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BIOLOGICAL RESOURCES ASSESSMENT REPORT

Potentia Viridi Battery Energy Storage System Project Mitigation Site

Alameda County, California



Prepared by:

Westervelt Ecological Services Western Region 3636 American River Drive, Suite 120 Sacramento, CA 95864 T: (916) 646-3644

wesmitigation.com

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Potentia Viridi Battery Energy Storage System Project Mitigation Site Biological Resource Assessment July 2025

Contributors

Brent Helm Ecological Resources Director bhelm@westervelt.com

John Howe Ecological Resources Manager jhowe@westervelt.com

Marina Olson Biologist molson@westervelt.com

Dayna Winchell Senior Conservation Planner/Project Manager dwinchell@westervelt.com

Mike Lozano Senior GIS Analyst mlozano@westervelt.com

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1. Introduction

1.1. Introduction

Levy Alameda, LLC, a wholly owned subsidiary of Obra Maestra Renewables, LLC is in the process of developing a battery storage facility (project) in Alameda County, California. Westervelt Ecological Services (WES) has teamed with Levy Alameda, LLC to help provide mitigation for their project. WES has identified a 213 acre site to be set aside for mitigation. Within that 213 acre mitigation site, there are the following landcover types:

Grasslands: 202.29

Disturbed: 6.86

Ephemeral Drainage: 0.74

Pond: 0.73Swale: 0.97Wetland: 0.36

Of that 213 acre mitigation site, 182.1 acres of mitigation land would be set aside to provide suitable mitigation for the project's mitigation. The 182.1 acres would cover the following land cover types (after removing disturbed areas):

Grasslands: 179.20

Ephemeral Drainage: 0.74

Pond: 0.73Swale: 0.96Wetland: 0.36

The combined 182.1 acres would provide habitat for all species being proposed below for coverage, and the entire mitigation area of 212 acres would be set aside for conservation.

This Biological Resources Assessment detailed the species and habitat that are present in the mitigation site.

1.2. Study Area Location

The proposed mitigation site is located in Alameda County (Figure 1, all figures are located in Appendix A) and consists of a portion of the approximately 4,869-acre Mulqueeney Ranch (Ranch, Figure 2). The Ranch is located immediately southwest of the Altamont Pass Wind Farm substation along the north and south sides of Patterson Pass Road within the Altamont Hills, approximately 6 miles east of the City of Livermore, Alameda and San Joaquin counties, California. More specifically, the mitigation site occurs in Sections 31 and 36, Township 2 South, Ranges 3 and 4 East, and Mount Diablo Base & Meridian on the Midway U.S. Geological Survey 7.5-minute topographical quadrangle map (Figure 3). Approximate center coordinates of the mitigation site in decimal degrees of the World Geodetic System 1984 (WGS84) are: Latitude: 37.715336°, Longitude: -121.590078°.

1.3. Study Objective

The primary objective of this study was to assess the biological resources and resource value of the mitigation site and to determine the presence, or presumed absence, of sensitive biological resources (i.e., special-status species and sensitive plant communities or habitats) occurring within the mitigation site.

Reconnaissance-level field surveys were conducted to:

- provide a description of the biological resources and natural communities present within the mitigation site;
- compile species lists descriptive of plant communities;
- locate special-status plant species or habitat suitable for such species; and
- determine wildlife use and current habitat values for wildlife, including special-status species.

1.4. Definitions

Several terms relating to the biological resources used in the report are described briefly below.

COMMUNITY- A community is an assemblage of populations of plants, animals, bacteria, and fungi that live in an environment and interact with one another, forming a distinctive living system with its own composition, structure, environmental relationships, development, and functions (Whittaker 1975).

HABITAT- Habitat is the place or type of site where a plant or animal naturally or normally lives and grows.

SENSITIVE NATURAL COMMUNITY - Sensitive natural communities are communities that are of limited distribution statewide or within a county or region and are often vulnerable to environmental effects of projects. These communities may or may not contain special-status plants or their habitat. A sensitive community has particularly high ecological value or functions and are considered important because their degradation or destruction could threaten populations of dependent plant and wildlife species and significantly reduce the regional distribution and viability of the community. As the number and extent of sensitive natural communities continue to diminish, the endangerment status of dependent special-status (i.e., rare, threatened, or endangered) species could become more precarious, and populations of currently stable species (i.e., non-special-status species) could become rare. Loss of sensitive natural communities can also eliminate or reduce important ecosystem functions, such as water filtration by wetlands and bank stabilization by riparian forests or wetlands.

SPECIAL-STATUS SPECIES - For the purposes of this assessment, special-status species were defined as being species that are legally protected or otherwise regulated or tracked by federal or state resource agencies. Special-status species are species, subspecies, or varieties that fall into one or more of these categories.

- Listed as threatened or endangered under the federal Endangered Species Act (ESA).
- Proposed or candidates for listing under the ESA.

- Listed as threatened or endangered under the California Endangered Species Act (CESA).
- Candidates for listing under the CESA.
- California species of special concern.
- California Fully Protected Species.
- Plants ranked as "rare, threatened, or endangered in California" (California Rare Plant Rank [CRPR] 1B and 2).
- Plants listed as rare under the Native Plant Protection Act.

WILDLIFE - For the purposes of this document wildlife includes mammals, birds, reptiles, amphibians, fish, and invertebrates.

WETLANDS - For the purposes of this document wetlands are defined as transitional areas between aquatic habitats and upland habitats and generally includes habitats such as marshes and swamps. Under the U.S. Army Corps of Engineers jurisdiction wetlands general must possess the following three mandatory criteria: 1) A prevalence or dominance of hydrophytes (water-loving plants); 2) Hydric soils (e.g., water-logged soils); and 3) Wetland hydrology (i.e., soils that are inundated or saturated to the surface for extended periods during the growing season).

The remainder of this report discusses the methods and results of the 2024 special-status species and sensitive habitat assessment at the mitigation site.

2. Methods

The assessment of the mitigation site for biological resources included both desktop background information gathering and analysis and a summary of previously conducted biological surveys and mapping as described below.

2.1. Desktop Analysis

The desktop analysis portion of this assessment included reviewing existing databases and other publicly available information on biological and related resources, as well as current and historical aerial photographs and topographic maps. The following information was reviewed as part of the desktop analysis:

- A species records search of California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB; CDFW 2024) using a 5-mile radius centered on the mitigation site (Figure 4);
- Information available on rare plants on the California Native Plant Society (CNPS) Inventory
 of Rare and Endangered Plants Database (CNPS 2024) and the Jepson eFlora (Jepson Flora
 Project 2024);
- Soils information from the U.S. Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2024);
- EcoAtlas (CWMW 2024);
- Biogeographic Information and Observation System (BIOS) (CDFW 2024);
- aerial imagery available on Google Earth (1985 through 2024); and
- topographic maps.

2.2. Field Surveys

Since 2019, Helm Biological Consulting (HBC 2019, 2021, 2022, 2023a and 2023b) and WES (2024) staff have visited the mitigation site and larger Ranch to survey for California tiger salamander (CTS, *Ambystoma californiese*) and California red-legged frog (CRLF, *Rana draytonii*), assessed the general site conditions, making notes on land cover, hydrology, soils, dominant vegetation, and observed wildlife.

Specific surveys methods are described below for each.

2.2.1. Community Mapping

All landcovers were mapped, including aquatic resources (Figure 5). However, a formal aquatic resources delineation study was not conducted.

2.2.2. Special-status Species

A list of special-status plant and wildlife species with potential to occur in the mitigation site (Table 2) was developed from the Desktop Analysis (see above). This list was used to focus the site investigation on the special-status species and associated plant communities/habitats with potential to be present at the mitigation site. Survey methods are described below for plants and wildlife.

2.2.2.1. Botanical Resources

Botanical surveys concentrated on nonnative invasive plants during the late summer and fall of 2023 (HBC 2023b). Specific special-status plant species surveys were not conducted. The entire mitigation site was surveyed by foot or by an all-terrain vehicle. All plants observed were identified to the taxonomic level necessary to determine rarity status using The Jepson Manual: Vascular Plants of California, 2nd Edition (Baldwin et al. 2012) and internet resources such as CNPS (2024) and Calflora (2022). Scientific nomenclature follows The Jepson Manual (Baldwin et al. 2012) and updates published online by the Jepson Flora Project, Jepson Online Interchange (University of California, Berkeley 2024). Common names followed Calflora (2022). Species not readily identifiable in the field were collected and later identified using The Jepson Manual (Baldwin et al. 2012). A list of all plant species encountered during the botanical field survey was compiled. Each plant was assigned a wetland indicator status using The National Wetland Plant List: 2016 Update of Wetland Ratings (NWPL) (Lichvar et al. 2016) as follows:

- OBL Obligate wetland plants. Almost always occurs in wetlands;
- FACW Facultative wetland plants. Usually occurs in wetlands, but may occur in nonwetlands;
- FAC Facultative plants. Occurs in wetlands and non-wetlands;
- FACU Facultative upland plants. Usually occurs in non-wetlands, but may occur in wetlands;
- UPL Obligate upland plants. Almost never occurs in wetlands; and
- NL Not listed.

In addition, every plant was categorized as native or nonnative (introduced) based on Calflora (2022). All nonnative plant species were further evaluated for any invasive status using California Invasive Plant Council (Cal-IPC 2022) ratings as follows:

- High These species have severe ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal and establishment. Most are widely distributed ecologically;
- Moderate These species have substantial and apparent, but generally not severe, ecological impacts on physical processes, plant and animal communities, and vegetation structure. Their reproductive biology and other attributes are conducive to moderate to high rates of dispersal, though establishment is generally dependent upon ecological disturbance. Ecological amplitude and distribution may range from limited to widespread; and
- Limited These species are invasive but their ecological impacts are minor on a statewide level or there was not enough information to justify a higher score. Their reproductive biology and other attributes result in low to moderate rates of invasiveness. Ecological amplitude and distribution are generally limited, but these species may be locally persistent and problematic.

A list of all plant species encountered during the botanical field survey is included in Appendix B. A rare plant survey in the mitigation site will occur in Spring 2025.

2.2.2.2. Wildlife

All wildlife species observed were identified based on WES Staffs' knowledge and following field guides: Reid (2006) for mammals, Peterson (2020) for birds, Stebbins (2018) for reptiles and amphibians, and Gross et al. (2020) for insects. Common and scientific names of birds followed the Working Group on Avian Nomenclature of the International Ornithologists' Union's. Common and scientific names for reptiles and amphibians followed nomenclature of Nafis (2022) California Herps (www.californiaherps.com). Common and scientific names of mammals followed the American Society of Mammologists. All wildlife species, or sign (scat, prints, etc.), observed onsite were recorded in field notes.

A list of all wildlife species observed during the wildlife survey is included in Appendix C.

