ATTACHMENT A

Figures



2/25/2026 2/25/2026 212920 \\santca1\hub\RVICA1FS1\HROOT\pdata\212920_CSUB_Ground Mount Solar\6_GIS

Michael Baker INTERNATIONAL

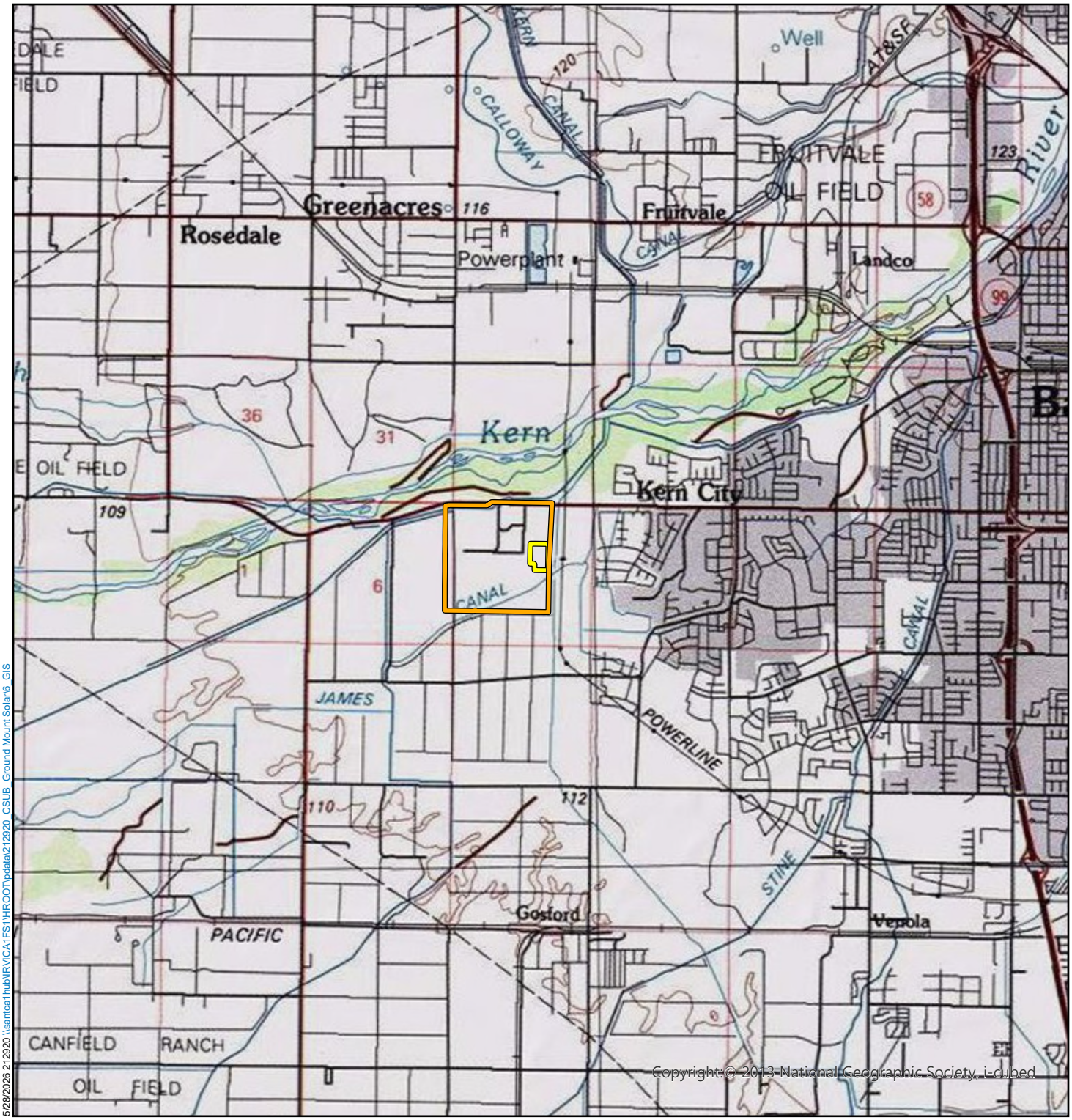
0 2.5 5 Miles

Source: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

CSUB GROUND MOUNT SOLAR & BATTERY PROJECT
BIOLOGICAL RESOURCES TECHNICAL REPORT

Regional Vicinity

Figure 1



5/28/2026 212920 \\santca1hub\IRVCA1FS1\HROOT\pdata\212920_CSUB_Ground Mount Solar\6_GIS

