Yolo Habitat Conservancy

County of Yolo • City of Davis • City of Winters • City of West Sacramento
City of Woodland • University of California, Davis

NOTICE OF PUBLIC MEETING

YOLO HABITAT CONSERVANCY

ADVISORY COMMITTEE

TIME: **4:00 – 6:00 p.m. on Monday, December 11, 2017**

PLACE: **Yolo County Administration Building**
625 Court St., Woodland, CA 95695
Atrium Training Room (in the basement)

INFORMATION: **Contact Susan Garbini at 530-723-5909 or susan@yolohabitatconservancy.org**

Draft AGENDA

1. **Call meeting to order and introductions**

2. **Approve agenda order**

3. **Approve September 11, 2017, draft meeting summary** *(deferred from 10/9 due to lack of quorum)*

4. **Approve October 9, 2017, draft meeting summary; review status of Outstanding Action Items.**

    - Add links to other local conservation plans to YHC website. *(done)*

    - Conservancy staff to complete crosswalk of goals and objectives and send to AC members for review. *(done)*

    - Advisory Committee member comments on Chapter 3 and 4 due to Ellen and Chris Nov. 6th. *(agenda item #7)*

5. **Aquatic Elements of the RCIS** *(presentation)* **–** John Cain, American Rivers

6. **Review proposed 2018 Schedule of Meetings**

7. **Update on Regional Conservation Investment Strategy/Local Conservation Plan–** Ellen Berryman and Chris Alford

    - Review crosswalk tables of goals and objectives
    - Review comments on Draft RCIS/LCP
        - Use of technical language
        - Interest in increasing level of detail for conservation strategy priorities - see ICF's proposed prioritization criteria
        - Other comments

    - AC member liaison report (Chad Roberts)

    - Schedule

8. **HCP/NCCP Update** – Petrea Marchand

9. **Announcements and updates**

10. **Adjournment to next meeting date: Monday, January 8, 2017**
    Location: *Atrium Training Room*
    Yolo County Administration Building
    625 Court Street
    Woodland, CA

Appendix _: Yolo RCIS/LCP Goals and Objectives Crosswalk

ID	Name	Description	Cache Creek Resources Management Plan (CCRMP)	Capay Valley Watershed Stewardship Plan	Colusa Basin Watershed Management Plan	Hungry Hollow Watershed Stewardship Plan (HH)	Lower Putah Creek Watershed Management Action Plan	Willow Slough Watershed Integrated Resources Management Plan	Yolo Bypass Wildlife Area Land Management Plan	Yolo County Oak Woodland Conservation and Enhancement Plan
Landscape Level Goals and Objectives (L)										
L1	**Large interconnected landscapes**	**Goal L1: Large interconnected landscapes.** *Maintain interconnected landscapes in Yolo County with the range of physical and biological attributes (e.g., slope, soils, hydrology, climate, and plant associations) that support the distribution and abundance of focal and conservation species and their habitats, provide for the movement and genetic interchange among populations of focal and conservation species, support adaptive adjustments in species distributions in response to climate change, and sustain native biodiversity.*	G11	G4		G4				
L1.1	**Landscape Connectivity**	**Objective L1.1: Landscape Connectivity.** *Establish landscape connections within and between natural communities where connectivity is currently poorly developed or lacking. Maintain connectivity where it currently exists and/or is well developed, and avoid fragmentation.*	O20	O4-1, O4-3		O4-1, O4-3				
L1.2	**Areas to support sustainable populations**	**Objective L1.2: Areas to support sustainable populations.** *Maintain sufficient natural community or habitat areas to support sustainable populations of naturally occurring species in*				O4-1				
L1.3	**Environmental Gradients**	**Objective L1.3: Environmental Gradients.** *Include a variety of environmental gradients (e.g., hydrology, elevation, soils, slope, and aspect) within and across a diversity of protected and restored natural communities within the Strategy Area. Establish these gradients within the framework of reserve system connectivity.*								
L1.4	**Natural community restoration**	**Objective L1.4: Natural community restoration.** *Restore natural communities in a manner that maximizes the likelihood of their long-term functioning, taking into consideration both historic conditions and potential future conditions with climate change.*		O4-2						
L1.5	**Ecotone conservation**	**Objective L1.5: Ecotone conservation.** *Protect, restore and enhance ecotones between natural communities .*								
L2	**Ecological processes and conditions**	**Goal L2: Ecological processes and conditions.** *Maintain or restore ecological processes and conditions in Strategy Area landscapes that sustain natural communities, native species, and landscape connectivity.*								