2.2.2.3. Special-Status Species Habitat Assessment

For species that were not identifiable at the time of the field survey, plant communities were assessed for potential to support the targeted species. The habitat assessed was based on habitat suitability comparisons with reported occupied habitats. The following definitions were utilized:

- None Species distribution is restricted by substantive habitat requirements which do not occur onsite; therefore, no further survey or study is necessary to determine likely presence or presumed absence of this species;
- Not Probable/Likely Species distribution is restricted by substantive habitat requirements which are negligible onsite; therefore, it is assumed that no further survey or study is necessary to determine likely presence or presumed absence of this species;
- Low The species has a Low probability of occurrence within the mitigation site;
- Moderate The species has a Moderate probability of occurrence within the mitigation site;
- High The species has a High probability of occurrence within the mitigation site;
- Present Species or species sign were observed onsite or historically has been documented within the mitigation site;

- Critical Habitat The mitigation site is located within a USFWS-designated critical habitat unit;
 and
- Unknown There is not presently sufficient information on substantive habitat requirements
 of the species or other data to determine its potential for occurrence within the mitigation
 site.

2.3. Wildlife, Habitat Connectivity, and Conservation Opportunities

The mitigation site was evaluated for its overall conservation value under existing conditions by reviewing several datasets including:

- CDFW's Biogeographic Information and Observation System (BIOS6 version 6.24.1120);
- CDFW's Areas of Conservation Emphasis (ACE); and
- California Essential Habitat Connectivity Project "Essential Connectivity Areas" and "Natural Landscape Block".

CDFW's ACE is an effort to gather spatial data on wildlife, vegetation, and habitats from across California and then combine this information into maps to inform conservation of biodiversity, habitat connectivity, and climate change resiliency (CDFW 2019).

The California Essential Habitat consists of a statewide network of relatively intact blocks of land connected by essential connectivity areas (Spencer et al. 2010). The purpose of the Natural Landscape Block is to focus attention on large areas important to maintaining ecological integrity at the broadest scale (Spencer et al. 2010).

3. Results

3.1. Environmental Setting

<u>3.1.1.</u> <u>Overview</u>

The mitigation site straddles the Western Pacific Railroad and consists of fairly steep rolling hills covered with grass and herbs with stock ponds occurring within the low-lying drainages and some grassy plains to the northeast.

3.1.2. Climate

The mitigation site has a Mediterranean climate characterized by warm dry summers and cool wet winters. Average high temperatures range from the mid-50s in winter to the mid-80s in summer, while average low temperatures range from the mid-30s to the upper 50s. Rainfall in the Ranch area averages about 15 inches per year, with most of it coming during the winter months. Temperatures typically remain mild year-round due to its location on the east side of California's Central Valley. Summers tend to be sunny and dry, with occasional breezes from the nearby mountains providing some relief from the heat. Winters are typically wet and cool, with air temperatures often dropping below freezing at night. However, snow is rare. (Best Places 2024)

3.1.3. Topography and Hydrology

Topography within the mitigation site varies from relatively flat plains around 500-foot elevations above mean sea level (amsl) near the eastern edge to fairly steep hilly terrain above 600 foot elevation amsl along the western edge. In general, the mitigation site is sloped to the northeast. The raised Western Pacific Railroad bed transverses the mitigation site from the northwest corner to the southeast corner. Several drainages occur in the mitigation site (Figure 5). Most of these drainage headwaters occur to the off site to the west and transverse the mitigation site in a

eastern direction. At least one stock pond has been constructed within each of the major drainages. All aquatic features are shown in Figure 5¹.

The steep terrain allows for a lot of surface area and the clayey soil restricts (see Soils section below) the amount of ground water recharge creating a lot of storm runoff into the drainages during and shortly after rain events. As previously mentioned, most of the major drainages have stock ponds constructed to detain this storm runoff water for watering livestock. Additionally, the huge watersheds that occur, mostly offsite, allow some ground water recharge which eventually moves downslope and discharges from the various seeps/springs located at the hill toe slopes or within the drainages.

3.1.4. Geology and Soils

The geology within the mitigation site area (Figure 7) is composed of Upper Cretaceous aged marine sedimentary and metasedimentary rocks consisting of sandstone, shale, and conglomerate (KU) as well as Miocene aged marine sedimentary rocks consisting of moderately to well consolidated sandstone, shale, siltstone, conglomerate, and breccia (M), and Quaternary aged nonmarine sedimentary rocks consisting of loosely considated sandstone, shale, and gravel deposits from the Pleistocene epoch (QPc) (Jennings et al. 1977).

Soils within the mitigation site are diverse but generally consist of clays to clay loams textures within eight soil series types and four mixed soil series complex types:

- Altamont clays;
- Diablo clays;
- Linne clays; and
- Pescadero clay loam (Figure 8 and Table 1).

Table 1. occurring	Table 1. Natural Resource Conservation Service Soil Mapping Units occurring within the Mitigation Site									
Map Unit Symbol	Soil Unit									
	Alameda County									
AmE2	Altamont clay, moderately deep, 30 to 45 percent slopes									
ArD	Altamont rocky clay, moderately deep, 7 to 30 percent slopes									
DbD	Diablo clay, 15 to 30 percent slopes, MLRA 15									
DbE2	Diablo clay, 30 to 45 percent slopes, eroded									
DbC	Diablo clay, 7 to 15 percent slopes									
LaC	Linne clay loam, 3 to 15 percent slopes									
LaD	Linne clay loam, 15 to 30 percent slopes, MLRA 15									
Pd	Pescadero clay loam, 0 to 6 percent slopes, MLRA 14									

¹ Please note a formal wetland delineation has not been completed on the mitigation site, these acreages have not been field verified.

3.1.5. Land Cover

The landcover on the mitigation site is dominated by annual grasslands, with seeps/springs, stock ponds, swales and other wetlands associated with the various drainages (Figure 5). The area that will contain the 182.1 acres of mitigation credit are shown in Figure 9.

3.1.5.1. Annual Grassland

Annual grasslands within the mitigation site are characterized by the dominance of non-native but naturalized annual grassland species with a subcomponent of native and nonnative forbs. The annual grassland habitat dominates the mitigation site landscape occurring on the well-drained uplands.

Vegetation. Dominant grasses observed include wild oats (*Avena* spp.), ripgut brome (*Bromus diandrus*), hare barley (*Hordeum murinum* ssp. *leporinum*), and soft brome (*Bromus hordeaceus*). Dominant forbs include common fiddleneck (*Amsinckia intermedia*), field bind weed (*Convolvulus arvensis*), dove weed (*Croton setiger*), and filaree (*Erodium* ssp.).

As the grassland habitats in the mitigation site approach drainages, stock ponds, and other aquatic features the vegetation composition changes to a greater percentage of hydrophytes ("waterloving" plants) including Italian ryegrass (*Festuca perennis*), Mediterranean barely (*Hordeum marinum* ssp. *gussoneanum*), and annual bluegrass (*Poa annua*) for the grasses and narrowleaf plantain (*Plantago laceolota*), few-seeded bitter-cress (*Cardamine oligosperma*), clovers (*Trifolium* ssp.) and tall annual willow herb (*Epilobium branchycarpum*) representing the forbs.

In addition, annual grassland habitats near roads, neighboring parcels, or other areas of disturbance (e.g., stock pond berms) tend to have a higher percentage of weedy nonnatives including thistles such as yellow starthistle (*Centaurea solstistialis*), Italian thistle (*Carduus pycnocephalus*), milk thistle (*Silybum marianum*), and bull thistle (*Cirsium vulgare*).

Wildlife. Annual grasslands provide breeding habitat for a variety of grassland birds. Among those observed during field surveys include western meadowlark (*Sturnella neglecta*), lark sparrow (*Chondestes grammacus*), and savannah sparrow (*Passerculus sandwichensis*). Annual grasslands also provide foraging habitat for many bird species that breed in adjacent habitats.

Annual grasslands provide important habitat for many mammal species, particularly small rodents and their larger predators. Mammals or their signs (i.e., scat, tracks, dens) observed in the annual grasslands onsite include black-tailed hare (*Lepus californicus*), California ground squirrel (*Otospermophilus beecheyi*), Botta's pocket gopher (*Thomomys bottae*), California deer mouse (*Peromyscus maniculatus*), California vole (*Microtis californicus*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), Virginia opossum (*Didelphis marsupialis*), and coyote (*Canis latrans*).

Representative photographs of the habitats occurring onsite are provided in Appendix D.

3.1.5.2. Drainages

Drainages are characterized by seasonally flowing waterways that convey storm water. These drainages are general U-shaped in cross-section with earthen bed and banks. The drainages onsite are ephemeral in nature and flow only during and shortly after storm events. Most of the drainages are fairly narrow (1-4 wide) and shallow (1 to 4 deep) (Figure 5).

Vegetation. The vegetation composition of the drainages depends on slope and soil thickness. Steeper slopes sections of the drainage support many of the same species associated with the grasslands but favor those with root systems that can withstand the fast-flowing water for short periods. Those sections of the drainages that are flat and/or near the onsite stock ponds and seep habitats tend to support more hydrophytes especially grasses such as Italian ryegrass, Mediterranean barely, and annual bluegrass. Portions of these drainages have thin soils or eroded bedrock support a sparse assemblages of plant species varying from nonhydrophytes to hydrophytes depending on slope.

Wildlife. Due to their ephemeral nature. The drainages do not offer much habitat for wildlife except for their hydrologic contributions to stock ponds and wetland habitats (e.g., seep, swale, etc.) (See below).

3.1.5.3. Stock Ponds

Stock ponds are characterized by human-constructed ponds generally within drainageways to capture seasonal water for livestock. In the mitigation site and Ranch, several of these stock ponds have been constructed below seep/spring habitats (see Seep/Spring section below). Stock ponds associated with seep/spring habitats are perennial ponded with maximum depths of three to five feet (Figure 5). The stock ponds without hydrologic inputs from seep/spring habitat are seasonally ponded and may not pond at all, or only for brief periods, during droughts.

Vegetation. Stock ponds associated with seep/spring habitats in the mitigation site generally have patches of emergent narrowleaf cattail (*Typha angustifolia*) with the submerged stonewort (*Chara* sp.) with occasional blooms of fishnet algae (*Hydrodictyon* sp.) and free-floating smaller duckweed (*Lemna minor*) and mosquito fern (*Azolla filiculoides*). The vegetation along the stock ponds edges are highly variable in cover, and to a lesser extent composition, depending on hydrology (drought and flood conditions) and livestock intensity. During drought conditions, the edges of the stock ponds are sparsely vegetated and during high livestock use, denuded of vegetation. Overall, the stock ponds within the mitigation site are dominated by hydrophytes including brass buttons (*Cotula coronopifolia*), tall flat sedge (*Cyperus eragrostis*), willow herbs (*Epilobium* ssp.), rushes (*Juncus* ssp.), purple sandspurry (*Spergularia rubra*), Italian ryegrass, Mediterranean barely, and annual bluegrass.

Wildlife. The stock ponds onsite offer excellent habitat for California tiger salamander (*Ambystoma californiense*) and California red-legged frogs (*Rana draytonii*). Although they are perennial in nature the lack predators such as fish and American bull frog (*Lithobates catesbeianus*) and support abundance food sources in the form of aquatic invertebrates.

