthotheca echioides	bristly ox-tongue	No	
Heterotheca grandiflora	Telegraph weed	Yes	
Holocarpha heermannii	Heermann's tarweed	Yes	
Hypochaeris glabra	smooth cat's ear	No	
Hypochaeris radicata	rough cat's ear	No	
Lactuca saligna	slender lettuce	No	
Lactuca serriola	prickly lettuce	No	
Lagophylla ramosissima	Common hareleaf	Yes	
Logfia gallica	narrow-leafed filago	No	
Matricaria discoidea	Pineapple weed	Yes	
Micropus californicus var. californicus	slender cottonweed	Yes	
Microseris douglasii ssp. douglasii.	Douglas' microseris	yes	
Pseudognaphalium stramineum	cottonbatting plant	Yes	

Scientific Name*	Common Name	Native	Species Status
Psilocarphus tenellus	Slender woolly marbles	Yes	
Senecio vulgaris	ragwort	No	
Silybum marianum	milk thistle	No	
Sonchus asper	spiny sow thistle	No	
Sonchus oleraceus	sow thistle	No	
Stephanomeria virgata	wire-lettuce	Yes	
Taraxacum officinale	dandelion	No	
Xanthium spinosum	spiny cocklebur	Yes	
Xanthium strumarium	cocklebur	Yes	
Uropappus lindleyi	silver puffs	Yes	
Wyethia helenoides	Whitehead wyethia	Yes	
Boraginaceae	Borage family		
Amsinckia intermedia	common fiddleneck	Yes	
Amsinckia menziesii	small flowered fiddleneck	Yes	
Heliotropium curassavicum	salt heliotrope	Yes	
Plagiobothrys acanthocarpus	Adobe popcorn flower	Yes	
Plagiobothrys canescens	valley popcorn flower	Yes	
Plagiobothrys nothofulvus	Rusty popcorn flower	Yes	
Brassicaceae	Mustard family		
Brassica nigra	black mustard	No	
Brassica rapa	field mustard	No	
Brassica tournefortii	Saharan mustard	No	
Capsella bursa-pastoris	shepherd's purse	No	
Hirschfeldia incana	summer mustard	No	
Lepidium didymium	Lesser swine cress	No	
Lepidium nitidum	Peppergrass	Yes	
Raphanus sativa	wild radish	No	
Thysanocarpus curvipes	lacepod	Yes	
Caprifoliaceae	Honeysuckle family		
Lonicera interrupta	honeysuckle	Yes	
Sambucus nigra	black elderberry	Yes	
Symphoricarpos mollis	creeping snowberry	Yes	
Caryophyllaceae	Pink family		
Cerastium glomeratum	Mouseear chickweed	No	
Silene gallica	catchfly	No	

Scientific Name*	Common Name	Native	Species Status
Spergularia arvensis	Corn spurry	No	
Spergularia rubra	red sand spurry	No	
Stellaria media	Chickweed	No	
Chenopodiaceae	Goosefoot family		
Chenopodium album	pigweed	No	
Chenopodium californicum	California pigweed	Yes	
Salsola tragus	Russian thistle	No	
Cistaceae	Rock-rose family		
Cistus monspeliensis	resinous rockrose	No	
Convolvulaceae	Morning glory family		
Convolvulus arvensis	bindweed	No	
Crassulaceae	Stonecrop family		
Crassula connata	Pigmy weed	Yes	
Cucurbitaceae	Gourd family		
Marah fabaceus var. fabaceus	wild cucumber	Yes	
Ericaceae	Heath family		
Arctostaphylos glauca	big berry manzanita	Yes	
Euphorbiaceae	Spurge family		
Croton setiger	doveweed/turkey mullein	Yes	
Euphorbia ocellata ssp. ocellata	valley spurge	Yes	
Fabaceae	Pea family		
Acmispon americanus	Spanish lotus	Yes	
Acmispon glaber	deer weed	Yes	
Acmispon strigosus	Strigose lotus	Yes	
Astragalus douglasii var. douglasii	Douglas's milkvetch	Yes	
Lathyrus odoratus	sweet pea	No	
Lotus corniculatus	Bird's foot trefoil		
Lupinus albifrons	silver lupine	Yes	
Lupinus bicolor	miniature lupine	Yes	
Lupinus hirsutissimus	stinging lupine	Yes	
Lupinus microcarpus var. microcarpus	chick lupine	Yes	
Lupinus nanus	sky lupine	Yes	
Lupinus succulentus	Succulent lupine	Yes	
Melilotus indica	sourclover	No	
Medicago polymorpha	bur clover	No	

Scientific Name*	Common Name	Native	Species Status
Trifolium albopurpureum	Indian clover	Yes	
Trifolium depauperatum	Dwarf sack clover	Yes	
Trifolium hirtum	rose clover	No	
Trifolium willdenovii	Tomcat clover	Yes	
Vicia hassei	Hasse's vetch	Yes	
Vicia sativa	spring vetch	No	
Vicia villosa	hairy vetch	No	
Fagaceae	Oak family		
Quercus agrifolia	coast live oak	Yes	
Quercus berberidifolia	scrub oak	Yes	
Quercus douglasii	blue oak	Yes	
Quercus lobata	valley oak	Yes	
Geraniaceae	Geranium family		
Erodium cicutarium	red-stemmed filaree	No	
Erodium moschatum	White-stem filaree	No	
Erodium botrys	filaree	No	
Erodium brachycarpum	Foothill filaree	No	
Geranium dissectum	cut leaf geranium	No	
Hydrophylaceae	Waterleaf family		
Phacelia distans	common phacelia	Yes	
Phacelia malviflora	stinging phacelia	Yes	
Pholistoma auritum	fiesta flower	Yes	
Pholistoma membranaceum	White fiesta flower	Yes	
Juglandaceae	Walnut family		
Juglans californica var californica	S. California black walnut	Yes	
Lamiaceae	Mint family		
Lamium amplexicaule	Henbit deadnettle	No	
Lavandula sp.	lavender	No	
Marrubium vulgare	horehound	No	
Stachys bullata	hedge nettle	Yes	
Trichostema lanceolatum	Vinegarweed	Yes	
Lauraceae	Laurel family		
Umbellaria californica	California bay	Yes	
Malvaceae	Mallow family		
Malva parviflora	cheeseweed	No	

Scientific Name*	Common Name	Native	Species Status
Montiaceae	Minor's lettuce family		
Claytonia perfoliata	miners lettuce	Yes	
Calandrinia menziesii	Red maids	Yes	
Myrsinaceae	Myrsine family		
Lysimachia arvensis	scarlet pimpernel	No	
Myrtaceae	Myrtle family		
Eucalyptus globules	blue gum	No	
Oleaceae	Ash family		
Olea europaea	olive	No	
Onagraceae	Evening primrose family		
Clarkia affinis	chaparral fairyfan	Yes	
Clarkia bottae	punch bowl clarkia	Yes	
Clarkia purpurea ssp quadrivulnera	purple clarkia	Yes	
Clarkia speciosa	red spotted clarkia	Yes	
Clarkia unguiculata	elegant clarkia	Yes	
Epilobium canum	California fuchsia	Yes	
Eremothera boothii ssp. decorticans	shredding evening primrosa	Yes	
Orobanchaceae	Broomrape Family		
Castilleja attenuata	Narrow leaved owls clover	Yes	
Oxalidaceae	Woodsorrel family		
Oxalis pes-caprae	Bermuda buttercup	No	
Papaveraceae	Poppy family		
Eschscholzia californica	California poppy	Yes	
Platystemon californicus	Cream cups	Yes	
Plantaginaceae	Plantain family		
Collinsia heterophylla	Chinese houses	Yes	
Plantago erecta	California plantain	Yes	
Plantago lanceolata	English plantain	No	
Veronica anagalis-aquatica	Water speedwell	No	
Veronica arvensis	Speedwell	No	
Plantanaceae	Sycamore family		
Platanus racemosa	western sycamore	Yes	
Polemoniaceae	Phlox family		
Gilia tricolor	Tricolor gilia	Yes	

Scientific Name*	Common Name	Native	Species Status
Navarretia atractyloides	holly leaf navarretia	Yes	
Polygonaceae	Buckwheat family		
Chorizanthe membranacea	pink spineflower	Yes	
Eriogoinum fasciculatum	California buckwheat	Yes	
Eriogonum gracillimum	slender-stemmed buckwheat	Yes	
Eriogonum nudum	naked buckwheat	Yes	
Eriogonum roseum	wand buckwheat	Yes	
Polygonum aviculare	prostrate knotweed	No	
Rumex acetosella	sheep sorrel	No	
Rumex crispus	curly dock	No	
Rumex pulcher	fiddle dock	No	
Ranunculaceae	Buttercup family		
Delphinium parryi ssp. parryi	San Berbardino larkspur	Yes	
Ranunculus californicus	California buttercup	Yes	
Rhamnaceae	Buckthorn family		
Ceanothus cuneatus var. cuneatus	wedgeleaf ceanothus	Yes	
Frangula californica	coffeeberry	Yes	
Rhamnus ilicifolia	evergreen buckthorn	Yes	
Rosaceae	Rose family		
Heteromeles arbutifolia	toyon	Yes	
Prunus ilicfolia	Holly leaf cherry	yes	
Rosa californica	California wild rose	Yes	
Rubiaceae	Madder family		
Galium aparine	goose grass	Yes	
Salicaceae	Willow family		
Populus fremontii ssp. fremontii	Fremont's cottonwood	Yes	
Salix exigua	sandbar willow	Yes	
Salix lasiandra	red willow	Yes	
Salix lasiolepis	arroyo willow	Yes	
Salix laevigata	red willow	Yes	
Saxifragaceae	Saxifrage Family		
Lithophragma sp.	Woodland star	Yes	
Scrophulariaceae	Figwort family		
Verbascum thapsus	common mullein	No	

Scientific Name*	Common Name	Native	Species Status
Solanaceae	Nightshade family		
Datura wrightii	jimson weed	Yes	
Nicotiana acuminate	manyflowered tobacco	No	
Solanum americanum	American black nightshade	Yes	
Urticaceae	Nettle family		
Urtica urens	dwarf nettle	No	
Verbenaceae	Verbena family		
Verbena lasiostachys	common vervain	No	
Violoaceae	Violet family		
Viola pedunculata	Johnny jump-up	Yes	
Viscaceae	Mistletoe family		
Phoradendron villosum	oak mistletoe	Yes	
Vitaceae	Grape family		
Vitis sp.	cultivated grape	Unknown	
ANGIOSPERMS (MONOCOTS)			
Agavaceae	Century plant family		
Chlorogalum pomeridianum	Soap plant	Yes	
Cyperaceae	Sedge family		
Eleocharis macrostachya	common spikerush	Yes	
Eleocharis parishii	spikerush	Yes	
Schoenoplectus americanus	bulrush	Yes	
Iridaceae	Iris Family		
Sisyrinchium bellum	Blue eyed grass	Yes	
Liliaceae	Lily family		
Bloomeria crocea	common goldenstar	Yes	
Brodiaea terrestris	dwarf brodiaea	Yes	
Calochortus luteus	yellow mariposa lily	Yes	
Dichelostemma capitatum	blue dicks	Yes	
Juncaceae	Rush family		
Juncus bufonius	Toad rush	Yes	
Juncus patens	Rush	Yes	
Juncus xiphiodes	Irish leaved rush	Yes	
Poaceae	Grass family		
Avena barbata	slender wild oats	No	