L2.1	**Hydrologic and geomorphic processes**	**Objective L2.1: Hydrologic and geomorphic processes.** *Improve dynamic hydrologic and geomorphic processes in floodplains through a process that minimizing impacts on terrestrial species habitat (including the HCP/NCCP) and agricultural land . Allow floods to promote fluvial processes, such that bare mineral soils are available for natural recolonization of vegetation, desirable natural community vegetation is regenerated, and structural diversity is promoted; or implement management actions that mimic those natural disturbances.*	O15							
L2.2	**Fire**	**Objective L2.2: Fire.** *Allow or mimic natural fire regimes in areas where fires naturally occur and are a key component of the ecosystem.*								
L3	**Landscape-level stressors**	**Goal L3: Landscape-level stressors.** *Reduce landscape-level stressors that cause widespread effects on native species and ecosystems and on natural processes.*								
L3.1	**Invasive species**	**Objective L3.1: Invasive species.** *Control or eradicate invasive species that may cause reduced habitat quality for desired native species, reductions in biological diversity, or degraded ecosystem processes.*		O4-4		O4-4				
L3.2	**Pollutants and toxins**	**Objective L3.2: Pollutants and toxins.** *Reduce the effects of known pollutants and toxins that threaten native species.*	O10, O12							
L3.3	**Hazardous human land uses**	**Objective L3.3: Hazardous human land uses.** *Reduce impacts from hazardous human land uses, such as roads, that negatively affect the sustainability of natural communities and RCIS/LCP focal and conservation species.*								
L4	**Biodiversity, ecosystem function, and resilience**	**Goal L4: Biodiversity, ecosystem function, and resilience.** *Maintain and improve biodiversity, ecosystem function, and resilience across landscapes, including agricultural and grazed lands. Maintain landscape elements and processes that are resilient to climate change which will continue to support a full range of biological diversity in the Strategy Area.*	G15	G4, G5						
L4.1	**Heterogeneity within agricultural matrix**	**Objective L4.1: Heterogeneity within agricultural matrix.** *Maintain a heterogeneous landscape of agricultural and natural lands throughout the Valley Landscape Unit, with large and structurally complex patches of native vegetation connected by corridors and stepping stones , situated within a matrix of agricultural lands that, where possible, provides structural characteristics similar to those of native vegetation.*								
L4.2	**Resilience to climate change**	**Objective L4.2: Resilience to climate change.** *Promote the continued capability of the landscape, natural community, and species habitat elements in Yolo County to provide conservation benefits under conditions resulting from climate change.*								
L4.3	**Natural community and habitat resilience with climate change**	**Objective L4.3: Natural community and habitat resilience with climate change.** *Promote resilience in natural communities and habitat values (i.e., maintenance of habitat values) under conditions resulting from climate change.*								
L4.4	**Population viability and biodiversity resilience with climate change**	**Objective L4.4: Population viability and biodiversity resilience with climate change.** *Maintain viable populations of native species, and maintain biodiversity within the Strategy Area, under conditions resulting from climate change.*								
Natural Community Level										
Natural Community Level: Cultivated Land (CL)										
CL1	**Cultivated land habitat conservation**	**Goal CL1: Cultivated land habitat conservation.** *Conservation of cultivated land habitat values and appropriate land protection measures for focal and conservation species and natural communities.*	G22	G4, G5		G5		G7		
CL1.1	**Mixed agricultural uses with habitat values**	**Objective CL1.1: Mixed agricultural uses with habitat values.** *Encourage a mix of agricultural uses and appropriate land protection measures that provide for the needs of species that use farmland as habitat.*		O5-2		O5-4				
CL1.2	**Incorporation of habitat elements**	**Objective CL1.2: Incorporation of habitat elements.** *Encourage farming practices that increase habitat values in areas of contact between working agricultural lands and wildlands throughout the Strategy Area, including habitat element s such as hedgerows and patches of natural habitat (e.g., riparian patches) within the agricultural matrix.*	O26							

