METHODS AND MATERIALS
FOR RESERVE DESIGN CRITERIA ◆ REMAP
(*Preliminary Draft – Subject to Change*)

➤ Target Acreages

As described in Section 3.1 of this document, as part of the MSHCP planning process, rough conservation acreage estimates were developed. As part of those rough acreage estimates, a target acreage of 510,000 acres was established for conservation within the 1.26 million-acre MSHCP conservation plan area comprised of approximately 357,000 acres of existing public/quasi-public lands and 153,000 acres of new conservation on private lands. In conjunction with development of rough acreage estimates, target conservation acreages were also established for Area Plans and cities within the MSHCP conservation plan area. For the REMAP Area Plan, the total target conservation acreage was 198,920 to 200,370 acres, comprised of approximately 152,000 acres of existing public/quasi-public lands and 46,920 to 48,370 acres of new conservation on private lands.

➤ Identify Preliminary Planning Species

Several wildlife and plant species were identified to provide guidelines for reserve design. Listed species known from the Plan Area were the highest priority, with reserve design issues species such as Bell's sage sparrow (requires large patches of undisturbed habitat) and bobcat (wildlife corridors) also as high priority. The following species were chosen to provide reserve design guidance:

- qunio checkerspot butterfly (listed invertebrate)
- southwestern arroyo toad (listed amphibian)
- mountain yellow-legged frog (listed amphibian)
- Stephen's kangaroo rat (listed mammal)
- San Bernardino kangaroo rat (listed mammal)
- Los Angeles pocket mouse
- least Bell's vireo (high quality riparian)
- California gnatcatcher
- Bell's sage sparrow (requires large patches of undisturbed habitat)
- cactus wren
- burrowing owl
- Parry's spineflower

- Engelmann oak
- Payson's jewelflower (fire follower)
- long-spined spineflower (sensitive plant tied to clay soils)
- small-flowered morning glory (sensitive plant tied to clay soils)
- Palmer's grappling hook (sensitive plant tied to clay soils)

➤ Identify Key Biological Issues/Areas

Since the MSHCP planning process began in spring of 1999, information regarding biological resources and land planning issues has become available through the species and habitat assessment workshops, the MSHCP sensitive species database, and meetings with the wildlife agencies. The following resource issues, in no particular order of priority, were identified for the REMAP Area Plan:

1. Conservation of existing wetlands and wetlands functions and values in the REMAP Area Plan portion of the upper San Jacinto River, Bautista Creek, Tule Creek, Temecula Creek, Cottonwood Creek, Wilson Creek, Cahuilla Creek, Tucalota Creek and Willow Canyon Creek with a focus on conserving existing habitats in the river and creeks.

2. Conserve the existing mosaic of upland habitat east of Vail Lake, southeast of East Benton Road, south of the BLM lands, north of SR-79 and west of Reed Valley Road to support MSHCP focus species in the REMAP Area Plan. Conservation efforts should focus on maintenance of large block(s) of interconnected habitat centered around Wilson Valley, including the Wilson Valley Conservation Bank and the Sage Road/Billy Goat Mountain area, for populations of quino checkerspot butterfly, Stephens' kangaroo rat, Bell's sage sparrow, cactus wren, and California gnatcatcher among others. Conservation should occur in large, interconnected habitat blocks, linking existing reserve areas.

3. Conserve undeveloped uplands including agricultural land, annual grassland and coastal sage scrub that support or provide potential habitat for quino checkerspot butterfly, with a focus on proposed MSHCP conservation areas within the recovery units identified in the *Quino Checkerspot Butterfly Draft Recovery Plan* (USFWS 2001). The areas proposed for conservation that are within the recovery units include the Sage Road/Billygoat Mountain habitat complex located in the South Riverside

Recovery Unit and the Silverado habitat complex located in the South Riverside/ North San Diego Recovery Unit.

4. Conserve open grasslands and sparse shrublands that support populations of Stephens' kangaroo rat, with a focus on suitable habitat in the Anza Valley, the Cahuilla Valley along Cahuilla Creek, and the Sage and Aguanga areas in the vicinity of SR-79 and SR-371.

5. Conserve stream courses and adjacent coastal sage scrub, grasslands and chaparral supporting southwestern arroyo toad, with a focus on suitable breeding, foraging, and/or aestivating habitats along Temecula Creek, upper San Jacinto River and Bautista Canyon.

6. Conserve existing habitat values of the upper San Jacinto River and Bautista Creek for the benefit of San Bernardino kangaroo rat.

7. Conserve wetlands along Wilson Creek supporting least Bell's vireo, with a focus on maintenance of breeding and foraging habitats in Wilson Creek.

8. Conserve floodplain areas supporting Coulter's goldfields, with a focus on conservation of Traver-Domino-Willows soil series within the San Jacinto Wildlife Area and in Anza Valley.

9. Conserve floodplain areas supporting Mojave tarplant, with a focus on suitable habitat on Forest Service lands.

10. Conserve floodplain areas supporting Parry's spineflower, with a focus on suitable habitat in Aguanga, Anza, Wilson Valley and Forest Service lands.

11. Conserve floodplain areas supporting slender-horned spineflower, with a focus on suitable habitat in the Agua Tibia Wilderness.

12. Conserve banks along seeps, springs and permanent streams capable of supporting lemon lily with a focus on suitable habitat in the San Jacinto Mountains.

13. Conserve clay soils in southern needlegrass grasslands, coastal sage scrub and chaparral

supporting long-spined spineflower and Palmer's grappling hook, known to exist within the REMAP Area Plan.

14. Conservation of Travers-Willow-Domino soil series.

15. Conservation of Engelmann oak woodlands.

16. Conservation of other sensitive plant species: Payson's jewelflower, California beardtongue, Valley needlegrass grassland and foothill needlegrass grassland supporting Jaeger's milk-vetch, Plummer's mariposa lily, a key population of prostrate spineflower, Nevin's barberry, Hall's monardella, cliff cinquefoil, shaggy-haired alumroot, Johnston's rock cress, California muhly, San Jacinto Mountains bedstraw, Munz's mariposa lily, Palomar monkeyflower and chickweed oxytheca

17. Contribute to and maintain a core reserve area in the Anza Valley, including the existing Silverado Ranch Conservation Bank, through conservation of large habitat block(s). Conservation efforts should focus on maintenance of existing intact habitat block(s) and the mosaic of upland habitat in the Anza Valley area, including the existing Silverado Ranch Conservation Bank, for populations of quino checkerspot butterfly, Stephens' kangaroo rat, Los Angeles pocket mouse, burrowing owl as well as other MSHCP sensitive species.