Scientific Name*	Common Name	Native	Species Status
Avena fatua	wild oats	No	
Briza maxima	rattle snake grass	No	
Briza minor	Little rattlesnake grass	No	
Bromus arenarius	Australian chess	No	
Bromus carinatus	California brome	Yes	
Bromus diandrus	ripgut brome	No	
Bromus hordeaceus	soft chess brome	No	
Bromus madritensis	Spanish brome	No	
Bromus rubens	red brome	No	
Bromus tectorum	Cheatgrass	No	
Distichlis spicata	saltgrass	Yes	
Elymus glaucus	Blue wild rye	Yes	
Elymus hispidus	Intermediate wheatgrass	No	
Elymus triticoides	Creeping wildrye	Yes	
Festuca bromoides	brome fescue	No	
Festuca microstachys	small fescue	Yes	
Festuca myuros	rattail fescue	No	
Festuca perennis	Italian ryegrass	No	
Hordeum brachyantherum	meadow barley	Yes	
Hordeum murinum ssp. leporinum	foxtail	No	
Hordeum marinum ssp. gussoneanum	Mediterranean barley	No	
Melica imperfecta	melic grass	Yes	
Poa bulbosa	Bulbous blue grass	No	
Poa secunda	Pine bluegrass	Yes	
Polypogon monspelliensis	Rabbit foot grass	No	
Schismus arabicus	Mediterranean grass	No	
Stipa pulchra	purple needle-grass	Yes	
Stipa cernua	nodding needle grass	Yes	
Typhaceae	Cattail family		
Typha latifolia	cattail	Yes	

*Vascular Plants nomenclature follows "The Jepson Manual" and http://ucjeps.berkeley.edu/interchange.html.

Table A-4. Flora CompendiumTempleton Substation Alternative

Scientific Name*	Common Name	Native	Species Status
ANGIOSPERMS (DICOTS)			
Anacardiaceae	Sumac family		
Rhus aromatic	skunkbrush	Yes	
Apiaceae	Carrot family		
Bowlesia incana	bowlesia	Yes	
Conium maculatum	poison hemlock	No	
Daucus pusillus	rattle snake weed	Yes	
Foeniculum vulgare	sweet fennel	No	
Sanicula bipinnata	Poison sanicle	Yes	
Sanicula crassicaulis	Pacific sanicle	Yes	
Torilis arvensis	field hedge parsley	No	
Apocynaceae	Dogbane Family		
Asclepias fascicularis	Narrow leaf milkweed	Yes	
Asteraceae	Sunflower family		
Achillea millefolium	yarrow	Yes	
Agoseris heterophylla	Mountain dandelion	Yes	
Artemisia douglasiana	mugwort	Yes	
Baccharis pilularis ssp. consanguinea	Coyote brush	Yes	
Baccharis salicifolia	mule fat	Yes	
Carduus pycnocephalus	Italian thistle	No	
Centaurea melitensis	Tocalote	No	
Centaurea solstitialis	Yellow starthistle	No	
Corethrogyne filaginifolia	California aster	Yes	
Hypochaeris glabra	smooth cat's ear	No	
Lactuca serriola	prickly lettuce	No	
Matricaria discoidea	Pineapple weed	Yes	
Senecio vulgaris	ragwort	No	
Silybum marianum	milk thistle	No	
Sonchus asper	Prickly sow thistle	No	
Sonchus oleraceus	Sow thistle	No	
Boraginaceae	Borage family		
Amsinckia menziesii	small flowered fiddleneck	Yes	

Scientific Name*	Common Name	Native	Species Status
Plagiobothrys acanthocarpus	Adobe allocarya	Yes	
Plagiobothrys canescens	valley popcorn flower	Yes	
Plagiobothrys nothofulvus	Rusty popcorn flower	Yes	
Brassicaceae	Mustard family		
Brassica nigra	black mustard	No	
Capsella bursa-pastoris	shepherd's purse	No	
Hirschfeldia incana	summer mustard	No	
Lepidium strictum	peppergrass	Yes	
Sinapis arvensis	Charlock	No	
Caprifoliaceae	Honeysuckle family		
Lonicera sp.	honeysuckle		
Sambucus nigra	black elderberry	Yes	
Symphoricarpos mollis	creeping snowberry	Yes	
Caryophyllaceae	Pink family		
Cerastium glomeratum	Mouse ears chickweed	No	
Silene gallica	Windmill pink	No	
Stellaria media	Chickweed	No	
Chenopodiaceae	Goosefoot family		
Chenopodium californicum	California pigweed	Yes	
Salsola tragus	Russian thistle	No	
Convolvulaceae	Morning glory family		
Convolvulus arvensis	bindweed	No	
Crassulaceae	Stonecrop family		
Crassula connata	Pygmy weed	yes	
Euphorbiaceae	Spurge family		
Croton setiger	doveweed/turkey mullein	Yes	
Fabaceae	Pea family		
Acmispon americanus	Spanish lotus	Yes	
Lathyrus odoratus	sweet pea	No	
Lupinus bicolor	miniature lupine	Yes	
Lupinus microcarpus var. microcarpus	chick lupine	Yes	
Lupinus nanus	sky lupine	Yes	
Lupinus succulentus	Succulent lupine	Yes	
Medicago polymorpha	bur clover	No	
Trifolium hirtum	rose clover	No	

Scientific Name*	Common Name	Native	Species Status
Vicia villosa	hairy vetch	No	
Fagaceae	Oak family		
Quercus agrifolia	coast live oak	Yes	
Quercus lobata	valley oak	Yes	
Geraniaceae	Geranium family		
Erodium cicutarium	red-stemmed filaree	No	
Erodium moschatum	White-stem filaree	No	
Erodium botrys	filaree	No	
Erodium brachycarpum	foothill filaree	No	
Geranium dissectum	cut leaf geranium	No	
Lamiaceae	Mint family		
Lamium amplexicaule	henbit	No	
Marrubium vulgare	horehound	No	
Malvaceae	Mallow family		
Malva parviflora	cheeseweed	No	
Montiaceae	Minor's lettuce family		
Calandrinia menziesii	Red maids	Yes	
Claytonia perfoliata	miners lettuce	Yes	
Myrsinaceae	Myrsine family		
Lysimachia arvensis	scarlet pimpernel	No	
Oleaceae	Ash family		
Olea europaea	olive	No	
Onagraceae	Evening Primrose Family		
Clarkia sp.	Clarkia		
Orobanchaceae	Broomrape Family		
Castilleja attenuata	Narrow leaved owls clover	Yes	
Papaveraceae	Poppy family		
Eschscholzia californica	California poppy	Yes	
Plantaginaceae	Plantain family		
Platago erecta	California plantain	Yes	
Plantago lanceolata	English plantain	No	
Veronica anagallis-aquatica	Water speedwell	No	
Veronica arvensis	Speedwell	No	
Polygonaceae	Buckwheat family		

Scientific Name*	Common Name	Native	Species Status
Polygonum aviculare	prostrate knotweed	No	
Rumex crispus	curly dock	No	
Rumex pulcher	fiddle dock	No	
Ranunculaceae	Buttercup family		
Ranunculus californicus	California buttercup	Yes	
Rosaceae	Rose family		
Rosa californica	California wild rose	Yes	
Rubiaceae	Madder family		
Galium aparine	goose grass	Yes	
Galium parisiense	Wall bedstraw	No	
Salicaceae	Willow family		
Populus fremontii ssp. fremontii	Fremont's cottonwood	Yes	
Simaroubaceae	Simarouba family		
Ailanthus altissima	Tree of heaven	No	
Verbenaceae	Verbena family		
Verbena lasiostachys	common vervain	No	
Violoaceae	Violet family		
Viola pedunculata	Johnny jump-up	Yes	
ANGIOSPERMS (MONOCOTS)			
Agavaceae	Century plant family		
Chlorogalum pomeridianum	Soap plant	Yes	
Cactaceae	Cactus family		
Opunita ficus-indica	Mission cactus	No	
Cyperaceae	Sedge family		
Eleocharis macrostachya	spikerush	Yes	
Iridaceae	Iris Family		
Sisyrinchium bellum	Blue eyed grass	Yes	
Liliaceae	Lily Family		
Brodiaea terrestris	dwarf brodiaea	Yes	
Dichelostemma capitatum	blue dicks	Yes	
Juncaceae	Rush family		
Juncus sp.	rush	Yes	
Poaceae	Grass family		
Avena barbata	slender wild oats	No	
Avena fatua	wild oats	No	

Scientific Name*	Common Name	Native	Species Status
Avena sativa	cultivated oat	No	
Bromus diandrus	ripgut brome	No	
Bromus madritensis rubens	Spanish brome	No	
Bromus tectorum	Cheatgrass	No	
Elymus triticoides	Beardless wild rye	Yes	
Festuca microstachys	Small fescue	Yes	
Festuca myuros	rattail fescue	No	
Hordeum murinum ssp. leporinum	foxtail	No	
Hordeum vulgare	Common barley	No	
Melica imperfecta	melic grass	Yes	
Muhlenbergia rigens	deergrass	Yes	
Poa annua	Annual bluegrass	No	
Poa secunda	Pine bluegrass	Yes	
Stipa pulchra	Purple needle-grass	Yes	

*Vascular Plants nomenclature follows "The Jepson Manual" and http://ucjeps.berkeley.edu/interchange.html.