CL1.3	**Cultivated land pollinators**	**Objective CL1.3: Cultivated land pollinators.** *Maintain pollinators within the agricultural landscape.*								
Natural Community Level: California Prairie (CP)										
CP1	**Large contiguous patches of California prairie to support native species**	**Goal CP1: Large contiguous patches of California prairie to support native species.** *Maintain or restore large contiguous patches of California prairie to sustain and enhance the distribution and abundance of associated focal and other native species in the Strategy Area.*						G3, G7		
CP1.1	**California prairie protection**	**Objective CP1.1: California prairie protection.** *Prioritize protection of California prairie where large, contiguous patches are present and where native species are abundant in the Hill and Ridge Landscape Unit and PU 5.*								
CP1.2	**Restore and enhance California prairie.**	**Objective CP1.2: Restore and enhance California prairie.** *Restore and enhance native prairie.*								
CP1.3	**Burrowing rodents**	**Objective CP1.3: Burrowing rodents.** *Maintain and enhance the functions of protected California prairie as habitat for focal, conservation, and other native species by maintaining areas with burrowing rodents such as ground squirrels and gophers.*								
CP1.4	**Grazing regimes**	**Objective CP1.4: Grazing regimes.** *Maintain and enhance the functions of protected California prairie in the reserve system as habitat for focal, conservation, and other native species by implementing appropriate grazing regimes.*								
CP1.5	**California prairie pollinators**	**Objective CP1.5: California prairie pollinators.** *Maintain pollinators within the California prairie landscape.*								
Natural Community Level: Chaparral (CH)										
CH1	**Chaparral conservation**	**Goal CH1: Chaparral conservation.** *Maintain conserved chaparral that supports viable populations of native wildlife and plant species, supports connectivity in the landscape, and assists in maintaining diverse pollinator species.*		G4				G3		
CH1.1	**Protect chamise chaparral for connectivity.**	**Objective CH1.1: Protect chamise chaparral for connectivity.** *Protect chamise chaparral as needed to achieve landscape connectivity.*		O4-1						
CH1.2	**Protect mixed chaparral**	**Objective CH1.2: Protect mixed chaparral.** *Prioritize protection of mixed chaparral where it supports focal or conservation species or contributes to key connectivity.*								
CH1.3	**Manage chaparral**	**Objective CH1.3: Manage chaparral.** *Manage chaparral to promote native plant and wildlife diversity.*								
CH1.4	**Chaparral pollinators**	**Objective CH1.4: Chaparral pollinators.** *Maintain pollinator (especially native bee) populations within chaparral.*								
Natural Community Level: Woodland and Forests (WF)										
WF1	**Valley oak protection and restoration**	**Goal WF1: Valley oak protection and restoration.** *Implement protect and restore valley oak woodland, forest, savanna, and individual trees in the Strategy Area, with an emphasis on restoration over protection.*		G4				G3, G7		G1, G5, G7
WF1.1	**Increase valley oaks**	**Objective WF1.1: Increase valley oaks.** *Increase the extent of valley oaks in the Strategy Area through restoration and enhancement.*		O4-2		O4-2				
WF1.2	**Protect valley oaks**	**Objective WF1.2: Protect valley oaks.** *Protect existing stands, individual trees, patches, and stringers of valley oaks.*		O4-1		O4-1				
WF2	**Upland oak protection and restoration/ enhancement**	**Goal WF2: Upland oak protection and restoration/ enhancement.** *Implement protection and restoration or enhancement of upland oaks in the Hill and Ridge Landscape Unit, with an emphasis on protection over restoration.*		G4				G3, G7		G1, G5, G7
WF2.1	**Protect upland oaks**	**Objective WF2.1: Protect upland oaks.** *Protect upland oaks in the Hill and Ridge Landscape Unit, including contiguous forests, woodland and savannas, and patches and stringers of upland oak woodland, prioritizing protection of oak woodland surrounded by natural lands rather than developed lands, and those on lands contributing to connectivity.*		O4-1						
WF2.2	**Restore upland oaks**	**Objective WF2.2: Restore upland oaks.** *Restore upland oak woodland, forest, or savanna to increase connectivity and stand size (reduce fragmentation).*		O4-2						
WF3	**Riparian oak protection and restoration**	*Protect, restore, or enhance oak woodland and forest in riparian areas, with a focus on the Hill and Ridge Landscape Unit.*	G19	G4				G3, G7		G1, G5, G7
WF3.1	**Protect riparian oaks and Oak Woodlands**	*Objective Protect oak woodland and forest in riparian areas in the Hill and Ridge Landscape Unit.*		O4-1						
WF3.2	**Restore and enhance riparian oaks and Oak Woodlands**	*Objective Restore and enhance oak woodland and forest in riparian areas in the Hill and Ridge Landscape Unit.*								
WF4	**Oak woodland management**	*Manage oak woodland and forest natural communities outside of riparian areas to enhance habitat quality supporting native biodiversity, and to provide enhanced ecosystem functions and services.*		G4						G1, G5
WF4.1	**Manage and enhance oak woodlands**	*Manage and enhance oak woodlands to maintain or increase native biodiversity.*								
WF4.2	**Oak woodland pollinators**	*Maintain pollinator (especially native bee) populations within oak woodlands and forests.*								
WF4.3	**Burrowing rodents**	*Maintain and enhance the functions of protected oak woodlands as habitat for focal and other native species by maintaining areas with burrowing rodents such as ground squirrels and gophers.*								
WF4.4	**Grazing regimes**	*Maintain and enhance the functions of protected oak woodland as habitat for focal and other native species by implementing appropriate grazing regimes.*								
Natural Community Level: Fresh Emergent Wetlands (FW)										
FW1	**Fresh emergent wetland conservation**	*Conserve fresh emergent wetlands in the Yolo County.*						G3, G7		
FW1.1	**Protect fresh emergent wetlands.**	*Prioritize protection of fresh emergent wetlands that support focal or conservation species.*								
FW1.2	**Increase fresh emergent wetland areas**	*Increase the acres of fresh emergent wetlands in Yolo County for focal species.*								
Natural Community Level: Riparian (R)										
R1	**Riparian conservation**	*Establish, maintain, and protect functional riparian habitat values well distributed throughout Yolo County, including protection of existing, and restoration and enhancement of diminished, riparian habitat values.*	G10, G11, G12, G19	G4				G3, G7		
R1.1	**Protect riparian areas**	*Protect existing riparian areas associated with watercourses within Yolo County, prioritizing drainages that provide key landscape linkages.*	O14	O4-1						
R1.2	**Increase riparian habitat areas**	*Increase riparian habitat area and distribution in Yolo County through restoration, prioritizing drainages that provide key linkages, particularly where restoration closes gaps in vegetation along the length of drainages, widens riparian zones or provides wide riparian nodes adjacent to drainages, or provides lateral linkage between drainages and adjacent natural communities.*	O15	O4-2						