18. Contribute to and maintain the northeast portion of a proposed new core reserve centered around Vail Lake through conservation of large block(s) of existing intact coastal sage scrub habitat within the REMAP Area Plan. Conservation efforts should focus on connecting large block(s) of coastal sage scrub to existing reserve lands outside REMAP to the west and maintaining opportunities for connectivity between existing reserve lands and to the REMAP Wilson Valley core area to the east.

19. Provide for and maintain a continuous linkage along Tule Creek from the confluence of Temecula and Tule Creeks to the proposed Anza Valley core reserve area in the REMAP Area Plan. Conservation efforts shall focus on wetland and substantial upland components that support breeding, foraging, aestivating and/or burrowing habitat for MSHCP sensitive animal species. Maintain habitat and edaphic and hydrologic conditions for sensitive plant species.

20. Provide for and maintain a continuous linkage along Cahuilla Creek from the confluence of Cahuilla Creek and Wilson Creek to the western boundary of the Cahuilla Indian Reservation. It is recognized that this linkage currently is constrained by the Lake Riverside subdivision present in this linkage area.

21. Provide for and maintain regional connections along Temecula and Cottonwood Creeks to northern San Diego County through coordination of conservation planning efforts with the County of San Diego's anticipated amendment to their MSCP Subarea Plan, currently in the planning stages.

22. Provide for and maintain a continuous linkage from the Southwest Riverside County Multi-Species Reserve to proposed core habitat areas in the Wilson Valley along Tucalota Creek. Conservation efforts shall focus on wetland and substantial adjacent upland components that support breeding, foraging, aestivating and/or burrowing habitat for MSHCP animal species. It is recognized that East Benton and Sage Road currently cross over the Tucalota Creek linkage and that agricultural activities occur adjacent to portions of the creek.

23. Provide for and maintain a continuous robust upland linkage, connecting two existing reserves, the Diamond Valley Lake Reserve and the San Bernardino National Forest, through conservation of upland habitat in Cactus Valley. Conservation efforts should focus on connecting and maintaining upland habitat, including coastal sage scrub and chaparral, between the western boundary of the REMAP Area Plan and the western boundary of the National Forest in the vicinity of Red Mountain Road.

24. Provide for and maintain regional connection(s) from the San Bernardino National Forest to eastern Riverside County through coordination of conservation planning efforts with eastern Riverside County.

25. Provide for and maintain regional connection(s) from the Wilson Valley, Agua Tibia Mountains and the BLM Beauty Mountain Planning Area to northern San Diego County through coordination of conservation planning efforts with the County of San Diego's anticipated amendment to their MSCP Subarea Plan, currently in the planning stages.

➤ Identify General Reserve Configuration and Management Issues

The NCCP biological tenets for reserve design and other general design considerations also were incorporated:

1. Representativeness of San Jacinto Mountains and Desert Transition bioregions.

2. Representativeness of other habitats in subarea plan area.

3. Habitat contiguity

4. Large habitat blocks

5. Minimize edge effects

6. Consideration of "directional" influences such as migration/dispersal patterns, rain, wind, fire (Habitat Assessment Workshop)

7. Special microhabitats (Habitat Assessment Workshop)

8. Minimum 1.5 mile dispersal patches for gnatcatchers (Habitat Assessment Workshop)

9. Patch sizes supporting 5-10 pairs of gnatcatchers is important (Habitat Assessment Workshop)Ridgelines and riparian areas for movement of bobcats and mountain lions (Habitat Assessment Workshop)

➤ Map Resources

The following map resources were used in the design of the hardline reserve:

- Vegetation Map (3,000-scale)
- Selected planning species (3000-scale)
- Open Space, Trails and Critical Circulation Study (includes SP areas, roads and parcels)
- CSS Habitat Quality Map (3,000 scale)
- Conceptual conservation scenario (3,000 scale acetate)
- Land use plan (3,000 scale)
- DOQQs
- Parcel Map (3,000 scale acetate)
- Existing reserves, conservation banks, BLM lands, other public lands (3,000 scale acetate)
- Soils Map (Knecht 1971)
- Edge area map
- Conservation Alliance Maps
- Designated critical quino habitat (USFWS 2000)

➤ Methods

Drawing the hardline reserve generally involved the following steps:

1. Compile map/data sources

2. Compile area plan biological issues based on preliminary mapping, criteria analyses, pers. communications with agencies

3. Rough sketch of reserve boundaries based on map data combined with identified key biological issues, without reserves, etc. Refine map based on other constraints and opportunities (still to be completed)
   - existing and planned land uses
   - parcel maps
   - existing conserved habitat
   - minimization of edge habitat

Following drawing of the conceptual hardline reserve, the reserve within the plan area was overlain with USGS quarter sections (i.e., 160-acre cells) and a spreadsheet matrix was created that included an arbitrary quadrat cell identification number, USGS section, USGS quarter section, and township and range such that each cell is an area in real space with a legal description, but without being tied to a specific county assessors legal parcel. Reserve criteria were written for each cell that provide an explicit description for conservation within each quarter section cell that would allow one to generally re-create the hardline reserve. For example, a criterion for a cell might be "conserve coastal sage scrub in north one-half of cell to provide uninterrupted habitat connections to cells to west, north and east." The criteria are written with the intent that the "naive observer" could re-create the reserve system.

➤ Results

As described under Methods, the conceptual hardline reserve assembled for REMAP for analysis purposes was overlain with USGS quarter section cells and cell groupings. A map display was prepared depicting the cells and cell groupings as depicted in *Figure ?*. Criteria were written for each cell or cell grouping to describe the anticipated conservation within each cell or cell grouping based on the conceptual hardline reserve. The criteria statements first describe the geographic configuration of a fraction of percent of a cell grouping anticipated to be conserved. A brief statement of the biological resources toward which conservation efforts in the particular cell or cell grouping should be directed is also provided. The criteria matrix for REMAP is presented in *Table ?*. As noted in the footnote to the criteria matrix presented in *Table ?*, the criteria are based on the existing MSHCP vegetation map. It is understood that biological conditions are dynamic and will change. In cases where the vegetation description does not match existing conditions at the time of reserve assembly, the generalized geographic descriptions for each cell should take precedence to ensure that the overall reserve ultimately assembled conforms with the target acreage and generalized configuration analyzed in the MSHCP.