Legend

- Project Site
- CSU Bakersfield Boundary

Michael Baker INTERNATIONAL

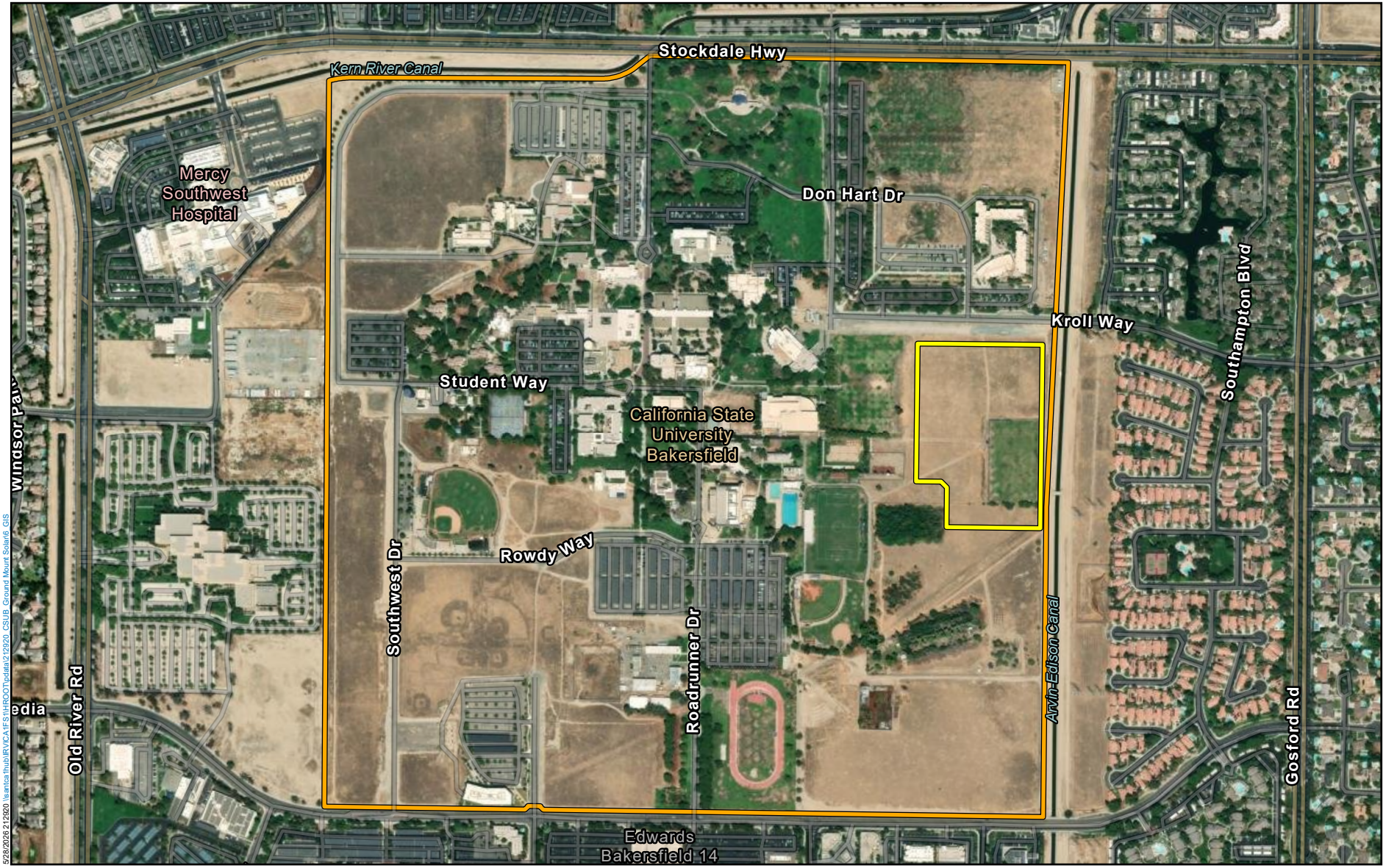
0 0.5 1 Mile

Source: USGS 7.5-Minute topographic quadrangle maps: *Stevens, California (2021), Oildale, California (2021), Gosford, California (2021)*

