

1 3.3.4 Natural Community Goals and Objectives

2 *Tidal Perennial Aquatic*

3 **Goal TANC1:** Restore or create tidal perennial aquatic communities that support
4 habitats for covered and other native species and to support aquatic food web processes.

5 **Problem Statement:** The historical functions of tidal perennial aquatic communities of
6 the Delta have been substantially reduced from historical conditions. Increasing the
7 extent of functioning shallow subtidal aquatic habitat area will increase the availability of
8 high value habitat for various life stages of dependent native fishes and other aquatic
9 organisms and production of food for these species.

10 **Covered Species Benefiting:** Giant garter snake, western pond turtle, delta Smelt,
11 longfin smelt, Sacramento splittail, all runs of Chinook salmon, steelhead, green and
12 white sturgeon, delta button celery, delta tule pea, Mason's lilaeopsis, and delta mudwort.

13 **Objective TANC1.1:** Increase subtidal aquatic habitat area within the Planning
14 Area and Suisun Marsh in conjunction with restoration of BDCP restored
15 brackish and freshwater marshes.

16 **Goal TANC2:** Maintain and improve the natural ecological processes that sustain tidal
17 perennial aquatic communities.

18 **Problem Statement:** Current ecological functions of tidal perennial aquatic
19 communities that support the production, distribution, and abundance of dependent
20 covered and other native species have been impaired from historical conditions.
21 Improving hydrodynamic conditions, improving environmental water quality, and
22 reducing the adverse ecological effects of invasive non-native species will improve
23 transport processes and habitat conditions that support movement of all life stages of
24 native aquatic fishes and other aquatic organisms, improve hydrodynamic processes that
25 support tidal marsh and mudflat habitats, and improve food web processes and
26 production.

27 **Covered Species Benefiting:** Delta Smelt, longfin smelt, Sacramento splittail, all runs
28 of Chinook, steelhead, green and white sturgeon, delta button celery, delta tule pea,
29 Mason's lilaeopsis, and delta mudwort. Achieving this goal will also address certain
30 elements of critical habitat requirements for spring-run and winter-run Chinook salmon
31 and Central Valley steelhead (i.e., estuarine rearing and migration area), and delta smelt
32 (i.e., spawning habitat, larval and juvenile transport, rearing habitat, and adult migration)
33 in the area of the BDCP.

34 **Objective TANC2.1:** Improve hydrodynamic conditions that support covered
35 fish and other native species. [*Note to Reviewers: This objective will be achieved*
36 *through implementation of the same conservation measures that achieve*
37 *hydrodynamic-related ecosystem-level objectives.*]

1 **Objective TANC2.2:** Maintain or improve water quality conditions that support
2 aquatic food web processes and covered aquatic and other native species. [*Note*
3 *to Reviewers: This objective will be achieved through implementation of the*
4 *same conservation measures that achieve ecosystem-level water quality*
5 *objectives.*]

6 **Objective TANC2.3:** Improve flows throughout the Delta that mimic the annual
7 and interannual variability present in the natural hydrograph to maintain or
8 increase life history diversity of native aquatic species and to improve the
9 dispersal and establishment of native plant species. [*Note to Reviewers: This*
10 *objective will be achieved through implementation of the same conservation*
11 *measures that achieve hydrodynamic-related ecosystem-level objectives.*]

12 **Objective TANC2.4:** Improve the east to west freshwater flow patterns in the
13 Delta to better mimic the historical east-west flow patterns that had characterized
14 the Delta and under which native aquatic species have adapted and evolved.
15 [*Note to Reviewers: This objective will be achieved through implementation of*
16 *the same conservation measures that achieve hydrodynamic-related ecosystem-*
17 *level objectives.*]

18 **Objective TANC2.5:** Manage the distribution and abundance of established non-
19 native invasive species to reduce predation on and competition with native aquatic
20 species and to rehabilitate aquatic food web processes. [*Note to Reviewers: This*
21 *objective will be achieved through implementation of the same conservation*
22 *measures that achieve non-native species ecosystem-level objectives.*]

23 *Tidal Mudflat*

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25 **Goal MFNC1:** Restore tidal mudflats to provide foraging habitat for wading birds and
26 shorebirds, and to provide substrates suitable for the natural establishment of covered tidal
27 plant species.