To further guide long-term reserve assembly and monitoring efforts, REMAP was divided into four subunits. Subunit boundaries are depicted on the cells and cell groupings map display (*Figure ?*). For each subunit, target conservation acreages have been established along with a description of the general conservation objectives for each subunit. The general conservation objectives are based on the planning species and biological issues for the REMAP presented in the Methods section. Target acreages and conservation objectives for the subunits within REMAP are presented below.

Subunit 1: Cactus Valley

Target acreage range for new conservation on private lands within subunit: 6,490 - 6,690

Cell groups within subunit: A, B and C.

Conservation objectives within subunit:

- Key planning species within this subunit include the following:
  - quino checkerspot
  - Bell's sage sparrow
  - coastal cactus wren
  - Los Angeles pocket mouse

- Important biological issues within this subunit include:
  - Conservation of clay soils supporting other sensitive plant species including long-spined spineflower, small-flowered morning glory, and Palmer's grappling hook.
  - Conservation of other sensitive plant species: Payson's jewelflower, California beardtongue, Valley needlegrass grassland and foothill needlegrass grassland supporting Jaeger's milk-vetch, Plummer's mariposa lily, a key population of prostrate spineflower, Nevin's barberry, Hall's monardella, cliff cinquefoil, shaggy-haired alumroot, Johnston's rock cress, California muhly, San Jacinto Mountains bedstraw, Munz's mariposa lily, Palomar monkeyflower and chickweed oxytheca;
  - Conserve the existing mosaic of upland habitat east of Diamond Valley Lake and west of the San Bernardino National Forest to support MSHCP focus species in REMAP. Conservation efforts should focus on maintenance of large block(s) of interconnected habitat for populations of quino checkerspot butterfly, Bell's sage sparrow, cactus wren, and California gnatcatcher among others. Conservation should occur in large, interconnected habitat blocks, linking existing reserve areas;
  - Conserve undeveloped uplands including agricultural land, annual grassland and coastal sage scrub that support or provide potential habitat for quino checkerspot butterfly.

Subunit 2: Wilson Valley and Sage

Target acreage range for new conservation on private lands within subunit:	31,100 - 32,070
Cell groups included within subunit:	D, E, F, G, H, I, K and L
Cells included within subunit:	6721, 6722, 6723, 6724, 6828, 6829, 7223, 7314, 7393, 7394, 7413, 7468, 7469, 7470, 7555 and 7665.

Conservation objectives within subunit:

- Key planning species within this subunit include the following:
  - quino checkerspot
  - least Bell's vireo
  - Bell's sage sparrow
  - coastal cactus wren
  - coastal California gnatcatcher
  - Parry's spineflower
  - Payson's jewelflower

- Important biological issues within this subunit include:
  - conservation of clay soils supporting other sensitive plant species including long-spined spineflower, small-flowered morning glory, and Palmer's grappling hook;
  - conservation of existing wetlands and wetlands functions and values in Wilson Creek, Cahuilla Creek, Tucalota Creek and Willow Canyon Creek;
  - conserve the existing mosaic of upland habitat centered around Wilson Valley, including the Wilson Valley Conservation Bank and the Sage Road/Billy Goat Mountain area, for populations of quino checkerspot butterfly, Stephens' kangaroo rat, Bell's sage sparrow, cactus wren, and California gnatcatcher among others;
  - conserve wetlands along Wilson Creek supporting least Bell's vireo, with a focus on maintenance of breeding and foraging habitats in Wilson Creek;

- conserve floodplain areas supporting Parry's spineflower, with a focus on suitable habitat in Aguanga, Anza, Wilson Valley and Forest Service lands;
- provide for and maintain a continuous linkage along Cahuilla Creek from the confluence of Cahuilla Creek and Wilson Creek to the western boundary of the Cahuilla Indian Reservation;
- conserve open grasslands and sparse shrublands that support populations of Stephens' kangaroo rat, with a focus on suitable habitat in the Cahuilla Valley along Cahuilla Creek, and the Sage and Aguanga areas in the vicinity of SR-79 and SR-371;
- provide for and maintain a continuous linkage from the Southwest Riverside County Multi-Species Reserve to proposed core habitat areas in the Wilson Valley along Tucalota Creek
- conservation of Travers-Willow-Domino soil series;
- conservation of Engelmann oak woodlands.

Subunit 3: Temecula and Cottonwood Creeks

Target acreage range for new conservation on private lands within subunit:	1,850 - 1,910
Cell groups included within subunit:	M and N
Cells included within subunit:	7741, 7738, 7737, 7743, 7805, 7806, 7809, 7813, 7880, 7881, 7885, 7888 and 7891

Conservation objectives within subunit:

- Key planning species within this subunit include the following:
  - quino checkerspot
  - least Bell's vireo
  - Bell's sage sparrow
  - coastal cactus wren
  - coastal California gnatcatcher

- Important biological issues within this subunit include:
  - conservation of clay soils supporting other sensitive plant species including long-spined spineflower, small-flowered morning glory, and Palmer's grappling hook.
  - conservation of existing wetlands and wetlands functions and values Temecula Creek and Cottonwood Creek;
  - provide for and maintain regional connections along Temecula and Cottonwood Creeks to northern San Diego County through coordination of conservation planning efforts with the County of San Diego's anticipated amendment to their MSCP Subarea Plan, currently in the planning stages;
  - conserve stream courses and adjacent coastal sage scrub, grasslands and chaparral supporting southwestern arroyo toad, with a focus on suitable breeding, foraging, and/or aestivating habitats along Temecula Creek;
  - conservation of Travers-Willow-Domino soil series;
  - conservation of Engelmann oak woodlands; and
  - provide for and maintain regional connection(s) from the Wilson Valley, Agua Tibia Mountains and the BLM Beauty Mountain Planning Area to northern San Diego County through coordination of conservation planning efforts with the County of San Diego''s anticipated amendment to their MSCP Subarea Plan, currently in the planning stages.

Subunit 4: Tule Creek and Anza Valley

Target acreage range for new conservation on private lands within subunit:	7,260 - 7,480
Cell groups included within subunit:	O, P, Q, R, S, T, U, V, W, and X
Cells included within subunit:	7481, 7583, 7503, 7509, 7603, 7605, 7663, 7507, 7521, 7522, 7527, 7585, 7599, 7600, 7602, and 7675.