Appendix B. Fauna Compendium This page intentionally left blank

Table B-1. Fauna CompendiumPaso Robles-Templeton Existing 70 kV Route Alternative

Common Name	Scientific Name
BIRDS	
Anatidae	
mallard	Anas platyrhynchos
Bombycillidae	
Cedar waxwing	Bombycilla cedrorum
Odontophoridae	
California quail	Callipepla californica
Cathartidae	
turkey vulture	Cathartes aura
Accipitridae	
golden eagle**	Aquila chrysaetos
red-tailed hawk	Buteo jamaicensis
Falconiformes	
prairie falcon	Falco mexicanus
Rallidae	
sora	Porzana carolina
Charadriidae	
killdeer	Charadrius vociferus
Columbidae	
mourning dove	Zenaida macroura
Eurasian collared dove*	Streptopelia decaocto
Apodidae	
white-throated swift	Aeronautes saxatalis
Picidae	
acorn woodpecker	Melanerpes formicivorus
downy woodpecker	Picoides pubescens
hairy woodpecker	Picoides villosus
northern flicker	Colaptes auratus
Strigidae	
Great horned owl	Bubo virginianus
Troglodytidae	

Common Name	Scientific Name
Bewick's wren	Thryomanes bewickii
Tyrannidae	
black phoebe	Sayornis nigricans
western kingbird	Tyrannus verticalis
western wood-pewee	Contopus sordidulus
pacific-slope flycatcher	Empidonax difficilis
ash-throated flycatcher	Myiarchus cinerascens
Paridae	
oak titmouse	Baeolophus inornatus
Laniidae	
loggerhead shrike	Lanius Iudovicianus
Corvidae	
California scrub-jay	Aphelocoma californica
American crow	Corvus brachyrhynchos
Hirundinidae	
barn swallow	Hirundo rustica
cliff swallow	Petrochelidon pyrrhonota
tree swallow	Tachycineta bicolor
Sittidae	
white-breasted nuthatch	Sitta carolinensis
Turdidae	
western bluebird	Sialia mexicana
Mimidae	
northern mockingbird	Mimus polyglottos
California thrasher	Toxostoma redivivum
Sturnidae	
European starling*	Sturnus vulgaris
Emberizidae	
spotted towhee	Pipilo maculatus
California towhee	Melozone crissalis
savannah sparrow	Passerculus sandwichensis
white-crowned sparrow	Zonotrichia leucophrys

Common Name	Scientific Name
song sparrow	Melospiza melodia
Icteridae	
red-winged blackbird	Agelaius phoeniceus
Brewer's blackbird	Euphagus cyanocephalus
western meadowlark	Sturnella neglecta
Fringillidae	
house finch	Haemorhous mexicanus
lesser goldfinch	Spinus psaltria
Passerellidae	
Dark eyed junco	Junco hyemalis
Passeridae	
house sparrow*	Passer domesticus
MAMMALS	
Canidae	
coyote	Canis latrans
Felidae	
bobcat	Lynx rufus
domestic cat*	Felis catus
Cervidae	
mule deer	Odocoileus hemionus
Sciuridae	
California ground squirrel	Otospermophilus beecheyi
Leporidae	
brush rabbit	Sylvilagus bachmani
Procyonidae	
raccoon	Procyon lotor
Taxideainae	
American badger**	Taxidea taxus
Didelphidae	
Virginia opossum	Didelphis virginiana
AMPHIBIANS	
Bufonidae	

Common Name	Scientific Name
western toad	Anaxyrus boreas
Hulidae	
northern pacific treefrog	Pseudacris regilla
Ranidae	
American bullfrog*	Lithobates catesbeianus
REPTILES	
Phrynosomatidae	
western fence lizard	Sceloporus occidentalis
INSECTS	
Acrididae	
short-horned grasshopper	Unknown
Papilionidae	
western tiger swallowtail	Papilio rutulus
FISH	
Cyprinidae	
koi*	Cyprinus carpio
Centrarchidae	
bluegill*	Lepomis macrochirus
largemouth bass*	Micropterus salmoides
*Introduced species	

**Special-status species

Table B-2. Fauna CompendiumPaso Robles-Templeton South River Route Alternative

Common Name	Scientific Name
BIRDS	
Anatidae	
mallard	Anas platyrhynchos
Odontophoridae	
California quail	Callipepla californica
Cathartidae	
turkey vulture	Cathartes aura
Accipitridae	
red-tailed hawk	Buteo jamaicensis
Charadriidae	
killdeer	Charadrius vociferus
Columbidae	
mourning dove	Zenaida macroura
Eurasian collared dove*	Streptopelia decaocto
Apodidae	
white-throated swift	Aeronautes saxatalis
Picidae	
acorn woodpecker	Melanerpes formicivorus
downy woodpecker	Picoides pubescens
hairy woodpecker	Picoides villosus
northern flicker	Colaptes auratus
Tyrannidae	
black phoebe	Sayornis nigricans
western kingbird	Tyrannus verticalis
western wood-pewee	Contopus sordidulus
ash-throated flycatcher	Myiarchus cinerascens
Paridae	
oak titmouse	Baeolophus inornatus
Laniidae	
loggerhead shrike	Lanius Iudovicianus

Common Name	Scientific Name
Corvidae	
western scrub-jay	Aphelocoma californica
American crow	Corvus brachyrhynchos
Hirundinidae	
barn swallow	Hirundo rustica
cliff swallow	Petrochelidon pyrrhonota
tree swallow	Tachycineta bicolor
Sittidae	
white-breasted nuthatch	Sitta carolinensis
Turdidae	
western bluebird	Sialia mexicana
Mimidae	
northern mockingbird	Mimus polyglottos
California thrasher	Toxostoma redivivum
Sturnidae	
European starling*	Sturnus vulgaris
Emberizidae	
spotted towhee	Pipilo maculatus
California towhee	Melozone crissalis
savannah sparrow	Passerculus sandwichensis
white-crowned sparrow	Zonotrichia leucophrys
song sparrow	Melospiza melodia
Icteridae	
red-winged blackbird	Agelaius phoeniceus
Brewer's blackbird	Euphagus cyanocephalus
Bullock's oriole	Icterus bullockii
western meadowlark	Sturnella neglecta
Certhiidae	
brown creeper	Certhia americana
Fringillidae	
house finch	Haemorhous mexicanus
lesser goldfinch	Spinus psaltria

Common Name	Scientific Name
Troglodytidae	
house wren	Troglodytes aedon
Anna's hummingbird	Calypte anna
Passeridae	
house sparrow*	Passer domesticus
Lincoln's sparrow	Melospiza lincolnii
rufous-crowned sparrow	Aimophila ruficeps
MAMMALS	
Canidae	
coyote	Canis latrans
Felidae	
bobcat	Lynx rufus
domestic cat*	Felis catus
Cervidae	
mule deer	Odocoileus hemionus
Sciuridae	
California ground squirrel	Otospermophilus beecheyi
Leporidae	
brush rabbit	Sylvilagus bachmani
Procyonidae	
raccoon	Procyon lotor
Didelphidae	
Virginia opossum	Didelphis virginiana
AMPHIBIANS	
Hulidae	
northern pacific treefrog	Pseudacris regilla
Ranidae	
American bullfrog*	Lithobates catesbeianus
REPTILES	
Phrynosomatidae	
western fence lizard	Sceloporus occidentalis
INSECTS	

Common Name	Scientific Name
Acrididae	
short-horned grasshopper	Unknown
Papilionidae	
western tiger swallowtail	Papilio rutulus
FISH	
Cyprinidae	
koi*	Cyprinus carpio
Centrarchidae	
bluegill*	Lepomis macrochirus
largemouth bass*	Micropterus salmoides

*Introduced species **Special-status species

Table B-3. Fauna CompendiumPaso Robles-Templeton Creston Route Alternative

Common Name	Scientific Name
BIRDS	
Anatidae	
mallard	Anas platyrhynchos
Ardeidae	
Ardea alba	Great egret
Odontophoridae	
California quail	Callipepla californica
Cathartidae	
turkey vulture	Cathartes aura
Accipitridae	
red-tailed hawk	Buteo jamaicensis
Charadriidae	
killdeer	Charadrius vociferus
Columbidae	
mourning dove	Zenaida macroura
Eurasian collared dove*	Streptopelia decaocto
Apodidae	
white-throated swift	Aeronautes saxatalis
Picidae	
acorn woodpecker	Melanerpes formicivorus
downy woodpecker	Picoides pubescens
hairy woodpecker	Picoides villosus
northern flicker	Colaptes auratus
Tyrannidae	
ash-throated flycatcher	Myiarchus cinerascens
black phoebe	Sayornis nigricans
western kingbird	Tyrannus verticalis
western wood-pewee	Contopus sordidulus
Paridae	
oak titmouse	Baeolophus inornatus
Laniidae	

Common Name	Scientific Name
loggerhead shrike	Lanius Iudovicianus
Corvidae	
western scrub-jay	Aphelocoma californica
American crow	Corvus brachyrhynchos
Hirundinidae	
barn swallow	Hirundo rustica
cliff swallow	Petrochelidon pyrrhonota
tree swallow	Tachycineta bicolor
Sittidae	
white-breasted nuthatch	Sitta carolinensis
Turdidae	
western bluebird	Sialia mexicana
Mimidae	
northern mockingbird	Mimus polyglottos
California thrasher	Toxostoma redivivum
Sturnidae	
European starling*	Sturnus vulgaris
Emberizidae	
California towhee	Melozone crissalis
savannah sparrow	Passerculus sandwichensis
white-crowned sparrow	Zonotrichia leucophrys
song sparrow	Melospiza melodia
Icteridae	
red-winged blackbird	Agelaius phoeniceus
Brewer's blackbird	Euphagus cyanocephalus
western meadowlark	Sturnella neglecta
Trochilidae	
Anna's hummingbird	Calypte anna
Fringillidae	
house finch	Haemorhous mexicanus
lesser goldfinch	Spinus psaltria
Passeridae	

Common Name	Scientific Name
house sparrow*	Passer domesticus
MAMMALS	
Canidae	
coyote	Canis latrans
Felidae	
bobcat	Lynx rufus
domestic cat*	Felis catus
Cervidae	
mule deer	Odocoileus hemionus
Sciuridae	
California ground squirrel	Otospermophilus beecheyi
Leporidae	
black-tailed jackrabbit	Lepus californicus
brush rabbit	Sylvilagus bachmani
Procyonidae	
raccoon	Procyon lotor
Didelphidae	
Virginia opossum	Didelphis virginiana
AMPHIBIANS	
Hulidae	
northern pacific treefrog	Pseudacris regilla
Ranidae	
American bullfrog*	Lithobates catesbeianus
REPTILES	
Phrynosomatidae	
western fence lizard	Sceloporus occidentalis
INSECTS	
Acrididae	
short-horned grasshopper	Unknown
Papilionidae	
western tiger swallowtail	Papilio rutulus
FISH	

Common Name	Scientific Name
Cyprinidae	
koi*	Cyprinus carpio
Centrarchidae	
bluegill*	Lepomis macrochirus
largemouth bass*	Micropterus salmoides

