

## SAIC DRAFT

### Recommended Additional Species for BDCP Coverage

**Note:** Species recommended by SAIC to be added to the BDCP covered species list are presented in the following table (18 species). These species are recommended because we have concluded they meet the four criteria. As covered activities and conservation measures have been defined over the past year, species potentially affected by these actions have been reassessed. Currently, 37 species are proposed for coverage. With the addition of the recommended species, a total of 55 species would be proposed for coverage under the BDCP. The approach to State regulatory coverage has yet to be determined for these and other covered species.

<i>Scientific Name/ Common Name</i>	<i>Status<sup>a</sup> (Federal/State/ CNPS)</i>	<i>Coverage Comments</i>
<b>Mammals</b>		
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	E/T/-	There is potential for effects if this species is found to occur in the grassland habitats along the western edge of the Planning Area between approximately Brentwood and Clifton Court Forebay. The western alignment passes through areas with documented occurrences.
<i>Neotoma fuscipes riparia</i> Riparian woodrat	E/SSC/-	In addition to being a state species of special concern, this species is also considered a Special Animal because it is included on the ICUN Red List as Critically Endangered. This species is a Covered Species under the San Joaquin County HCP. This species is restricted to riparian habitats. While occurrence in the Planning Area is unknown, there are patches of suitable habitat that potentially support this species.
<i>Corynorhinus townsendii</i> Townsend's western big-eared bat	-/SSC/-	In addition to being a state species of special concern, this species is also included on the ICUN Red List as Vulnerable and is designated as High Priority by the Western Bat Working Group (WBWG). This is a Covered Species in the East Contra Costa HCP/NCCP and is being considered for coverage under the Yolo HCP/NCCP. This is a highly colonial bat that typically occupies natural caves; however, it is also known to colonize old structures such as barns. It is widely distributed throughout most of California and while there are no known roosts or maternity sites from the Planning Area, there is potential for use of old barns and other structures.
<b>Birds</b>		
<i>Melospiza melodia maxillaries</i> Suisun song sparrow	BCC/SSC/-	This species is proposed for coverage in the Solano HCP/NCCP. This species is closely associated with tidal marsh habitats and could potentially be listed in the future. It occurs in the western extreme of the Planning Area and in Suisun Marsh where restoration activities could affect occupied habitats.
<i>Elanus leucurus</i> White-tailed kite	-/FP/-	The white-tailed kite is state Fully Protected. It is also proposed for coverage under the South Sacramento County HCP and the Yolo HCP/NCCP. The kite occurs in riparian and other woodland habitats and could be affected through facility construction or restoration activities that remove trees or disturb active nests.
<b>Reptiles</b>		

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<i>Emys marmorata</i> Western pond turtle	-/SSC/-	In addition to being a state species of special concern, this species is also designated as Vulnerable on the IUCN Red List. It is covered or considered for coverage on all overlapping HCP/NCCPs. It is reasonable to suggest that this species could become listed within the plan timeframe. This species could potentially be affected by construction disturbances in watercourses and adjacent uplands associated with conveyance and possibly restoration activities.
<b>Amphibians</b>		
<i>Rana aurora draytonii</i> California red-legged frog	T/SSC/-	This species is federally listed. It is covered under the East Contra Costa HCP/NCCP and the San Joaquin County HCP and is proposed for coverage under the Yolo and Solano HCP/NCCPs. There are reported occurrences of this species in grassland/pond habitats in the vicinity of Clifton Court Forebay and along the western alignment north of the Forebay. Potential affects could occur through disturbance of occupied ponds or streams.
<i>Ambystoma californiense</i> California tiger salamander (Central Valley DPS)	T/SSC/-	This species is federally listed. This species is covered or is being considered for coverage under all overlapping HCP/NCCPs. Potential affects could occur through disturbance of vernal pools and ponds and adjacent grassland habitats from conveyance facilities construction and possibly restoration activities.
<b>Fish</b>		
<i>Lampetra tridentata</i> Pacific lamprey	-/-/-	This species has been reported throughout the Sacramento and San Joaquin River watersheds. Populations are thought to have declined in California, although status and trend data are sparse and unreliable. Most information is anecdotal. The species was petitioned for listing under the ESA in 2003, but the petition was denied by the USFWS citing insufficient evidence that listing was warranted. USFWS has indicated that this species is likely to be proposed for listing during the term of the program and recommends coverage.
<b>Invertebrates</b>		
<i>Branchinecta mesovalleyensis</i> Mid Valley Fairy Shrimp	-/-/-	This species is thought to have a very restricted range. A 2001 petition for listing was rejected by the USFWS in 2004 on the basis of insufficient data. However, it is reasonable to assume that this species could become listed within the plan timeframe. This species is covered in all overlapping HCP/NCCPs. This species could be affected through disturbances to vernal pool and other seasonal wetland habitats associated with conveyance and possibly restoration activities.
<b>Plants</b>		