Conservation objectives within subunit:

- Key planning species within this subunit include the following:
  - quino checkerspot
  - least Bell's vireo
  - Bell's sage sparrow
  - coastal cactus wren
  - coastal California gnatcatcher
  - Stephens' kangaroo rat

- Important biological issues within this subunit include:
  - conservation of clay soils supporting other sensitive plant species including long-spined spineflower, small-flowered morning glory, and Palmer's grappling hook;
  - conservation of existing wetlands and wetlands functions and values in Tule Creek;
  - conserve floodplain areas supporting Parry's spineflower, with a focus on suitable habitat in Anza;
  - conserve open grasslands and sparse shrublands that support populations of Stephens' kangaroo rat, with a focus on suitable habitat in the Anza Valley;
  - conservation of Travers-Willow-Domino soil series;
  - conservation of Engelmann oak woodlands.
  - conserve the existing mosaic of upland habitat for populations of quino checkerspot butterfly, Bell's sage sparrow, cactus wren, and California gnatcatcher among others. Conservation should occur in large, interconnected habitat blocks, linking existing reserve areas;
  - conserve undeveloped uplands including agricultural land, annual grassland and coastal sage scrub that support or provide potential habitat for quino checkerspot butterfly.
  - provide for and maintain regional connection(s) from the Wilson Valley, Agua Tibia Mountains and the BLM Beauty Mountain Planning Area to northern San Diego County through coordination of conservation planning efforts with the County of San Diego's anticipated amendment to their MSCP Subarea Plan, currently in the planning stages.

In addition to the cell groups and cells included within the Cactus Valley, Wilson Valley and Sage, Temecula and Cottonwood Creeks, and Tule Creek and Anza Valley Subunits, there are several cells and a cell group in the northwest portion of REMAP not identified within a subunit due to the small number of acres proposed for conservation. The cells and cell group are associated with the upper San Jacinto River and Bautista Creek and the planning species and biological issues are similar to the Upper San Jacinto River and Bautista Creek Subunit within the San Jacinto Valley Area Plan located immediately to the west. Conservation efforts in these cells and cell group should be coordinated with efforts for the Upper San Jacinto River and Bautista Creek Subunit.

Target acreage range for new conservation on private lands associated with the REMAP portion of the upper San Jacinto and Bautista Creek:	220 - 230
Cell group included in the REMAP portion of the upper San Jacinto and Bautista Creek:	Y
Cells included in the REMAP portion of the upper San Jacinto and Bautista Creek:	2469, 4627 and 4626

Conservation objectives within the REMAP portion of the upper San Jacinto and Bautista Creek:

- Key planning species within this subunit include the following:
  - quino checkerspot
  - southwestern arroyo toad (listed amphibian)
  - mountain yellow-legged frog (listed amphibian)
  - San Bernardino kangaroo rat (listed mammal)
  - burrowing owl

- Important biological issues within the REMAP portion of the upper San Jacinto and Bautista Creek:
  - conserve stream courses and adjacent coastal sage scrub, grasslands and chaparral supporting southwestern arroyo toad, with a focus on suitable breeding, foraging, and/or aestivating habitats along upper San Jacinto River and Bautista Canyon;

- conserve existing habitat values of the upper San Jacinto River and Bautista Creek for the benefit of San Bernardino kangaroo rat;
- conservation of existing wetlands and wetlands functions and values in the REMAP portion of the upper San Jacinto River and Bautista Creek, with a focus on conserving existing habitats in the river and creeks;
- conservation of Travers-Willow-Domino soil series; and
- conservation of Engelmann oak woodlands.

REMAP RESERVE DESIGN CRITERIA

(*Preliminary Draft – Subject to Change*)