While not all of these species have been observed within the mitigation site, the emerging insects provide forage for swallows (Tree swallow [Tachycineta bicolor], violet-green swallow [Tachycineta thalassina], northern rough-winged swallow [Stelgidopteryx serripennis], barn swallow [Hirundo rustica], cliff swallow [Petrochelidon pyrrhonota]) and flycatchers (western kingbird, ash-throated flycatcher [Myiarchus cinerascens], and black phoebe [Sayornis nigricans]) as well as bats. A variety of bird species forage at the edge of these ponds including shorebirds (e.g., killdeer [Charadrius vociferus] and greater yellowlegs [Tringa melanoleuca]) and various

wading birds (great blue heron [Ardea herodias], great egret [Ardea alba]). Mallards (Anas platyrhynchos) and the occasional American wigeon (Mareca americana) forage through the algae for food items.

3.1.5.4. Seeps /Springs

Seep/Spring habitats are characterized by ground water that flows or seeps from the ground. In the mitigation site seeps/springs are associated with the drainageways where thinner soils prevail allowing subsurface storm water flows to daylight near bedrock sources.

Vegetation. Seeps/springs within the mitigation site are dominated by hydrophytes consisting of grasses and forbs including willow herbs, streamside monkey flower (*Erythranthe guttata*), Italian ryegrass, common spikerush (*Eleocharis macrostachya*), rabbits foot grass (*Polypogon monspeliensis*), and toad rush (*Juncus bufonius*) with occasional patches of saltgrass (*Distichilis spicata*) and curly dock (*Rumex crispus*).

Wildlife. Because of the small size and depth of water within this habitat, wildlife use is limited. Wildlife species observed in this habitat include greater yellow legs (*Tringa melanoleuca*), killdeer (*Charadrius vociferus*), black phoebe (*Sayornis nigricans*), Brewer's blackbird (*Euphagus cyanocephalus*), European starling (*Sturnus vulgaris*), and mourning dove (*Zenaida macroura*). While not observed, other wildlife including racoon, Virginia opossum, grey fox (*Urocyon cinereoargenteus*) and coyote probably visit this habitat to forage or drink during the summer and fall.

3.1.5.5. Wetland

Wetland habitat is characterized by small depressional areas within the grassland habitat that have impervious subsurface soils (i.e., clays, hardpan [duripan] or bedrock) that seasonally inundate from stormwater flows from upslope ephemeral drainages. Three wetlands occur within the mitigation site. Two are located in the southeast corner and have been inadvertently created from the construction of the adjacent elevated Western Pacific Railroad bed that detains storm water flows. The third wetland is associated with the largest and more intermittent drainage located in the northwest corner. This wetland has resulted from stormwater restrictions from flowing through the undersized passage at bottom of the railroad berm.

Vegetation. The two southern located wetland habitats onsite were dominated by hyssop loosestrife (*Lythrum hyssopifolia*), Italian ryegrass, Mediterranean barely, common knotweed (*Polygonum aviculare*), and toad rush (*Juncus bufonius*) with some curly dock (*Rumex crispus*). The larger wetland located in the northwest corner is dominated by hydrophytic grasses and forbs similar to the seep/spring habitats discussed above.

Wildlife. Wildlife use within the largest wetland would be similar to that of the Seep/Spring habitat and offers temporary migration habitat for CRLF. Due to the ephemeral nature of the two smaller wetlands, only short-lived residence invertebrates and transitory migrating vertebrates utilize this habitat. Large numbers of crustaceans live in this habitat including seed shrimp (*Ostracods*), copepods (*Copepoda*), and water fleas (*Cladocerans*) and other aquatic invertebrates (e.g., water mites [*Hydroacarina*], flat worms [microturbularians], springtails [*Collembolla*]). These

species are food for a variety of amphibians including Sierran tree frog larvae, western toad larvae, and young CRLF's who also use this habitat for dispersal.

3.1.5.6. Swale

Swale habitat is associated with the drainages onsite and are general continuations or sections of ephemeral drainages that lack a defined bed and bank due to erosional forces of flowing water. Swales are generally broad, shallow, slightly sloped water conveyance habitats.

Vegetation. Swales are generally vegetaion by dense cover of hydrophytic grasses consisting of Italian ryegrass, Mediterranean barely, and annual bluegrass. Forbs are subdominant and generally consisted of toad rush (*Juncus bufonius*) with some curly dock (*Rumex crispus*).

Wildlife. Wildlife use was similar to the ephemeral drainage habitats described above.

Representative photographs of habitats and species occurring within the mitigation site and Ranch occur in Appendix D.

3.2. Special-status Species

The results of the habitat assessment are summarized below in Table 2, which provides the status of the species, its range, general habitat requirements, and a brief discussion on its potential to occur within the mitigation site.

Table 2. Special-status	Table 2. Special-status Species with a Potential to Occur within the Mitigation Site							
Common Name Scientific Name	Federal Status	State Status	CNPS	Range	General Habitat	Potential To Occur Onsite		
				Wildlife				
California tiger salamander Ambystoma californiense	FT	ST	-	Occurs from Yolo County to Kern County in the Central Valley, up to 2,000 feet elevation in the Sierra Nevada foothills	In winter, breeds in vernal pools and seasonal wetlands with a minimum 10-week inundation period. In summer, occupies grassland habitat, primarily in small mammal burrows.	Present. CTS larvae have been observed in numerous stock ponds in the mitigation site.		
California red-legged frog Rana draytonii	FT	-	-	Occurs Sonoma and Butte counties in the north to Riverside to the south.	In habits ponds, marshes, and creeks with still water for breeding. Riparian and upland habitat with dense vegetation and open areas for cover, aestivation, food and basking.	Present. Adults, juveniles, and larvae have been documented in the mitigation site.		
Foothill yellow legged frog Central Coast DPS Rana boylii pop. 4	FT	CE	-	Occurs in the East Bay and south of Sac Francisco Bay in the Coast Ranges to San Benito and Monterey Counties.	Inhabits moderate to high gradient streams in woodland, forest, mixed chaparral, and wet meadow habitats with rock and gravel substrate and low overhanging vegetation along the edge; usually found near riffles with rocks and sunny banks nearby	None. Suitable habitat for this species (streams in woodlands, chaparral) is not present.		
Western spadefoot Spea hammondii	FT	SSC	-	Species is found throughout the Central Valley and coastal lowlands from Shasta County in Northern California to Baja California in Mexico, at elevations ranging from sea level to 4,500 feet	In winter, breeds in vernal pools and seasonal wetlands with a minimum 3-week inundation period. In summer, aestivates in grassland habitat, in soil crevices, and rodent burrows	Low. Although suitable habitat is present, this species would have been detected during CTS and CRLF surveys if present.		

Golden eagle Aquila chrysaetos	-	FP	-	Winter range spans most of California; breeding range excludes the Central Valley floor	Forages in a variety of open habitats, including grassland, pasture, and cropland; Nests primarily on cliffs, rock outcrops, and in large trees	Present. This species has been observed foraging just outside the western edge of the mitigation site. However, no nesting habitat is present in the mitigation site.
Swainson's hawk Buteo swainsoni	-	ST	-	Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley; the state's highest nesting densities occur near Davis and Woodland, Yolo County.	Nests in oaks or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, and grain fields.	Moderate. The mitigation site provides suitable foraging habitat however this species has not been observed.
Northern harrier Circus hudsonius	-	SSC	-	Found throughout California, breeding range covers northeastern plateau, northern coast, Central Valley, central coast, and portion of the southern coast and southern deserts. Nonbreeding season found in most lowland areas of California.	Breeding and foraging includes treeless habitats with adequate prey, cover, and perches. Suitable habitat includes freshwater marshes, brackish and saltwater marshes, wet meadows, margins of lakes, rivers, and streams, grasslands, weed fields, croplands, and desert sinks.	Present. Although this species has been observed foraging in the mitigation site, nesting has not been verified.
White tailed kite Elanus leucurus	-	FP	-	Occurs from west coast and Gulf Coast south to Mexico, Central American and eastern South America	Found in grasslands, open woodlands, savannas, marshes and cultivated fields.	Moderate. The mitigation site provides suitable foraging habitat however this species has not been observed.
Tricolored blackbird Agelaius tricolor	-	ST	-	Year-round residents throughout the Central Valley and the central and southern coasts, with additional scattered locations throughout California. Breeding occurs in the foothills of the Sierra Nevada south to Kern County, the	Nests colonially in large, dense stands of freshwater marsh, riparian scrub, and other shrubs and herbs; forages in grasslands and agricultural fields.	Moderate. Suitable foraging habitat is present in the mitigation site. This species has been observed foraging in mitigation site.

				coastal slopes from Sonoma County to the Mexican border, and sporadically in the Modoc Plateau		
Loggerhead shrike Lanius ludovicianus	-	SSC	-	Occurs throughout California, except for the northwest, heavily forested higher mountains and higher areas of deserts.	Open habitats, including pastures, old orchards, cemeteries, golf courses, agricultural fields, riparian areas, and woodlands. In Central Valley, associated with grasslands, irrigated pasture, and grain and hay fields. Nests in trees and shrubs	Present. This species has been observed foraging on the mitigation site. Although nesting has not been verified.
Grasshopper sparrow Ammodramus savannarum	-	SSC	-	Occurs across North America and ranges from southern Canada to Ecuador.	Grassland, hayfields, prairies. Breeds in rather dry fields and prairies, especially those with fairly tall grass and weeds and a few scattered shrubs. Also nests in overgrown pastures and hayfields, and sometimes in fields of other crops	Low. Although the mitigation site has abundant annual grasslands that support potential breeding and foraging habitat for this species, it is associated more with fields (pastures and hayfields) and would have been observed during surveys if present.
Short eared owl Asio flammeus	-	SSC	-	Circumpolar from the Arctic to the North Temperate Zone, and is also found in Hawaii and much of South America. It is partially migratory, moving south in winter from the northern parts of its range.	Forages in grassland habitats and nests on the ground in prairie, tundra, savanna, meadow, and grassland habitats. Species will also nest and forage in shrubby habitats with grasses understory and in wheat fields.	Low. Although this species prefers tall grass or grasslike plants areas for nesting and foraging which occurs on site, it general prefers flat terrain which is more limited onsite. Additionally, this species would have been observed during the

						numerous surveys, if present.
Burrowing owl Athene cunicularia	-	Candidate	-	Lowlands throughout California, including the Central Valley, northeastern plateau, southeastern deserts, and coastal areas; rare along south coast.	Open, dry annual or perennial grasslands, deserts, and scrublands characterized with low vegetation, usually on gently sloping terrain.	Present. This species has been observed being flushed from burrows within the mitigation site.
Longhorn fairy shrimp Branchinecta longiantenna	FE	-	-	Occurs in five locations from Contra Costa County in the north to San Luis Obispo County in the south.	Found in clear, freshwater vernal pools, claypan pools or freshwater depressions in sandstone. Generally, prefers alkaline pools.	Not likely. No vernal pools, alkaline pools, or rock outcrop pools are present within the mitigation site.
Vernal pool fairy shrimp Branchinecta lynchi	FE	-	-	Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains	Inhabits small, clear-water sandstone depression pools and grassed swale, earth slump, or basalt-flow depression pools.	Low. No vernal pools are present within the mitigation site. However, the seasonally inundated wetlands and the more ephemeral stock ponds within the mitigation site could provide suitable habitat.
Crotch's bumble bee Bombus crotchii		CE	G2 S2	Occurs throughout the Pacific Coast, Western Desert, and adjacent foothills throughout most of the state's southwestern region.	Inhabits grasslands and shrublands.	Moderate. Potential habitat for this species occurs onsite. However, this species has not been observed on the mitigation site.
Western bumble bee Bombus occidentalis	-	Candidate	-	Occurs in the Sierra Nevada and central coast of California north through British Columbia to Alaska and east to Idaho, Montana, western Nebraska, western North Dakota, western South Dakota, Wyoming, Utah, Colorado, northern Arizona, New Mexico and southwest Saskatchewan	Colonial ground nester in a wide variety of habitats generally in close proximity to nectar plants.	Low. Potential habitat for this species occurs onsite. However, the mitigation site is outside of the current known range and this species has not been observed on the mitigation site.