(R1.3	**Maintain or enhance riparian habitat areas**	*Maintain or enhance the functional habitat value of existing riparian habitat areas by maintaining or increasing the complexity of the riparian vegetation.*	O14, O15							
Natural Community Level: Lacustrine/Riverine (LR)										
(LR1	**Stream Conservation**	*Conserve and enhance stream systems in Yolo County.*	G19	G1, G4				G7		
(LR1.1	**Fluvial equilibrium**	*Maintain and/or restore fluvial equilibrium between erosion and deposition in Strategy Area streams.*	O5	O1-1, O1-2, O1-3, O1-4						
(LR1.2	**American beavers**	*Protect lacustrine/riverine systems supporting American beavers.*								
(LR1.3	**Native vegetation**	*Promote the establishment and maintenance of native vegetation along natural and constructed waterways.*	O18	O4-1, O4-2						
(LR1.4	**Stream processes and conditions**	*Maintain and/or restore and protect stream processes and conditions in Strategy Area streams.*	O5							
Natural Community Level: Alkali Prairie (AP)										
(AP1	**Alkali prairie conservation**	*Conserve alkali prairie in Yolo County.*								
(AP1.1	**Protect Alkali Prairie**	*Protect currently unprotected alkali prairie where it supports focal or conservation species.*								
Natural Community Level: Vernal Pool (VP)										
(VP1	**Vernal Pool Complex**	*Conserve vernal pool complexes in Yolo County.*								
(VP1.1	**Protect vernal pool complexes**	*Protect currently unprotected vernal pool complexes.*								
(VP1.2	**Vernal pool pollinators**	*Maintain pollinator (especially native bee) populations within vernal pools.*								
Species Level: Focal Plant Species (PLANT)										
(PLANT1	**Conserve focal plant species populations**	*Conserve focal plant species populations in the Strategy Area.*								
(PLANT1.1	**Protect focal plant species habitat and occurrences**	*Protect currently known but unprotected or newly discovered unprotected habitat for focal plant species, prioritizing occupied habitat.*								
(PLANT1.2	**Maintain or increase focal plant species abundance**	*Maintain or increase the mean annual abundance of focal plant species in protected habitat within Yolo County.*								
Species Level: Vernal Pool Invertebrates (VPI)										
(VPI1	**Vernal pool invertebrate conservation**	*Conserve vernal pool invertebrates in protected habitat in Yolo County.*								
(VPI1.1	**Maintain or increase vernal pool invertebrate populations**	*Maintain or increase the abundance of Conservancy fairy shrimp, vernal pool fairy shrimp, midvalley fairy shrimp, California linderiella, and vernal pool tadpole shrimp on protected lands in Yolo county.*								
Species Level: Valley Elderberry Longhorn Beetle (VELB)										
(VELB1	**Maintenance of valley elderberry longhorn beetle populations.**	*Maintenance of the distribution and abundance of valley elderberry longhorn beetle in Yolo County.*								
(VELB1.1	**Protect and manage valley elderberry longhorn beetle populations**	*Increase protection and management of valley elderberry longhorn beetle colonies in Yolo County.*								
(VELB1.2	**Valley elderberry longhorn beetle habitat amount, connectivity, and quality**	*Increase the amount, connectivity, and quality of valley elderberry longhorn beetle habitat.*								
Species Level: Focal Fish Species (FISH)										
(FISH1	**Protected and enhanced focal fish species habitat**	*Protected and enhanced focal fish species spawning, rearing, and migration habitat in Yolo County.*								
(FISH1.1	**Shaded riverine aquatic habitat**	*Increase the area of shaded riverine aquatic habitat in Yolo County that supports focal fish species.*								
(FISH1.2	**In-stream marsh habitat**	*Increase the area of in-stream marsh habitat in Yolo County that supports the focal fish species.*								
(FISH1.3	**Passage barriers**	*Remove or modify passage barriers that prevent access of focal fish species to spawning and rearing habitat, and build or modify barriers to prevent passage into detrimental locations.*								
(FISH1.4	**Large woody material**	*Increase large woody material in focal fish species habitat to provide complexity and predator refuges for focal fish species in streams in the Yolo County.*								
(FISH1.5	**Yolo Bypass inundation**	*Increase inundation in the Yolo Bypass so that it reaches an optimized magnitude, frequency, and duration that will benefit native fish while using an Integrated Water Management (IWM) approach. An IWM approach utilizes a system-wide perspective and considers all aspects of water management, including public safety and emergency management, environmental sustainability, and the economic stability of agricultural and recreational uses of the Bypass.*								
(FISH1.6	**Restore Putah Creek fish habitat**	*Support and partner with existing efforts to restore Putah Creek habitat in Yolo County to enhance spawning, rearing, and migration of focal fish species.*								
(FISH1.7	**Non-native predators**	*Reduce non-native predator habitat by restoring more natural hydrologic and geomorphologic processes in streams.*								
(FISH1.8	**Research**	*Support short-term research projects to gain an understanding of multiple benefits of seasonal inundation on agricultural lands, including providing focal fish species spawning and rearing*								
Species Level: California Tiger Salamander (CTS)										
(CTS1	**California tiger salamander conservation**	*Conservation of California tiger salamander in the Strategy Area.*								
(CTS1.1	**Protect Upland Habitat**	*Increase protection of grassland providing California tiger salamander upland habitat (within 1.3 miles of aquatic habitat) in the Dunnigan Hills Planning Unit, in addition to upland habitat protected under the Yolo HCP/NCCP. Prioritize protection in designated critical habitat.*								