CSUB GROUND MOUNT SOLAR & BATTERY PROJECT
BIOLOGICAL RESOURCES TECHNICAL REPORT

Project Vicinity

Figure 2



Legend

CSU Bakersfield Boundary

Project Site

Michael Baker INTERNATIONAL

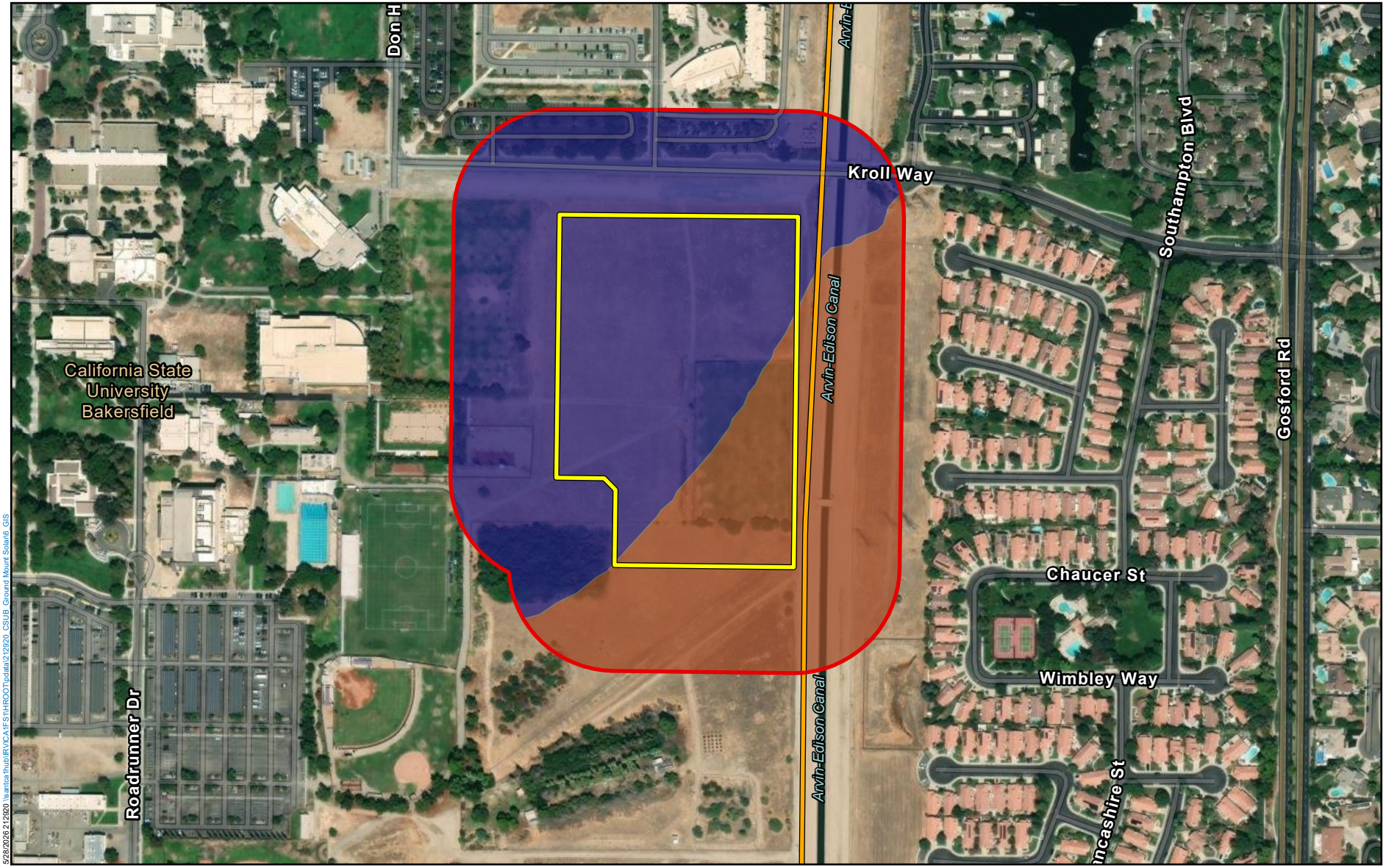
0 500 1,000 Feet

Source: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, Vantor, Earthstar Geographics, and the GIS User Community

CSUB GROUND MOUNT SOLAR & BATTERY PROJECT
BIOLOGICAL RESOURCES TECHNICAL REPORT

Project Site

Figure 3



9/28/2026 2:12920 \\santca1hub\IRVICA1FS1\HROOT\data\212920_CSUB_Ground Mount Solar\6_GIS

Legend

- CSU Bakersfield Boundary
- Project Site
- Biological Survey Area
- Kimberlina fine sandy loam, 0 to 2 percent slopes MLRA 17
- Wasco sandy loam

Michael Baker INTERNATIONAL

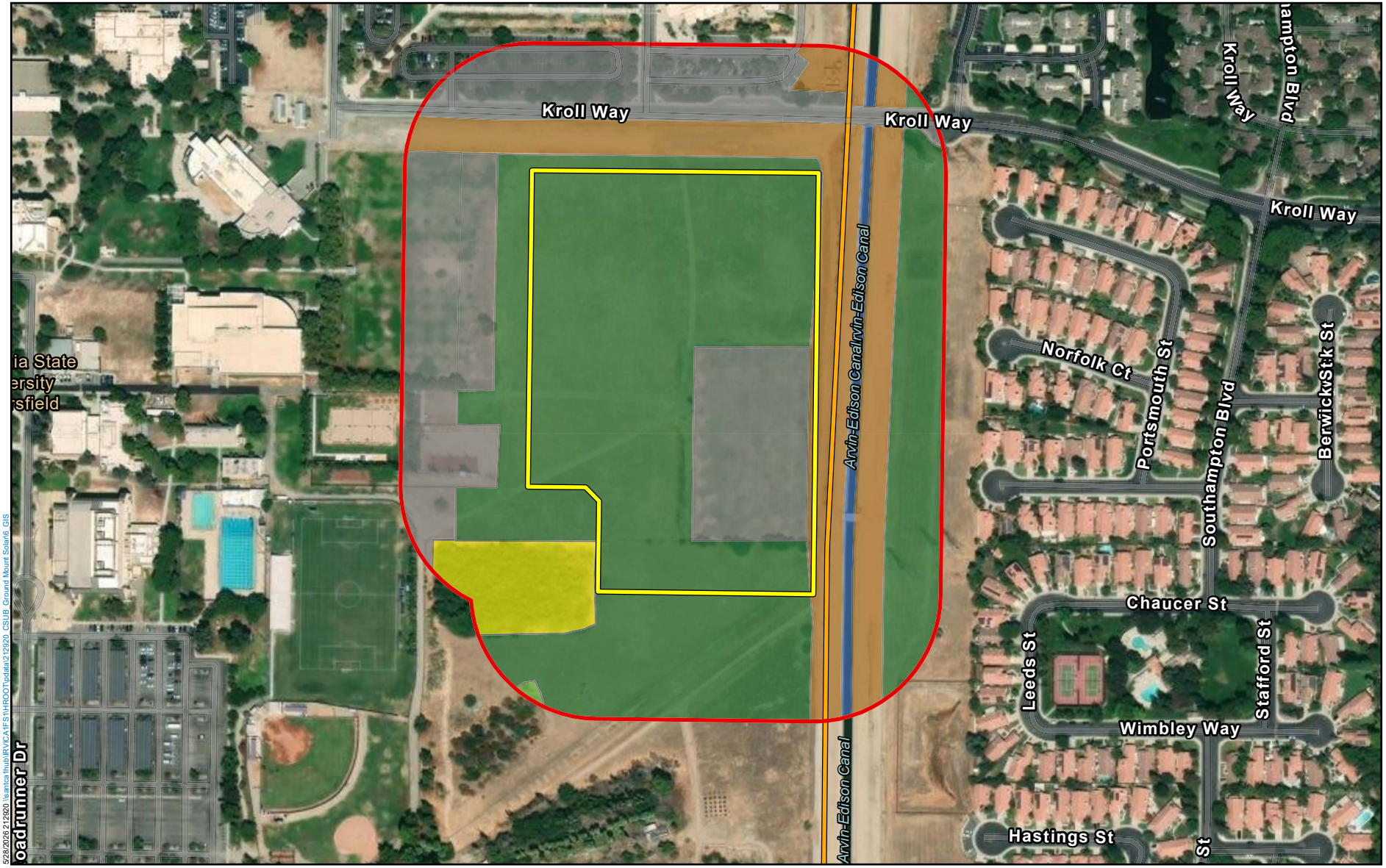
0 300 600 Feet

Source: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, Vantor, Earthstar Geographics, and the GIS User Community