28 **Problem Statement:** [*To come*]

29 **Covered Species Benefiting:** [*To come*]

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31 **Objective MFNC1.1:** Restore tidal mudflats as a component of BDCP restored
32 brackish and freshwater tidal marshes.

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34 **Goal MFNC2:** Provide the natural ecological processes that sustain tidal mudflat
35 communities.

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37 **Problem Statement:** [*To come*]

38 **Covered Species Benefiting:** [*To come*]

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Objective MFNC2.1: Maintain or improve the geomorphic processes that sustain tidal mudflat communities in the Planning Area and Suisun Marsh.

Objective MFNC2.2: Control the establishment of non-native vegetation on restored mudflats to support habitat and food production for associated covered and other native species.

Tidal Brackish Emergent Wetland

Goal BMNC1: Restore or create tidal brackish emergent wetlands that support habitats for covered and other native species and to support aquatic food web processes.

Problem Statement: *[To come]*

Covered Species Benefiting: *[To come]*

Objective BMNC1.1: Restore or create tidal brackish marshes in Suisun Marsh.

Goal BMNC2: Maintain and improve natural ecological processes to maintain and enhance native biodiversity, habitat heterogeneity, and the extent of restored tidal brackish emergent wetland communities within the range of natural variability.

Problem Statement: *[To come]*

Covered Species Benefiting: *[To come]*

Objective BMNC2.1: Maintain and improve disturbance regimes and other processes that support functioning tidal brackish emergent wetland communities.

Objective BMNC2.2: Maintain and improve tidal connectivity of restored brackish marshes with Suisun Bay.

Objective BMNC2.3: Control undesirable exotic plants that establish in restored tidal brackish marshes.

Objective BMNC2.4: Control non-native predators (e.g., feral cats, red foxes, rats) in restored tidal brackish marshes.

Tidal Freshwater Emergent Wetland

Goal FMNC1: Restore or create tidal freshwater emergent wetlands that support habitats for covered and other native species and to support aquatic food web processes.

1 **Problem Statement:** [*To come*]

2 **Covered Species Benefiting:** [*To come*]

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4 **Objective FMNC1.1:** Restore or create tidal freshwater marshes in the Cache
5 Slough Complex Restoration Opportunity Area.

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7 **Objective FMNC1.2:** Restore or create tidal freshwater marshes in the
8 Cosumnes/Mokelumne Restoration Opportunity Area.

9

10 **Objective FMNC1.3:** Restore or create tidal freshwater marshes in the East
11 Delta Restoration Opportunity Area.

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13 **Objective FMNC1.4:** Restore or create tidal freshwater marshes in the South
14 Delta Restoration Opportunity Area.

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16 **Objective FMNC1.5:** Restore or create tidal freshwater marshes in the West
17 Delta Restoration Opportunity Area.

18

19 **Goal FMNC2:** Maintain and improve natural ecological processes to maintain and
20 enhance native biodiversity, habitat heterogeneity, and the extent of restored tidal
21 freshwater emergent wetland communities within the range of natural variability.

22 **Problem Statement:** [*To come*]

23 **Covered Species Benefiting:** [*To come*]

24

25 **Objective FMNC2.1:** Maintain and improve disturbance regimes and other
26 processes that support functioning tidal freshwater emergent wetland
27 communities.

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29 **Objective FMNC2.2:** Maintain and improve tidal connectivity of restored
30 freshwater marshes with Delta channels.

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32 **Objective FMNC2.3:** Control undesirable exotic plants that establish in restored
33 tidal freshwater marshes.

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35 **Objective FMNC2.4:** Control non-native predators (e.g., feral cats, red foxes,
36 and rats) in restored tidal freshwater marshes.

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39 *Valley/Foothill Riparian*

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41 **Goal VRNC1:** Protect riparian forest and scrub that supports or could support covered
42 and other native species.

1 **Problem Statement:** *[To come]*

2 **Covered Species Benefiting:** *[To come]*

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4 **Objective VRNC1.1:** Protect █ acres of contiguous stands of riparian forest and
5 scrub in the north Delta between Delta Meadows and Cosumnes Preserve.