*Introduced species **Special-status species

Table B-4. Fauna Compendium Templeton Substation

Common Name	Scientific Name
BIRDS	
Aegithalidae	
Bushtit	Psaltriparus minimus
Odontophoridae	
California quail	Callipepla californica
Cathartidae	
turkey vulture	Cathartes aura
Phasianidae	
Wild turkey	Meleagris gallopavo
Accipitridae	
red-tailed hawk	Buteo jamaicensis
Red-shouldered hawk	Buteo lineatus
bald eagle	Haliaeetus leucocephalus
Charadriidae	
killdeer	Charadrius vociferus
Columbidae	
mourning dove	Zenaida macroura
Eurasian collared dove*	Streptopelia decaocto
Rock pigeon	Columba livia
Picidae	
acorn woodpecker	Melanerpes formicivorus
Nuttall's woodpecker	Picoides nuttallii
northern flicker	Colaptes auratus
Tyrannidae	
ash-throated flycatcher	Myiarchus cinerascens
black phoebe	Sayornis nigricans
Paridae	
oak titmouse	Baeolophus inornatus
Corvidae	
California scrub-jay	Aphelocoma californica
common raven	Corvus corax

Common Name	Scientific Name
Yellow-billed magpie	Pica nuttalli
Hirundinidae	
Violet-green swallow	Tachycineta thalassina
Regulidae	
Ruby-crowned kinglet	Regulus calendula
Sittidae	
white-breasted nuthatch	Sitta carolinensis
Troglodytidae	
House wren	Troglodytes aedon
Turdidae	
western bluebird	Sialia mexicana
Mimidae	
Northern mockingbird	Mimus polyglottos
Sturnidae	
European starling*	Sturnus vulgaris
Passerellidae	
Dark-eyed junco	Junco hyemalis
California towhee	Melozone crissalis
white-crowned sparrow	Zonotrichia leucophrys
Golden-crowned sparrow	Zonotichia atricapilla
Icteridae	
western meadowlark	Sturnella neglecta
Trochilidae	
Anna's Hummingbird	Calypte anna
Fringillidae	
house finch	Haemorhous mexicanus
lesser goldfinch	Spinus psaltria
MAMMALS	
Mustelidae	
American badger	Taxidea taxus
Leporidae	
brush rabbit	Sylvilagus bachmani
Common Name

Scientific Name

AMPHIBIANS

Bufonidae

California toad

Hulidae

northern pacific treefrog

Pseudacris regilla

Anaxyrus boreas halophilus

*Introduced species **Special-status species

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Appendix C. Photo Documentation

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Photo 1 (Paso Robles-Templeton Existing 70 kV Route Alternative): View facing north of the Salinas River where one of the two the BSA segments overlaps within the riparian corridor.



Photo 2 (Paso Robles-Templeton Existing 70 kV Route Alternative): View facing north of the Salinas River where one of the two BSA segments overlaps within the riparian corridor.



Photo 3 (Paso Robles-Templeton Existing 70 kV Route Alternative): View facing north of an approximately 800-foot by 300-foot seasonal wetland depression within grassland habitat along Lake Ysabel Road.



Photo 4 (Paso Robles-Templeton Existing 70 kV Route Alternative): View facing southeast of the eucalyptus tree where a golden eagle nest is located approximately 200 feet east of the BSA on Santa Ysabel Road.



Photo 5 (Paso Robles-Templeton Existing 70 kV Route Alternative): View facing southwest, where the route alternative would tie into Paso Robles Substation.



Photo 6 (Paso Robles-Templeton South River Route Alternative): View facing southwest (downstream) of Spanish Camp Creek (CRLF Site #1). May be suitable breeding and non-breeding habitats for California red-legged frogs and western pond turtles, as well as foraging habitat for other special-status species.



Photo 7 (Paso Robles-Templeton South River Route Alternative): View facing east (upstream) of Spanish Camp Creek along the north side of South River Road. May be suitable breeding and non-breeding habitats for California red-legged frogs and western pond turtles, as well as foraging habitat for other special-status species.



Photo 8 (Paso Robles-Templeton South River Route Alternative): View facing west along the south side of South River Road within the BSA.



Photo 9 (Paso Robles-Templeton South River Route Alternative): View facing east along the south side of South River Road within the BSA.



Photo 10 (Paso Robles-Templeton South River Route Alternative): View facing south of an intermittent drainage observed in the BSA that may be subject to USACE and CDFW jurisdiction, and may be a suitable migration corridor for dispersal of species.



Photo 11 (Paso Robles-Templeton South River Route Alternative): View facing southeast of the vineyard just north of the existing Templeton Substation.



Photo 12 (Paso Robles-Templeton Creston Route Alternative): View facing west on the south side of Creston Road within the BSA. Intermittent housing surrounded by open areas and blue oak woodlands occur along the south side, while residential developments are located on the north side of the road.



Photo 13 (Paso Robles-Templeton Creston Route Alternative): View showing a man-made fountain pond (CRLF Site# 2) on Creston Road that may be suitable breeding and non-breeding habitats for California red-legged frogs.



Photo 14 (Paso Robles-Templeton Creston Route Alternative): View facing southwest of a large freshwater pond within the LCSLO conservation easement (CRLF Site #5) that may be

suitable breeding and non-breeding habitats for California red-legged frog, western pond turtles, and tricolored blackbirds, as well as foraging habitat for other special-status species.



Photo 15 (Paso Robles-Templeton Creston Route Alternative): View showing an example of a small mammal burrow with an entrance 4 inches diameter or larger observed along the route alternative within the BSA.



Photo 16 (Paso Robles-Templeton Creston Route Alternative): View facing south of a seasonal emergent wetland with culvert drainages to the east and south, with an adjoining cattle pond that extends west of the BSA (CRLF Site #7). May be suitable breeding and non-breeding habitats for California red-legged frogs, western pond turtles and vernal pool species, as well as foraging habitat for other special-status species.



Photo 17 (Paso Robles-Templeton Creston Route Alternative): View facing south along the route alternative showing grassland habitat and surrounding landscape communities within the BSA.

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Appendix D. National Wetlands Inventory (NWI) and National Hydrography Dataset (NHD) Map

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35°36'0"N

35°37'20"N

35°37'20"N



Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Existing 70kV Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook







- Lake/Pond
- Wash

National Wetlands Inventory

- Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond
 - Riverine



Prepared by SWCA Environmental Consultants (12/27/2018, 1:12:39 PM) - NAD 1983 UTM Zone 10N File: Existing70kV_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset





Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Existing 70kV Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook





Paso Robles-Templeton Existing 70 kV Route Alternative

National Hydrography Dataset

- Artificial Path
- Stream/River
- Lake/Pond
- 💋 Wash

National Wetlands Inventory

Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Riverine



35°35'20"N

35°34'40"N

Prepared by SWCA Environmental Consultants (12/27/2018, 1:12:44 PM) - NAD 1983 UTM Zone 10N File: Existing70kV_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory, National Hydrography Dataset





Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Existing 70kV Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook



- Biological Study Area Paso Robles-Templeton Existing 70 kV Route Alternative
- Templeton Substation National Hydrography Dataset
- Artificial Path Stream/River Lake/Pond
- Wash

National Wetlands Inventory

Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Riverine

Paso Robles

Prepared by SWCA Environmental Consultants (12/27/2018, 1:12:48 PM) - NAD 1983 UTM Zone 10N File: Existing70kV_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset



120°40'40"W



120°41'20"W

Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton South River Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook



- Paso Robles Substation National Hydrography Dataset
- Artificial Path Connector Stream/River
- Lake/Pond



National Wetlands Inventory

- Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond
- Riverine

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Paso Robles

120°40'0"W



120°40'0"W

120°40'40"W



Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton South River Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook



Paso Robles-Templeton South River Route Alternative

National Hydrography Dataset

- Artificial Path
- Stream/River
- Lake/Pond
- Wash

National Wetlands Inventory

- Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond
- Riverine



120°39'20"W

Prepared by SWCA Environmental Consultants (12/27/2018, 1:25:01 PM) - NAD 1983 UTM Zone 10N File: SouthRiver_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset





Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton South River Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook

Legend

- Biological Study Area Paso Robles-Templeton South River Route Alternative Templeton Substation National Hydrography Dataset Artificial Path Stream/River Lake/Pond
 - Wash

National Wetlands Inventory

Freshwater Emergent Wetland Freshwater Forested/Shrub Wetland Freshwater Pond Riverine



35°34'0"N

Prepared by SWCA Environmental Consultants (12/27/2018, 1:25:05 PM) - NAD 1983 UTM Zone 10N File: SouthRiver_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset



120°40'40"W

35°36'40"N



120°41'20"W

Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Creston Route . Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook





120°40'0"W

Prepared by SWCA Environmental Consultants (12/27/2018, 1:22:29 PM) - NAD 1983 UTM Zone 10N File: Creston_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset



120°39'20"W

 Image: Non-State State St

120°40'0"W

Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Creston Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook

Legend





120°38'40"W

Prepared by SWCA Environmental Consultants (12/27/2018, 1:22:37 PM) - NAD 1983 UTM Zone 10N File: Creston_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset





Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Creston Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook

Legend Biological Study Area Paso Robles-Templeton Creston Route Alternative







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Estrella Substation and Paso Robles Area Reinforcement Project

Paso Robles - Templeton Creston Route Alternative

National Wetlands Inventory and National Hydrography Dataset Mapbook

Legend

Riverine





35°34'0"N

Prepared by SWCA Environmental Consultants (12/27/2018, 1:22:46 PM) - NAD 1983 UTM Zone 10N File: Creston_NHD_NWI - Basemap source: ESRI World Imagery - Data sources: National Wetlands Inventory; National Hydrography Dataset

Appendix E. Biological Resource Map

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120°40'50"W

120°40'40"W



Prepared by SWCA Environmental Consultants (3/5/2019, 10:47:48 AM) - Existing70kV_Bio_Resources_11x17 - NAD 1983 UTM Zone 10N - Aerial imagery source: ESRI World Imagery (2017)

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	Paso Robles Substation			
	Paso Robles City Limits			
- 22	Vegetation Communities			
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	Potential Least Bell's Vireo Habitat			
	* CDFW Sensitive Natural Community ** City of El Paso de Robles General Plan Sensitive Natural Community *** CDFW and City of El Paso de Robles General Plan Sensitive Natural Community			
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Prepared by SWCA Environmental Consultants (3/5/2019, 11:31:14 AM) - SouthRiver_Bio_Resources_11x17 - NAD 1983 UTM Zone 10N - Aerial imagery source: ESRI World Imagery (2017)



120°40'50"W



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120°40'40"W



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Appendix F. Soils Unit Map

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Soils Within the Biological Study Area

