

Appendix A

**Wildlife Species Considered for Inclusion as Focal
Species in the East Alameda Conservation Strategy**

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Species	Status ^a		Criteria ^b				Recommended Focal Species ^c	Notes
	State	Federal	Range	Status	Threat	Data		
Invertebrates								
Mimic tryonia (=California brackishwater snail) <i>Tryonia imitator</i>	—	—	N	N	N	N	N	Study area outside of range or current distribution; not expected to become listed during permit term
Bay checkerspot butterfly <i>Euphydryas editha bayensis</i>	—	FT	N	Y	N	Y	N	Study area outside of range or current distribution
Longhorn fairy shrimp <i>Branchinecta longiantenna</i>	—	FE	Y	Y	Y?	Y?	Y	Population in Brushy Peak Preserve in Livermore and adjacent private land
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	—	FT	Y	Y	Y	Y	Y	Occurrence information not well documented for study area. Three CNDDDB (2008) records in study area, presumed extant. Vernal pools in Springtown Alkali Sink support the species.
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	—	FE	N	Y	N	Y	N	Isolated occurrences in Alameda County; No CNDDDB (2007) records listed in study area
Callippe silverspot butterfly <i>Speyeria callippe callippe</i>	—	FE	?	Y	?	N	Y	Limited knowledge about species in the study area; species is covered by the SFPUC Alameda Watershed HCP; recommend a limited conservation strategy
Fairmont (=Lum's) micro-blind harvestman <i>Microcina lumi</i>	—	—	N	N	N	N	N	Study area outside of range or current distribution; not expected to become listed during permit term
Lee's micro-blind harvestman <i>Microcina leei</i>	—	—	N	N	N	N	N	Study area outside of range or current distribution; not expected to become listed during permit term
Bridges (=Coast Range) shoulderband <i>Helminthoglypta nickliniana bridgesi</i>	—	—	N	N	N	N	N	Study area outside of range or current distribution; not expected to become listed during permit term
California linderiella fairy shrimp <i>Linderiella occidentalis</i>	—	—	Y	N	Y	Y	N	Not expected to become listed during permit term; study area is within known range or current distribution
Curved-foot hygrotus diving beetle <i>Hygrotus curvipes</i>	—	—	Y	N	N	Y	N	Not expected to become listed during permit term
Monarch butterfly <i>Danaus plexippus</i>	—	—	N	N	N	Y	N	Roost sites not known to occur in the study area; not expected to become listed during permit term
Fish								
Green sturgeon <i>Acipenser medirostris</i>	CSC	FT	N	Y	N	Y	N	Out of species range
Central California coast coho salmon <i>Oncorhynchus kisutch</i>	SE	FE	N	Y	N	Y	N	Out of species range

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Central CA coastal steelhead <i>Oncorhynchus mykiss</i>	—	FT	N	Y	N	Y	Y	Steelhead run could return to Alameda Creek if barriers near SF Bay are removed (BART weir). Barriers at Sunol and Niles dams recently removed.
Central Valley spring-run chinook salmon <i>Oncorhynchus tshawytscha</i>	—	FT	N	Y	N	Y	N	Out of species range
Winter-run Chinook salmon, Sacramento River <i>Oncorhynchus tshawytscha</i>	—	FE	N	Y	N	Y	N	Out of species range
River lamprey <i>Lampetra ayresi</i>	CSC	—	Y	N	N?	Y?	N	Unsure of threats currently posed to the species and level of understanding of species conservation needs.
Delta smelt <i>Hypomesus transpacificus</i>	ST	FT	N	Y	N	Y	N	Out of species range
Tidewater goby <i>Eucyclogobius newberryi</i>	CSC	FE	N	Y	N	Y	N	Out of species range
Amphibians								
California tiger salamander <i>Ambystoma californiense</i>	CSC	FT	Y	Y	Y	Y	Y	Occurrences of species in study area; mitigation typically required under CEQA and ESA
Western spadefoot <i>Spea hammondi</i>	CSC	—	Y	Y	N	N	N	Species may be listed in near future but it is not well documented in study area. Conservation opportunities may be limited.
California red-legged frog <i>Rana aurora draytonii</i>	CSC	FT	Y	Y	Y	Y	Y	Occurrences of species in study area; mitigation typically required under CEQA and ESA
Foothill yellow-legged frog <i>Rana boylei</i>	CSC	—	Y	N	Y	Y	Y	Species occurs in several fast moving streams in the study area. Conservation opportunities may be limited outside of additional protection of key reaches.
Reptiles								
Western pond turtle <i>Clemmys marmorata</i>	CSC	—	Y	N	Y	Y	N	Not expected to become listed in near future.
Alameda whipsnake <i>Masticophis lateralis euryxanthus</i>	ST	FT	Y	Y	Y	Y	Y	Occurrences of species in study area; mitigation typically required under CESA and ESA
San Joaquin coachwhip <i>Masticophis flagellum ruddocki</i>	CSC	—	Y	N	Y	Y	N	Not expected to become listed in near future