CSUB GROUND MOUNT SOLAR & BATTERY PROJECT
BIOLOGICAL RESOURCES TECHNICAL REPORT

USDA Soils

Figure 4



Source: Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community, Esri, Vantor, Earthstar Geographics, and the GIS User Community

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CSUB GROUND MOUNT SOLAR & BATTERY PROJECT
BIOLOGICAL RESOURCES TECHNICAL REPORT

Vegetation Communities and Land Cover Types

Figure 5

ATTACHMENT B

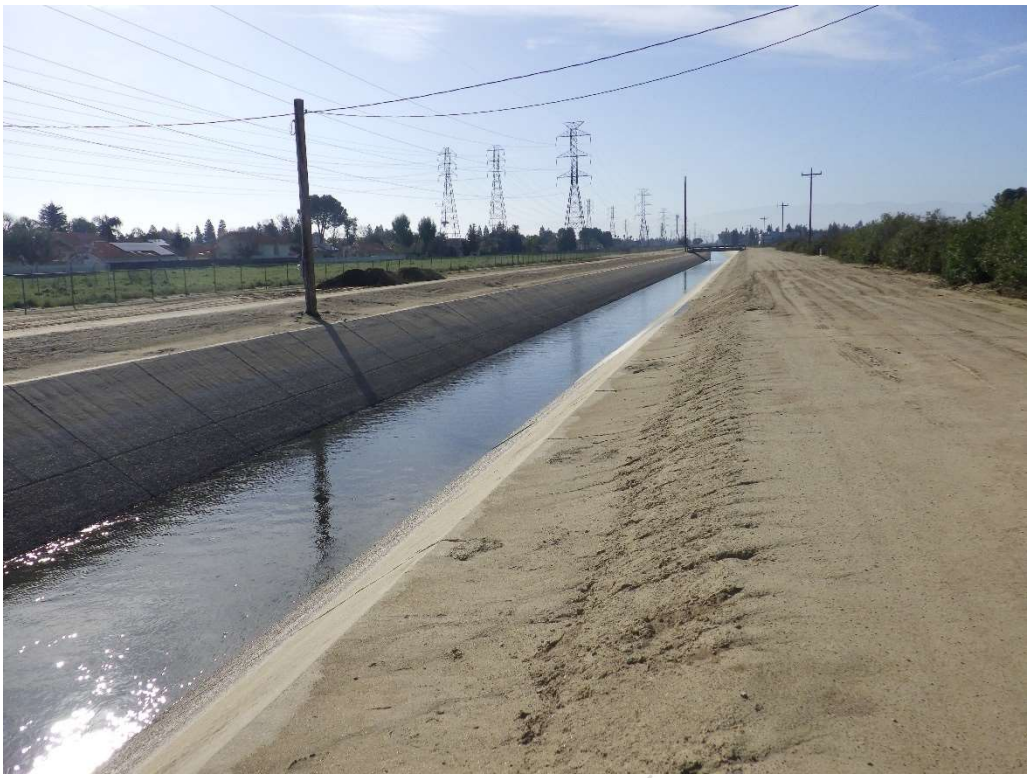
Site Photographs



Photograph 1. South-facing view of the non-native grassland within the northern portion of the project site (35.350175°, -119.097907°).



Photograph 2. East- facing view of a California ground squirrel burrow within the project site (35.349472°, -119.097837°).



Photograph 3. South-facing view of the Arvin-Edison Canal within the eastern portion of the survey area (35.349586°, -119.096725°).



Photograph 4. Northeast-facing view of the non-native grassland within the eastern edge of the survey area (35.346977°, -119.096488°).



Photograph 5. West-facing view of the non-native grassland within the southern portion of the survey area (35.346977°, -119.096488°)



Photograph 6. South-facing view of the Fremont cottonwood woodland and forest within the southern portion of the survey area (35.347680°, -119.099325°).

ATTACHMENT C

Species Compendiums

PLANTS

Scientific Name	Common Name	Status Federal/State/CRPR
VASCULAR SPECIES		
EUDICOTS		
APOCYNACEAE	**Dogbane Family**	
Nerium oleander	oleander*	None/None/None
ASTERACEAE	**Sunflower Family**	
Baccharis salicifolia	mulefat	None/None/None
Helminthotheca echioides	bristly oxtongue*	None/None/None
BRASSICACEAE	**Mustard Family**	
Capsella bursa-pastoris	shepherd's purse*	None/None/None
Sisymbrium irio	London rocket*	None/None/None
CHENOPODIACEAE	**Goosefoot Family**	
Atriplex polycarpa	allscale	None/None/None
Salsola tragus	prickly Russian thistle*	None/None/None
FABACEAE	**Legume Family**	
Acacia sp.	wattle*	
GERANIACEAE	**Geranium Family**	
Erodium botrys	big heron bill*	None/None/None
SALICACEAE	**Willow Family**	
Populus fremontii	Fremont cottonwood	None/None/None
Salix exigua	sandbar willow	None/None/None
URTICACEAE	**Nettle Family**	
Urtica urens	dwarf nettle*	None/None/None
MONOCOTS		
ARECACEAE	**Palm Family**	
Washingtonia robusta	Washington fan palm*	None/None/None
CYPERACEAE	**Sedge Family**	
Cyperus eragrostis	tall flatsedge	None/None/None
POACEAE	**Grass Family**	
Bromus diandrus	ripgut brome*	None/None/None
Bromus madritensis	compact brome*	None/None/None
Hordeum murinum	foxtail barley*	None/None/None