(CTS1.2	**Protect and restore aquatic habitat**	*Increase protection and restoration of aquatic habitat for California tiger salamander in the Dunnigan Hills planning unit, in addition to the aquatic habitat protected and restored by the Yolo HCP/NCCP. Prioritize protection in designated critical habitat. Within the protected and restored aquatic habitat, include California tiger salamander breeding pools that are found to support all life stages of the salamander through all water year types.*								
Species Level: Foothill Yellow-Legged Frog (FYLF)										
(FYLF1	**Maintenance of foothill yellow-legged frog distribution and abundance**	*Maintain the distribution and abundance of foothill yellow-legged frogs within their range in Yolo County.*								
(FYLF1.1	**Protect aquatic and upland habitat**	*Increase protection of foothill yellow-legged frog habitat distributed among the planning units 1, 2, 4, 6, and/or 8, prioritizing occupied habitat.*								
Species Level: Western Spadefoot (WS)										
(WS1	**Maintenance of western spadefoot distribution and abundance**	*Maintain the distribution and abundance of western spadefoot within its range in Yolo County.*								
(WS1.1	**Habitat Protection.**	*Increase protection of western spadefoot habitat in ponds and associated uplands distributed among planning units 2 – 6 and/or 8, prioritizing occupied habitat.*								
Species Level: Western Pond Turtle (WPT)										
(WPT1	**Maintenance of western pond turtle distribution and abundance**	*Maintain the distribution and abundance of western pond turtle within its range in Yolo County.*								
(WPT1.1	**Protect and enahnce habitat**	*Increase protection and restoration of western pond turtle aquatic habitat in riverine and lacustrine areas distributed among planning units 2-6 and/or 8.*								
Species Level: Giant Garter Snake (GGS)										
(GGS1	**Giant garter snake conservation**	*Conserve giant garter snake in the Yolo County, including the Willow Slough/Yolo Bypass subpopulation and a segment of the Colusa Basin subpopulation, and connectivity between the two subpopulations.*								
(GGS1.1	**Protect and manage rice land.**	*Increase the protection and management of rice land in modeled giant garter snake habitat, including suitable emergent marsh habitat, in addition to the acres protected by the Yolo HCP/NCCP.*								
(GGS1.2	**Protect and manage active season upland movement habitat**	*Increase the protection and management of active season upland movement habitat and overwintering habitat for giant garter snake, in addition to protection by the Yolo HCP/NCCP.*								
(GGS1.3	**Protect, restore, and manage aquatic non-rice habitat**	*Increase the protection, restoration, and management of aquatic non-rice habitat for giant garter snake, in addition to the 500 acres protected by the Yolo HCP/NCCP. This includes fresh emergent wetland natural community, lacustrine/riverine natural community, and restored fresh emergent wetland and lacustrine and riverine natural communities. Ensure that most of the aquatic habitat is perennial, and the remainder provides aquatic habitat for the giant garter snake during the active season at least through July of each summer.*								
(GGS1.4	**Protect large interconnected habitat blocks**	*Protect or restore suitable perennial wetland garter snake in blocks at least 539 acres[1] in size, within five miles of larger areas of perennial wetland, and connect these larger areas by corridors of aquatic and upland habitat of at least 0.5 mile wide.*								
(GGS1.5	**Enhance giant garter snake habitat**	*Enhance giant garter snake habitat by improving water quality, and incorporating refugia from floodwaters and basking sites for improved thermoregulation.*								
Species Level: Tricolored Blackbird (TRBL)										
(TRBL1	**RCIS/LCP Goal TRBL1: Tricolored blackbird conservation**	*Conservation of tricolored blackbird populations in the Strategy Area.*								
(TRBL1.1	**Protect fresh emergent wetland**	*Increase protection of fresh emergent wetland providing breeding habitat for tricolored blackbird, in addition to the 200 acres protected by the Yolo HCP/NCCP, prioritizing areas supporting nesting colonies.*								
(TRBL1.2	**Protect nesting colonies**	*Increase protection of tricolored blackbird nesting colonies, in addition to the two colonies protected by the Yolo HCP/NCCP. To avoid intensive disturbances (e.g., heavy equipment operation associated with construction activities) or other activities that may cause nest abandonment or forced fledging, include a buffer zone of at least 250 feet around protected active breeding colonies. This minimum buffer may be reduced in areas with dense trees, buildings, or other habitat features between potential nearby disturbances and the protected nest colonies or where there is sufficient topographic relief to protect the colonies from excessive noise or visual disturbance.*								
(TRBL1.3	**Protect foraging habitat**	*Increase protection of tricolored blackbird foraging habitat of at least 150-acre blocks, in addition to the 300 acres protected by the Yolo HCP/NCCP. Prioritize protection of agricultural lands where pesticides are not used.*								
(TRBL1.4	**Manage and enhance habitat**	*Manage and enhance protected tricolored blackbird habitat to maintain habitat value for this species.*								
Species Level: Grasshopper Sparrow (GRSP)										
(GRSP1	**Maintenance of grasshopper sparrow distribution and abundance**	*Maintain of the distribution and abundance of grasshopper sparrow within Yolo County.*								
(GRSP1.1	**Protect habitat**	*Increase the protection of habitat with known grasshopper sparrow nesting occurrences.*								
(GRSP1.2	**Maintain and enhance habitat**	*Maintain and enhance the habitat functions of protected grasshopper sparrow habitat.*								
Species Level: Western Burrowing Owl (WBO)										
(WBO1	**Western burrowing owl conservation**	*Conserve western burrowing owls in Yolo County.*								
(WBO1.1	**Protect habitat and active nest sites**	*Increase protection of western burrowing owl primary habitat in Yolo County, in addition to the habitat protected by the Yolo HCP/NCCP, prioritizing areas with active nest sites.*								
(WBO1.2	**Manage and enhance habitat**	*Implement management and enhancement practices to encourage burrowing owl occupancy on protected lands.*								
Species Level: Swainson's hawk (SWHA)										