Valley elderberry longhorn beetle Desmocerus californicus dimorphus	FT	-	-	Occurs in the Central Valley from Shasta County in the north through Madera County in the south.	Host plant is the elderberry shrub (Sambucus spp.), a shrub that grows in riparian areas and foothill oak woodlands.	None. The host plant is not present.
San Joaquin kit fox Vulpes macrotis mutica	FE	ST	-	Occurs in San Joaquin Valley extending from south Kern County north to Contra Costa, Alameda, and San Joaquin counties on the western side of the valley and to Stanislaus County on the eastern side.	Occurs in the desert and grasslands of the San Joaquin Valley, preferable areas with minimal shrubs and grasses.	Moderate. Current assessments by USFWS have assessed this part of the species range as having a "very low" condition and have determined there is no current population in this part of the range, though individuals may periodically disperse this far north. Nonetheless, suitable habitat is present and although the mitigation site is located at the northern distribution of the species range future occupation is possible.
Western mastiff bat Eumops perotis californicus	-	SSC	-	Uncommon resident in southeastern San Joaquin Valley and the Coastal Ranges specifically residing between Monterey County to Southern California and from the California coast east to the Colorado Desert.	Typically roosts in crevices in cliffs and rocky outcrops, in colonies of fewer than 100 individuals. May also roost in bridges, caves and buildings that allow sufficient height and clearance for dropping into flight. There is at least one record of this species roosting in an untrimmed palm tree. Forages in a variety of grassland, shrub, and wooded habitats, including riparian and	Low. No cliffs or rocky outcrops are present. However, this species may forage within the mitigation site.

					urban areas, although most	
					commonly in open, arid lands.	
American badger Taxidea taxus	-	SSC	-	Uncommon solitary species that is widely distributed throughout the state except in the northern North Coast area from below sea level to over 12,000 ft	Prefers drier open shrub, forest, and herbaceous habitats with friable soils. Home range typically varies in size between 5 and 1,800 acres but can become much larger during breeding season as males locate receptive females. Natal dens are constructed in dry, sandy soil with sparse overstory	High. Suitable habitat is present and this species is known to occur on adjacent properties. However, this species has not been observed in the mitigation site.
Pallid bat Antrozous pallidus	-	SSC	-	Occurs throughout California except for the high Sierra Nevada from Shasta to Kern Counties to northern Mendocino County.	Deserts, grasslands, shrublands, woodlands, and forests; most common in open, dry habitats; typically roosts in rock crevices, also in tree hollows, bridges, and buildings, in colonies ranging from 1 to more than 200 individuals	Low. No cliffs or rocky outcrops are present. However, this species may forage in the mitigation site.
Townsend's big eared bat Corynorhinus townsendii	-	SSC	-	Occurs throughout the west and is distributed from the southern portion of British Columbia south along the Pacific coast to central Mexico and east into the Great Plains, with isolated populations occurring in the central and eastern United States.	Habitat associations include coniferous forests, mixed meso-phytic forests, deserts, native prairies, riparian communities, active agricultural areas, and coastal habitat types. Typically found in areas with caves and cavelike roosting habitat, with population centers occurring in areas dominated by exposed, cavity forming rock and/or historic mining districts	Low. No roosting habitat is present in the vicinity. However, this species may forage in the mitigation site.

Northern California legless lizard Anniella pulchra	-	SSC	-	Occurs from the southern edge of the San Joaquin River in Contra Costa County south to Ventura County.	Inhabits sparsely vegetated area of bean dunes, chaparral, pine oak woodland, desert scrub, sandy washes and stream terraces.	None. Suitable habitat for this species (sandy or loose soils) is not present.
California glossy snake Arizona elegans occidentalis	-	SSC	-	Occurs from the eastern part of San Francisco Bay Area south to northwestern Baja.	Scrub, rocky washes, grasslands and chaparral, prefers open areas with loose soil for burrowing.	None. Suitable habitat for this species (sandy or loose soils) is not present.
San Joaquin coachwhip Masticophis flagellum ruddocki	-	SSC	-	Endemic to California, ranging from Kern County north to portions of Alameda County.	Dry, treeless areas with little to no cover, including valley grassland and saltbush scrub. Mammal burrows used for overwintering.	Moderate. Habitat is generally suitable though the species has not been observed in the mitigation site.
Alameda whipsnake Masticophis lateralis euryxanthus	FΤ	ST	-	Occurs in Alameda and Contra Costa counties.	Found in northern coastal scrub and chaparral habitat. May also occur in grasslands, open woodlands, rocky slopes near scrub and chaparral.	Not likely. This species is associated with chapparal habitats which do not occur onsite.
Northwestern pond turtle Actinemys marmorata	PT	SSC	-	North of San Francisco Bay area and north Central Valley	Found in ponds, streams, lakes, rivers, creeks, marshes and irrigation ditches with abundant vegetation.	Low. Not observed during previous surveys of ponds. No suitable nesting habitat (friable soils) occurs in the mitigation site.
Coast horned lizard Phrynosoma blainvillii	-	SSC	-	From Baja California west of the Sierra Nevada, north to Bay Area and Shasta	Open areas with sandy soils and low vegetation in valleys, foothills, and semiarid mountain.	Not likely. Sandy soils are not present onsite and native ant colonies were not detected during surveys.
				Plants		
Caper fruited tropidocarpum Tropidocarpum capparideum	-	-	1B.1	Alameda, Contra Costa, Monterey, San Joaquin and San Luis Obispo Counties	Occurs at elevations of at 5 – 1,495 feet amsl and is associated with valley and foothill grasslands.	Low. Although potential habitat occurs onsite, the mitigation site occurs just outside of the species known range.

Large flowered fiddleneck Amsinckia grandiflora	-	-	1B.1	Alameda, Contra Costa, and San Joaquin counties	Occurs at elevations of 885 – 1,805 feet amsl; associated with cismonstane woodland and valley/foothill grasslands.	Moderate. Potential habitat occurs onsite.
Brittlescale Atriplex depressa	-	-	1B.2	Alameda, Colusa, Contra Costa, Fresno, Glenn, Kings, Merced, Solano, Tulare and Yolo counties	Occurs at elevations of 5 – 1,050 feet amsl; associated with chenopod scrub, meadows, seeps, playas, valley and foothill grassland.	Not likely. Saline and alkaline habitats are generally lacking onsite.
Lesser saltscale Atriplex minuscula	-	-	1B.1	Alameda, Butte, Fresno, Kern, Kings, Madera, Merced, Stanislaus, Tulare counties	Occurs at elevations of 50 – 655 feet amsl; associated with chenopod scrub, playas, valley and foothill grassland.	Not likely. Saline and alkaline habitats are generally lacking onsite.
Big tarplant Blepharizonia plumosa	-	-	1B.1	Alameda, Contra Costa, San Joaquim, Solano, Stanislaus counties	Occurs at elevations of 100 – 1,655 feet amsl; associated with clay areas of valley and foothill grassland.	Moderate. Potential habitat occurs onsite.
Lemmon's jewelflower Caulanthus lemmonii	-	-	1B.2	Alameda, Fresno, Kern, Kings, Merced, Monterey, San Joaquin, San Luis Obispo, Santa Barbara, Stanislaus, Ventura counties	Occurs at elevations of 260 – 5,185 feet amsl; associated with pinyon and juniper woodland and valley and foothill grasslands.	Not likely. The mitigation site occurs just outside of the species most northern distribution of its range.
Congdon's tarplant Centromadia parryi ssp. congdonii	-	-	1B.1	Alameda, Contra Costa, Monterey, San Luis Obispo, San Mater, Santa Clara, Santa Cruz, Solano counties	Occurs at elevations of 0 – 775 feet amsl; associated with valley and foothill grassland (alkaline).	Not likely. Associated with moist areas within nearly level alkaline grasslands that are absent onsite.
Hospital Canyon larkspur Delphinium californicum ssp. interius	-	-	1B.2	Alameda, Contra Costa, Merced, Monterey, San Benito, San Joaquin, Santa Clara, Stanislaus counties	Occurs at elevations of 640 – 3,595 feet amsl; associated with chaparral, cismonstane woodland, and coastal scrub.	Not likely. Associated with woody habitats that are absent onsite.
Diamond petaled California poppy Eschscholzia rhombipetala	-	-	1B.1	Alameda, Colusa, Contra Costa, Kern, San Joaquin, San Luis Obispo, Stanislaus counties	Occurs at elevations of 0 – 3,200 feet amsl; associated with valley and foothill grassland (alkaline, clay).	Low- Moderate. Although alkaline soils are generally absent, clay soils within annual

						grasslands habitats are plentiful onsite.
San Joaquin spearscale Extriplex joaquinana	-	1	1B.2	Alameda, Colusa, Contra Costa, Fresno, Glenn, Merced, Napa, Sacramento, San Benito, San Joaquin, San Luis Obispo, Solano, Yolo counties	Occurs at elevations of 5 – 2,740 feet amsl; associated with chenopod scrub, meadows and seeps, playas, valley and foothill grassland.	Not likely. Alkaline soils are generally absent onsite.
Brewer's wester flax Hesperolinon breweri	-	-	1B.2	Alameda, Contra Costa, Napa, Solano counties	Occurs at elevations of 100 – 3,100 feet amsl; associated with chaparral, cismontane woodland and valley and foothill grasslands.	Moderate. Annual grasslands habitats are plentiful onsite.
California alkali grass Puccinellia simplex	-		1B.2	Alameda, Butte, Colusa, Contra Costa, Fresno, Glenn, Kern, Kings, Lake, Los Angeles, Madera, Merced, Napa, San Bernadino, San Luis Obispo, Santa Clara, Santa Cruz, Solano, Stanislaus, Tulare, Yolo counties	Occurs at elevations of 5 – 3,050 feet amsl; associated with chenopod scrub, meadows and seeps, valley and foothill grasslands, vernal pools.	Not likely. Alkaline soils are generally absent onsite.
Chaparral harebell Ravenella exigua	-	-	1B.2	Alameda, Contra Costa, Fresno, Merced, San Benito, Santa Clara, Stanislaus counties	Occurs at elevations of 900 – 4,100 feet amsl; associated with chaparral habitat.	Not Likely. Chapparal habitat is absent in the mitigation site.
Showy golden madia Madia radiata	-	-	1B.1	Contra Costa, Fresno, Kern, Kings, Monterey, San Benito, San Joaquin, San Luis Obispo, Santa Barbara, Stanislaus counties	Occurs at elevations of 80 – 3,985 feet amsl; associated with cismontane woodland, valley and foothill grassland.	Moderate. Potential habitat is present in the mitigation site.
Shining navarretia Navarretia nigelliformis ssp. radians	-	-	1B.2	Butte, Contra Costa, Colusa, Fresno, Madera, Merced, Monterey, San Benito, San Joaquin, San Luis Obispo, and Tulare counties.	Occurs at elevations of 213 – 3,281 feet amsl; associated with cismontane woodland, valley and foothill grassland, vernal pools, swales, and clay flats.	Low. This species generally occurs in vernal pools or other similar seasonal wetlands which are generally absent in the mitigation site.