Scientific Name/ Common Name	Status <sup>a</sup> (Federal/State/ CNPS)	Coverage Comments
<i>Atriplex cordulata</i> Heartscale	-/-1B	Heartscale grows in sandy, saline or alkaline flats and scalds, in chenopod scrub, meadows, and valley/foothill grassland (Solano HCP 2007; San Joaquin HCP 2000). It is proposed for coverage in the Solano HCP and was recommended for covered in the ISA Report. It occurs within the Planning Area and potentially within impact areas at the lower margins of uplands in the Cache Slough area and possibly in the Clifton Court Forebay area. It is present in Suisun Marsh. While heartscale is a widespread species, it may be declining due to loss of habitat through current and future development which may lead to listing during the plan period.
<i>Atriplex depressa</i> Brittlescale	-/-1B	Brittlescale grows on alkaline or clay soils occurring in grasslands contained by valleys or foothills, meadows saltbrush, vernal pools, and at the edge of playas (San Joaquin HCP 2000; Solano HCP 2007; ECCC HCP, 2007). It is proposed for coverage in the Solano HCP and the ISA Report recommends that this species be considered for coverage. It occurs within the Planning Area and potentially within impact areas at the lower margins of uplands in the Cache Slough area and possibly in the Clifton Court Forebay area. It is present in Suisun Marsh. While brittlescale is a widespread species it may be declining due to loss of habitat through current and future development which may lead to listing during the plan period.
<i>Atriplex minuscula</i> Lesser saltscale	-/-1B	Lesser saltscale grows on alkaline or clay soils occurring in grasslands contained by valleys or foothills, meadows saltbrush, vernal pools, and at the edge of playas. Although there are no documented occurrences in the Planing Area, lesser saltscale is assumed to be within Planning Area because several herbarium specimens have been reannotated as <i>A. minuscula</i> from <i>A. depressa</i> . It is potentially within impact areas at the lower margins of uplands in the Cache Slough and Suisun Marsh areas, possibly in the Clifton Court Forebay area, and in proposed restoration areas along the San Joaquin river upstream from the Mossdale Bridge. The ISA Report recommends that this species be considered for coverage. While lesser saltscale is a widespread species it may be declining due to loss of habitat through current and future development which may lead to listing during the plan period.
<i>Cirsium crassicaule</i> Slough thistle	-/-1B	Slough thistle is known from two locations in the Planning Area, one about 5 miles west of Manteca and one about 10 miles southeast of Tracy. It is also present within in the habitat restoration area upstream of the Mossdale Bridge. It is very uncommon across its limited range in the San Joaquin Valley and subjected to numerous negative impacts which may lead to listing during the plan period.
<i>Cirsium hydrophilum</i> var. <i>hydrophilum</i> Suisun thistle	E/-1B	Suisun thistle us federally listed and, while not in the Planning Area (Legal Delta), it is present within the Susuin Marsh habitat restoration opportunity area and could be adversely effected by restoration actions.

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<p><i>Gratiola heterosepala</i>                      Boggs Lake hedge-hyssop</p>	<p>-/E/1B</p>	<p>Boggs Lake hedge-hyssop occurs in vernal pools and in marshy area on the margins of reservoirs and lakes; also found in man-made habitats such as borrow pits and cattle ponds (FWS Vernal Pool Recovery Plan 2006; San Joaquin HCP 2000). It is a state listed species and is proposed for coverage in the South Sacramento and Solano HCPs. It occurs in areas near Cache Slough that are proposed for habitat restoration and, while no occurrences have been reported, may occur in the Stone Lakes area though not in area expected to be impacted. The ISA Report recommends that this species be considered for coverage.</p>
<p><i>Isocoma arguta</i>                      Carquinez goldenbush</p>	<p>-/-/1B</p>	<p>Carquinez goldenbush is present within impact areas of Suisun Marsh and Cache Slough. This shrub species is endemic to the alkaline and saline areas around the Montezuma Hills and sometimes grows along the transition between saline tidal marshes and uplands. Because of its extremely narrow distribution and small population sizes it is likely to be listed within the period of the plan. It is also likely to be impacted by sea level rise.</p>
<p><i>Tropidocarpum capparideum</i>                      Caper-fruited tropidocarpum</p>	<p>-/-/1B</p>	<p>Caper-fruited tropidocarpum grows on alkaline flats and low alkaline hills within valley and foothill grassland (San Joaquin HCP 2000; CNDDDB 2008). Historic occurrences are within the Planning Area at the Clifton Court Forebay but no current occurrences are documented from that area. The ISA Report recommends that this species be eliminated from consideration for coverage. However, this species should be considered for coverage as it is very rare and appears to have a long-lived seed bank that may be present in the Clifton Court Forebay impact areas.</p>

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<p><b><sup>a</sup>Status Explanations</b></p> <p><b>Federal</b>            E = listed as endangered under the federal Endangered Species Act (ESA)            T = listed as threatened under the federal ESA            C = candidate for listing under the federal ESA            BCC = U.S. Fish and Wildlife Service bird of conservation concern            NSC = National Marine Fisheries Service species of concern            – = no status</p> <p><b>State</b>            E = listed as endangered under the California ESA            T = listed as threatened            C = Candidate for listing under CESA            SSC = California species of special concern            FP = fully protected under the California Fish and Game Code            R = listed as rare under the California Native Plant Protection Act            – = no status</p> <p><b>California Native Plant Society (CNPS)</b>            1A = presumed extinct in California            1B = rare or endangered in California and elsewhere            2 = rare and endangered in California, more common elsewhere            – = no status</p>		