* Indicates non-native species

WILDLIFE

Scientific Name	Common Name	Status Federal/State | Other
BIRDS		
CORVIDAE	**CROWS & JAYS**	
Aphelocoma californica	California scrub-jay	None/None | No Other Status
Corvus brachyrhynchos	American crow	None/None | No Other Status
TROCHILIDAE	**HUMMINGBIRDS**	
Calypte anna	Anna's hummingbird	None/None | No Other Status
PARULIDAE	**WOOD-WARBLERS**	
Setophaga coronata	yellow-rumped warbler	None/None | No Other Status
CATHARTIDAE	**NEW WORLD VULTURES**	
Cathartes aura	turkey vulture	None/None | No Other Status

Scientific Name	Common Name	Status Federal/State | Other
FRINGILLIDAE	**FRINGILLINE & CARDUELINE FINCHES & ALLIES**	
Haemorhous mexicanus	house finch	None/None | No Other Status
PICIDAE	**WOODPECKERS & ALLIES**	
Colaptes auratus	northern flicker	None/None | No Other Status
COLUMBIDAE	**PIGEONS & DOVES**	
Columba livia	rock pigeon (rock dove)*	None/None | No Other Status
Zenaida macroura	mourning dove	None/None | No Other Status
TYRANNIDAE	**TYRANT FLYCATCHERS**	
Sayornis nigricans	black phoebe	None/None | No Other Status
Sayornis saya	Say's phoebe	None/None | No Other Status
FALCONIDAE	**CARACARAS & FALCONS**	
Falco sparverius	American kestrel	None/None | No Other Status
MIMIDAE	**MOCKINGBIRDS & THRASHERS**	
Mimus polyglottos	northern mockingbird	None/None | No Other Status
STURNIDAE	**STARLINGS**	
Sturnus vulgaris	European starling*	None/None | No Other Status
MAMMALS		
SCIURIDAE	**SQUIRRELS**	
Otospermophilus beecheyi	California ground squirrel	None/None | No Other Status

* Indicates non-native species

Status Legend:		
Federal	**State**	**Other**
FE: Federally listed as endangered	SE: State listed as endangered	BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
FT: Federally listed as threatened	ST: State listed as threatened	BLM-S: Bureau of Land Management Sensitive Species
FPE: Federally proposed for listing as endangered	SR: State rare	CDFW-FP: California Fully Protected Species
FPT: Federally proposed for listing as threatened	SCE: State candidate for listing as endangered	CDFW-SSC: California Species of Special Concern
FC: Federal candidate species (former Category 1 candidates)	SCT: State candidate for listing as threatened	USFS-S: U.S. Forest Service Sensitive Species
None: No federal listing	None: No state listing	
FDL: Delisted	SDL: State delisting	

