

## **Appendix A**

### **Endangered Species Act Listed Species**

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**Special Status Species With Potential to Occur**

| Common Name Scientific Name                                                          | Federal Special Status* | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Habitat Association                                                                                                                                                                                                         | Seasonal Occurrence                                             | Potential Impact                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Invertebrates</b>                                                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                             |                                                                 |                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Valley elderberry longhorn beetle</b><br><i>Desmocerus californicus dimorphus</i> | T, X                    | Central Valley and surrounding foothills below 3,000 feet elevation.                                                                                                                                                                                                                                                                                                                                                                                                           | Dependent on elderberry shrubs (host plant) as a food source. Potential habitat is shrubs with stems 1 inch in diameter within Central Valley.                                                                              | Year round for host plant and exit holes; March-June for adults | Elderberry shrubs will not be impacted, therefore no impact to beetles will occur.                                                                                                                                                                                                                                                                               |
| <b>Vernal pool fairy shrimp</b><br><i>Branchinecta lynchi</i>                        | T, X                    | Endemic to the Central Valley, Central Coast Mountains, and South Coast Mountains of California. It ranges from the Stillwater Plain in Shasta County through most of the length of the Central Valley to Paisley in Tulare County, and along the central Coast Range from northern Solano County to Pinnacles National Monument in San Benito County. Disjunct populations were also reported to occur in San Luis Obispo County, Santa Barbara County, and Riverside County. | Inhabits the ephemeral water of swales and vernal pools. It is most commonly found in grassed or mud bottomed swales, earth sump, or basalt flow depression pools in unplowed grasslands.                                   | Has been collected from early December to early May.            | None. No occurrences have been documented in the Seller Service area. Crop fields and canals are not likely to support this species due to the presence of predators (i.e. fish), therefore no impacts are anticipated to the species. The project is not expected to impact vernal pools or natural wetlands.                                                   |
| <b>Vernal pool tadpole shrimp</b><br><i>Lepidurus packardii</i>                      | E, X                    | Endemic to the Central Valley of California, with the majority of the populations occurring in the Sacramento Valley. This species has also been reported from the Sacramento River Delta to the east side of San Francisco Bay, and from a few scattered localities in the San Joaquin Valley from San Joaquin County to Madera County                                                                                                                                        | Found in a variety of natural and artificial seasonally ponded habitat types including: vernal pools, swales, ephemeral drainages, stock ponds, reservoirs, ditches, backhoe pits, and ruts caused by vehicular activities. | Has been collected from early December to early May.            | None. No occurrences have been documented in the Seller Service area. Crop fields and canals are not likely to support this species due to the presence of predators (i.e. fish), therefore there is a low potential for impacts to the species. The project is not expected to impact vernal pools or natural wetlands. No impacts to the species are expected. |

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|----------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Amphibians</b>                                                    |                                        |                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                            |                                                                                                                                                                                                                                                                                                                        |
| <b>California Red-legged Frog</b><br><i>Rana draytonii</i>           | <b>T</b>                               | Throughout the Central Valley and coastal regions of central and southern California                                                                                                                                                                                                                                                                                             | Found mostly near ponds in humid forests, woodlands, grasslands, coastal scrub, and streambanks with plant cover. Frequently found in woods adjacent to streams.                                                                                                                                                                                                                                  | Year round                                                                                                                 | None. Occurrences have not been documented within the Seller Service Area. Suitable habitat may occur within the project area, but will not be impacted by the Proposed Action.                                                                                                                                        |
| <b>California tiger salamander</b><br><i>Ambystoma californiense</i> | <b>T<sup>1</sup>, E<sup>2</sup>, X</b> | Found in annual grassland habitat, grassy understories of valley-foothill hardwood habitats, and uncommonly along stream courses in valley-foothill riparian habitats. Occurs from near Petaluma, Sonoma Co., east through the Central Valley to Yolo and Sacramento Counties and south to Tulare Co.; and from the vicinity of San Francisco Bay south to Santa Barbara County. | Lives in vacant or mammal-occupied burrows, occasionally other underground retreats, throughout most of the year, in grassland, savanna, or open woodland habitats. Lays eggs on submerged stems and leaves, usually in shallow ephemeral or semi permanent pools and ponds that fill during heavy winter rains, sometimes in permanent ponds; breeding takes place in fish free pools and ponds. | Migrates up to about 2 km between terrestrial habitat and breeding pond. Migrations may occur from November through April. | None. Occurrences have not been documented within the Seller Service Areas. Suitable habitat may occur within the project area, but will not be impacted by the project.                                                                                                                                               |
| <b>Reptiles</b>                                                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                            |                                                                                                                                                                                                                                                                                                                        |
| <b>Giant garter snake</b><br><i>Thamnophis gigas</i>                 | <b>T</b>                               | Sacramento and San Joaquin Valleys from Butte County in the north to Kern County in the south.                                                                                                                                                                                                                                                                                   | Primarily associated with marshes, sloughs, and irrigation ditches. Generally absent in larger rivers.                                                                                                                                                                                                                                                                                            | Year round                                                                                                                 | None. Occurrences have been documented within the Seller Service Area. Suitable habitat is present within the project area. However the project is not expected to impact any aquatic habitat corridors within irrigation ditches. In addition, cropland idling would not occur. No impact to the species is expected. |
| <b>Western pond turtle</b><br><i>Actinemys marmorata</i>             | <b>Under review</b>                    | Ranged from extreme western Washington and British Columbia to northern Baja California, mostly to the west of the Cascade-Sierra crest.                                                                                                                                                                                                                                         | The western pond turtle occupies a wide variety of wetland habitats including rivers and streams (both permanent and intermittent), lakes, ponds, reservoirs, permanent and ephemeral shallow wetlands, abandoned gravel pits, stock ponds, and sewage treatment.                                                                                                                                 | Year round                                                                                                                 | None. Occurrences have been documented within the Seller Service Area. Suitable habitat is present within the project area. The project is not expected to impact any aquatic habitat corridors within irrigation ditches. In addition, cropland idling would not occur. No impact to the species is expected.         |