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Long-styled sand spurrey	-	-	1B.2		Occurs at elevations of 0 – 835	Moderate. Suitable
Spergularia macrotheca				Alameda, Contra Costa, Napa,	feet amsl; associated with	habitat (wetlands,
var. longistyla				Solano counties	meadows, seeps, marshes and	including seeps) occurs
					swamps.	in the mitigation site.

Definitions: <u>Federal Status</u> – FE = federally endangered, FT = federally threatened, FC = federal candidate; <u>State Status</u> – SE = state endangered, ST= state threatened, SSC= species of special concern, FP= fully protected. <u>CNPS Rare Plant Rank</u> - 1B = Rank 1B species: rare, threatened, or endangered in California and elsewhere, 1B.1 – seriously threatened in California, 1B.2 – Moderately threatened in California, 1B.3 – Not very threatened in California,

3.2.1. Special-Status Plants

Although no special-status plant species were observed onsite during surveys, there are six special-status plants known that have a moderate potential to occur in the mitigation site:

- Large flowered fiddleneck;
- Big tarplant;
- Diamond petaled California poppy;
- Brewer's wester flax;
- Showy golden madia; and
- Long-styled sand spurrey.

Though, all these species are considered rare, threatened, or endangered in California and elsewhere under CNPS 1.B ranking; none are listed as threatened or endangered under state or federal Endangered Species Acts. Because species focused special-status plants surveys have not yet been conducted; the presence, or presumed absence, of the above plant species and other special-status plants that are not known to occur within the vicinity of the mitigation site is largely unknown.

3.2.2. Special-status Wildlife

A total of five of the 28 special-status wildlife species listed in Table 2 were observed in the mitigation site (Figure 6) and include:

- California tiger salamander;
- California red-legged frog;
- Northern harrier;
- Loggerhead shrike; and
- Burrowing owl.

Two special status species, golden eagle and tricolored blackbird have been observed foraging just outside the boundary of the mitigation site (Figure 6).

An additional seven special-status wildlife species have at least moderate potential occur on the mitigation site and include:

- Swainson's hawk;
- White tailed kite:
- Crotch's bumble bee;
- San Joaquin kit fox;
- American badger; and
- San Joaquin coachwhip.

The presence or potential of the above-mentioned species are briefly discussed below.

3.2.2.1. California Tiger Salamander

California tiger salamander larvae were observed in SP-18, SP-19 and SP-21 in 2019 (Figure 6). CTS larvae were also observed in SP-16 in 2023 (Figure 6).

3.2.2.2. California Red-Legged Frog

Adult and immature CRLF have utilized various features throughout the mitigation site. CRLF were observed in SP-16 in 2014, SP-19 in 2024, SP-20 in 2023, and W-1² in 2023 and 2024

In addition, the mitigation site is within designated critical habitat for CRLF (Figure 10).

3.2.2.3. Golden Eagle

Golden eagles are viewed nearly every year during the winter and early spring season foraging on California ground squirrels and black tailed hares, and other wildlife prey (Figure 6). However, no suitable nesting habitat occurs within the mitigation site.

3.2.2.4. Tricolored Blackbird

Tricolored black birds are consistently observed year after year, foraging within the mitigation site. However, there is currently no nesting habitat within the mitigation site.

3.2.2.5. Northern Harrier

Although nesting has not been documented within the mitigation site, Northern harriers are consistently observed foraging over the stock ponds and annual grasslands within the mitigation site.

3.2.2.6. Loggerhead Shrike

Loggerhead shrikes have been documented foraging in the mitigation site. However, nesting of this species onsite has not been verified.

3.2.2.7. Burrowing Owl

Burrowing owls have been consistently observed within the mitigation site. Typically, individuals are observed after being flushed from burrows within the mitigation site. In particular, burrowing owls have been seen near SP-16 frequently during site visits (Figure 5). Individuals have been observed throughout the year; however, no nesting surveys have occurred.

3.2.2.8. Swainson's Hawk

Although Swainson's hawk has not been observed within the mitigation site, there is suitable foraging habitat present. Additionally, although nesting habitat for this species is absent in the mitigation site, numerous appropriate trees for nesting occur within the adjacent Ranch.

3.2.2.9. White Tailed Kite

Similar to Swainson's hawk, nesting habitat for white tailed kite is absent within the mitigation site; however, suitable foraging is abundant onsite and suitable nesting habitat (trees) occurs within the adjacent Ranch.

² This feature was not identified and surveyed until 2023.

3.2.2.10. Crotch's Bumble Bee

Suitable habitat is abundant onsite for Crotch's bumble bee. Although this species has not been observed onsite, species-specific surveys have not been conducted.

3.2.2.11. San Joaquin Kit Fox

Although this species has not been detected within the mitigation site, no species-specific surveys have been conducted for SJKF. Given that this species is generally nocturnal and highly secretive and it would not be surprising if this species was to be present onsite because suitable habitat is present.

3.2.2.12. American Badger

Although the American badger has not been observed onsite, there are huge populations of California ground squirrels, which are its preferred prey in this area of California. In addition, this species has a fairy large home range and could easily move on to the mitigation site, if it is currently not present.

3.2.2.13. San Joaquin Coachwhip

Although this species has not been observed within the mitigation site, species specific surveys have not been conducted to date. However, the potential for this species to occur is based on the presence of suitable habitat and nearby species presence.

3.2.3. Critical Habitat

Although the mitigation site supports a plethora of special-status species, the mitigation site occurs only within critical habitat for the California red-legged frog (Figure 10).

3.3. Wildlife, Habitat Connectivity, and Conservation Opportunities

The mitigation site and larger Mulqueeney Ranch provide habitat for many common wildlife species (i.e., non-special status), which include amphibians, reptiles, birds, and small to moderate-sized mammals. Generally, the mitigation site is situated in a transitional area between the Great Central Valley and the Coast Range, specifically the Diablo Range. This area is dominated by annual grasslands interspersed with ephemeral and intermittent drainages, some of which support riparian vegetation, seasonal wetlands, and ponds constructed to support cattle grazing. A list of all wildlife species observed on or adjacent to the mitigation site is included as Appendix C.

The mitigation site was evaluated for its overall conservation value under existing conditions by reviewing several datasets within CDFW's Biogeographic Information and Observation System (BIOS; BIOS6 version 6.24.1120). A discussion of the relevant conservation datasets in relation to the mitigation site is provided below.

The mitigation site is situated in area identified by the California Essential Habitat Connectivity Project as being part of a "Natural Landscape Block", which consists of a statewide network of relatively intact blocks of land connected by essential connectivity areas (Spencer et al. 2010). The purpose of the Natural Landscape Block is to focus attention on large areas important to maintaining ecological integrity at the broadest scale (Spencer et al. 2010). The northwestern

most half of the mitigation site also falls within Mountain House-Brushy Peak Essential Connectivity Area, which joins natural landscape blocks on either side of the Altamont Pass.

CDFW's ACE is an effort to gather spatial data on wildlife, vegetation, and habitats from across California and then combine this information into maps to inform conservation of biodiversity, habitat connectivity, and climate change resiliency (CDFW 2019). The mitigation site is situated in an area identified in the ACE Terrestrial Connectivity dataset as having "Conservation Planning Linkages – Rank 4" and is immediate west of an area ranked as having "Irreplaceable and Essential Corridors – Rank 5".

Other ACE data layers show the mitigation site occurring in an area identified as having a high value (Rank 5) for *Statewide Terrestrial Rare Species Richness* and moderately high value (Rank 4) for *Aquatic Amphibian Irreplaceability*.

Habitat in the area surrounding the mitigation site provide suitable habitat for various special status species. CTS breeding has been documented in ponds located on the nearby conserved Jess Ranch and Haera Conservation Bank (Figure 11). Additionally, in 2019 CTS were observed by WES staff in stock ponds located on the Ranch, within 1 mile of the mitigation site (Figure 6). Additional surveys on these ponds have not been completed since 2019. WES staff have observed CRLF in a seep just north of the mitigation site in 2019 and 2023. This seep is hydrologically connected to the mitigation by one of the ephemeral drainages. Tricolored blackbird and golden eagles have been seen foraging in various locations of the Ranch.

The proposed mitigation site is directly adjacent to the Shell N20 Mitigation Site, which is expected to be approved by USFWS and CDFW in early 2025. The Shell N20 Mitigation Site connects the Jess Ranch, a Contra Costa Water District mitigation site where the conservation easement has yet to be recorded, and Haera Wildlife Conservation Bank. Permanent protection of the mitigation site would increase the amount of conserved habitat and preserving connectivity to the conserved habitat.

There are two wind farms in the vicinity. A wind farm is just east of the mitigation site with the closest turbine 0.04 miles from the property. The Mulqueeney Wind Project, which is south of the mitigation site, began construction in 2025.

The conservation of the mitigation site would contribute to regional conservation efforts by helping maintain and improve wildlife connectivity in the Diablo Range, from north to south, and protect areas deemed of statewide importance for terrestrial and aquatic species.