160

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152 153

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198

100 - Arbuckle fine sandy loam, 0 to 2 percent slopes 103 - Arbuckle-Positas complex, 15 to 30 percent slopes 104 - Arbuckle-Positas complex, 30 to 50 percent slopes 105 - Arbuckle-Positas complex, 50 to 75 percent slopes 106 - Arbuckle-San Ysidro complex, 2 to 9 percent slopes 152 - Linne-Calodo complex, 9 to 30 percent slopes 154 - Linne-Calodo complex, 50 to 75 percent slopes 158 - Lockwood shaly loam, 2 to 9 percent slopes 159 - Lockwood shaly loam, 2 to 9 percent slopes 160 - Lockwood-Concepcion complex, 9 to 15 percent slopes 166 - Metz loamy sand, 0 to 5 percent slopes 173 - Mocho clay loam, 0 to 2 percent slopes, MLRA 14 183 - Pico fine sandy loam, 0 to 2 percent slopes 184 - Pico fine sandy loam, 2 to 9 percent slopes 205 - Sorrento clay loam, 0 to 2 percent slopes, MLRA 14 209 - Still clay loam, 2 to 9 percent slopes 212 - Xerofluvents-Riverwash association

Soils Outside the Biological Study Area

102 - Arbuckle-Positas complex, 9 to 15 percent slopes 103 - Arbuckle-Positas complex, 15 to 30 percent slopes 104 - Arbuckle-Positas complex, 30 to 50 percent slopes 105 - Arbuckle-Positas complex, 50 to 75 percent slopes 108 - Arnold-San Andreas complex, 30 to 75 percent slopes 110 - Ayar and Diablo soils, 15 to 30 percent slopes 114 - Balcom-Nacimiento association, moderately steep 115 - Balcom-Nacimiento association, steep 133 - Cropley clay, 2 to 9 percent slopes, MLRA 14 134 - Dibble clay loam, 9 to 15 percent slopes 140 - Elder loam, 0 to 5 percent slopes, flooded 144 - Gazos shaly clay loam, 9 to 30 percent slopes 147 - Hanford and Greenfield soils, 0 to 2 percent slopes 148 - Hanford and Greenfield soils, 2 to 9 percent slopes 154 - Linne-Calodo complex, 50 to 75 percent Isopes 158 - Lockwood shaly loam, 2 to 9 percent slopes 174 - Mocho clay loam, 2 to 9 percent slopes, MLRA 14 175 - Nacimiento silty clay loam, 9 to 30 percent slopes

176 - Nacimiento silty clay loam, 30 to 50 percent slopes, MLRA 15

102

188

102

106

179

181 - Nacimiento-Los Osos complex, 50 to 75 percent slopes 183 - Pico fine sandy loam, 0 to 2 percent slopes 184 - Pico fine sandy loam, 2 to 9 percent slopes 185 - PITS 187 - Rincon clay loam, 0 to 2 percent slopes 188 - Rincon clay loam, 2 to 9 percent slopes, MLRA 14 189 - Rincon clay loam, 9 to 15 percent slopes, MLRA 14 195 - San Emigdio fine sandy loam, 2 to 9 percent slopes

196 - San Ysidro sandy loam, 2 to 9 percent slopes 198 - Santa Lucia-Lopez complex, 15 to 50 percent slopes 199 - Santa Lucia-Gazos complex, 50 to 75 percent slopes 205 - Sorrento clay loam, 0 to 2 percent slopes, MLRA 14 209 - Still clay loam, 2 to 9 percent slopes 212 - Xerofluvents-Riverwash association 214 - WATER

39'0"W Camp Robert

106

103



Prepared by SWCA Environmental Consultants (12/27/2018, 11:11:35 AM) - NAD 1983 UTM Zone 10N - File: Existing70kV Soils - ESRI World Imagery - Data source: Natural Resources Conservation Service/SSURGO (2016)

159



100 - Arbuckle fine sandy loam, 0 to 2 percent slopes
102 - Arbuckle-Positas complex, 9 to 15 percent slopes
103 - Arbuckle-Positas complex, 15 to 30 percent slopes
104 - Arbuckle-Positas complex, 30 to 50 percent slopes
105 - Arbuckle-Positas complex, 50 to 75 percent slopes
106 - Arbuckle-San Ysidro complex, 2 to 9 percent slopes
105 - Arbuckle-San Ysidro complex, 2 to 9 percent slopes
152 - Linne-Calodo complex, 9 to 30 percent slopes
155 - Linne-Diablo complex, 9 to 15 percent slopes
159 - Lockwood-Shaly loam, 2 to 9 percent slopes
160 - Lockwood-Concepcion complex, 9 to 30 percent slopes
179 - Nacimiento-Los Osos complex, 9 to 30 percent slopes
183 - Pico fine sandy loam, 2 to 9 percent slopes
184 - Pico fine sandy loam, 2 to 9 percent slopes
209 - Still clay loam, 2 to 9 percent slopes

153 152 153 159

102 - Arbuckle-Positas complex, 9 to 15 percent slopes
103 - Arbuckle-Positas complex, 15 to 30 percent slopes
104 - Arbuckle-Positas complex, 30 to 50 percent slopes
105 - Arbuckle-Positas complex, 50 to 75 percent slopes
108 - Arnold-San Andreas complex, 30 to 75 percent slopes
109 - Ayar and Diablo soils, 15 to 30 percent slopes
114 - Balcom-Nacimiento association, moderately steep
115 - Balcom-Nacimiento association, steep
133 - Cropley clay, 2 to 9 percent slopes, MLRA 14
134 - Dibble clay loam, 9 to 15 percent slopes
140 - Elder loam, 0 to 5 percent slopes, flooded
144 - Gazos shaly clay loam, 9 to 30 percent slopes
147 - Hanford and Greenfield soils, 2 to 9 percent slopes
154 - Linne-Calodo complex, 50 to 75 percent slopes
154 - Linne-Calodo complex, 50 to 75 percent slopes
154 - Mocho clay loam, 2 to 9 percent slopes, MLRA 14

187 - Rincon clay loam, 0 to 2 percent slopes
188 - Rincon clay loam, 2 to 9 percent slopes, MLRA 14
189 - Rincon clay loam, 9 to 15 percent slopes, MLRA 14
195 - San Emirdio fine sandy loam 2 to 9 percent slopes

Camp Robert

Atascadero

195 - San Emigdio fine sandy loam, 2 to 9 percent slopes
196 - San Ysidro sandy loam, 2 to 9 percent slopes
198 - Santa Lucia-Lopez complex, 15 to 50 percent slopes
199 - Santa Lucia-Gazos complex, 50 to 75 percent slopes
205 - Sorrento clay loam, 0 to 2 percent slopes, MLRA 14
209 - Still clay loam, 2 to 9 percent slopes
212 - Xerofluvents-Riverwash association
214 - WATER

Prepared by SWCA Environmental Consultants (12/27/2018, 11:10:13 AM) - NAD 1983 UTM Zone 10N - File: SouthRiver_Soils - ESRI World Imagery - Data source: Natural Resources Conservation Service/SSURGO (2016)

102 160



100 - Arbuckle fine sandy loam, 0 to 2 percent slopes
102 - Arbuckle-Positas complex, 9 to 15 percent slopes
103 - Arbuckle-Positas complex, 15 to 30 percent slopes
104 - Arbuckle-Positas complex, 30 to 50 percent slopes
105 - Arbuckle-Positas complex, 50 to 75 percent slopes
106 - Arbuckle-San Ysidro complex, 2 to 9 percent slopes
105 - Arbuckle-San Ysidro complex, 2 to 9 percent slopes
152 - Linne-Calodo complex, 9 to 30 percent slopes
155 - Linne-Diablo complex, 9 to 15 percent slopes
156 - Lockwood shaly loam, 2 to 9 percent slopes
160 - Lockwood-Concepcion complex, 9 to 15 percent slopes
179 - Nacimiento-Los Osos complex, 9 to 30 percent slopes
183 - Pico fine sandy loam, 2 to 9 percent slopes
184 - Pico fine sandy loam, 2 to 9 percent slopes
188 - Rincon clay loam, 2 to 9 percent slopes
188 - Rincon clay loam, 2 to 9 percent slopes
180 - Still clay loam, 2 to 9 percent slopes
214 - WATER

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104 - Arbuckle-Positas complex, 30 to 50 percent slopes 105 - Arbuckle-Positas complex, 50 to 75 percent slopes 108 - Arnold-San Andreas complex, 30 to 75 percent slopes 110 - Ayar and Diablo soils, 15 to 30 percent slopes 114 - Balcom-Nacimiento association, moderately steep 115 - Balcom-Nacimiento association.steep 133 - Cropley clay, 2 to 9 percent slopes, MLRA 14 134 - Dibble clay loam, 9 to 15 percent slopes 140 - Elder loam, 0 to 5 percent slopes, flooded 144 - Gazos shaly clay loam, 9 to 30 percent slopes 147 - Hanford and Greenfield soils, 0 to 2 percent slopes 148 - Hanford and Greenfield soils, 2 to 9 percent slopes 154 - Linne-Calodo complex, 50 to 75 percent Isopes 158 - Lockwood shaly loam, 2 to 9 percent slopes 174 - Mocho clay loam, 2 to 9 percent slopes, MLRA 14 175 - Nacimiento silty clay loam, 9 to 30 percent slopes

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- 181 Nacimiento-Los Osos complex, 50 to 75 percent slopes
 183 Pico fine sandy loam, 0 to 2 percent slopes
 184 Pico fine sandy loam, 2 to 9 percent slopes
- 185 PITS
- 187 Rincon clay loam, 0 to 2 percent slopes
- 188 Rincon clay loam, 2 to 9 percent slopes, MLRA 14
- 189 Rincon clay loam, 9 to 15 percent slopes, MLRA 14
- 195 San Emigdio fine sandy loam, 2 to 9 percent slopes 196 - San Ysidro sandy loam, 2 to 9 percent slopes
- 198 Santa Lucia-Lopez complex, 15 to 50 percent slopes
- 199 Santa Lucia-Gazos complex, 50 to 75 percent slopes
- 205 Sorrento clay loam, 0 to 2 percent slopes, MLRA 14
- 209 Still clay loam, 2 to 9 percent slopes 212 - Xerofluvents-Riverwash association

102

214 - WATER

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Prepared by SWCA Environmental Consultants (12/27/2018, 11:10:48 AM) - NAD 1983 UTM Zone 10N - File: Creston_Soils - ESRI World Imagery - Data source: Natural Resources Conservation Service/SSURGO (2016)

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	Appendix D.		
California Red-legged	Frog Habitat Site	Assessment	Data Sheet