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| Common Name Scientific Name                                | Federal Special Status* | Distribution                                                                                                    | Habitat Association                                                                                                                                                                                                                                                                                                                                                                                                 | Seasonal Occurrence                                        | Potential Impact                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Birds</b>                                               |                         |                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Swainson's hawk<br><i>Buteo swainsoni</i>                  | SC,<br>MNBM             | Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley.                                  | Nests in mature trees, including valley oaks or cottonwoods in or near riparian habitats; forages in grasslands, irrigated pastures, and grain and row crop fields.                                                                                                                                                                                                                                                 | Spring and Summer; small wintering population in the Delta | None. CNDDDB occurrences have been documented within both the Seller Service Area. Suitable habitat is present within the project area. The project may alter the composition of foraging habitat in the Seller Service Areas, but these areas would still be suitable for the species, and additional habitats in the vicinity would be available. No impacts to riparian breeding habitat are expected from small changes in river flow. |
| Tricolored blackbird<br><i>Agelaius tricolor</i>           | Under review            | A resident in California found throughout the Central Valley and in coastal districts from Sonoma County south. | Breeds near fresh water, preferably in emergent wetlands with tall, dense cattails or tules, but also in thickets of willow, blackberry, wild rose, tall herbs. Feeds in grassland and cropland habitats.                                                                                                                                                                                                           | Year round                                                 | None. CNDDDB occurrences have been documented within the Seller Service Area. Suitable habitat is present within the project area. Foraging habitat may be affected by the project. The project is not expected to impact suitable foraging habitat (i.e. fields). No impact to species is expected.                                                                                                                                       |
| Western yellow-billed cuckoo<br><i>Coccyzus americanus</i> | T                       | Uncommon to rare summer resident in scattered locations throughout California.                                  | Deciduous riparian thickets or forests with dense, low-level or understory foliage, and which abut on slow-moving watercourses, backwaters, or seeps. Willow almost always a dominant component of the vegetation. In Sacramento Valley, also utilizes adjacent orchards, especially of walnut. Nests in sites with some willows, dense low-level or understory foliage, high humidity, and wooded foraging spaces. | Summer migration is from June-September.                   | None. Occurrences have not been documented in the Seller Service Area. This species is not likely to occur in crop fields due to lack of suitable foraging and roosting habitat (i.e. dense riparian thickets). No impacts are anticipated to riparian breeding habitat due to small changes in river flow.                                                                                                                                |