6 **Objective VRNC1.2:** Protect █ acres of riparian forest occupied by riparian
7 brush rabbit and riparian woodrat and that are near existing occupied habitats that
8 could become occupied in the future.

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10 **Objective VRNC1.3:** Protect █ acres of degraded or fragmented riparian forest
11 and scrub that could be enhanced to substantially increase habitat value for
12 associated covered and other native species.

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14 **Goal VRNC2:** Restore or create riparian forest and scrub in locations with supporting
15 hydrology to improve connectivity among riparian areas, improve native biodiversity,
16 and provide habitat for covered and other native species.

17 **Problem Statement:** *[To come]*

18 **Covered Species Benefiting:** *[To come]*

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20 **Objective VRNC2.1:** Restore or create █ acres of riparian forest and scrub in
21 large patches in locations with elevations above mean sea level and that improve
22 connectivity among high value habitat areas.

23

24 **Objective VRNC2.2:** Restore or create █ acres of riparian forest and scrub
25 adjacent or near historical populations of riparian brush rabbit and riparian
26 woodrat to promote movement corridors and support future population expansion.

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28 **Goal VRNC3:** Enhance protected riparian forest and scrub to improve native
29 biodiversity, habitat heterogeneity and connectivity, and increase the ability of these
30 communities to support populations of covered and other native species.

31 **Problem Statement:** *[To come]*

32 **Covered Species Benefiting:** *[To come]*

33

34 **Objective VRNC3.1:** Improve the density, width, canopy, and connectivity of
35 native riparian vegetation in degraded patches of riparian forest and scrub to
36 improve their value as habitat for covered and other native species.

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38 **Objective VRNC3.2:** Control undesirable exotic plants that have established or
39 may become established in protected riparian forest and scrub habitats.

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1 **Objective VRNC 3.3:** Maintain successional diversity in patches of protected
2 riparian forest and scrub necessary to support habitat for covered and other native
3 species over time.

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5 **Goal VRNC4:** Improve the natural ecological processes that sustain riparian
6 communities.

7 **Problem Statement:** *[To come]*

8 **Covered Species Benefiting:** *[To come]*

9

10 **Objective VRNC4.1:** Improve flows throughout the Delta that mimic the annual
11 and interannual variability present in the natural hydrograph. *[Note to*
12 *Reviewers: This objective will be achieved through implementation of the same*
13 *conservation measures that achieve Objective ECSY1.4.]*

14

15 **VRNC4.2:** Increase hydrologic connectivity of Delta waterways with existing
16 and historical floodplains to support habitat and food production of native
17 floodplain-associated species. *[Note to Reviewers: This objective will be*
18 *achieved through implementation of the existing floodplain restoration*
19 *conservation measures.]*

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22 **Non-Tidal Freshwater Emergent Wetland**

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24 **Goal NWNC1:** Protect non-tidal emergent wetland communities that supports or could
25 support covered and other native species.

26 **Problem Statement:** *[To come]*

27 **Covered Species Benefiting:** *[To come]*

28

29 **Objective NWNC1.1:** Protect █ acres of non-tidal freshwater emergent
30 wetlands that support habitat for giant garter snake and other native species in the
31 east Delta.

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33 **Objective NWNC1.2:** Protect █ acres of non-tidal freshwater emergent
34 wetlands that support habitat for giant garter snake and other native species in the
35 vicinity of Stone Lakes.

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37 **Objective NWNC1.3:** Protect █ acres of non-tidal freshwater emergent
38 wetlands that support habitat for giant garter snake and other native covered
39 species in the Yolo Bypass Restoration Opportunity Area.

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1 **Objective NWNC1.4:** Protect █ acres of non-tidal freshwater emergent
2 wetlands that support habitat for giant garter snake and other native covered
3 species in the Cache Slough Complex Restoration Opportunity Area.
4

5 **Goal NWNC2:** Restore or create non-tidal freshwater emergent wetlands in locations
6 with supporting hydrology to improve native biodiversity and provide habitat for covered
7 and other native species.