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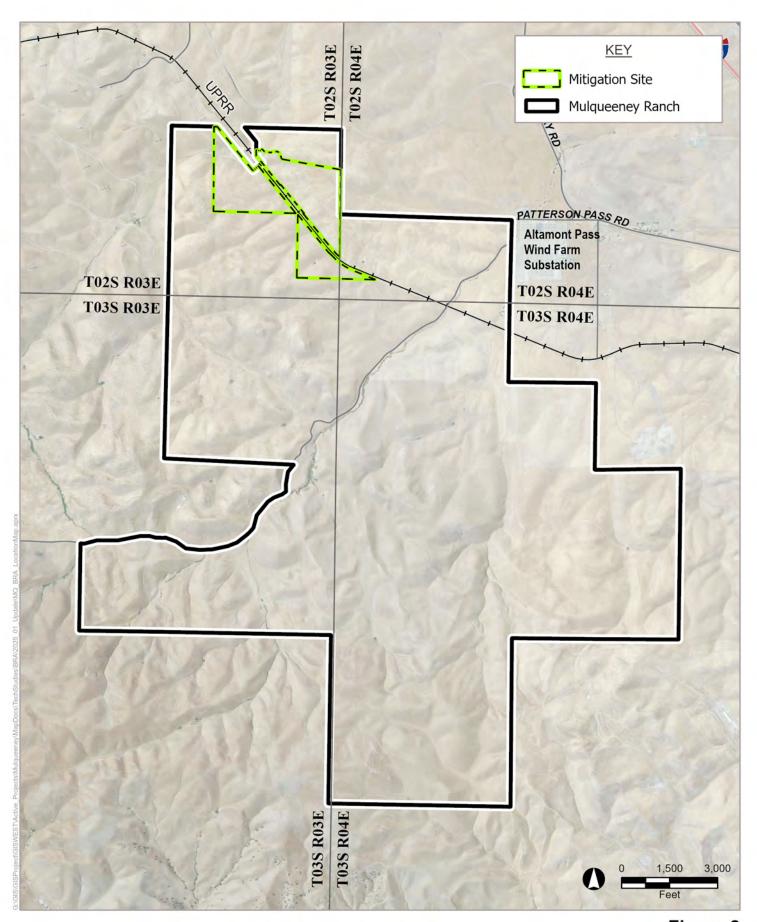
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APPENDICES

APPENDIX A Figures









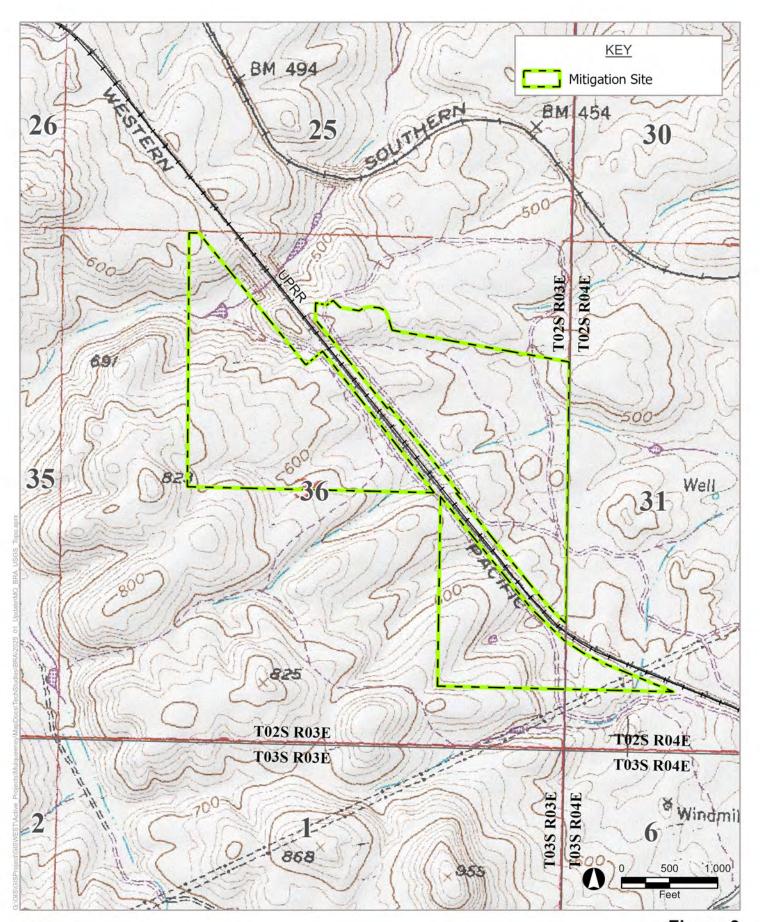
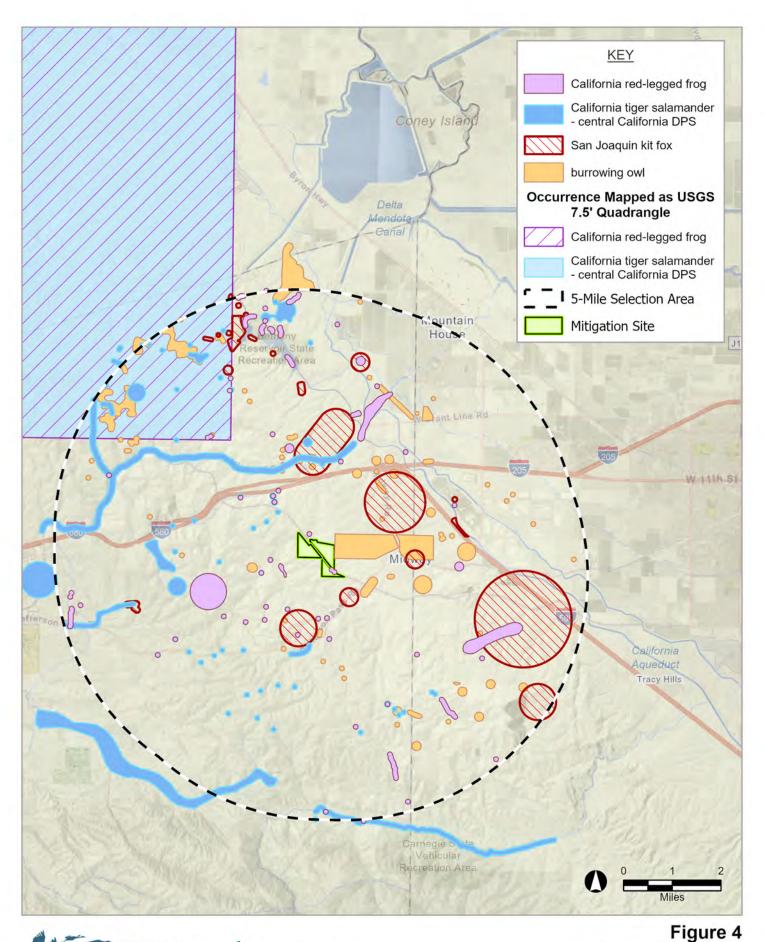
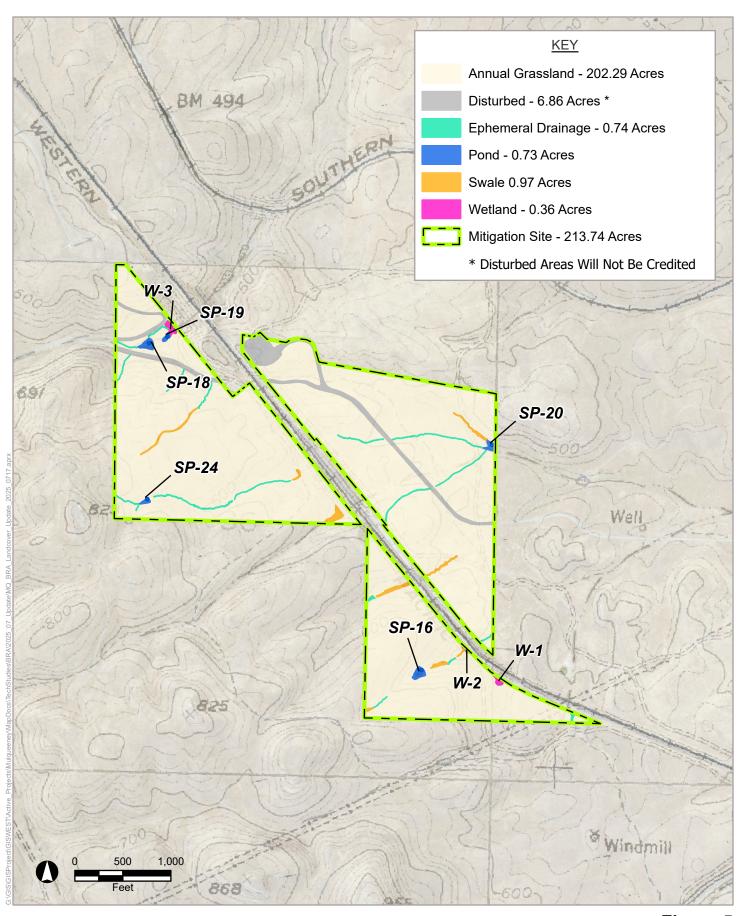




Figure 3
USGS Topographic Quadrangle
January 16, 2025









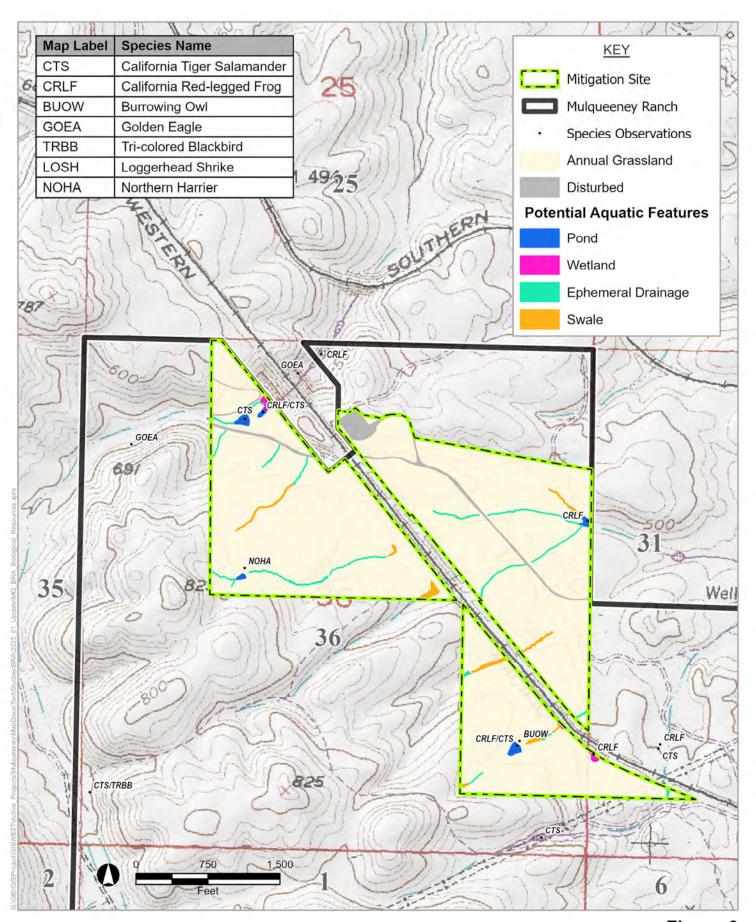
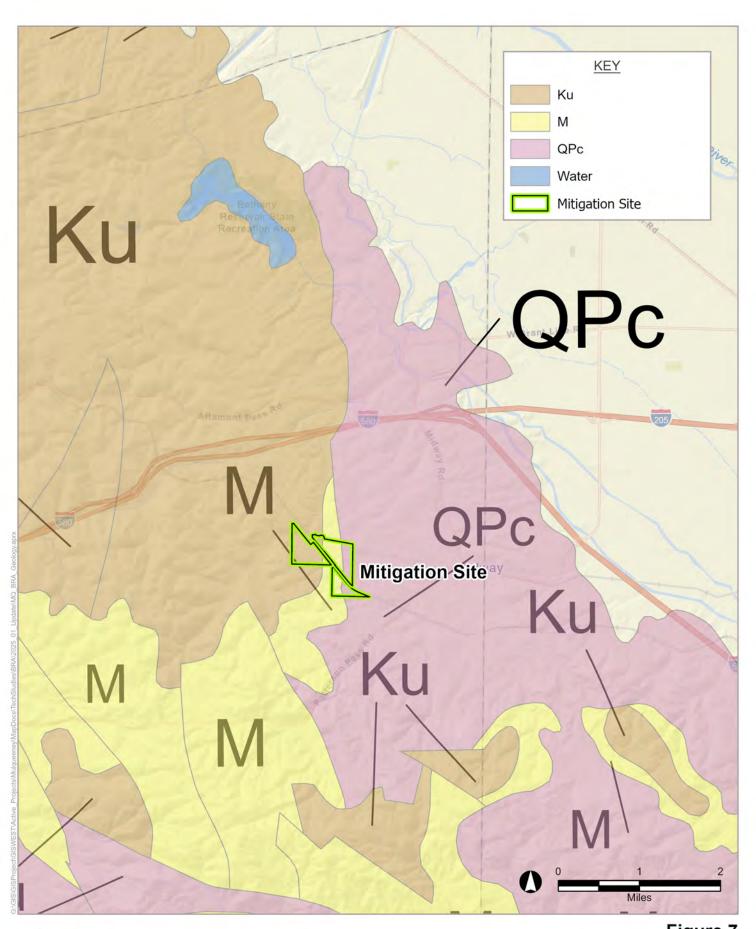