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
Subunit 1: Cactus Valley					
A	5083	T6S-R1W	23	NE	Conserve north two-thirds of cell. Focus conservation on chaparral, grasslands, woodlands and forests in order to provide connection between reserve areas south of Eastside Reservoir and the San Jacinto National Forest.
	5085	T6S-R1W	23	NW	
	5180	T6S-R1W	23	SE	
	5185	T6S-R1W	23	SW	
	5276	T6S-R1W	26	NE	
	5283	T6S-R1W	26	NW	
B	5084	T6S-R1W	24	NW	Conserve north two-thirds of cell. Focus conservation on chaparral, grasslands, woodlands, forests, Riversidean alluvial fan sage scrub, riparian scrub/woodlands/forests and coastal sage scrub in order to provide connection between reserve areas south of Eastside Reservoir and the San Jacinto National Forest.
	5094	T6S-R1W	24	NE	
	5181	T6S-R1W	24	SW	
	5194	T6S-R1W	24	SE	
	5277	T6S-R1W	25	NW	
	5290	T6S-R1W	25	NE	
C	4485	T6S-R1E	04	NE	Conserve 80% of the northern portion of cell. Focus conservation on coastal sage scrub, chaparral, grasslands, woodlands and forests in order to provide habitat connectivity between reserve areas south of Eastside Reservoir and the San Jacinto National Forest.
	4486	T6S-R1E	03	NW	
	4488	T6S-R1E	03	NE	
	4500	T6S-R1E	04	NW	
	4546	T6S-R1E	04	SW	
	4560	T6S-R1E	04	SE	
	4620	T6S-R1E	03	SW	
	4622	T6S-R1E	03	SE	
	4638	T6S-R1E	09	NW	
	4640	T6S-R1E	09	NE	
	4734	T6S-R1E	09	SW	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	4736	T6S-R1E	09	SE	
	4825	T6S-R1E	18	NW	
	4826	T6S-R1E	18	NE	
	4827	T6S-R1E	17	NW	
	4828	T6S-R1E	17	NE	
	4830	T6S-R1E	16	NW	
	4832	T6S-R1E	16	NE	
	4912	T6S-R1E	15	NW	
	4913	T6S-R1E	15	NE	
	4922	T6S-R1E	18	SW	
	4924	T6S-R1E	18	SE	
	4925	T6S-R1E	17	SW	
	4927	T6S-R1E	17	SE	
	4929	T6S-R1E	16	SW	
	4930	T6S-R1E	16	SE	
	5010	T6S-R1E	15	SW	
	5011	T6S-R1E	15	SE	
	5022	T6S-R1E	19	NW	
	5023	T6S-R1E	19	NE	
	5025	T6S-R1E	20	NW	
	5027	T6S-R1E	20	NE	
	5028	T6S-R1E	21	NE	
	5029	T6S-R1E	21	NW	
	5108	T6S-R1E	22	NE	
	5111	T6S-R1E	22	NW	
	5119	T6S-R1E	19	SW	
	5121	T6S-R1E	19	SE	
	5122	T6S-R1E	20	SW	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	5125	T6S-R1E	20	SE	
	5127	T6S-R1E	21	SW	
	5128	T6S-R1E	21	SE	
	5164	T6S-R1E	22	SE	
	5166	T6S-R1E	22	SW	
	5219	T6S-R1E	30	NE	
	5220	T6S-R1E	29	NW	
	5221	T6S-R1E	30	NW	
	5223	T6S-R1E	29	NE	
	5225	T6S-R1E	28	NW	
	5227	T6S-R1E	28	NE	
	5228	T6S-R1E	27	NW	
	5229	T6S-R1E	27	NE	
Subunit 2: Wilson Valley and Sage					
D	5383	T6S-R1W	26	SE	Conserve south one-half of cells less the southwest 1/34 and south 1/17 of cell grouping. Focus conservation on coastal sage scrub, chaparral, grasslands, woodlands and forests. Provide habitat connection along Tucalota Creek from Southwest Riverside County Multi-Species Reserve to core habitat areas in Sage and Wilson Valley.
	5388	T6S-R1W	26	SW	
	5490	T6S-R1W	35	NE	
	5496	T6S-R1W	35	NW	
	5597	T6S-R1W	35	SE	
	5600	T6S-R1W	35	SW	
	5695	T7S-R1W	02	NW	
	5698	T7S-R1W	02	NE	
	5747	T7S-R1W	02	SW	
	5748	T7S-R1W	02	SE	
	5844	T7S-R1W	11	NW	
	5845	T7S-R1W	11	NE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	5948	T7S-R1W	11	SW	
	5950	T7S-R1W	11	SE	
	6053	T7S-R1W	14	NW	
	6055	T7S-R1W	14	NE	
	6162	T7S-R1W	14	SE	
E	5324	T6S-R1E	30	SW	Conserve south 33% of cell grouping less 7% of cell grouping along southern boundary. Focus conservation on large intact habitat blocks consisting of coastal sage scrub, chaparral, grasslands, woodlands, and forests to provide connectivity along Tucalota Creek from Southwest Riverside County Multi-Species Reserve to core habitat areas in Sage and Wilson Valley.
	5384	T6S-R1W	25	SW	
	5385	T6S-R1W	25	SE	
	5426	T6S-R1E	31	NW	
	5491	T6S-R1W	36	NW	
	5506	T6S-R1W	36	NE	
	5528	T6S-R1E	31	SW	
	5598	T6S-R1W	36	SW	
	5602	T6S-R1W	36	SE	
	5632	T7S-R1E	06	NW	
	5697	T7S-R1W	01	NE	
	5699	T7S-R1W	01	NW	
	5731	T7S-R1E	06	SW	
	5749	T7S-R1W	01	SW	
	5750	T7S-R1W	01	SE	
	5846	T7S-R1W	12	NW	
	5847	T7S-R1W	12	NE	
	5848	T7S-R1E	07	NW	
	5951	T7S-R1W	12	SW	
	5952	T7S-R1W	12	SE	
	5953	T7S-R1E	07	SW	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	6056	T7S-R1W	13	NW	
	6057	T7S-R1W	13	NE	
	6060	T7S-R1E	18	NW	
	6162	T7S-R1W	14	SE	
	6163	T7S-R1W	13	SW	
	6164	T7S-R1W	13	SE	
	6167	T7S-R1E	18	SW	
F	5322	T6S-R1E	30	SE	Conserve southern 80% of cell grouping. Focus conservation on large intact blocks of habitat consisting of a mosaic of coastal sage scrub, chaparral, grasslands, woodlands, forests, Riversidean alluvial fan sage scrub, desert scrub, and riparian scrub/woodland/forests intermixed with agricultural lands. Maintain northeast portion of core habitat centered around Vail Lake.
	5323	T6S-R1E	29	SW	
	5326	T6S-R1E	29	SE	
	5327	T6S-R1E	28	SW	
	5329	T6S-R1E	28	SE	
	5330	T6S-R1E	27	SW	
	5333	T6S-R1E	27	SE	
	5424	T6S-R1E	31	NE	
	5425	T6S-R1E	32	NW	
	5429	T6S-R1E	32	NE	
	5433	T6S-R1E	33	NW	
	5435	T6S-R1E	33	NE	
	5436	T6S-R1E	34	NW	
	5440	T6S-R1E	34	NE	
	5529	T6S-R1E	31	SE	
	5530	T6S-R1E	32	SW	
	5534	T6S-R1E	32	SE	
	5537	T6S-R1E	33	SW	
	5538	T6S-R1E	33	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	5540	T6S-R1E	34	SW	
	5548	T6S-R1E	34	SE	
	5634	T7S-R1E	06	NE	
	5639	T7S-R1E	05	NW	
	5640	T7S-R1E	05	NE	
	5642	T7S-R1E	04	NW	
	5643	T7S-R1E	04	NE	
	5645	T7S-R1E	03	NW	
	5670	T7S-R1E	03	NE	
	5732	T7S-R1E	06	SE	
	5733	T7S-R1E	05	SW	
	5734	T7S-R1E	05	SE	
	5735	T7S-R1E	04	SW	
	5736	T7S-R1E	04	SE	
	5737	T7S-R1E	03	SW	
	5785	T7S-R1E	03	SE	
	5849	T7S-R1E	07	NE	
	5850	T7S-R1E	08	NW	
	5851	T7S-R1E	08	NE	
	5852	T7S-R1E	09	NW	
	5853	T7S-R1E	09	NE	
	5854	T7S-R1E	10	NW	
	5885	T7S-R1E	10	NE	
	5954	T7S-R1E	07	SE	
	5955	T7S-R1E	08	SW	
	5956	T7S-R1E	08	SE	
	5957	T7S-R1E	09	SW	
	5958	T7S-R1E	09	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	5959	T7S-R1E	10	SW	
	5986	T7S-R1E	10	SE	
	6058	T7S-R1E	18	NE	
	6059	T7S-R1E	17	NW	
	6061	T7S-R1E	17	NE	
	6062	T7S-R1E	16	NW	
	6063	T7S-R1E	16	NE	
	6064	T7S-R1E	15	NW	
	6089	T7S-R1E	15	NE	
	6165	T7S-R1E	18	SE	
	6166	T7S-R1E	17	SW	
	6168	T7S-R1E	17	SE	
	6169	T7S-R1E	16	SW	
	6170	T7S-R1E	16	SE	
	6171	T7S-R1E	15	SW	
	6181	T7S-R1E	15	SE	
	6273	T7S-R1E	19	NE	
	6274	T7S-R1E	20	NW	
	6275	T7S-R1E	20	NE	
	6276	T7S-R1E	21	NW	
	6277	T7S-R1E	21	NE	
	6278	T7S-R1E	22	NW	
	6286	T7S-R1E	22	NE	
	6380	T7S-R1E	19	SE	
	6381	T7S-R1E	20	SW	
	6382	T7S-R1E	20	SE	
	6383	T7S-R1E	21	SW	
	6384	T7S-R1E	21	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	6385	T7S-R1E	22	SW	
	6394	T7S-R1E	22	SE	
	6488	T7S-R1E	30	NW	
	6489	T7S-R1E	30	NE	
	6490	T7S-R1E	29	NW	