8 **Problem Statement:** *[To come]*

9 **Covered Species Benefiting:** *[To come]*

10
11 **Objective NWNC2.1:** Restore or create █ acres of non-tidal freshwater
12 emergent wetlands in giant garter snake habitat areas with elevations above mean
13 sea level that function as habitat for giant garter snake and other native species.
14

15 **Objective NWNC2.2:** Restore or create █ acres of acres of non-tidal freshwater
16 emergent wetlands in locations with elevations above mean seal level that
17 improve connectivity among high value habitat areas and that support habitat for
18 covered species, resident and wintering waterfowl, and other native species.
19

20 **Goal NWNC3:** Enhance protected non-tidal freshwater emergent wetlands to improve
21 native biodiversity habitat heterogeneity and connectivity, and increase the ability of
22 these communities to support populations of covered and other native species.

23 **Problem Statement:** *[To come]*

24 **Covered Species Benefiting:** *[To come]*

25
26 **Objective NWNC3.1:** Maintain or improve mosaics of open water and of
27 emergent vegetation in non-tidal freshwater marshes to improve habitat
28 conditions for covered species, resident and wintering waterfowl, and other native
29 species.
30

31 **Objective NWNC3.2:** Maintain or improve the production of invertebrate and
32 plant food items for covered species, resident and wintering waterfowl, and other
33 native species in degraded freshwater marshes.
34

35 **Objective NWNC3.3:** Maintain or improve ecological gradients in freshwater
36 marshes.
37

38 **Objective NWNC3.4:** Control undesirable exotic plants that have established or
39 may become established in protected riparian forest and scrub habitats.
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41 **Objective NWNC3.5:** Control non-native predators (e.g., feral cats, rats) in
42 restored and protected tidal freshwater marshes.

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2 **Goal NWNC4:** Maintain or improve the natural ecological processes to sustain
3 protected non-tidal freshwater emergent wetland communities.

4 **Problem Statement:** *[To come]*

5 **Covered Species Benefiting:** *[To come]*

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7 **Objective NWNC4.1:** Improve hydrologic conditions that support non-tidal
8 freshwater emergent wetlands where the supporting hydrology is impaired.

9

10 **Objective NWNC4.2:** Improve water quality in non-tidal freshwater emergent
11 wetlands with poor water quality conditions.

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13 **Objective NWNC4.3:** Maintain or improve disturbance regimes to provide the
14 extent, structure, and species composition of non-tidal freshwater emergent
15 wetlands that support habitat for covered and other native species.

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18 *Alkali Seasonal Wetland Complex*

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20 *[Note to Reviewers: The alkali seasonal wetland complex community occurs on saline or*
21 *alkaline soil substrates and includes sinks and salt scalds embedded in a matrix of alkali*
22 *scrub or alkali grassland. This community is found in the Byron area, the northeastern*
23 *corner of Alameda County, and other Planning Area locations. Note that where this*
24 *community occurs in vernal pool and playa landscapes, it is incorporated into the vernal*
25 *pool complex natural community.]*

26

27 **Goal AWNC1:** Protect alkali seasonal wetland complexes.

28 **Problem Statement:** *[To come]*

29 **Covered Species Benefiting:** *[To come]*

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31 **Objective AWNC1.1:** Protect percent of intact alkali seasonal wetland
32 complexes.

33

34 **Objective AWNC1.2:** Protect acres of historical or degraded alkali seasonal
35 wetland complexes that could be restored.

36

37 **Goal AWNC2:** Enhance protected alkali seasonal wetland complexes to promote native
38 biodiversity, habitat heterogeneity, and provide habitat for covered and other native
39 species.

40 **Problem Statement:** *[To come]*

1 **Covered Species Benefiting:** [To come]

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Objective AWNC2.1: Improve native alkaline plant seed germination and establishment by reducing the biomass of non-native plants.

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Objective AWNC2.2: Increase burrow availability for California tiger salamander, California red-legged frog, western burrowing owl, western spadefoot toad, and other burrow-dependent species occur.

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Goal AWNC3: Improve the natural ecological processes that sustain protected alkali seasonal wetland complexes.