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California horned lizard <i>Phrynosoma coronatum frontale</i>	CSC	—	Y	N	Y	N	N	Not expected to become listed in near future; USFWS and CDFG has not covered this species in other regional planning efforts due to limited data; taxonomy uncertain: recent study combined <i>P. c. frontale</i> and <i>P. c. schmidti</i> into new species <i>P. blainvillii</i>
Birds								
Great blue heron (rookery) <i>Ardea herodias</i>	—	MBTA	Y	N	N	Y	N	Not expected to become listed in near future
Black-crowned night heron (rookery) <i>Nycticorax nycticorax</i>	—	MBTA	Y	N	N	Y	N	Not expected to become listed in near future
Wood duck <i>Aix sponsa</i>	—	MBTA	Y	N	N	N	N	Not expected to become listed in near future; not likely to be assessed in CEQA documents
Prairie falcon <i>Falco mexicanus</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future; ongoing monitoring program by EBRPD. This species will receive incidental conservation benefits through conservation actions for golden eagle and protection of rock outcrops.
American peregrine falcon <i>Falco peregrinus anatum</i>	SE, FP	FD, MBTA	Y	Y	N	Y	N	Species is fully protected by the state; take of individuals not allowed; not likely to be listed under the federal ESA because it was recently removed from the list; removal of limited habitat not expected to affect population stability in the county;
California clapper rail <i>Rallus longirostris obsoletus</i>	SE, FP	FE, MBTA	N	Y	N	Y	N	Study area outside of range or current distribution; Species is fully protected; take of individuals not allowed
Bald eagle <i>Haliaeetus leucocephalus</i>	SE/FP	FD, BGPA, MBTA	Y	Y	N	Y	N	Some breeding pairs occur near reservoirs in the study area and breeding range may expand; individuals occasionally winter at reservoirs in study area; Species is fully protected; take of individuals not allowed
Sharp-shinned hawk <i>Accipiter striatus</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future
Cooper's hawk <i>Accipiter cooperii</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future
Red shouldered hawk <i>Buteo lineatus</i>	—	MBTA	Y	N	N	N	N	Not expected to become listed in the future; not likely to be assessed in CEQA documents
Golden eagle <i>Aquila chrysaetos</i>	CSC/FP	BGPA, MBTA	Y	Y	Y	Y	Y	Eastern Alameda county is important source population for region
Northern harrier <i>Circus cyaneus</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future