	6491	T7S-R1E	29	NE	
	6492	T7S-R1E	28	NW	
	6493	T7S-R1E	28	NE	
	6495	T7S-R1E	27	NW	
	6504	T7S-R1E	27	NE	
	6596	T7S-R1E	30	SW	
	6597	T7S-R1E	30	SE	
	6598	T7S-R1E	29	SW	
	6599	T7S-R1E	29	SE	
	6600	T7S-R1E	28	SW	
	6601	T7S-R1E	28	SE	
	6602	T7S-R1E	27	SW	
	6608	T7S-R1E	27	SE	
	6699	T7S-R1W	35	NW	
	6701	T7S-R1W	35	NE	
	6702	T7S-R1W	36	NW	
	6703	T7S-R1W	36	NE	
	6704	T7S-R1E	31	NW	
	6705	T7S-R1E	31	NE	
	6706	T7S-R1E	32	NW	
	6707	T7S-R1E	32	NE	
	6708	T7S-R1E	33	NW	
	6711	T7S-R1E	33	NE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	6713	T7S-R1E	34	NW	
	6716	T7S-R1E	34	NE	
	6800	T7S-R1W	35	SW	
	6802	T7S-R1W	35	SE	
	6804	T7S-R1W	36	SW	
	6810	T7S-R1W	36	SE	
	6811	T7S-R1E	31	SW	
	6812	T7S-R1E	31	SE	
	6813	T7S-R1E	32	SW	
	6814	T7S-R1E	32	SE	
	6815	T7S-R1E	33	SW	
	6818	T7S-R1E	33	SE	
	6821	T7S-R1E	34	SW	
	6823	T7S-R1E	34	SE	
	6905	T8S-R1E	06	NW	
	6908	T8S-R1E	06	NE	
	6912	T8S-R1E	05	NW	
	6916	T8S-R1E	05	NE	
	6922	T8S-R1E	04	NW	
	6927	T8S-R1E	04	NE	
	6931	T8S-R1E	03	NW	
	6936	T8S-R1E	03	NE	
	6976	T8S-R1E	06	SW	
	6980	T8S-R1E	06	SE	
	6990	T8S-R1E	05	SW	
	6994	T8S-R1E	05	SE	
	6997	T8S-R1E	04	SW	
	6998	T8S-R1E	04	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7002	T8S-R1E	03	SW	
	7004	T8S-R1E	03	SE	
	7094	T8S-R1E	07	NW	
	7095	T8S-R1E	07	NE	
	7096	T8S-R1E	08	NW	
	7098	T8S-R1E	08	NE	
	7100	T8S-R1E	09	NW	
	7103	T8S-R1E	09	NE	
	7106	T8S-R1E	10	NW	
	7112	T8S-R1E	10	NE	
	7187	T8S-R1E	07	SW	
	7189	T8S-R1E	07	SE	
	7192	T8S-R1E	08	SW	
	7197	T8S-R1E	08	SE	
	7200	T8S-R1E	09	SW	
	7206	T8S-R1E	09	SE	
	7209	T8S-R1E	10	SW	
	7218	T8S-R1E	10	SE	
	7291	T8S-R1E	18	NW	
	7292	T8S-R1E	18	NE	
	7293	T8S-R1E	17	NW	
	7294	T8S-R1E	17	NE	
	7295	T8S-R1E	16	NW	
	7296	T8S-R1E	16	NE	
	7297	T8S-R1E	15	NW	
	7307	T8S-R1E	15	NE	
	7381	T8S-R1E	18	SW	
	7382	T8S-R1E	18	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7383	T8S-R1E	17	SW	
	7384	T8S-R1E	17	SE	
	7385	T8S-R1E	16	SW	
	7386	T8S-R1E	16	SE	
	7387	T8S-R1E	15	SW	
	7400	T8S-R1E	15	SE	
G	5411	T6S-R1E	26	SW	Conserve southern 80% of cell grouping. Focus conservation on large intact blocks of habitat consisting of coastal sage scrub, chaparral, grasslands, woodlands, forests, Riversidean alluvial fan sage scrub, desert scrub, and riparian scrub/woodland/forests intermixed with agricultural lands to preserve core habitat areas in Sage and Wilson Valley.
	5412	T6S-R1E	26	SE	
	5413	T6S-R1E	25	SW	
	5414	T6S-R1E	25	SE	
	5514	T6S-R1E	35	NW	
	5515	T6S-R1E	35	NE	
	5516	T6S-R1E	36	NW	
	5517	T6S-R1E	36	NE	
	5614	T6S-R1E	35	SW	
	5616	T6S-R1E	35	SE	
	5618	T6S-R1E	36	SW	
	5620	T6S-R1E	36	SE	
	5715	T7S-R1E	02	NW	
	5718	T7S-R1E	02	NE	
	5720	T7S-R1E	01	NW	
	5723	T7S-R1E	01	NE	
	5830	T7S-R1E	02	SE	
	5831	T7S-R1E	01	SW	
	5832	T7S-R1E	02	SW	
	5833	T7S-R1E	01	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	5914	T7S-R1E	11	NE	
	5915	T7S-R1E	12	NW	
	5923	T7S-R1E	11	NW	
	6021	T7S-R1E	12	SW	
	6024	T7S-R1E	11	SE	
	6028	T7S-R1E	11	SW	
	6114	T7S-R1E	13	NE	
	6122	T7S-R1E	13	NW	
	6131	T7S-R1E	14	NE	
	6134	T7S-R1E	14	NW	
	6211	T7S-R1E	13	SE	
	6214	T7S-R1E	13	SW	
	6218	T7S-R1E	14	SE	
	6224	T7S-R1E	14	SW	
	6312	T7S-R1E	24	NE	
	6313	T7S-R1E	24	NW	
	6316	T7S-R1E	23	NE	
	6322	T7S-R1E	23	NW	
	6417	T7S-R1E	23	SE	
	6418	T7S-R1E	24	SW	
	6420	T7S-R1E	24	SE	
	6421	T7S-R1E	23	SW	
	6515	T7S-R1E	26	NW	
	6517	T7S-R1E	26	NE	
	6520	T7S-R1E	25	NW	
	6524	T7S-R1E	25	NE	
	6609	T7S-R1E	26	SW	
	6610	T7S-R1E	26	SE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	6611	T7S-R1E	25	SW	
	6612	T7S-R1E	25	SE	
	6717	T7S-R1E	35	NE	
	6718	T7S-R1E	36	NW	
	6719	T7S-R1E	35	NW	
	6720	T7S-R1E	36	NE	
	6824	T7S-R1E	35	SE	
	6825	T7S-R1E	36	SW	
	6826	T7S-R1E	35	SW	
	6827	T7S-R1E	36	SE	
	6932	T8S-R1E	01	NE	
	6934	T8S-R1E	01	NW	
	6935	T8S-R1E	02	NE	
	6937	T8S-R1E	02	NW	
	7007	T8S-R1E	02	SW	
	7009	T8S-R1E	02	SE	
	7017	T8S-R1E	01	SW	
	7019	T8S-R1E	01	SE	
	7114	T8S-R1E	11	NW	
	7115	T8S-R1E	11	NE	
	7120	T8S-R1E	12	NW	
	7123	T8S-R1E	12	NE	
	7225	T8S-R1E	12	SW	
	7227	T8S-R1E	11	SE	
	7229	T8S-R1E	11	SW	
	7320	T8S-R1E	14	NW	
	7325	T8S-R1E	13	NW	
	7332	T8S-R1E	14	NE	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7399	T8S-R1E	13	SW	
	7408	T8S-R1E	14	SE	
	7411	T8S-R1E	14	SW	
H	5916	T7S-R1E	12	NE	Conserve west two-thirds of cell grouping. Focus conservation of chaparral, woodlands, forests, and grasslands to provide habitat connection between existing public lands to the west and the National Forest to the east.
	5917	T7S-R2E	07	NW	
	5919	T7S-R2E	07	NE	
	6009	T7S-R2E	07	SE	
	6010	T7S-R2E	07	SW	
	6015	T7S-R1E	12	SE	
I	7485	T8S-R1E	22	NW	Conserve north one-half of cell grouping. Focus conservation on chaparral and coastal sage scrub habitats.
	7582	T8S-R1E	22	SW	
J	7667	T8S-R1E	28	NE	Conserve northeastern 75% of cell grouping. Focus conservation on chaparral and coastal sage scrub habitats.
	7668	T8S-R1E	28	NW	
K	7558	T8S-R1E	20	SE	Conserve northwest, southwest, and southeast quarters of cell grouping. Focus conservation on coastal sage scrub and chaparral habitats.
	7579	T8S-R1E	21	SW	
L	7471	T8S-R1E	20	NE	Conserve west one-half of cell grouping. Focus conservation on chaparral and coastal sage scrub habitats.
	7474	T8S-R1E	21	NW	
	6721	T7S-R2E	31	NE	Conserve 60% of cell with a focus on the portions extending from the southwest corner diagonally to the northeast corner. Conservation shall occur in riparian scrub/woodlands/forests along Cahuilla Creek and adjacent chaparral habitat for the purpose of preserving a riparian linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along the creek.
	6722	T7S-R2E	32	NW	Conserve north one-third of cell. Focus conservation on riparian scrub/woodlands/forests in Cahuilla Creek and adjacent chaparral and grassland habitats to provide connection to chaparral and grasslands in cell #6721 and #6724. Preserve riparian linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along Cahuilla Creek.
	6723	T7S-R2E	31	NW	Conserve southwest one-eighth of cell. Focus conservation on riparian scrub/woodlands/forests in Cahuilla Creek and adjacent chaparral habitat to provide connection to chaparral habitat in cell #6828 to the south. Preserve riparian linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along Cahuilla Creek.
	6724	T7S-R2E	32	NE	Conserve north one-third of cell. Focus conservation on riparian scrub/woodlands/forests in Cahuilla Creek and adjacent grassland habitat. Preserve riparian