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Problem Statement: [To come]

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Covered Species Benefiting: [To come]

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Objective AWNC3.1: Maintain or restore seasonal delivery of surface flows or shallow subsurface flows that support the wetland environment and sustain the soil chemistry.

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Objective AWNC3.2: Maintain or restore connectivity among alkali seasonal wetlands and associated uplands.

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Objective AWNC: Maintain or increase soil disturbance and produce micro-topographic variation within alkali seasonal wetlands and associated uplands.

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Objective AWNC: Maintain or restore wildfire and herbivore disturbance regimes that sustain alkali seasonal wetland communities.

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Vernal Pool Complex

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Goal VPNC1: Protect vernal pool complexes representative of different watershed basins, drainage patterns, and soils.

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Problem Statement: [To come]

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Covered Species Benefiting: [To come]

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Objective VPNC1.1: Protect █ percent of intact Montezuma Block clay alluvium vernal pools and playas.

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Objective VPNC1.2: Protect █ percent of intact clay alluvium vernal pools and playas in the area between Putah Creek and Cache Slough in and adjacent to the Yolo Bypass.

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1 **Objective VPNC1.3:** Protect █ percent of intact annual grassland vernal pool
2 complexes in the Stone Lakes area.

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4 **Objective VPNC1.4:** Protect █ percent of intact alkaline sink/meadow vernal
5 pools in the Bryon and Clifton Court Forebay area.

6
7 **Goal VPNC2:** Enhance protected vernal pool complexes to promote native biodiversity,
8 habitat heterogeneity, and provide habitat for covered and other native species.

9 **Problem Statement:** *[To come]*

10 **Covered Species Benefiting:** *[To come]*

11
12 **Objective VPNC2.1:** Improve native vernal pool plant seed germination and
13 plant establishment by reducing the biomass of non-native plants.

14
15 **Objective VPNC2.2:** Increase burrow availability for California tiger
16 salamander, California red-legged frog, western burrowing owl, western
17 spadefoot toad, and other burrow-dependent species.

18
19 **Goal VPNC3:** Improve natural ecological processes that sustain protected vernal pool
20 complexes.

21 **Problem Statement:** *[To come]*

22 **Covered Species Benefiting:** *[To come]*

23
24 **Objective VPNC3.1:** Maintain or restore hydrologic connectivity between pools
25 and swales in vernal pool complexes.

26
27 **Objective VPNC3.2:** Maintain or restore spatial linkages between vernal pool
28 complexes.

29
30 **Objective VPNC3.3:** Maintain or increase pollination services by solitary bees
31 and other native pollinators.

32 **Objective VPNC3.4:** Maintain or increase soil disturbance and produce
33 microtopographic variation within vernal pool and playa basins and associated
34 uplands.

35
36 *Managed Seasonal Wetland*

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38 *Note: Managed seasonal wetlands support a variety of species but they are largely*
39 *managed to provide habitat for waterfowl and shorebirds. These species also use Tidal*
40 *Freshwater Emergent Wetland, Tidal Brackish Emergent Wetland, Mudflats, and Flood*
41 *Plains that will likely increase due to restoration in the Planning Area. The goals and*

1 objectives that follow should be considered in conjunction with the tidal wetlands and
2 floodplain goals and objectives to fully address the needs of wetland-dependent species.

3

4 In order to set Goals and Objectives for Managed Seasonal Wetlands, habitat values
5 should be determined for Managed Seasonal Wetlands relative to tidal wetlands and
6 floodplain enhancement which could potentially replace or augment managed wetlands
7 in certain areas. These relative values could then be combined with acreage of each
8 habitat before and after various restoration strategies to estimate change in overall
9 habitat value.

10

11 **Goal MWNC1:** Support and enhance existing managed seasonal wetland habitat
12 functions in combination with restoration of tidal marsh and mudflat habitats, floodplain
13 enhancement, and management of preserved natural and agricultural lands to provide
14 habitat for associated covered species and other native wildlife.

15 **Problem Statement:** [To come]

16 **Covered Species Benefiting:** [To come]

17

18 **Objective MWNC1.1:** Maintain and enhance existing managed wetland
19 functions in a mosaic of managed wetland, tidal marsh, mudflat, shallow subtidal
20 aquatic, enhanced floodplain, and other habitats that support managed wetland-
21 associated wildlife.