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Ferruginous hawk <i>Buteo regalis</i>	CSC	MBTA	Y	N	N	Y	N	Not expected to become listed in near future
California black rail <i>Laterallus jamaicensis coturniculus</i>	ST/ FP	MBTA	N	Y	N	Y	N	Study area outside of range or current known distribution; little information on use of inland freshwater wetlands; Species is fully protected; take of individuals not allowed
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	CSC	FT, MBTA	N	Y	N	Y	N	Study area outside of range or current breeding distribution
Black skimmer <i>Rynchops niger</i> (nesting colony)	CSC	MBTA	N	N	N	Y	N	Study area outside of range or current known breeding distribution
California least tern <i>Sterna antillarum (albifrons)browni</i> (nesting colony)	SE/ FP	FE, MBTA	N	Y	N	Y	N	Study area outside of range or current known distribution; No suitable habitat in study area; Species is fully protected; take of individuals not allowed
California brown pelican (nesting colony) <i>Pelecanus occidentalis californicus</i>	SE/ FP	FPD, MBTA	N	Y	N	Y	N	Study area outside of range or current known distribution; Species is fully protected; take of individuals not allowed
Double-crested cormorant <i>Phalacrocorax auritus</i> (rookery site)	CSC	MBTA	N	N	N	Y	N	Study area outside of range or current known distribution
California horned lark <i>Eremophila alperstris actia</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future
Loggerhead shrike <i>Lanius ludovicianus</i>	CSC	MBTA	Y	N	Y	Y	N	Not expected to become listed in near future
White-tailed kite <i>Elanus leucurus</i>	FP	MBTA	Y	N	N	Y	N	Species is fully protected; take of individuals not allowed; species relatively common in study area so not likely to be state or federally listed if fully protected designation is withdrawn
Western burrowing owl <i>Athene cucularia hypugea</i>	CSC	MBTA	Y	Y	Y	Y	Y	Species is in decline throughout Bay Area; may become state listed; mitigation typically required under CEQA
Lewis's woodpecker <i>Melanerpes lewis</i>	—	MBTA	Y	N	N	N	N	Nest sites are in decline but species is not likely to become listed in near future; not typically assessed in CEQA documents
Say's phoebe <i>Sayornis saya</i>	—	MBTA	Y	N	N	N	N	Species is not likely to be listed in near future; not typically assessed in CEQA documents; will benefit from protection of rocky outcrops and grassland as the result of conservation under this strategy
Yellow-billed magpie <i>Pica nuttalli</i>	—	MBTA	Y	N	Y?	N	N	Nest sites are in decline but species is not likely to become listed in near future; not typically assessed in CEQA documents

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Bank swallow <i>Riparia riparia</i>	ST	MBTA	Y	Y	N	N	N	No CNDDDB records in study area but species has been recorded in the county. Threats are bank erosion degradation of stream corridors through water development
Western bluebird <i>Sialia Mexicana</i>	—	MBTA	Y	N	N	N	N	Species not likely to be listed in near future; not typically assessed in CEQA documents
Willow flycatcher <i>Empidonax traillii</i>	—	MBTA	Y	N	N ?	N	N	Not likely to become listed in near future; not typically assessed in CEQA documents
Black-throated gray warbler <i>Dendroica nigrescens</i>	—	MBTA	Y	N	N ?	N	N	Not likely to become listed in near future; not typically assessed in CEQA documents
Salt marsh common yellowthroat (= San Francisco yellowthroat) <i>Geothlypis trichas sinuosa</i>	CSC	MBTA	N	N	N	N	N	Study area outside of range or current known distribution
Tricolored blackbird <i>Agelaius tricolor</i>	CSC	MBTA	Y	Y	Y	Y	Y	Number of breeding colonies is in decline; could become federally or state listed; developing conservation for the species is difficult due to the ephemeral nature of breeding colonies. Species would benefit from wetland restoration in the study area
Yellow warbler <i>Dendroica petechia brewsteri</i> (nesting)	CSC	MBTA	Y	N	N	Y	N	Not expected to become listed in near future
Blue grosbeak <i>Guiraca caerulea</i>	—	MBTA	Y	N	N	N	N	Not expected to become listed in near future' not likely to be assessed in CEQA documents
Song Sparrow <i>Melospiza melodia</i>	—	MBTA	Y	N	N	Y	N	Not expected to become listed in near future; not typically a species that is assessed in CEQA documents
Alameda (South Bay) song sparrow <i>Melospiza melodia pusillula</i>	CSC	MBTA	N	N	N	Y	N	Study area outside of range
Mammals								
Alameda Island mole <i>Scapanus latimanus parvus</i>	CSC	—	N	N	N	N	N	Study area outside of range
Salt marsh vagrant (wandering) shrew <i>Sorex vagrans halicoetes</i>	CSC	—	N	N	N	Y?	N	Study area outside of range
Pacific Townsend's (=western) big-eared bat <i>Corynorhinus townsendii townsendii</i>	CSC	—	Y	Y	N	N	N	Species thought to be declining in the Bay Area; data is somewhat limited
Yuma myotis <i>Myotis yumanensis</i>	—	—	Y	N	N	Y	N	Not expected to become listed in near future