ATTACHMENT D

Special-Status Species Potential to Occur Tables

SPECIAL-STATUS PLANT SPECIES WITH POTENTIAL TO OCCUR IN STUDY AREA

Scientific Name	Common Name	Status (Federal/State/CRPR/Other)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Allium howellii var. *howellii*	Howell's onion	None/None/4.3/None	Valley and foothill grassland; Clay (sometimes), Serpentine (sometimes)/perennial bulbiferous herb/Mar–Apr/165–7220	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Astragalus hornii var. *hornii*	Horn's milk-vetch	None/None/1B.1/BLM-S	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/195–2790	No meadow, seep, or playa habitat is present within the project site. Species not expected to occur.
Atriplex cordulata var. *cordulata*	heartscale	None/None/1B.2/BLM-S	Chenopod scrub, Meadows and seeps, Valley and foothill grassland (sandy); Alkaline (sometimes)/annual herb/Apr–Oct/0–1835	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Atriplex coronata var. *vallicola*	Lost Hills crownscale	None/None/1B.2/BLM-S	Chenopod scrub, Valley and foothill grassland, Vernal pools; Alkaline/annual herb/Apr–Sep/165–2085	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Atriplex tularensis	Bakersfield smallscale	None/SE/1A/None	Chenopod scrub/annual herb/June–Oct/295–655	No chenopod scrub habitat is present within the project site. Species not expected to occur.
Azolla microphylla	Mexican mosquito fern	None/None/4.2/None	Marshes and swamps (ponds, slow water)/annual/perennial herb/Aug/100–330	No marsh or swamp habitat is present within the project site. Species not expected to occur.
Calochortus striatus	alkali mariposa-lily	None/None/1B.2/BLM-S, USFS-S	Chaparral, Chenopod scrub, Meadows and seeps, Mojavean desert scrub; Alkaline, Mesic/perennial bulbiferous herb/Apr–June/230–5235	No chaparral or chenopod scrub habitat is present within the project site. Species not expected to occur.
Caulanthus californicus	California jewelflower	FE/SE/1B.1/None	Chenopod scrub, Pinyon and juniper woodland, Valley and foothill grassland; Sandy/annual herb/Feb–May/200–3280	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR/Other)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Chloropyron molle ssp. *hispidum*	hispid salty bird's-beak	None/None/1B.1/None	Meadows and seeps, Playas, Valley and foothill grassland; Alkaline/annual herb (hemiparasitic)/June–Sep/5–510	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Clarkia exilis	slender clarkia	None/None/4.3/None	Cismontane woodland/annual herb/Apr–May/395–3280	No cismontane woodland habitat is present within the project site. Species not expected to occur.
Delphinium recurvatum	recurved larkspur	None/None/1B.2/BLM-S	Chenopod scrub, Cismontane woodland, Valley and foothill grassland; Alkaline/perennial herb/Mar–June/10–2590	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Diplacus pictus	calico monkeyflower	None/None/1B.2/BLM-S	Broadleafed upland forest, Cismontane woodland; Disturbed areas, Granitic/annual herb/Mar–May/330–4690	Disturbed areas and granitic outcrops within broadleafed upland forest and cismontane woodland is not present wtihin the project site. Species not expected to occur.
Eremalche parryi ssp. *kernensis*	Kern mallow	FE/None/1B.2/None	Chenopod scrub, Pinyon and juniper woodland, Valley and foothill grassland; Clay (sometimes), Dry, Openings, Sandy (sometimes)/annual herb/Jan(Feb)Mar–May/230–4230	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Eriastrum hooveri	Hoover's eriastrum	FD/None/4.2/None	Chenopod scrub, Pinyon and juniper woodland, Valley and foothill grassland; Gravelly (sometimes)/annual herb/Mar–July/165–3000	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Eriogonum gossypinum	cottony buckwheat	None/None/4.2/None	Chenopod scrub, Valley and foothill grassland; Clay/annual herb/Mar–Sep/330–1805	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR/Other)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Eschscholzia lemmonii ssp. *kernensis*	Tejon poppy	None/None/1B.1/BLM-S	Chenopod scrub, Valley and foothill grassland/annual herb/(Feb)Mar–May/525–3280	The study area is outside of the species' known elevation range. Species not expected to occur.
Goodmania luteola	golden goodmania	None/None/4.2/None	Meadows and seeps, Mojavean desert scrub, Playas, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/annual herb/Apr–Aug/65–7220	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Hordeum intercedens	vernal barley	None/None/3.2/None	Coastal dunes, Coastal scrub, Valley and foothill grassland (depressions, saline flats), Vernal pools/annual herb/Mar–June/15–3280	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Imperata brevifolia	California satintail	None/None/2B.1/USFS-S	Chaparral, Coastal scrub, Meadows and seeps (often alkali), Mojavean desert scrub, Riparian scrub; Mesic/perennial rhizomatous herb/Sep–May/0–3985	No chaparral, meadow, seep, or scrub habitat is present within the project site. Species not expected to occur.
Lasthenia ferrisiae	Ferris' goldfields	None/None/4.2/None	Vernal pools (alkaline, clay)/annual herb/Feb–May/65–2295	No vernal pool habitat is present within the project site. Species not expected to occur.
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/None/1B.1/BLM-S	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/5–4005	No marsh or swamp habitat is present within the project site. Species not expected to occur.
Layia leucopappa	Comanche Point layia	None/None/1B.1/None	Chenopod scrub, Valley and foothill grassland/annual herb/Mar–Apr/330–1150	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Leptosiphon grandiflorus	large-flowered leptosiphon	None/None/4.2/None	Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Valley and foothill grassland; Sandy (usually)/annual herb/Apr–Aug/15–4005	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR/Other)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Monolopia congdonii	San Joaquin woollythreads	FE/None/1B.2/None	Chenopod scrub, Valley and foothill grassland (sandy)/annual herb/Feb–May/195–2625	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Navarretia setiloba	Piute Mountains navarretia	None/None/1B.1/BLM-S, USFS-S	Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland; Clay (sometimes), Gravelly (sometimes), Loam (sometimes)/annual herb/Apr–July/935–6890	The study area is outside of the species' known elevation range. Species not expected to occur.
Opuntia basilaris var. *treleasei*	Bakersfield cactus	FE/SE/1B.1/None	Chenopod scrub, Cismontane woodland, Valley and foothill grassland; Gravelly (sometimes), Sandy (sometimes)/perennial stem/Apr–May/330–4755	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Puccinellia simplex	California alkali grass	None/None/1B.2/BLM-S	Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Alkaline, Flats, Lake Margins, Vernally Mesic/annual herb/Mar–May/5–3050	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.
Stylocline citroleum	oil neststraw	None/None/1B.1/BLM-S	Chenopod scrub, Coastal scrub, Valley and foothill grassland; Clay/annual herb/Mar–Apr/165–1310	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Stylocline masonii	Mason's neststraw	None/None/1B.1/USFS-S	Chenopod scrub, Pinyon and juniper woodland; Sandy/annual herb/Mar–May/330–3935	No chenopod scrub, pinyon, or juniper woodland habitat is present within the project site. Species not expected to occur.
Tortula californica	California screw moss	None/None/1B.2/BLM-S	Chenopod scrub, Valley and foothill grassland; Sandy/moss//35–4790	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.

Scientific Name	Common Name	Status (Federal/State/CRPR/Other)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Trichostema ovatum	San Joaquin bluecurls	None/None/4.2/None	Chenopod scrub, Valley and foothill grassland/annual herb/(Apr–June)July–Oct/215–1050	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species is not expected to occur.

Status Legend:

Federal
FE: Federally listed as endangered
FT: Federally listed as threatened
FPE: Federally proposed for listing as endangered
FPT: Federally proposed for listing as threatened
FC: Federal candidate species (former Category 1 candidates)
None: No federal listing
FDL: Delisted

State
SE: State listed as endangered
ST: State listed as threatened
SR: State rare
SCE: State candidate for listing as endangered
SCT: State candidate for listing as threatened
None: No state listing
SDL: State delisting

HCP/NCCP Designations:
Covered: Species afforded incidental take coverage
None: Species not afforded incidental take coverage

California Rare Plant Rank (CRPR)
CBR: Considered but rejected
CRPR 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
CRPR 2A: Plants presumed extirpated in California but common elsewhere
CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3: Review List: Plants about which more information is needed
CRPR 4: Watch List: Plants of limited distribution
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