22

23 **Objective MWNC1.1:** Maintain baseline population levels of waterfowl.

24

25 **Objective MWNC1.2:** Increase the availability of high quality food for
26 waterfowl.

27

28 **Objective MWNC1.3:** Create shallow water open habitat (less than six inches)
29 and mudflats for use by foraging shorebirds.

30

31 *Grassland*

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33 **Goal GRNC1:** Protect large patches of interconnected annual grasslands that represent a
34 range of environmental gradients and are adjacent to other conserved or restored lands.

35 **Problem Statement:** [To come]

36 **Covered Species Benefiting:** [To come]

37

38 **Objective GRNC1.1:** Protect a total of ■ acres of grassland to maintain habitat
39 for covered and other native species.

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1 **Objective GRNC1.2:** Protect █ acres grassland to the west of Clifton Court
2 Forebay to maintain connectivity of San Joaquin kit fox habitat in the Planning
3 Area with adjacent habitat areas.

4
5 **Objective GRNC1.3:** Protect █ acres of grassland on the periphery of Suisun
6 Marsh to maintain habitat for covered and other native species and maintain
7 transitional habitat gradients from restored tidal habitats to uplands.

8
9 **Objective GRNC1.4:** Protect █ acres of grassland in the Cache Slough
10 Restoration Opportunity Area to maintain habitat for covered and other native
11 species and to maintain transitional habitat gradients from restored tidal habitats
12 to uplands.

13
14 **Objective GRNC1.5:** Protect █ acres of grasslands in the North Stone Lakes
15 area to create large interconnected patches of protected natural habitat area in
16 conjunction with habitats protected on the Stone Lakes National Wildlife Area.

17
18 **Goal GRNC2:** Restore native grassland to improve connectivity, native biodiversity, and
19 provide habitat for covered and other native species.

20 **Problem Statement:** *[To come]*

21 **Covered Species Benefiting:** *[To come]*

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23 **Objective GRNC2.1:** Restore █ acres of grassland to increase available habitat
24 and increase connectivity between existing grasslands.

25
26 **Objective GRNC2.2:** Restore █ acres of alkali grassland to provide habitat for
27 covered and other native plant species.

28
29 **Goal GRNC3:** Enhance protected grassland to improve native biodiversity, habitat
30 heterogeneity, and increase the ability of these communities to support populations of
31 covered and other native species. sustain the natural ecological processes that maintain
32 the extent and structure of protected grasslands within the natural range of variability.

33 **Problem Statement:** *[To come]*

34 **Covered Species Benefiting:** *[To come]*

35
36 **Objective GRNC3.1:** Maintain and, where appropriate, increase the diversity
37 and relative cover of native grasses and forbs by reducing biomass of non-native
38 plants.

39
40 **Objective GRNC3.2:** Increase the distribution and abundance of fossorial
41 mammals in protected grasslands to increase burrow availability for California

1 tiger salamander, California red-legged frog, western burrowing owl, San Joaquin
2 kit fox, western spadefoot toad, and other burrow-dependent species.

3

4 **Objective GRNC2.3:** Increase prey (e.g., small mammals and insects)
5 abundance for covered and other associated species that forage in grasslands (e.g.,
6 Swainson's hawk, golden eagle, burrowing owl, and San Joaquin kit fox).

7

8 **Objective GRNC2.5:** Where appropriate, restore stands of native grassland plant
9 species to promote connectivity and native biodiversity.

10

11 **Goal GRNC3:** Improve the natural ecological processes that sustain grassland
12 communities.

13 **Problem Statement:** *[To come]*

14 **Covered Species Benefiting:** *[To come]*

15

16 **Objective GRNC2.4:** Maintain and improve disturbance regimes and other
17 processes that support grassland extent, structure, and composition.

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20 *Inland Dune Scrub*

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22 **Goal IDNC1:** Protect inland dune scrub within the Planning Area to conserve native
23 species endemic to this community.

24 **Problem Statement:** *[To come]*

25 **Covered Species Benefiting:** *[To come]*

26

27 **Objective IDNC1.1:** Protect acres of inland dune scrub.