Site Assessment reviewed by				
	(FWS Field Office)	(date)	(biologist)	
	(14/0040			
Date of Site Assessment:	(mm/dd/aaax)			
Site Assessment Biologists.	Castañon	Chennie	Belt	Travis
Site Assessment Diologists.	(Last name)	(first name)	(Last name)	(first name)
	-			
	(Last name)	(first name)	(Last name)	(first name)
Site Location: San Luis Obispo (County, CRLF Site #1,	35.598772, -120.68	3009	1)
(County, Gen	eral location name,	UTM Coordinate	es or Lat./Long. or 1-R-5	,).
**ATTACH A M	AD (include hebite			
**AI IACII A M	Ar (include habita	types, important	reatures, and species local	ions)
Proposed project name: Paso	Robles-Templeton Existing	70 kV and South Rive	r Route Alternatives	
Priof description of proposed	action:			
Brief description of proposed				
Paso Robles-Templeton Exit	sting 70 kV Rout	e Alternative:	Conversion of approx	cimately 5.7
miles of an existing single-ci	rcuit 70 kV powe	er line to a dou	ible-circuit 70 kV pov	ver line and a
construction of a temporary	shoo-fly in north	ern San Luis C	bispo County extend	ling from
Paso Robles Substation to T	empleton Subst	ation.		
Paso Robles-Templeton Sou	uth River Route	Alternative: Co	nstruction of approxi	mately 6.2
miles of a new double-circuit	t 70 kV power lin	e in northern S	San Luis Obispo Cou	nty extending
from Paso Robles Substation	n to Templeton S	Substation.		
1) Is this site within the curre	ent or historic ran	ge of the CRF	(check one)? 🗸 YES	S NO
				_ ,
2) Are there known records of	of CRF within 1.0	5 km (1 mi) of t	the site (circle one)?	YES V NO
If yes, attach a list of all k	nown CRF records v	vith a map showing	g all locations.	
CENEDAL AG	DUATIC HAL	DITAT CHA	DACTEDIZATIC	N
GENERAL AU	JUATIC HAI		KACIEKIZAII	
(i) multiple ponds or su	reams are within the p	oposea action area,	jui oui one aata sneet for ea	icn)
POND:				
Size: Not Applicable (N/A))	N	faximum depth: N/A	
Vegetation: emergent	t overhanging d	ominant species	s: N/A	
· egetation. emergen	,	and appered		
Substrate: N/A				
substrate.				
-				

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: N/A

STREAM:

Characterize non-pool habitat: run, riffle, glide, othe culverts are located at road intersections. Vegetation: emergent, overhanging, dominant speci macrostachya, typha angustifolia, cyperus sp., and salix sp., which occ	Cr: <u>Water is slow moving with no riffles</u> . Multiple CS: <u>Freshwater Marsh. Dominant species are eleocharis</u> cur along the creek banks.
Characterize non-pool habitat: run, riffle, glide, othe culverts are located at road intersections. Vegetation: emergent, overhanging, dominant speci	Water is slow moving with no riffles. Multiple es: Freshwater Marsh. Dominant species are eleocharis
Characterize non-pool habitat: run, riffle, glide, othe culverts are located at road intersections.	er: Water is slow moving with no riffles. Multiple
Characterize non-pool habitat: run, riffle, glide, othe	er: Water is slow moving with no riffles. Multiple
Maximum depth of stream pools: <u>N/A</u>	
Size of stream pools: N/A	
If yes,	
Are there pools (check one)? YES ✓ NO	
Stream gradient: 3.8%	
Denth at hank full: 3 to 4 reet	

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

(Perennia) or Ephemeral (circle one). If ephemeral, date it goes dry:_

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

Appendix D.							
California	Red-legged	Frog	Habitat	Site	Assessment	Data	Sheet

	(FWS Field Office)	(date)	(biologist	.)
Date of Site Assessment: 06	/14/2018			
Dute of lotter Assessment.	(mm/dd/yyyy)			
Site Assessment Biologists:	Castañon	Chennie	Belt	Travis
	(Last frame)	(III St Halle)	(Last name)	(mst name)
	(Last name)	(first name)	(Last name)	(first name)
Site Location: San Luis Obispo	County, CRLF Site #1,	35.598772, -120.680	009	
(County, Gen	eral location name,	UTM Coordinates	or Lat./Long. or T-R	-S).
ATTACH A M	AP (include habita	t types, important fe	eatures, and species loc	ations)
Proposed project name: Paso	Robles-Templeton Existin	g 70 kV and South River	Route Alternatives	
Brief description of proposed	action:			
Paso Robles-Templeton Exi	sting 70 kV Rout	te Alternative: C	conversion of appre	oximately 5.7
miles of an existing single-ci	rcuit 70 kV powe	er line to a doul	ole-circuit 70 kV po	ower line and a
Construction of a temporary	shoo-fly in north	ern San Luis Ol	oispo County exter	nding from
Paso Robles Substation to 1	th River Route	allon. Alternative: Cor	etruction of appro	vimately 6.2
miles of a new double-circuit	70 kV power lir	e in northern S	an Luis Obispo Co	unty extending
from Paso Robles Substatio	n to Templeton	Substation.		,
1) Is this site within the curre	ent or historic rar	oge of the CRE (check one)? 🗸 VI	
 Are there known records on If yes, attach a list of all k 	of CRF within 1.0 nown CRF records v	6 km (1 mi) of the vith a map showing	ne site (circle one)? all locations.	YES <u>√</u> M
 Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or state) 	of CRF within 1.4 nown CRF records w DUATIC HAI reams are within the p	6 km (1 mi) of th with a map showing BITAT CHAI	ne site (circle one)? all locations. RACTERIZATI	ESNO YES <u>√</u> N [<u>ION</u> each)
 Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st. POND: 	of CRF within 1.4 nown CRF records w QUATIC HAI reams are within the p	5 km (1 mi) of the orthogonal	ne site (circle one)? all locations. RACTERIZATI	ESNO YES <u>√</u> N [ON each)
 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st POND: Size: Not Applicable (N/A) 	of CRF within 1.4 nown CRF records w QUATIC HAI reams are within the p	5 km (1 mi) of th with a map showing BITAT CHAI roposed action area, 3	ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u>	ESNO YES <u>√</u> N [ON each)
 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st POND: Size: <u>Not Applicable (N/A)</u> Vegetation: emergen 	of CRF within 1.4 nown CRF records v QUATIC HAI reams are within the pa	5 km (1 mi) of th vith a map showing BITAT CHAI roposed action area, j M ominant species	ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u> : <u>N/A</u>	ESNO YES <u>√</u> N [ON each)
 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st POND: Size: Not Applicable (N/A) Vegetation: emergen 	of CRF within 1.4 nown CRF records w QUATIC HAI reams are within the p t, overhanging, d	6 km (1 mi) of th with a map showing BITAT CHAI roposed action area, j M ominant species	ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u> : <u>N/A</u>	2SNO YES <u>√</u> N [ON each)
 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st. POND: Size: Not Applicable (N/A) Vegetation: emergen Substrate: N/A 	of CRF within 1.4 nown CRF records w QUATIC HAI reams are within the pa t, overhanging, d	5 km (1 mi) of th with a map showing BITAT CHAI roposed action area, j M ominant species	ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u>	2SNO YES <u>✓</u> N [ON each)
 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st POND: Size: Not Applicable (N/A) Vegetation: emergen Substrate: NA 	of CRF within 1.4 nown CRF records v <u>DUATIC HAI</u> reams are within the particular t, overhanging, d	6 km (1 mi) of th with a map showing BITAT CHAI roposed action area, ; M ominant species	ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u> : <u>N/A</u>	ESNO

STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.

Substrate: Earthen substrate.

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: _

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

		Appendix I).	
California Re	ed-legged F	rog Habitat	Site Assessment	Data Sheet

	(TITLE TO 1 1 0 000						
	(FWS Field Office)	(date)	(biologist				
Date of Site Assessment: 06/14/2018							
	(mm/dd/yyyy)						
Site Assessment Biologists:	Castañon	Chennie	Belt	Travis			
	(Last name)	(first name)	(Last name)	(first name)			
	(Last name)	(first name)	(Last name)	(first name)			
Site Location: San Luis Obispo County, CRLF Site #1, 35.598772, -120.68009							
(County, Gene	eral location name,	UTM Coordinates	or Lat./Long. or T-R	-S).			
**ATTACH A M	AP (include habita	t types important fe	atures and species loc	ations) **			
		- yp - o, important re		unonoj			
Proposed project name: Paso Brief description of proposed	Robles-Templeton Existin	g 70 kV and South River I	Route Alternatives				
Deep Behles Templeten Evi	action.	to Alternatives C	any araian of anny	ovincetoly E 7			
Paso Robles-Templeton Exit	sting /UKV Rou	te Alternative: C	onversion of appro	oximately 5.7			
construction of a temporary	shoo-fly in north	ern San Luis Oh	isno County exter	nding from			
Paso Robles Substation to T	empleton Subst	ation	ispo county exter	iding nom			
Paso Robles Tompleton Sou	" D' D'						
	ith River Route	Alternative: Con	struction of approx	ximately 62			
niles of a new double-circuit	th River Route , 70 kV power lir	Alternative: Con ne in northern Sa	struction of approx an Luis Obispo Co	ximately 6.2 unty extending			
railes of a new double-circuit from Paso Robles Substatio	th River Route t 70 kV power lir n to Templeton \$	Alternative: Con ne in northern Sa Substation.	struction of approx an Luis Obispo Co	ximately 6.2 ounty extending			
 also Robles' reinpleton Soft niles of a new double-circuit rom Paso Robles Substation 1) Is this site within the current of the site known records of If yes, attach a list of all k 	of CRF within 1. nown CRF records v	Alternative: Con ne in northern Sa Substation. nge of the CRF (c 6 km (1 mi) of th vith a map showing	struction of approx an Luis Obispo Co wheck one)? ✓ YI e site (circle one)? all locations.	ximately 6.2 punty extending ESNO YES _✓ №			
 as rempeter solution solution for the second second	th River Route t 70 kV power lir n to Templeton s ent or historic rar of CRF within 1. nown CRF records v QUATIC HAI	Alternative: Con he in northern Sa Substation. nge of the CRF (c 6 km (1 mi) of th with a map showing BITAT CHAF	struction of approx an Luis Obispo Co check one)? ✓ YI e site (circle one)? all locations.	ximately 6.2 punty extending ESNO YES ✓ N			
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also Robles Fempleton Sott miles of a new double-circuit from Paso Robles Substatio Is this site within the current of the set of all k <u>GENERAL AC</u> (if multiple ponds or state) Size: Not Applicable (N/A) Vegetation: emergent Substrate: N/A 	th River Route it to 70 kV power lir n to Templeton s ent or historic ran of CRF within 1. nown CRF records w QUATIC HAI reams are within the p t, overhanging, d	Alternative: Con he in northern Sa Substation. nge of the CRF (c 6 km (1 mi) of th with a map showing BITAT CHAR roposed action area, fr Ma ominant species:	struction of approx an Luis Obispo Co check one)? ✓ YI e site (circle one)? all locations. RACTERIZATI Ill out one data sheet for aximum depth: <u>N/A</u> <u>N/A</u>	ximately 6.2 punty extending ESNO YES ✓ M (ON each)			
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STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.

Substrate: Earthen substrate.