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|-----------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fish</b>                                                           |                         |                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                   |                                    |                                                                                                                                                                                                                      |
| <b>Central Valley Steelhead</b><br><i>Oncorhynchus mykiss</i>         | <b>T</b>                | Native to streams along the Pacific coast of North America                                                                                                                                                                    | Populations inhabit small headwater streams, large rivers, lakes, or reservoirs; often in cool clear lakes and cool swift streams with silt-free substrate. Usually requires a gravel riffle for successful spawning.                                                             | Year round                         | None. Occurrences have been documented in the Seller Service Area. Suitable habitat is present in project area. However, flow reductions as a result of this project would be low and would not affect this species. |
| <b>Chinook Salmon (Winter-run)</b><br><i>Oncorhynchus tshawytscha</i> | <b>E</b>                | Distributed throughout northern California                                                                                                                                                                                    | Utilizing both fresh and salt water habitats, this species requires spawning sites within the stream or river where water velocity, depth, and gravel size are optimal for the incubation of developing eggs.                                                                     | Spawning December<br>early August  | None. Occurrences have been documented in the Seller Service Area. Suitable habitat is present in project area. However, flow reductions as a result of this project would be low and would not affect this species. |
| <b>Chinook Salmon (Spring-run)</b><br><i>Oncorhynchus tshawytscha</i> | <b>T</b>                | Distributed throughout northern California                                                                                                                                                                                    | Same as described in Chinook Salmon (Winter-run)                                                                                                                                                                                                                                  | Spawning Late<br>March - September | None. Occurrences have been documented in the Seller Service Area. Suitable habitat is present in project area. However, flow reductions as a result of this project would be low and would not affect this species. |
| <b>Delta smelt</b><br><i>Hypomesus transpacificus</i>                 | <b>T</b>                | Restricted to the upper reaches of the San Francisco Bay and Sacramento-San Joaquin Delta Estuary, from San Pablo Bay upstream to Sacramento on the Sacramento River and Mossdale on the San Joaquin River.                   | This species can tolerate a wide range of salinity and temperatures. Shallow, fresh, or slightly brackish backwater sloughs and edgewater with good water quality and substrate are used for spawning.                                                                            | Year round                         | None. No occurrences have been documented in the Seller Service Area. Flow reductions as a result of this project would be low and would not affect this species.                                                    |
| <b>Green sturgeon</b><br><i>Acipenser medirostris</i>                 | <b>T</b>                | Throughout northern and central California; Humboldt Bay, San Francisco Bay and Delta, Monterey Bay, Sacramento, Feather, and Yuba Rivers                                                                                     | Utilizing both freshwater and saltwater habitat, this species spawns in deep pools, in large turbulent freshwater river mainstems.                                                                                                                                                | Year round                         | None. No occurrences have been documented in the Seller Service Area. In addition, flow reductions as a result of this project would be low and would not affect this species.                                       |
| <b>Longfin smelt</b> <i>Spirinchus thaleichthys</i>                   | <b>C</b>                | Found on the Sacramento and San Joaquin Rivers in the Delta through Suisun Bay and Suisun Marsh, San Pablo Bay, San Francisco Bay, the Gulf of the Farallones, Humboldt Bay, Eel river estuary and other local coastal areas. | Adult longfin smelt migrate into low salinity or freshwater reaches of coastal rivers and tributary streams to spawn. Encounter a wide variety of water temperatures and salinities during their life cycle but are rarely found in water temperatures greater than 71 degrees F. | Spawning in January<br>March       | None. Occurrences have been documented in the Seller Service Area. Suitable habitat is present in project area. However, flow reductions as a result of this project would be low and would not affect this species. |

\*Central CA DPS

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Special Status Wildlife Species with Potential to Occur

| Common Name Scientific Name | Federal Special Status* | Distribution | Habitat Association | Seasonal Occurrence | Potential Impact |
|-----------------------------|-------------------------|--------------|---------------------|---------------------|------------------|
|-----------------------------|-------------------------|--------------|---------------------|---------------------|------------------|

<sup>2</sup>Santa Barbara and Sonoma Counties

**\* Status explanations:**

**Federal**

- E = listed as endangered under the federal Endangered Species Act
- T = listed as threatened under the federal Endangered Species Act
- C = Candidate for listing as threatened or endangered
- SC = species of concern; formerly Category 2 candidate for federal listing
- BGEPA = Bald and Golden Eagle Protection Act
- MNBMC = Fish and Wildlife Service: Migratory Nongame Birds of Management Concern
- = no designations
- X = critical habitat
- PX = potential critical habitat
- D = delisted

**State**

- E = listed as endangered under the California Endangered Species Act
- T = listed as threatened under the California Endangered Species Act
- CE = candidate endangered under the California Endangered Species Act
- FP = fully protected under the California Fish and Game Code
- SSC = species of special concern
- WL = Watch List
- = no designations