(SWHA1	**Swainson's hawk conservation**	*Conserve Swainson's hawks in Yolo County.*								
(SWHA1.1	**Protect agricultural foraging habitat**	*Increase protection of cultivated lands with crops that support Swainson's hawk foraging habitat, in addition to the 14,362 acres of agricultural foraging habitat protected by the Yolo HCP/NCCP.*								
(SWHA1.2	**Protect grassland foraging habitat**	*Increase protection of grassland foraging habitat for Swainson's hawk, in addition to the 4,430 acres protected by the Yolo HCP/NCCP.*								
(SWHA1.3	**Protect nest trees**	*Increase protection and maintain unprotected Swainson's hawk nest trees that have been active within the last five years, in addition to the 20 nest trees the Yolo HCP/NCCP will protect.*								
(SWHA1.4	**Maintain or enhance nest tree density.**	*Maintain or enhance the density of Swainson's hawk nest trees on cultivated land foraging habitat to provide a minimum density of one tree suitable for Swainson's hawk nesting (native trees at least 20 feet in height, particularly valley oaks if conditions are suitable) per 10 acres of cultivated lands in the reserve system. Where existing protected trees do not meet that minimum requirement, plant suitable nest trees to meet this density requirement.*								
Species Level: Greater Sandhill Crane (GSHC)										
(GSHC1	**Protection and expansion of greater sandhill crane.**	*Protect and expand greater sandhill crane winter range in Yolo County.*								
(GSHC1.1	**Protect foraging habitat**	*Increase protection of high- to very high-value foraging habitat for greater sandhill crane, with at least 80 percent maintained in very high-value types in any given year. Protected habitat should be in planning unit 15, within 2 miles of known roosting sites, and should consider sea level rise and local seasonal flood events. Patch size of protected cultivated lands should be at least 160 acres.*								
(GSHC1.2	**Create high-value foraging habitat**	*Increase the acres of high-value greater sandhill crane winter foraging habitat by protecting low-value habitat or nonhabitat areas and converting it to high- or very high-value habitat. Created habitat should be in planning unit 15, within 2 miles of known roosting sites, and should consider sea level rise and local seasonal flood events.*								
(GSHC1.3	**Create managed wetland roosting habitat**	*Increase the acres of managed wetlands consisting of greater sandhill crane roosting habitat in minimum patch sizes of 40 acres within the Greater Sandhill Crane Winter Use Area[1] in planning unit 15, with consideration of sea level rise and local seasonal flood events. The wetlands should be located within 2 miles of existing permanent roost sites and protected in association with other protected natural community types at a ratio of 2:1 upland to wetland to provide buffers around the wetlands.*								
(GSHC1.4	**Create flooded cornfield roosting and foraging habitat**	*Increase the acres of roosting habitat within 2 miles of existing permanent roost sites, consisting of active cornfields that are flooded following harvest to support roosting cranes and that provide highest-value foraging habitat. Individual fields should be at least 40 acres and can shift locations throughout the Greater Sandhill Crane Winter Use Area (see species account, Figure A).*								
Species Level: Northern Harrier (NH)										
(NH1	**Northern harrier habitat**	*Sufficient protected habitat to support the population of northern harrier in the Strategy Area*								
Species Level: Bank Swallow (BS)										
(BS1	**Bank swallow conservation**	*Conserve bank swallow in Yolo County.*								
(BS1.1	**Protect habitat**	*Increase protection of floodplain habitat for bank swallow along Cache Creek and the Sacramento River, prioritizing protection of occupied sites.*								
(BS1.2	**Manage and enhance habitat**	*Manage and enhance bank swallow habitat to improve bank swallow foraging habitat values.*								
Species Level: Black Tern (BT)										
(BT1	**Black tern habitat**	*Sustain sufficient habitat area to support black terns that migrate through the Strategy Area and to support future reestablishment of a nesting population in the Strategy Area.*								
Species Level: Western Yellow-Billed Cuckoo (WYBC)										
(WYBC1	**Western yellow-billed cuckoo habitat**	*Sufficient western yellow-billed cuckoo habitat in Yolo County to provide opportunities for migration and breeding.*								
(WYBC1.1	**Protect western yellow-billed cuckoo habitat**	*Increase protection of western yellow-billed cuckoo habitat, in addition to the habitat protected by the Yolo HCP/NCCP.*								
(WYBC1.2	**Restore western yellow-billed cuckoo habitat**	*Increase the acres of western yellow-billed cuckoo habitat in the Strategy Area, with the land cover types that comprise the species' modeled habitat (in addition to habitat restored by the Yolo HCP/NCCP).*								
Species Level: Least Bell's Vireo (LBV)										
(LBV1	**Least Bell's vireo habitat**	*Sufficient habitat in the Strategy Area to support least Bell's vireos that migrate through, and to support potential future reestablishment of a nesting population.*								
(LBV1.1	**Protect and Manage Least Bell's Vireo Habitat**	*Increase protection of least Bell's vireo habitat, in addition to habitat protected by the Yolo HCP/NCCP, and manage that habitat to support the species.*								
(LBV1.2	**Restore least Bell's vireo habitat**	*Increase the acres of least Bell's vireo habitat in Yolo County, with the land cover types that comprise the species' modeled habitat* (in addition to the habitat restored by the Yolo HCP/NCCP).								
Species Level: White-Tailed Kite (WTK)										
(WTK1	**White-tailed kite habitat**	*Sufficient protected habitat to support the population of white-tailed kites in the Strategy Area*								
Species Level: California Black Rail (CBR)										
(CBR1	**California black rail habitat**	*Suitable habitat conditions for California black rail in Yolo County.*								
(CBR1.1	**Protect California black rail habitat**	*Increase the protection of California black rail habitat in Yolo County, including patches of marsh greater than 20 acres in size, with land cover types and in locations that comprise the species' modeled habitat, prioritizing protection of occupied habitat or habitat where potential for occupancy is high (species account, Appendix A).*								
(CBR1.2	**Restore California black rail habitat**	*Increase the acres of California black rail habitat in Yolo County, with the land cover types and in locations that comprise the species' modeled habitat (species account, Appendix A).*								
(CBR1.3	**Enhance black rail habitat**	*Enhance California black rail habitat by increasing its ability to support the species.*								
Species Level: Loggerhead Shrike (LS)										
(LS1	**Loggerhead shrike habitat**	*Sufficient habitat in the Strategy Area to support the population of loggerhead shrike.*								