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: _

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

		Appendix I).	
California Re	ed-legged F	rog Habitat	Site Assessment	Data Sheet

·							
	(FWS Field Office)	(date)	(biologis	t)			
Date of Site Assessment: 06/14/2018							
Site Assessment Biologists:	(mm/dd/yyyy) Castañon	Chennie	Belt	Travis			
	(Last name)	(first name)	(Last name)	(first name)			
	(Last name)	(first name)	(Last name)	(first name)			
Site Location: San Luis Obispo County, CRLF Site #1, 35.598772, -120.68009							
(County, Gen	eral location name,	UTM Coordinates	or Lat./Long. or T-R	R-S).			
ATTACH A M	AP (include habita	t types, important fe	atures, and species loc	cations)			
Proposed project name: Paso	Robles-Templeton Existin	g 70 kV and South River F	Route Alternatives				
Brief description of proposed	action:						
Paso Robles-Templeton Exi	sting 70 kV Rou	te Alternative: C	onversion of appr	oximately 5.7			
construction of a temporary	shoo-fly in north	er line to a doub	ispo County exte	ower line and a			
Paso Robles Substation to 1	empleton Subst	ation	ispo County exte	nung nom			
Paso Robles-Templeton Sou	uth River Route	Alternative: Con	struction of appro	ximately 6.2			
Paso Robies-Templeton South River Route Alternative: Construction of approximately 6.2 miles of a new double-circuit 70 kV power line in northern San Luis Obispo County extending							
miles of a new double-circuit	70 kV power lin	ne in northern Sa	n Luis Obispo Co	ounty extending			
from Paso Robles Substation	70 kV power lir n to Templeton s	ne in northern Sa Substation.	n Luis Obispo Co	ounty extending			
1) Is this site within the curre	t 70 kV power lir n to Templeton s ent or historic rar	ne in northern Sa Substation. nge of the CRF (c	theck one)?	ESNO			
 Is this site within the current Are there known records of 	t 70 kV power lir n to Templeton s ent or historic ran of CRF within 1.4	ne in northern Sa Substation. nge of the CRF (c 6 km (1 mi) of th	n Luis Obispo Co theck one)? ✓ Y e site (circle one)?	ESNO			
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 miles of a new double-circuit from Paso Robles Substation 1) Is this site within the current of the	t 70 kV power lir n to Templeton s ent or historic ran of CRF within 1. nown CRF records w DUATIC HAI reams are within the p	ne in northern Sa Substation. Inge of the CRF (c 6 km (1 mi) of th with a map showing a BITAT CHAR roposed action area, fi	theck one)? ✓Y e site (circle one)? all locations. CACTERIZAT Il out one data sheet for eximum depth: <u>N/A</u>	ESNO PYES ✓N ION each)			
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 miles of a new double-circuit from Paso Robles Substation 1) Is this site within the current of the	t 70 kV power lir n to Templeton S ent or historic rar of CRF within 1.4 nown CRF records w DUATIC HAI reams are within the p	ne in northern Sa Substation. age of the CRF (c 6 km (1 mi) of th with a map showing a BITAT CHAR roposed action area, fu Ma ominant species:	an Luis Obispo Co theck one)? ✓ Y e site (circle one)? all locations. CACTERIZAT: NA NA	ESNOYES ✓N ION each			
 Is this site within the current of a new double-circuit from Paso Robles Substation 1) Is this site within the current of the curr	t 70 kV power lir n to Templeton s ent or historic rar of CRF within 1. nown CRF records w QUATIC HAI reams are within the p	ne in northern Sa Substation. nge of the CRF (c 6 km (1 mi) of th with a map showing a BITAT CHAR roposed action area, fi Ma ominant species:	an Luis Obispo Co check one)? ✓ Y e site (circle one)? all locations. CACTERIZAT Il out one data sheet for aximum depth: <u>N/A</u> N/A	ESNO PYES ✓ N ION Ceach)			

STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.

Substrate: Earthen substrate.

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: _

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

		Appendix I).	
California Re	ed-legged F	rog Habitat	Site Assessment	Data Sheet

Site Assessment reviewed by						
She Assessment reviewed by	(FWS Field Office)	(date)	(biologist)	,		
Date of Site Assessment: 06/14/2018 (mm/dd/yyyy)						
Site Assessment Biologists:	Castañon	Chennie (finst name)	Belt	Travis		
	(Last name)	(tirst name)	(Last name)	(first name)		
	(Last name)	(first name)	(Last name)	(first name)		
Site Location: San Luis Obispo C	County, CRLF Site #1,	35.598772, -120.68	009	<u></u>		
ATTACH A M	\mathbf{AP} (include habita	t types, important f	eatures, and species loca	S). ntions)		
Paso Robles-Templeton Exit miles of an existing single-ci construction of a temporary s Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation	sting 70 kV Rou rcuit 70 kV powe shoo-fly in north empleton Subst ath River Route a 70 kV power lir n to Templeton S	te Alternative: (er line to a dou ern San Luis O ration. Alternative: Co le in northern S Substation.	Conversion of appro- ble-circuit 70 kV po bispo County exten nstruction of approx San Luis Obispo Co	wimately 5.7 wer line and a ding from imately 6.2 unty extending		
1) Is this site within the curre	ent or historic rar	nge of the CRF	(check one)? 🖌 YE	SNO		
 Are there known records on If yes, attach a list of all known 	of CRF within 1.4 nown CRF records v	6 km (1 mi) of t vith a map showing	he site (circle one)? g all locations.	YES <u>√</u> N		
GENERAL AC	QUATIC HAI	BITAT CHA	RACTERIZATI	ON		
(y multiple ponds or su	reams are wunn me p	roposea action area,	jui oui one aaia sneei jor e	acni		
POND: Size: Not Applicable (N/A)		Μ	laximum depth: <u>N/A</u>			
Vegetation: emergent, overhanging, dominant species: <u>NA</u>						
Substrate: <u>N/A</u>						
PerenniaDor Ephemeral (cir	cle one). If ephen	neral, date it goo	es dry: <u>N/A</u>			

STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.

Substrate: Earthen substrate.

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: _

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

Site ID: CRLF #6

Appendix D. <u>California Red-legged Frog Habitat Site Assessment Data Sheet</u>

	(EVUE Field Office)	(data)	(bl-ll-t		
	(FWS Field Office)	(date)	(Diologist)	
Date of Site Assessment: 06/14/2018 (mm/dd/yyyy)					
Site Assessment Biologists:	Castañon	Chennie	Belt	Travis	
	(Last name)	(first name)	(Last name)	(first name)	
	(Last name)	(first name)	(Last name)	(first name)	
Site Location: San Luis Obispo	County, CRLF Site #1	, 35.598772, -120.680	009		
(County, Gen	eral location name,	UTM Coordinates	or Lat./Long. or T-R	-S).	
ATTACH A M	AP (include habita	t types, important fe	atures, and species loca	ations)	
Proposed project name: Paso	Robles-Templeton Existin	g 70 kV and South River	Route Alternatives		
Brief description of proposed	action:				
Paso Robles-Templeton Exi	sting 70 kV Rou	te Alternative: C	onversion of appro	oximately 5.7	
miles of an existing single-ci	rcuit 70 kV pow	er line to a doub	ple-circuit 70 kV pc	ower line and a	
construction of a temporary	shoo-fly in north	ern San Luis Ob	pispo County exter	nding from	
Paso Robles Substation to 1	empleton Subs	tation.			
Paso Robles-Templeton Sou	th River Route	Alternative: Con	struction of approx	ximately 6.2	
miles of a new double-circuit	70 kV power lir	ne in northern Sa	an Luis Obispo Co	unty extending	
from Paso Robles Substatio	n to Templeton	Substation.			
1) Is this site within the current or historic range of the CRF (check one)? ✓YESNO					
1) Is this site within the curre	ant of instoric rai	nge of the CRF (check one)? ⊻ YI	ESNO	
 Is this site within the current of the	of CRF within 1.	nge of the CRF (6 km (1 mi) of th with a man showing	check one)? ✓ YH ne site (circle one)? all locations	ESNO YES ✔N	
 Is this site within the current of the	of CRF within 1.	nge of the CRF (6 km (1 mi) of th vith a map showing	check one)? ✓YI ne site (circle one)? all locations.	ESNO YES ✔_N	
 Is this site within the current of the	of CRF within 1. nown CRF records v	nge of the CRF (6 km (1 mi) of th with a map showing BITAT CHAF	check one)? <u>√</u> YH ne site (circle one)? all locations. RACTERIZATI	ESNO YES √ №	
 Is this site within the current of the	of CRF within 1. nown CRF records w DUATIC HAI	nge of the CRF (6 km (1 mi) of th with a map showing BITAT CHAF roposed action area, j	check one)? ✓ YH ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for	ESNO YES √ N ⁴ [<u>ON</u> each)	
 Is this site within the current of the	of CRF within 1. nown CRF records v DUATIC HAI	nge of the CRF (6 km (1 mi) of th with a map showing BITAT CHAF roposed action area, j	check one)? ✓ YH ne site (circle one)? all locations. RACTERIZATI	ESNO YES √ No [ON each)	
 Is this site within the current of the	of CRF within 1. nown CRF records v DUATIC HA	nge of the CRF (d 6 km (1 mi) of th with a map showing BITAT CHAF roposed action area, j Ma	check one)? ✓ YH ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: N/A	ESNO YES √ N ⁴ [ON each)	
 1) Is this site within the current of a site of a sit	of CRF within 1. nown CRF records y QUATIC HAI reams are within the p	nge of the CRF (d 6 km (1 mi) of th with a map showing BITAT CHAF roposed action area, j Ma ominant species:	check one)? ✓ YH ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u>	ESNO YES √ N (ON each)	
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 Is this site within the current of a life year. Are there known records of a life year. If year. attach a list of all k <u>GENERAL A((if multiple ponds or street)</u>) <u>Size: Not Applicable (N/A)</u> Vegetation: emergen <u>Substrate: N/A</u> 	of CRF within 1. nown CRF records v DUATIC HAI reams are within the p	nge of the CRF (6 km (1 mi) of th with a map showing BITAT CHAH roposed action area, j Ma ominant species:	check one)? ✓ YH ne site (circle one)? all locations. RACTERIZATI fill out one data sheet for aximum depth: <u>N/A</u>	ESNO YES <u>√</u> N [ON each)	
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Appendix D.				
California Red-legged Frog Hat	oitat Site Assessment Data Sheet			

STREAM: Salinas River
Bank full width: 8 to 425 feet
Depth at bank full: 3 to 4 feet
Stream gradient: 3.8%
Are there pools (check one)?YES ✓NO If yes, Size of stream pools: <u>NA</u> Maximum depth of stream pools: <u>NA</u>
Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.
Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.
Substrate: Earthen substrate.
Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation.
Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically hear
realdential nomes. Oigns of mowing adjuntes were observed.
Perennial or Ephemeral (circle one). If ephemeral, date it goes dry:
Other aquatic habitat characteristics, species observations, drawings, or comments:
Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.
While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding nabitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- All field notes and other supporting documents
 Site photographs
 Maps with important habitat features and species location
 - 23