SPECIAL-STATUS ANIMAL SPECIES WITH POTENTIAL TO OCCUR IN STUDY AREA

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Amphibians				
Spea hammondii	western spadefoot	FPT / None / BLM-S, CDFW-SSC	Cismontane woodland | Coastal scrub | Valley & foothill grassland | Vernal pool | Wetland; Occurs primarily in grassland habitats but can be found in valley-foothill hardwood woodlands.	Although suitable grassland habitat is present within the project site, there are no vernal pools which are essential for breeding and egg-laying for this species. This species is not expected to occur.
Birds				
Agelaius tricolor	tricolored blackbird	None / ST / BLM-S, CDFW-SSC	Freshwater marsh | Marsh & swamp | Swamp | Wetland; Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California.	No marsh or wetland habitat is present within the project site. Species not expected to occur.
Athene cunicularia	burrowing owl	None / SCE / BLM-S, CDFW-SSC	Coastal prairie | Coastal scrub | Great Basin grassland | Great Basin scrub | Mojavean desert scrub | Sonoran desert scrub | Valley & foothill grassland; Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	The project site has grassland habitat, suitable empty burrows, and is within the species' range. The species has been recently documented within five miles of the site. Species has a **moderate** potential to occur.
Buteo swainsoni	Swainson's hawk	None / ST / BLM-S	Great Basin grassland | Riparian forest | Riparian woodland | Valley & foothill grassland; Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees.	Although suitable foraging habitat is present within the project site, suitable nesting habitat is not. All the recent extant occurrence records are over 5 miles from the project site. Species not expected to occur.
Charadrius nivosus nivosus	western snowy plover	FT / None / CDFW-SSC	Great Basin standing waters | Sand shore | Wetland; Sandy beaches, salt pond levees and shores of large alkali lakes.	No sand shore or wetland habitat is present within the project site. Species not expected to occur.
Coccyzus americanus occidentalis	western yellow-billed cuckoo	FT / SE / BLM-S, USFS-S	Riparian forest; Riparian forest nester, along the broad, lower flood-bottoms of larger river systems.	No suitable habitat is present within the project site. Species not expected to occur.
Dendrocygna bicolor	fulvous whistling-duck	None / None / CDFW-SSC	Freshwater marsh | Marsh & swamp; Fresh-water marsh.	No marsh or wetland habitat is present within the project site. Species not expected to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Elanus leucurus	white-tailed kite	None / None / BLM-S, CDFW-FP	Cismontane woodland | Marsh & swamp | Riparian woodland | Valley & foothill grassland | Wetland; Rolling foothills and valley margins with scattered oaks and river bottomlands or marshes next to deciduous woodland.	This species forages almost exclusively in open, grassy habitats and build nests high in trees. Although grassland habitat is present on-site, it is generally surrounded by development that is not suitable foraging habitat and no trees suitable for nesting by this species occurs on-site. One record of this species from 1992 on the north side of the Kern River in riparian habitat was identified during the literature. While documented within 5 miles of the project site, this species is not expected to occur.
Eremophila alpestris actia	California horned lark	None / None / None	Marine intertidal & splash zone communities | Meadow & seep; Coastal regions, chiefly from Sonoma County to San Diego County. Also main part of San Joaquin Valley and east to foothills.	No marine, meadow, or seep habitat is present within the project site. Species not expected to occur.
Gymnogyps californianus	California condor	FE / SE / CDFW-FP	Chaparral | Valley & foothill grassland; Require vast expanses of open savannah, grasslands, and foothill chaparral in mountain ranges of moderate altitude.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Plegadis chihi	white-faced ibis	None / None / None	Marsh & swamp | Wetland; Shallow freshwater marsh.	No marsh or wetland habitat is present within the project site. Species not expected to occur.
Xanthocephalus xanthocephalus	yellow-headed blackbird	None / None / CDFW-SSC	Marsh & swamp | Wetland; Nests in freshwater emergent wetlands with dense vegetation and deep water. Often along borders of lakes or ponds.	No marsh or wetland habitat is present within the project site. Species not expected to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Invertebrates				
Bombus crotchii	Crotch's bumble bee	None / SCE / None	Open grassland and scrub communities supporting suitable floral resources. ; Coastal California east to the Sierra-Cascade crest and south into Mexico.	Although there are recent occurrence records for this species located approximately 2.5 miles east of the project site, the non-native grassland within the project site is not suitable habitat for this species. While not expected, as the species are generalist foragers, species may forage within the project site.
Branchinecta lynchi	vernal pool fairy shrimp	FT / None / None	Valley & foothill grassland | Vernal pool | Wetland; Endemic to the grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools.	No vernal pools are present within the project site. Species not expected to occur.
Danaus plexippus plexippus	monarch - California overwintering population	FPT / None / USFS-S	Closed-cone coniferous forest; Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico.	The species has been recently documented within five miles of the project site, but no roosting habitat is present on site, since no milkweed was observed. Species is not expected to be roosting on site.
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	FT / None / None	Riparian scrub; Occurs only in the Central Valley of California, in association with blue elderberry (Sambucus mexicana).	No riparian scrub habitat is present within the project site. Species not expected to occur.
Gonidea angulata	western ridged mussel	None / None / None	Aquatic; Primarily creeks and rivers and less often lakes. Originally in most of state, now extirpated from Central and Southern California.	No aquatic habitat is present within the project site. Species not expected to occur.
Helminthoglypta callistoderma	Kern shoulderband	None / None / None	Aquatic | Sacramento/San Joaquin flowing waters; Known only from Tulare and Kern counties, along the lower Kern River Canyon.	No aquatic habitat is present within the project site. Species not expected to occur.
Lytta moesta	moestan blister beetle	None / None / None	Valley & foothill grassland; Central California.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Lytta morrisoni	Morrison's blister beetle	None / None / None	Valley & foothill grassland; Inhabitant of the southern Central Valley of California.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Rhaphiomidas trochilus	San Joaquin Valley giant flower-loving fly	None / None / None	Interior dunes; Historically known from, and endemic to, sandy soils of the San Joaquin Valley from Antioch Dunes in Contra Costa Co south to Sand Ridge in Kern Co. Associated with sandy soils such as riverine deposits and sand dunes with relatively sparse vegetation.	No dune habitat is present within the project site. Species not expected to occur.