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
					linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along Cahuilla Creek.
	6828	T7S-R2E	31	SW	Conserve north one-third of cell. Focus conservation on riparian scrub/woodlands/forests in Cahuilla Creek and adjacent chaparral habitat. Preserve riparian linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along Cahuilla Creek.
	6829	T7S-R2E	31	SE	Conserve northwest one-sixth of cell. Focus conservation on riparian scrub/woodlands/forests in Cahuilla Creek and adjacent chaparral habitat to provide buffer to wetlands. Preserve riparian linkage between core habitat areas in Wilson Valley to the west and the Cahuilla Indian Reservation to the east along Cahuilla Creek.
	7223	T8S-R1E	12	SE	Conserve northwest one-fourth of cell and southwest one-eighth of cell. Focus conservation on chaparral and grassland habitats.
	7314	T8S-R1E	13	NE	Conserve west two-thirds of cell. Focus conservation on chaparral, coastal sage scrub, and desert scrub.
	7393	T8S-R1E	13	SE	Conserve northwest, northeast, and southeast quarters of cell. Focus conservation on chaparral and coastal sage scrub habitats and provide connectivity to existing public lands to the west.
	7394	T8S-R2E	18	SW	Conserve south two-thirds of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7413	T8S-R2E	18	SE	Conserve southwest one-eighth of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7468	T8S-R1E	19	NE	Conserve north one-third of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7469	T8S-R1E	20	NW	Conserve east one-half, northwest one-eighth and southwest one-eighth of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7470	T8S-R1E	19	NW	Conserve north one-third, southwest one-sixth and southeast one-sixth of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7555	T8S-R1E	20	SW	Conserve south one-half and northeast one-eighth of cell. Focus conservation on chaparral, coastal sage scrub and riparian scrub/woodlands/forests.
	7665	T8S-R1E	27	NW	Conserve south one-half of cell in order to provide connectivity to existing public lands to the north and south.
Subunit 3: Temecula and Cottonwood Creeks					
M	7641	T8S-R1E	29	NW	Conserve west two-thirds of cell. Focus conservation on riparian scrub/woodland/forest and adjacent chaparral and coastal sage scrub to provide core habitat for southwestern arroyo toad and other MSHCP species.
	7653	T8S-R1E	29	NE	
N	7721	T8S-R1E	29	SW	Conserve southwest 75% of cell grouping. Focus conservation on riparian scrub/woodland/forest and adjacent chaparral and coastal sage scrub to provide core habitat for southwestern arroyo toad and other MSHCP species.
	7731	T8S-R1E	29	SE	
	7741	T8S-R1E	28	SE	
	7738	T8S-R1E	27	SW	Conserve 75% of cell, focusing on the northwest, southeast and southwest quarters. Conservation shall focus on riparian scrub/woodlands/forests and Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent chaparral and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7737	T8S-R1E	28	SW	Conserve north one-third of cell along northern cell boundary and southern one-third along southern cell boundary. Conserve east one-eighth of cell along eastern cell boundary. Focus conservation on riparian scrub/woodlands/forests and Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent chaparral and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7743	T8S-R1E	27	SE	Conserve five-eighths of cell, focusing on northeast and southwest quarters of cell and central portion of cell. Focus conservation on chaparral and coastal sage scrub habitats occurring east and south of existing public lands. Conserve Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent grassland habitat.
	7805	T8S-R1E	33	NE	Conserve east one-half, northwest one-eighth and southwest three-sixteenths of cell. Focus conservation on riparian scrub/woodlands/forests and Riversidean alluvial fan sage scrub associated with Temecula and Cottonwood Creeks and adjacent grassland and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7806	T8S-R1E	34	NW	Conserve east one-half less southeast one-eighth corner, northwest three-sixteenths and southwest three-sixteenths. Focus conservation on Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent chaparral and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7809	T8S-R1E	33	NW	Conserve 60% of cell, focusing on the southwest one-half and northeast. Focus conservation on riparian scrub/woodlands/forests and Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent chaparral and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7813	T8S-R1E	34	NE	Conserve 50% of cell, focusing on central section from the northwest corner diagonally to the southeast corner. Focus conservation on Riversidean alluvial fan sage scrub associated with Temecula Creek and adjacent coastal sage scrub habitat. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7880	T8S-R1E	33	SE	Conserve north one-half of cell. Focus conservation on riparian Riversidean alluvial fan sage scrub associated with Cottonwood Creek and adjacent chaparral, grassland and coastal sage scrub habitats. Provide core habitat for southwestern arroyo toad and other MSHCP species.
	7881	T8S-R1E	34	SW	Conserve 75% of cell, focusing on central section from the northwest corner diagonally to the southeast corner. Conservation shall focus on Riversidean alluvial fan sage scrub associated with Cottonwood Creek and adjacent grassland habitat intermixed with agricultural lands.
	7885	T8S-R1E	34	SE	Conserve northeast 3% of cell. Focus conservation on Riversidean alluvial fan sage scrub associated with Temecula Creek to contribute to core habitat for arroyo toad and other MSHCP species.
	7888	T8S-R1E	35	SW	Conserve three-eighths of cell, focusing on the central section from the northwest corner diagonally to the east-central portion of cell. Focus conservation on chaparral and coastal sage scrub habitats.
	7891	T8S-R1E	35	SE	Conserve southwest quarter of cell. Focus conservation on chaparral and coastal sage scrub habitats west of existing public lands.
Subunit 4: Tule Creek and Anza Valley					
0	7480	T8S-R1E	24	NW	Conserve north one-half of cell grouping. Within the south half of cell grouping, conserve three-fourths of the area extending from the eastern boundary to south-