Species Level: Yellow-Breasted Chat (YBC)										
YBC1	**Yellow-breasted chat distribution and abundance**	*Sustain and increase the distribution and abundance of yellow-breasted chat within its range in the Strategy Area.*								

Appendix _: Goals and Objectives From Other Regional Conservation Plans

Cache Creek Resources Management Plan (CCRMP)

RCIS/LCP Cross-Walk ID	ID in Plan	Page in Plan	Identification in Plan	Language	RCIS/LCP Goals & Objectives
CCRMP-G1	2.2-1	32	Goal	Recognize that Cache Creek is a dynamic system that naturally undergoes gradual and sometimes sudden changes during high flow events	
CCRMP-G2	2.2-2	32	Goal	Establish a more natural channel floodway capable of conveying floodwaters without damaging essential structures, causing excessive erosion or adversely affecting adjoining land uses.	L2
CCRMP-G3	2.2-3	32	Goal	Coordinate land uses and improvements along Cache Creek so that the adverse effects of flooding and erosion are minimized.	
CCRMP-G4	2.2-4	32	Goal	Ensure that the floodway is maintained to allow other beneficial uses of the channel, including groundwater recharge, recreation, and riparian habitat, without adversely affecting flood flow conveyance capacity.	
CCRMP-O1	2.3-1	32	Objective	Support flood management objectives as required to protect the public health and safety.	
CCRMP-O2	2.3-2	32	Objective	Integrate the CCRMP with other planning efforts to create a comprehensive, multi-agency management plan for the entire Cache Creek watershed.	
CCRMP-O3	2.3-3	32	Objective	Recommend actions to create a more stable channel configuration with flood flow conveyance capacity that is consistent with regional flood management programs.	
CCRMP-O4	2.3-4	32	Objective	Protect permanent in-channel improvements (e.g., pipelines, bridges, levees, and dams) from structural failure caused by erosion and scour.	
CCRMP-O5	2.3-5	32	Objective	In order to allow the creek to aggrade and create a more natural channel system, restrict the amount of aggregate removed from Cache Creek, except where necessary to: increase flood flwo capacity; protect existing structures, infrastructure, and/pr farmland; minimize bank erosion; implement the Channel Form Template; enhance creek stability; establish riparian vegetation; or for recreation and/or open space uses consistent with the Parkway Plan.	LR1.1, LR1.4
CCRMP-O6	2.3-6	33	Objective	Establish monitoring programs for the continued collection of data and information to be used in managing the resources of Cache Creek.	
CCRMP-O7	2.3-7	33	Objective	Manage Cache Creek so that the needs of the various uses dependent upon the creek, such as flood protection, wildlife, groundwater, structural protection, and drainage, are appropriately balanced.	
CCRMP-G5	3.2-1	43	Goal	Improve the gathering and coordination of information about water resources so that effective policy decisions can be made.	
CCRMP-G6	3.2-2	43	Goal	Promote the conjunctive use of surface and groundwater to maximize the availability of water for a range of uses, including habitat, recreation, agriculture, water storage, flood control, and urban development.	
CCRMP-G7	3.2-3	43	Goal	Maintain the quality of surface and groundwater so that nearby agricultural productivity and available drinking water supplies are not diminished.	
CCRMP-G8	3.2-4	43	Goal	Enhance the quality of water resources by stressing prevention and stewardship rather than costly remediation.	
CCRMP-G9	3.2-5	43	Goal	Provide habitat restoration without increasing the generation of mosquitoes.	
CCRMP-O8	3.3-1	43	Objective	Encourage the development of a groundwater recharge program, where appropriate, within the Cache Creek basin. The program may specify use of reclaimed mining pits and open lakes to the greatest extent feasible, while maintaining consistency with the other goals, objectives, actions, and standards of both the CCRMP and OCMP	
CCRMP-O9	3.3-2	43	Objective	Use the CCRMP as a basis for developing a comprehensive watershed plan for Cache Creek that eventually integrates the area above Clear Lake to the Yolo Bypass, relying on coordinated interagency management.	

RCIS/LCP Cross-Walk ID	ID in Plan	Page in Plan	Identification in Plan	Language	RCIS/LCP Goals & Objectives
CCRMP-O10	3.3-3	43	Objective	Eliminate water quality impacts from the use of pesticides, fertilizers, and other soil amendments in the channel. Promote public education programs that encourage the use of innovative methods and practices for enhancing the water quality of Cache Creek through the voluntary cooperation of local landowners	L3.2
CCRMP-O11	3.3-4	43	Objective	Establish monitoring programs for the continued collection of data and information to be used in managing surface and groundwater resources.	
CCRMP-O12	3.3-5	43	Objective	Promote the safe use and handling procedures of hazardous materials during creek management activities.	L3.2
CCRMP-O13	3.3-6	44	Objective	Minimize mosquito generating potential in habitat restoration areas	
CCRMP-G10	4.2-1	55	Goal	Provide for a diverse, native riparian ecosystem within the CCRMP area that is self-sustaining and capable of supporting native wildlife.	L1, R1
CCRMP-G11	4.2-2	56	Goal	Create a continuous corridor of riparian, upland, and herbaceous vegetation spanning the CCRMP area.	L1, R1, CP1, LR1, WF2
CCRMP-G12	4.2-3	56	Goal	Develop high quality natural habitat that is dominated by native plants	R1, LR1.3
CCRMP-G13	4.2-4	56	Goal	Manage riparian habitat so that it contributes to channel stability	
CCRMP-G14	4.2-5	56	Goal	Establish monitoring programs for the continued collection of data and information to be used in measuring the success of revegetation efforts.	
CCRMP-G15	4.2-6	56	Goal	Integrate climate-smart adaptation strategies to increase resiliency and prepare for future uncertainty.	L4
CCRMP-O14	4.3-1	56	Objective	Conserve and protect existing riparian habitat within the CCRMP area to the greatest extent possible. Where channel maintenance or improvement activities result in the removal of riparian habitat, require disturbed areas to be restored. Where vegetation has been removed within the channel to maintain or improve flood flow conveyance capacity and/or erosion control purposes, restoration shall be done in nearby areas that do not adversely affect flood flow conveyance capacity.	R1.1, R1.3, LR1.3
CCRMP-O15	4.3-2	56	Objective	Establish conditions to encourage the development of a variety of natural riparian habitat types within the CCRMP area in order to support biological resources associated with Cache Creek.	L2.1, R1.2, R1.3, LR1.3
CCRMP-O16	4.3-3	56	Objective	Adopt standards for planning, implementating, and monitoring habitat revegetation and restoration projects in order to ensure consistency, maximize success, and account for future uncertainty due to climate change.	
CCRMP-O17	4.3-4	56	Objective	Ensure that the establishment of habitat does not significantly divert streamflow or cause excessive erosion or damage to nearby structures and/or property.	
CCRMP-O18	4.3-5	56	Objective	Encourage the use of alternative methods and practices for erosion control that incorporate riparian vegetation in the design.	LR1.3
CCRMP-O19	4.3-6	56	Objective	Coordinate restoration programs with relevant planning efforts of both the County and other private and public agencies. Encourage regional mitigation to occur within the CCAP plan area , consistent with the program and the Parkway Plan.Require mitigation obligations resulting from mining applications to be implemented within the CCAP plan area, consistent with the Parkway Plan.	
CCRMP-G16	5.2-1	71	Goal	Improve scenic resources within the Cache Creek channel.	
CCRMP-G17	5.2-2	71	Goal	Establish a variety of outdoor recreational and educational opportunities along Cache Creek for use by the public.	
CCRMP-G18	5.2-3	71	Goal	Ensure the compatibility of recreational facilities with surrounding land uses and sensitive wildlife habitat, in order to minimize adverse impacts.	
CCRMP-O20	5.3-1	71	Objective	Create a continuous corridor of natural open space along the creek and provide for limited access, at specific locations, to recreational and educational uses.	
CCRMP-O21	5.3-2	71	Objective	Continue to use the "Open Space" designation for areas where resource management and habitat protection is warranted.	