Mammals				
Ammospermophilus nelsoni	Nelson's (=San Joaquin) antelope squirrel	None / ST / BLM-S	Chenopod scrub; Western San Joaquin Valley from 200-1200 ft elev. On dry, sparsely vegetated loam soils.	No scrub habitat is present within the project site. Species not expected to occur.
Dipodomys ingens	giant kangaroo rat	FE / SE / None	Chenopod scrub | Valley & foothill grassland; Annual grasslands on the western side of the San Joaquin Valley, marginal habitat in alkali scrub.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Dipodomys nitratoides brevinasus	short-nosed kangaroo rat	None / None / BLM-S, CDFW-SSC	Chenopod scrub | Valley & foothill grassland; Western side of San Joaquin Valley in grassland and desert shrub associations, especially Atriplex.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Dipodomys nitratoides nitratoides	Tipton kangaroo rat	FE / SE / None	Chenopod scrub; Saltbrush scrub and sink scrub communities in the Tulare Lake Basin of the southern San Joaquin Valley.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Eumops perotis californicus	western mastiff bat	None / None / BLM-S, CDFW-SSC	Chaparral | Cismontane woodland | Coastal scrub | Valley & foothill grassland; Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Lasiurus cinereus	hoary bat	None / None / None	Broadleaved upland forest | Cismontane woodland | Lower montane coniferous forest | North coast coniferous forest; Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding.	No suitable habitat is present within the project site. Species not expected to occur.
Onychomys torridus tularensis	Tulare grasshopper mouse	None / None / BLM-S, CDFW-SSC	Chenopod scrub; Hot, arid valleys and scrub deserts in the southern San Joaquin Valley.	No scrub habitat is present within the project site. Species not expected to occur.
Perognathus inornatus	San Joaquin pocket mouse	None / None / BLM-S	Cismontane woodland | Mojavean desert scrub | Valley & foothill grassland; Grassland, oak savanna and arid scrubland in the southern Sacramento Valley, Salinas Valley, San Joaquin Valley and adjacent foothills, south to the Mojave Desert.	The project site has grassland habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Sorex ornatus relictus	Buena Vista Lake ornate shrew	FE / None / CDFW-SSC	Marsh & swamp | Riparian scrub; Marshlands and riparian areas in the Tulare Basin.	No scrub, marsh, or wetland habitat is present within the project site. Species not expected to occur.
Taxidea taxus	American badger	None / None / CDFW-SSC	Alkali marsh | Alkali playa | Alpine | Alpine dwarf scrub | Bog & fen | Brackish marsh | Broadleaved upland forest | Chaparral | Chenopod scrub | Cismontane woodland | Closed-cone coniferous forest | Coastal bluff scrub | Coastal dunes | Coastal prairie; Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils.	No suitable habitat is present within the project site. Species not expected to occur.
Vulpes macrotis mutica	San Joaquin kit fox	FE / ST / None	Chenopod scrub | Valley & foothill grassland; Annual grasslands or grassy open stages with scattered shrubby vegetation.	The project site has suitable grassland habitat and is within the species' range. Previous surveys have identified a den of this species on-site and this species is known from the area between the Kern River south to Ming Avenue. Species is **expected** to occur.
Reptiles				
Actinemys marmorata	northwestern pond turtle	FPT / None / BLM-S, CDFW-SSC, USFS-S		No aquatic habitat is present within the project site. Species not expected to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Anniella grinnelli	Bakersfield legless lizard	None / None / CDFW-SSC	Southern San Joaquin Valley. Known from two disjunct areas: the east side of the Carrizo Plain and portions of the city limits of Bakersfield. Often found underneath leaf litter, rocks, and logs (CDFW 2017).; Southern San Joaquin Valley. Known from two disjunct areas: the east side of the Carrizo Plain and portions of the city limits of Bakersfield.	The project site has suitable habitat and is within the species' range. The species has been recently documented within five miles of the site. Species has a **moderate** potential to occur.
Anniella spp.	California legless lizard	None / None / CDFW-SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils; Contra Costa County south to San Diego, within a variety of open habitats.This element represents California records of Anniella not yet assigned to new species within the Anniella pulchra complex.	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Arizona elegans occidentalis	California glossy snake	None / None / CDFW-SSC	Arid scrub, rocky washes, grasslands, chaparral, open areas with loose soil; Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California.	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.
Gambelia sila	blunt-nosed leopard lizard	FE / SE / CDFW-FP	Chenopod scrub; Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief.	No scrub habitat is present within the project site. Species not expected to occur.
Masticophis flagellum ruddocki	San Joaquin coachwhip	None / None / CDFW-SSC	Chenopod scrub | Valley & foothill grassland; Open, dry habitats with little or no tree cover. Found in valley grassland and saltbush scrub in the San Joaquin Valley.	The project site has suitable habitat and is within the species' range. The species has been recently documented within five miles of the site. Species has a **moderate** potential to occur.

Scientific Name	Common Name	Status Federal/State/Other	Habitats	Potential to Occur in BSA
Phrynosoma blainvillii	coast horned lizard	None / None / BLM-S, CDFW-SSC	Chaparral | Cismontane woodland | Coastal bluff scrub | Coastal scrub | Desert wash | Pinon & juniper woodlands | Riparian scrub | Riparian woodland | Valley & foothill grassland; Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	The project site has suitable habitat and is within the species' range. The species has not been recently documented within five miles of the site. Species not expected to occur.

Status Legend:		
Federal	**State**	**Other**
FE: Federally listed as endangered	SE: State listed as endangered	BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
FT: Federally listed as threatened	ST: State listed as threatened	BLM-S: Bureau of Land Management Sensitive Species
FPE: Federally proposed for listing as endangered	SR: State rare	CDFW-FP: California Fully Protected Species
FPT: Federally proposed for listing as threatened	SCE: State candidate for listing as endangered	CDFW-SSC: California Species of Special Concern
FC: Federal candidate species (former Category 1 candidates)	SCT: State candidate for listing as threatened	USFS-S: U.S. Forest Service Sensitive Species
None: No federal listing	None: No state listing	
FDL: Delisted	SDL: State delisting	