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Greater western mastiff bat <i>Eumops perotis californicus</i>	CSC	—	Y	N	N	Y	N	Not expected to become listed in near future
Pallid bat <i>Antrozous pallidus</i>	CSC	—	Y	N	N	Y	N	Not expected to become listed in near future
Big free-tailed bat <i>Nyctinomops macrotis</i> (= <i>Tadarida m.</i> , <i>T. molossa</i>)	CSC	—	N	N	N	N	N	Study area outside of range or current known distribution
Hoary bat <i>Lasiurus cinereus</i>	CSC	—	Y	N	N	Y	N	Not expected to become listed in near future
Silver-haired bat <i>Lasionycteris noctivagans</i>	CSC	—	N	N	N	Y	N	Study area outside of range or current known distribution
San Joaquin pocket mouse <i>Perognathus inornatus inornatus</i>	—	—	Y	N	N	N	N	Not expected to become listed in near future
Berkeley kangaroo rat <i>Dipodomys heermanni berkeleyensis</i>	—	—	Y	N	N	N	N	Subspecies possibly extinct; historic distribution in Contra Costa and Alameda Counties with southernmost record at Calaveras Reservoir (1940). Several unconfirmed sightings, one in Alameda Cty in 2000
San Francisco dusky-footed woodrat <i>Neotoma fuscipes annectens</i>	CSC	—	Y	N	Y?	Y	N	Not expected to become listed in near future
Ringtail <i>Bassariscus astutus</i>	FP	—	Y	N	N	N	N	Species is fully protected; take of individuals not allowed; species relatively common so not likely to be state or federally listed if fully protected designation is withdrawn
Salt marsh harvest mouse <i>Reithrodontomys raviventris</i>	E,FP	E	N	Y	N	Y	N	Study area outside of range; Species is fully protected; take of individuals not allowed
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	ST	FE	Y	Y	Y	Y	Y	The Altamont Hills provide extensive breeding habitat and a critical linkage in the northern part of species' range
American badger <i>Taxidea taxus</i>	CSC	—	Y	Y	Y	Y?	Y	Species could become state listed. Could be a candidate for guiding conservation of movement corridors in grassland ecosystems.

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Notes								
<p>a. Status</p> <p>State Status</p> <p>FP Fully Protected</p> <p>SE State listed as endangered</p> <p>ST State listed as threatened</p> <p>CSC California special concern species</p> <p>Federal Status</p> <p>BGPA Bald Eagle and Golden Eagle Protection Act</p> <p>MBTA Migratory Bird Treaty Act</p> <p>FE Federally endangered</p> <p>FT Federally threatened</p> <p>FC Candidate for federal listing</p> <p>FPT Federally proposed for threatened listing</p> <p>FPD Federally proposed for delisting</p> <p>FD Federally delisted</p> <p>SOC Species of Concern (National Marine Fisheries Service designation)</p>			<p>b. Criteria</p> <p>Range: The species is known to occur or is likely to occur within the Conservation Strategy study area, based on credible evidence, or the species is not currently known in the study area but is expected in the study area in the foreseeable future (e.g., through range expansion or reintroduction to historic range).</p> <p>Status: The species is either:</p> <ul style="list-style-type: none"> ▪ listed under the federal ESA as threatened or endangered, or proposed for listing; ▪ listed under CESA as threatened or endangered or a candidate for such listing, or listed under the Native Plant Protection Act as rare; or ▪ expected to be listed under ESA or CESA within the permit term. Potential for listing during the permit term is based on current listing status, consultation with experts and Wildlife Agency staff, evaluation of species population trends and threats, and best professional judgment. <p>Impact: The species or its habitat would be adversely affected by project related activities in Alameda County.</p> <p>Data: Sufficient data exist on the species' life history, habitat requirements, and occurrence in the study area to adequately evaluate impacts on the species and to develop conservation measures to mitigate these impacts to levels specified by regulatory standards.</p> <p>Species proposed as focal species were limited to those species for which impacts from project in the county were likely, or for which mitigation is often required under CEQA or ESA. However, many other special-status species are expected to benefit from the Conservation Strategy.</p>					
			<p>c. Recommended Status</p> <p>Y recommended as a focal species for East Alameda County Conservation Strategy</p> <p>N not recommended as focal species for East Alameda County Conservation Strategy</p>					