Figure 6
Biological Resources
January 21, 2025





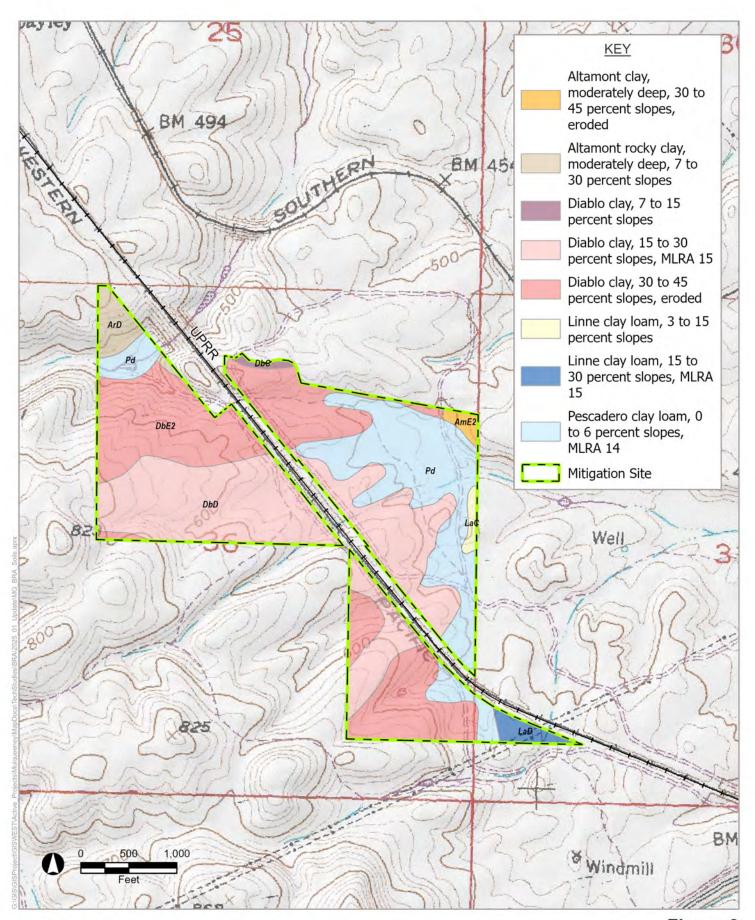




Figure 8 Soils

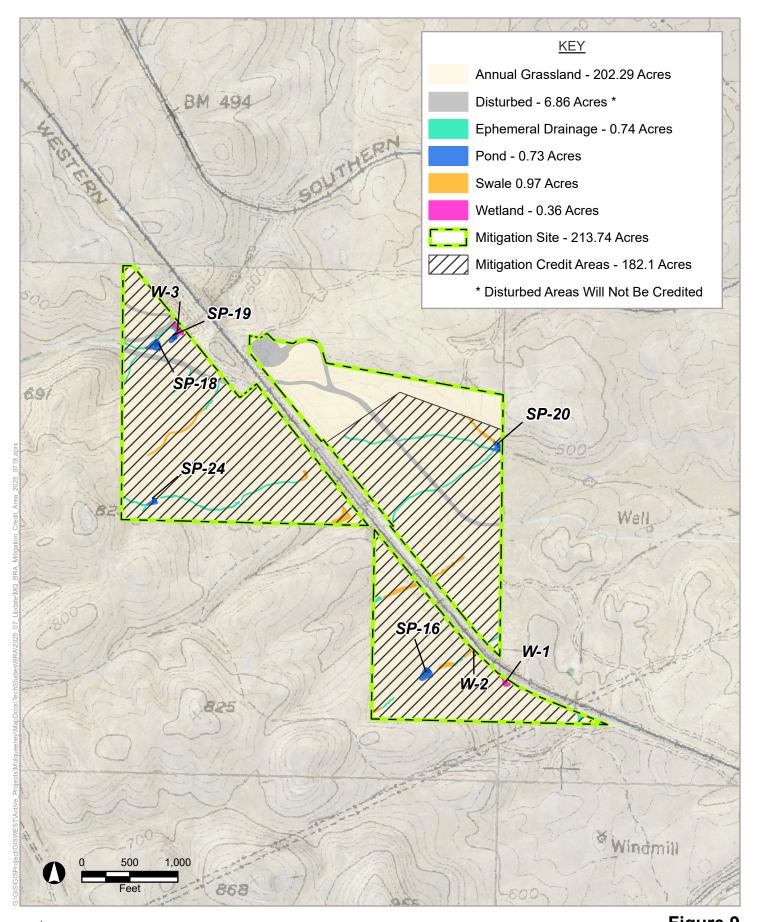
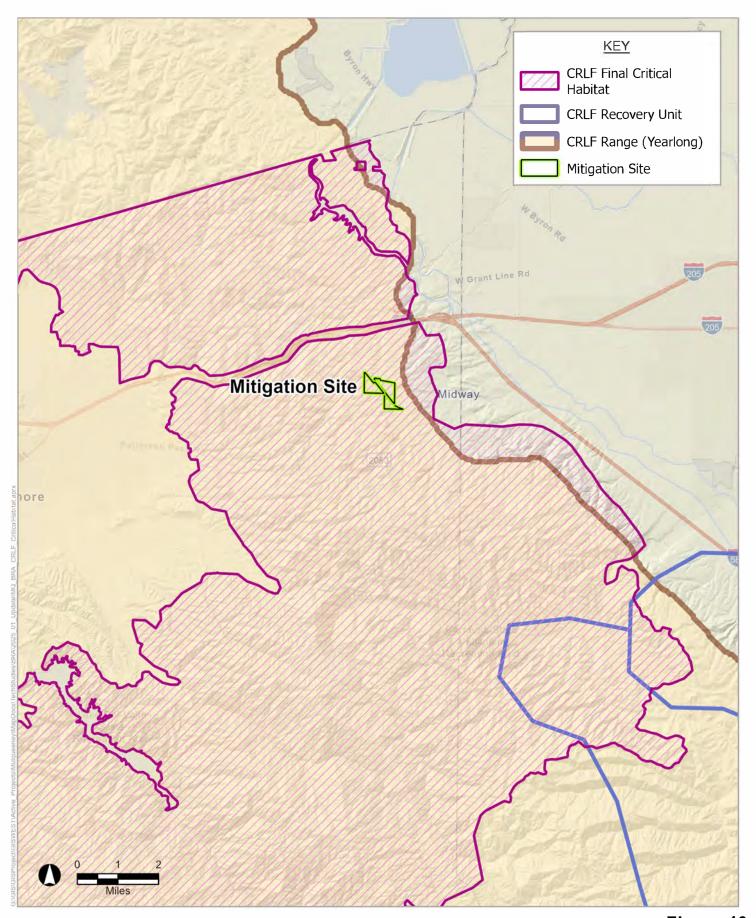
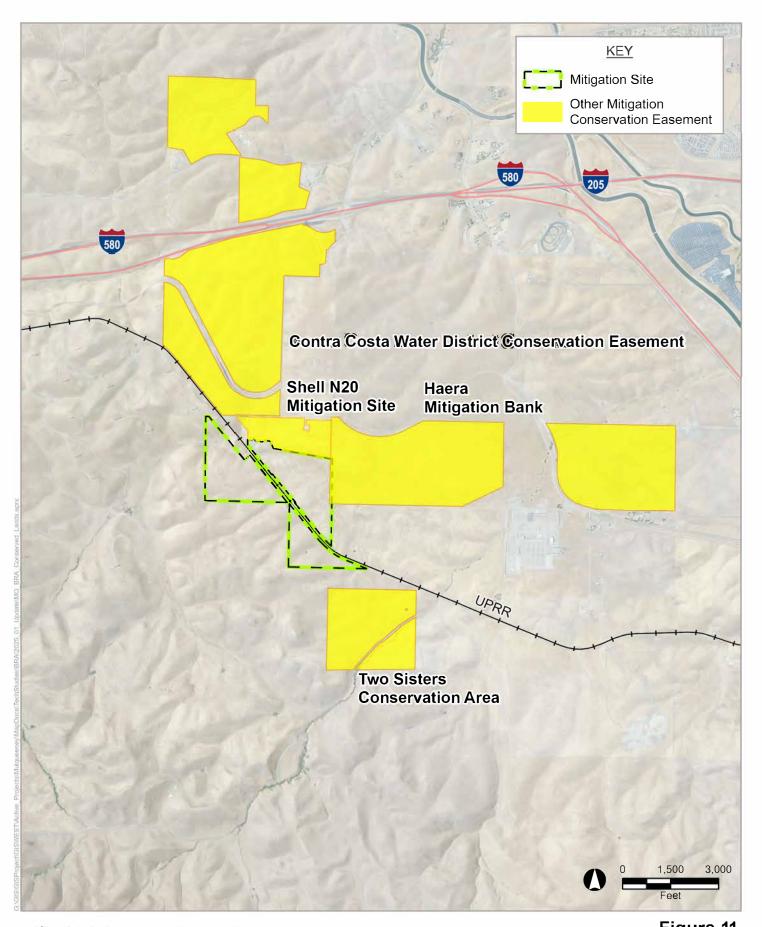