		Appendix I).	
California Re	ed-legged F	rog Habitat	Site Assessment	Data Sheet

Site Assessment reviewed by						
	(FWS Field Office)	(date)	(biologis	t)		
Date of Site Assessment: 06/14/2018						
Site Assessment Biologists:	(mm/dd/yyyy) Castañon	Chennie	Belt	Travis		
	(Last name)	(first name)	(Last name)	(first name)		
	(Last name)	(first name)	(Last name)	(first name)		
Site Location: San Luis Obispo	County, CRLF Site #1,	35.598772, -120.680	09			
(County, Gen	eral location name,	UTM Coordinates	or Lat./Long. or T-R	:-S).		
ATTACH A M	AP (include habita	t types, important fe	atures, and species loc	ations)		
Proposed project name: Paso	Robles-Templeton Existin	g 70 kV and South River F	Route Alternatives			
Brief description of proposed	action:	Alternative: C	any avaian of annu	avinantaly E 7		
Paso Robles-Templeton Exit miles of an existing single-ci	sting 70 kV Rou reuit 70 kV powe	e Alternative: C	e-circuit 70 kV p	oximately 5.7		
construction of a temporary	shoo-fly in north	miles of an existing single-circuit /0 kV power line to a double-circuit /0 kV power line and a construction of a temporary shoo-fly in porthern San Luis Obispo County extending from				
Paso Robles Substation to Templeton Substation.						
Paso Robles Substation to T	empleton Subst	ation.		naing from		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit	empleton Subst th River Route	ation. Alternative: Con	struction of appro	ximately 6.2		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substatio	empleton Subst uth River Route 70 kV power lir n to Templeton \$	ation. Alternative: Con le in northern Sa Substation.	struction of appro In Luis Obispo Co	ximately 6.2 punty extending		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation	empleton Subst uth River Route 70 kV power lir n to Templeton ent or historic rar	ation. Alternative: Con le in northern Sa Substation.	struction of appro in Luis Obispo Co	ximately 6.2 punty extending		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation 1) Is this site within the curre	empleton Subst uth River Route 70 kV power lir n to Templeton s ent or historic rar	ation. Alternative: Con le in northern Sa Substation.	struction of appro in Luis Obispo Co	ximately 6.2 punty extending ESNO		
 Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation 1) Is this site within the currer 2) Are there known records on If yes, attach a list of all k 	empleton Subsi ath River Route 70 kV power lir n to Templeton ent or historic ran of CRF within 1. nown CRF records y	Alternative: Con Alternative: Con e in northern Sa Substation. age of the CRF (c 6 km (1 mi) of th vith a map showing a	struction of appro on Luis Obispo Co wheck one)? ✓ YI e site (circle one)? all locations.	ximately 6.2 bunty extending ESNO		
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 Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substatio 1) Is this site within the curra 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or state)	Templeton Subst th River Route 70 kV power lir n to Templeton st ent or historic ran of CRF within 1.4 nown CRF records w QUATIC HAI reams are within the p	Alternative: Con lee in northern Sa Substation. age of the CRF (c 5 km (1 mi) of th with a map showing a BITAT CHAR roposed action area, fu	struction of appro in Luis Obispo Co sheck one)? ✓ YI e site (circle one)? all locations. CACTERIZATI Il out one data sheet for	ximately 6.2 punty extending ESNO •YES ✓ No ION each)		
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Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation 1) Is this site within the curro 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC (if multiple ponds or sth</u> POND: Size: Not Applicable (N/A) Vegetation: emergent	Templeton Subst ath River Route 70 kV power lir n to Templeton s ent or historic ran of CRF within 1. nown CRF records w DUATIC HAI reams are within the p	Alternative: Con le in northern Sa Substation. age of the CRF (c 5 km (1 mi) of th vith a map showing a BITAT CHAR roposed action area, fi Ma ominant species:	struction of appro on Luis Obispo Co wheck one)? ✓ YI e site (circle one)? all locations. CACTERIZATI Il out one data sheet for eximum depth: <u>N/A</u>	ximately 6.2 punty extending ESNO •YES ✓ No LON each)		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substatio 1) Is this site within the curro 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC (if multiple ponds or str</u> POND: Size: Not Applicable (N/A) Vegetation: emergent	Templeton Subst ath River Route To kV power lir to Templeton S ent or historic ran of CRF within 1. nown CRF records w DUATIC HAI reams are within the p	Alternative: Con e in northern Sa Substation. age of the CRF (c 5 km (1 mi) of th vith a map showing a BITAT CHAR roposed action area, fi Ma ominant species:	struction of appro on Luis Obispo Co wheck one)? ✓ YI e site (circle one)? all locations. CACTERIZATI Il out one data sheet for eximum depth: <u>N/A</u> N/A	ximately 6.2 punty extending ESNO ·YES ✓ No LON each)		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substation 1) Is this site within the curro 2) Are there known records of If yes, attach a list of all k <u>GENERAL AC</u> (if multiple ponds or st POND: Size: Not Applicable (N/A) Vegetation: emergent Substrate: <u>N/A</u>	Templeton Subsi th River Route 70 kV power lir n to Templeton S ent or historic ran of CRF within 1. nown CRF records w DUATIC HAI reams are within the p	Alternative: Con Alternative: Con is e in northern Sa Substation. age of the CRF (c 5 km (1 mi) of th with a map showing is BITAT CHAR roposed action area, fi Ma ominant species:	struction of appro on Luis Obispo Co wheck one)? ✓ YI e site (circle one)? all locations. CACTERIZATI Il out one data sheet for eximum depth: <u>N/A</u> <u>N/A</u>	ximately 6.2 punty extending ESNO •YES ✓ No LON each)		
Paso Robles Substation to T Paso Robles-Templeton Sou miles of a new double-circuit from Paso Robles Substatio 1) Is this site within the curro 2) Are there known records of If yes, attach a list of all k <u>GENERAL A((if multiple ponds or sh</u> POND: Size: Not Applicable (N/A) Vegetation: emergent Substrate: <u>N/A</u>	Templeton Subsi th River Route 70 kV power lir n to Templeton s ent or historic ran of CRF within 1.4 nown CRF records w DUATIC HAI reams are within the p	Alternative: Con le in northern Sa Substation. age of the CRF (c 5 km (1 mi) of th vith a map showing a BITAT CHAR roposed action area, fi Ma ominant species:	struction of appro on Luis Obispo Co check one)? ✓ YI e site (circle one)? all locations. CACTERIZATI II out one data sheet for aximum depth: <u>N/A</u>	ximately 6.2 punty extending ESNO (YES ✓ No (ION each)		

STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

Vegetation: emergent, overhanging, dominant species: Freshwater Marsh. Dominant species are eleocharis macrostachya, typha angustifolia, cyperus sp., and salix sp., which occur along the creek banks.

Substrate: Earthen substrate.

Bank description: The bank width varies along the creek, which has a mosaic of emergent vegetation. Herbaceous plants occur along the margins, which are bordered by non-native grasses, typically near residential homes. Signs of mowing activities were observed.

Perennial or Ephemeral (circle one). If ephemeral, date it goes dry: _

Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

While Spanish Camp provides suitable aquatic breeding and aquatic non-breeding habitat, the presence of predatory fish and bullfrogs may reduce the potential for a successful breeding population of red-legged frogs.

Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location

Appendix D.							
California	Red-legged	Frog	Habitat	Site .	Assessment	Data	Sheet

Site Assessment reviewed by					
	(FWS Field Office)	(date)	(biologist)	
Data of Site Assessment: 06	14/2018				
Date of Site Assessment.	(mm/dd/yyyy)				
Site Assessment Biologists:	Castañon	Chennie	Belt	Travis	
	(Last name)	(first name)	(Last name)	(first name)	
	(Last name)	(first name)	(Last name)	(first name)	
Site Location: San Luis Obispo C	County, CRLF Site #1,	35.598772, -120.680	009	<u></u>	
(County, Gene	eral location name,	UTM Coordinates	or Lat./Long. or T-R	-S).	
ATTACH A M	\mathbf{AP} (include habitat	types, important fe	eatures, and species loca	ations)*	
Brief description of proposed action: Paso Robles-Templeton Existing 70 kV Route Alternative: Conversion of approximately 5.7 miles of an existing single-circuit 70 kV power line to a double-circuit 70 kV power line and a construction of a temporary shoo-fly in northern San Luis Obispo County extending from Paso Robles Substation to Templeton Substation.					
miles of a new double-circuit from Paso Robles Substation	70 kV power lin n to Templeton S	e in northern S Substation.	an Luis Obispo Co	unty extending	
1) Is this site within the curre	ent or historic ran	ge of the CRF (check one)? 🖌 YI	ESNO	
 Are there known records of If yes, attach a list of all known 	of CRF within 1.6 nown CRF records w	5 km (1 mi) of th rith a map showing	ne site (circle one)? all locations.	YES 🖌 N	
GENERAL AC	DUATIC HAR reams are within the pr	BITAT CHAI	RACTERIZATI	each)	
POND:					
Size: Not Applicable (N/A)		Μ	aximum depth: <u>N/A</u>		
Vegetation: emergent, overhanging, dominant species: <u>NA</u>					
Substrate: <u>NA</u>					

STREAM:

Deals Call and the Sto 425 feet	
Bank full width: 010425 leet	
Depth at bank full: 3 to 4 feet	
Stream gradient: 3.8%	
Are there pools (check one)?YI If yes,	es 🖌 no
Size of stream pools:	J/A
Maximum depth of str	eam pools: <u>N/A</u>
21 A I I I I I I I I I I I I I I I I I I	CO 111 1 Materia davisera

Characterize non-pool habitat: run, riffle, glide, other: <u>Water is slow moving with no riffles. Multiple</u> culverts are located at road intersections.

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Other aquatic habitat characteristics, species observations, drawings, or comments: Spanish Camp Creek contains slow, perennial flows with emergent vegetation along the banks. The length of creek within the BSA is approximately 0.5 mile along South River Road. Species observed include Eleocharis macrostachya, Juncus bufonius, Typha angustifolia, Cyperus sp., Epilobium watsonii, Veronica anagallis aquatica, J. balticus, Polypogon monspeliensis, Lolium multiflorum, and Hordeum murinum. Creek is adjacent to oak savanna, dominated by blue oaks. Bullfrogs and pacific tree frogs were observed along the creek.

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Necessary Attachments:

- 1. All field notes and other supporting documents
- 2. Site photographs
- 3. Maps with important habitat features and species location