28

29 **Goal IDNC2:** Restore or create inland dune scrub to increase its extent, improve spatial
30 distribution, and improve connectivity among fragmented patches of inland dune scrub.

31 **Problem Statement:** *[To come]*

32 **Covered Species Benefiting:** *[To come]*

33

34 **Objective IDNC2.2:** Restore or create acres of inland dune scrub adjacent to
35 existing patches of inland dune scrub.

36

37 **Goal IDNC3:** Enhance patches of protected inland dune scrub to improve their function
38 as habitat for associated native endemic species.

39 **Problem Statement:** *[To come]*

1 **Covered Species Benefiting:** *[To come]*

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Objective IDNC3.1: Increase the relative cover of native plant species endemic to the inland dune scrub community.

Objective IDNC3.2: Reduce the relative cover of non-native plant species to reduce competition with native plant species.

Goal IDNC4: Improve the natural ecological processes that sustain inland dune scrub communities.

11 **Problem Statement:** *[To come]*

12 **Covered Species Benefiting:** *[To come]*

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23 *Agricultural Lands*

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[Note to Reviewers: The agricultural land category includes several subcategories to distinguish between perennial crops and annually cultivated crops. Of the six subcategories, four are considered important to agriculture-dependent wildlife within a diverse agricultural landscape (i.e., rice, alfalfa, irrigated pasture, and other cultivated crops [which consist of all annually rotated crop types]). The remaining two subcategories, orchards and vineyards, are considered to be low value habitat for native wildlife species, particularly for covered species, and thus no objectives are proposed for maintaining their current extent and distribution.

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Goal ALNC1: Maintain agricultural land cover types and agricultural land use mosaics integrated with protection of other natural communities to provide habitat for covered and other native wildlife species.

36 **Problem Statement:** *[To come]*

37 **Covered Species Benefiting:** *[To come]*

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Objective ALNC1.1: Annually maintain the current extent and spatial distribution of land in rice production in the Yolo Bypass Restoration Opportunity

¹ The geomorphic process of wind-driven transport and deposition of soil forming material.

1 Area. This objective may be partially or fully achieved by maintaining an
2 equivalent extent of natural or managed wetlands that support habitat functions
3 similar to rice lands for associated covered and other native wildlife species.
4

5 **Objective ALNC1.2:** Maintain [] acres of lands in alfalfa production to provide
6 habitat for associated covered and other native wildlife species. This objective
7 may be partially or fully achieved by maintaining an equivalent extent of other
8 land cover types that support habitat functions similar to alfalfa fields for
9 associated covered and other native species.
10

11 **Objective ALNC1.3:** Maintain [] acres as irrigated pasture lands to provide
12 habitat for associated covered and other native wildlife species. This objective
13 may be partially or fully achieved by maintaining an equivalent extent of
14 agricultural or other land cover types that support habitat functions similar to
15 irrigated pasture for associated covered and other native species.
16

17 **Objective ALNC27.4:** Maintain [] acres in production of annually cultivated
18 irrigated crops to provide habitat for associated covered and other native wildlife
19 species. This objective may be partially or fully achieved by maintaining an
20 equivalent extent of agricultural or other land cover types that support habitat
21 functions similar to annually cultivated irrigated cropland for associated covered
22 and other native species.
23

24 **Objective ALNC1.5:** Maintain and protect associated vegetation communities
25 and wildlife habitats that occur within and adjacent to maintained agricultural
26 fields, including isolated valley oak trees, trees and shrubs along field borders and
27 roadsides, remnant groves, riparian corridors, water conveyance channels,
28 grasslands, and wetlands.
29

30 **Goal ALNC2:** Enhance habitat values for covered species on preserved agricultural
31 lands.

32 **Problem Statement:** *[To come]*

33 **Covered Species Benefiting:** *[To come]*
34

35 **Objective ALNC2.1:** Where appropriate, implement wildlife friendly
36 agricultural practices.
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38 **Objective ALNC2.2:** Increase the diversity of wildlife habitats on preserved
39 agricultural lands.
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41 **Objective ALNC 2.3:** Minimize the use of agricultural pesticides and minimize
42 pesticide drift into natural habitats.