Figure 9
Map Identifying Location of Mitigation Credits
July 18, 2025









APPENDIX B Plant Species List

Table 1. Vascular Plant Species Observed at the Mitigation Site

Plant Species Names		Wetland Indicator Status	Cal-IPC Rating	Annual Grassland	Ha
Scientific Name	Common Name	Wetlan Status	al-IP	nnua	Stockpond
Agrostis stolonifera*	Creeping bentgrass, Redtop	FACW	L	¥	X
Aira caryophyllea*	Silver hairgrass	FACU		X	
Alisma triviale (A. plantago-aquatica)	Northern water plantain	OBL			X
Amaranthus albus*	Pigweed amaranth	FACU		X	
Amsinckia intermedia	Common fiddleneck	NL		X	
Anthemis cotula*	Mayweed	FACU		X	
Avena barbata*	Slender oats	NL	M	X	X
Azolla filiculoides	American water fern, mosquito fern	OBL			X
Brassica nigra*	Black mustard	NL	M	X	
Bromus diandrus*	Ripgut brome, Ripgut grass	NL	M	X	X
Bromus hordeaceus*	Soft brome	FACU	L	X	X
Calandrinia menziesii	Red maids	FACU		X	
Callitriche marginata	California water starwort	OBL			X
Capsella bursa-pastoris*	Shepard's purse	FACU		X	Ë
Cardamine oligosperma	Few-seeded bitter-cress	FAC		X	
Carduus pycnocephalus*	Italian thistle	NL	M	X	X
Castilleja densiflora?+	Dense flower owl's clover	NL	1/1	X	
Castilleja exserta+	Purple owl's clover	NL		X	
Centaurea melitensis*	Tocalote	NL	M	Λ	
Centaurea solstitialis*	Yellow star-thistle	NL	Н	X	X
Cerastium glomeratum*	Mouse-ear chick-weed	UPL		X	Λ
Chara sp.	Stonewort	OBL		Λ	X
Chenopodium album*	Goosefoot	FACU		X	71
Chlorogalum angustifolium+	Narrow leaved soaproot	NL		X	
Cichorium intybus*	Chicory	FACU		X	
Cirsium vulgare*	Bull thistle	FACU	M	X	X
Clarkia purpurea+	Purple clarkia	NL	111	X	
Convolvulus arvensis*	Field bindweed	NL		X	
Cotula coronopifolia*	Brass buttons	OBL	L	71	X
Crassula aquatica	Aquatic pygmy weed	OBL			X
Croton setiger	Dove weed	NL		X	X
Crypsis schoenoides*	Swampgrass, swamp timothy	FACW		Λ	X
Cynodon dactylon*	Bermuda grass	FACU	M	X	X
Cyperus eragrostis	Tall flatsedge, Umbrella-sedge	FACW	IVI	Λ	X
Deschampsia danthonioides	Annual hairgrass, silverhair grass	FACW		H	X
Distichlis spicata	Salt grass	FACW		X	A
Downingia pulchella	Flatface downingia	OBL		Λ	v
Echinochloa crus-galli*	Watergrass	FACW		Н	X
				H	X
Eleocharis macrostachya	Common spike rush	OBL		Ļ	X
Elymus caput-medusae*	Medusa-head grass	NL	Н	X	<u> </u>
Epilobium branchycarpum	Tall annual willow herb	FAC		X	X

Epilobium ciliatum	Slender willow herb	FACW			X
Erigeron canadensis	Canada horseweed	FACU		X	X
Eriogonum fasciculatum+	California buckwheat	NL		X	
Erodium botrys*	Broad leaf filaree	FACU		X	
Erodium cicutarium*	Red-stem filaree	NL	L	X	
Erodium moschatum*	White stemmed filaree	NL		X	
Erythranthe guttata (Mimulus guttatus)	Streamside monkey flower	OBL			X
Eschscholzia californica	California poppy	NL		X	
Festuca bromoides*	Six-weeks grass	FACU		X	
Festuca microstachya	Small fescue	NL		X	
Festuca myuros*	Foxtail grass	FACU	M	X	
Festuca perennis*	Italian ryegrass	FAC	M	X	X
Geranium dissectum*	Cut leaved geranium	NL	L	X	
Grindelia camporum	Great valley gumweed	FACW			X
Heliotropium curassavicum	Heliotrope	FACU		X	
Hirschfeldia incana*	Short podded mustard	NL	M	X	X
Hordeum marinum ssp. gussoneanum*	Mediterranean barley	FAC	M	х	X
Hordeum murinum ssp. leporinum*	Hare barley	FACU	M	X	
Hydrodictyon sp	Fishnet algae	OBL			X
Juncus balticus	Baltic rush	FACW			X
Juncus bufonius	Toad rush	FACW			X
Juncus xiphioides	Iris leaved rush	OBL			X
Lactuca serriola*	Prickly wild lettuce	FACU		X	
Lemna minor	Smaller duckweed	OBL			X
Lupinus bicolor	Bicolored lupine	NL		X	
Lupinus pachylobus?+	Big pod lupine	NL		X	
Lupinus succulentus	Succulent lupine	NL		X	
Lysimachia arvensis*+	Scarlet pimpernel	FAC		X	X
Lythrum hyssopifolia*	Hyssop loosestrife	OBL	L		X
Malva parviflora*	Cheeseweed mallow	NL		X	
Malvella leprosa+	Alkali mallow	FACU		X	
Matricaria discoidea	Pineapple weed	FACU		X	
Medicago polymorpha*	Bur clover	FACU	L	X	
Melilotus indicus*	Sourclover	FACU		-11	X
Mollugo verticillata*	Green carpetweed	FACU		X	<u> </u>
Nasturtium officinale+	Watercress	OBL			X
Paspalum dilatatum*	Dallis grass	FAC		H	X
Plagiobothrys nothofulvus	Rusty haired popcorn flower	FAC		X	- 11
Plantago lanceolata*	Narrow leaf plantain	FAC		X	X
Poa annua*	Annual bluegrass	FAC		X	X
Polygonum aviculare*	Common knotweed	FAC		Λ	X
Polypogon monspeliensis*	Rabbitsfoot grass	FACW	L	Н	
Pseudognaphalium luteoalbum*	Jersey cudweed	FAC	L	H	X
Ranunculus aquatilis	White water buttercup	OBL		H	
Ranunculus aquantis Ranunculus muricatus*	Spinyfruit buttercup	FACW		Н	X
	Wild radish		т	v	Λ
Raphanus sativus*		NL EAC	L	X	**
Rumex crispus*	Curly dock	FAC	L		X

Salix sp.	Willow	FACW			X
Silybum marianum*	Milk thistle	NL	L	X	X
Spergularia rubra*	Purple sandspurry	FAC			X
Stuckenia pectinata (Potomogeton pectinatus)	Sago pondweed	OBL			X
Trifolium dubium*	Shamrock	UPL		X	
Trifolium hirtum*	Rose clover	UPL	L	X	
Triphysaria eriantha+	Butter 'n' eggs	NL		X	
Triteleia hyacinthina+	White brodiaea	FAC		X	
Typha angustifolia*	Narrowleaf cattail	OBL			X
Urtica dioica	Stinging nettle	FAC			X
Veronica anagallis-aquatica*+	Water speedwell	OBL			X
Veronica peregrina	Neckweed	FAC			X
Vicia sativa	Common vetch	FACU		X	
Vicia villosa*	Hairy or winter vetch	NL		X	
Xanthium strumarium	Cocklebur	FAC			X

^{* =} non native, + = observed on the Ranch but outside the Mitigation Site

APPENDIX C Wildlife Species List

Table 4. List of Wildlife Observed within the Mitigation Site and Mulqueeney Ranch

Common Name	Scientific Name
Mammals	
Audubon's cottontail	Sylvilagus audubonii
Black-tailed jackrabbit	Lepus californicus
Botta's pocket gopher	Thomomys bottae+
California ground squirrel	Otospermophilus beecheyi
Coyote	Canis latrans
Gray fox*	Urocyon cinereoargenteus+
Raccoon	Procyon lotor+
Virginia opossum	Didelphis virginiana+
Birds	
American cliff swallow	Petrochelidon pyrrhonota
American crow	Corvus brachyrhynchos
American kestrel	Falco sparverius
American wigeon*	Mareca americana
Bald eagle*	Haliaeetus leucocephalus
Barn swallow	Hirundo rustica
Black phoebe	Sayornis nigricans
Brewer's blackbird	Euphagus cyanocephalus
Bufflehead	Bucephala albeola
Canada goose	Branta canadensis
Common starling	Sturnus vulgaris
Golden eagle	Aquila chrysaetos
Great blue heron	Ardea herodias
Great egret	Ardea alba
Greater yellowlegs	Tringa melanoleuca
Horned lark	Eremophila alpestris
Killdeer	Charadrius vociferus
Loggerhead shrike	Lanius Iudovicianus
Mallard	Anas platyrhynchos
Mourning dove	Zenaida macroura
Northern harrier	Circus hudsonius
Northern raven	Corvus corax
Red-tailed hawk	Buteo jamaicensis
Red-winged blackbird	Agelaius phoeniceus
Savannah sparrow	Passerculus sandwichensis
Tricolored blackbird	Agelaius tricolor
Turkey vulture	Cathartes aura
Western burrowing owl	Athene cunicularia hypugaea
Western kingbird	Tyrannus verticalis
Western meadowlark	Sturnella neglecta
Reptiles	
Northern Pacific rattlesnake*	Crotalus oreganus oreganus

Northwestern fence lizard

Sceloporus occidentalis occidentalis

Amphibians

California vad la prod from

California red-legged frog California tiger salamander California toad

Sierran treefrog

Rana draytonii Ambystoma californiense Anaxyrus boreas halophilus Pseudacris sierra

^{+ =} sign (tracks, burrows, etc.)

^{* =} Observed outside of Mitigation Site

APPENDIX D

Representative Photographs



Photo 1 (S): Stock pond where BUOW are present in adjacent burrows located in the mitigation site.



Photo 2 (W): Stock pond within the mitigation site where CTS larvae and adult CRLF have been observed.



Photo 3 (N): Drainage in the mitigation area.



Photo 4: CRLF found in a stock pond in the mitigation site.



Photo 5: CRLF found in drainage in the mitigation site.



Photo Point 6: CTS larvae detected during aquatic surveys in the mitigation site.



Photo Point 7: CTS larvae detected during aquatic surveys in the mitigation site.



Photo Point 8: Bald Eagle (Haliaeetus leucocephalus) observed in the mitigation site.



Photo Point 9: Burrowing Owl (Athene cunicularia) observed in the mitigation site.



REGIONAL LOCATIONS

Rocky Mountain Region

625 Park Point Drive, Suite 265 Golden, Colorado 80401 T: (303) 927-0037

Southeastern Region

ALABAMA
MAIN OFFICE
2128 Moores Mill Road, Suite B
Auburn, Alabama 36830
T: (334) 821-1999

FLORIDA

1400 Village Square Blvd., Suite #3-135 Tallahassee, Florida 32312 T: (850) 661-4292

TENNESSEE

220 Bridge Street
Franklin, Tennessee 37064
T: (615) 807-2194

Western Region

3636 American River Drive, Suite 120 Sacramento, California 95864 T: (916) 646-3644