RCIS/LCP Cross-Walk ID	ID in Plan	Page in Plan	Identification in Plan	Language	RCIS/LCP Goals & Objectives
CCRMP-G19	6.2-1	76	Goal	Use the removal of in-channel aggregate deposits as an opportunity to reclaim, restore, and/or enhance the channel stability and habitat of Cache Creek.	LR1
CCRMP-G20	6.2-2	76	Goal	Provide for effective and systematic monitoring and reclamation of aggregate removal activities within Cache Creek.	
CCRMP-O22	6.3-1	76	Objective	Reduce duplication of effort and conflicting regulatory authorities in order to encourage implementation of appropriate management measures and practices within and adjacent to Cache Creek.	
CCRMP-O23	6.3-2	76	Objective	Revise existing regulatory measures to more accurately reflect the environmental processes of Cache Creek.	
CCRMP-O24	6.3-3	76	Objective	Enlist the cooperation of private and public interests to assist in maintenance and channel reshaping efforts.	
CCRMP-G21	7.2-1	88	Goal	Protect farmland along Cache Creek from land uses that may conflict with agricultural operations.	
CCRMP-G22	7.2-2	88	Goal	Develop opportunities where restoration efforts and agriculture can provide mutual benefits.	CL1
CCRMP-O25	7.3-1	88	Objective	Ensure the compatibility of planned habitat and the channel floodplain with adjoining agricultural land, so that productivity is not adversely affected.	
CCRMP-O26	7.3-2	88	Objective	Coordinate with local farmers to employ existing agricultural practices in improving the quality of riparian habitat.	CL1.2
CCRMP-O27	7.3-3	88	Objective	Manage Cache Creek to reduce the loss of farmland from erosion and increase the recharge potential of the channel.	

Table X. Recommended criteria to select priority areas for conservation actions listed in this RCIS.[1]

Criteria (Section)	Lower Priority	Higher Priority
Conservation goals and objectives (Section 3.4.1, Table 3-4)	Contributes to one or two conservation goal or objective in RCIS/LCP	Contributes to three or more conservation goals and objectives in RCIS/LCP
RCIS/LCP Priority Area (Section 3.4.1, Table 3-4)	Not within a Priority Area identified in Table 3-4	Within a Priority Area identified in Table 3-4
Size of site (acres) (Section 3.4, Goal L1)	Small site (< 40 acres) or moderate size site (40-160 acres)	Large site (> 160 acres)
Site configuration (i.e., shape) and adjacent land uses (Section 3.4, Goal L1)	Sites with incompatible land uses[2] adjacent and with high ratio of edge:area	Sites with incompatible land uses adjacent and with low ratio of edge:area, or compatible adjacent land uses
Focal or conservation species (Table 1-2)	Site supports suitable but unoccupied habitat for one or more focal or conservation species	Site supports occupied habitat for one or more focal or conservation species
Patch size for focal and conservation species (Section 3.4.1, Table 3-4)	Suitable habitat on site below minimum patch size identified in Table 3-4 for target focal species	Suitable habitat on site above minimum patch size identified in Table 3-4 for target focal species
Site connectivity to protected area (Section 3.4, Goal L1)	Site not adjacent to protected area but within likely dispersal distance for focal or conservation species on site	Within or adjacent to existing protected area(s) that are managed for ecological purposes
Regional connectivity (Section 2.9)	Site not within Essential Habitat Connectivity Area, Ecological Corridors, or Creek Corridor identified for RCIS/LCP area (Figure 2-16)	Site partially or entirely within Essential Habitat Connectivity Area, Ecological Corridors, or Creek Corridor identified for RCIS/LCP area (Figure 2-16)
Rare natural communities (Section 3.3.1)	Site supports oak woodland other than valley oak woodland or riparian	Site supports valley oak woodland
Long-term management commitments (Section 3.4.1, Table 3-4)	Site includes partial or uncertain or short-term commitments to ensure long-term sustainability of target biological value[3]	Site includes commitments to ensure long-term sustainability of target biological values[3]
Restoration potential (Objective L1-4)	Site has modest potential for restoration in terms of area and ability to support one or more focal or conservation species	Site has large potential for restoration in terms of area and ability to support one or more focal or conservation species

Criteria (Section)	Lower Priority	Higher Priority
Threats to site (section 3.2.4.2)	Site has low to moderate threats of land use conversion or other degradation	Site has high or imminent threat of land use conversion or other degradation

Notes:

[1] These criteria could be used as a scoring system to rank and compare alternative conservation sites. For example, one point could be awarded for each "lower priority" and two or three points for each "higher priority." No weightings are provided for these criteria but one could apply weightings to any scoring.

[2] Incompatible land uses are any land uses that are likely to adversely affect the target resources on site or may interfere with successful management on-site.

[3] Examples include a permanent conservation easement, endowment to ensure long-term management, or water rights to ensure sufficient water to maintain suitable habitat for focal or conservation species.