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
					central portion of cell grouping. Focus conservation on Riversidean alluvial fan sage scrub associated with Tule Creek and adjacent chaparral, coastal sage scrub, and grasslands to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7489	T8S-R1E	23	NE	
	7497	T8S-R1E	22	NE	
	7501	T8S-R1E	23	NW	
	7586	T8S-R1E	23	SE	
	7587	T8S-R1E	24	SW	
	7591	T8S-R1E	22	SE	
	7595	T8S-R1E	23	SW	

REMAP RESERVE DESIGN CRITERIA

(*Preliminary Draft – Subject to Change*)

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
P	7475	T8S-R1E	24	NE	Conserve north two-thirds of cell grouping. Focus conservation on Riversidean alluvial fan sage scrub associated with Tule Creek and adjacent chaparral, coastal sage scrub, and grasslands to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7589	T8S-R1E	24	SE	
Q	7476	T8S-R2E	19	NW	Conserve north two-thirds of cell grouping. Focus conservation on Riversidean alluvial fan sage scrub and riparian scrub/woodland/forest associated with Tule Creek and adjacent chaparral, coastal sage scrub, and grasslands to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7594	T8S-R2E	19	SW	
R	7482	T8S-R2E	21	NW	Conserve north two-thirds of cell grouping. Focus conservation on riparian scrub/woodland/forest and grasslands associated with Tule Creek and adjacent desert scrub, chaparral, and coastal sage scrub to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7584	T8S-R2E	21	SW	
S	7392	T8S-R2E	16	SE	Conserve south three-fourths of cell grouping. Focus conservation on riparian scrub/woodland/forest and grasslands associated with Tule Creek and adjacent desert scrub, chaparral, and coastal sage scrub to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7486	T8S-R2E	21	NE	
	7588	T8S-R2E	21	SE	
	7672	T8S-R2E	28	NE	
T	7395	T8S-R2E	15	SW	Conserve south two-thirds of cell grouping. Focus conservation on riparian scrub/woodland/forest and grasslands associated with Tule Creek and adjacent desert scrub, chaparral, and coastal sage scrub to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7488	T8S-R2E	22	NW	
	7590	T8S-R2E	22	SW	
U	7523	T8S-R2E	24	NE	Conserve north two-thirds of cell grouping. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent desert scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7580	T8S-R2E	24	SE	
V	7159	T8S-R2E	12	NE	Conserve south 80% of cell grouping less 4% of the west-central portion of cell grouping. Focus conservation on chaparral, desert scrub, and grasslands located south and east of existing public lands to preserve core habitat for quino and other MSHCP species in Anza Valley.
	7160	T8S-R3E	07	NW	
	7162	T8S-R3E	07	NE	
	7247	T8S-R2E	12	SE	
	7248	T8S-R3E	07	SW	
	7250	T8S-R3E	07	SE	

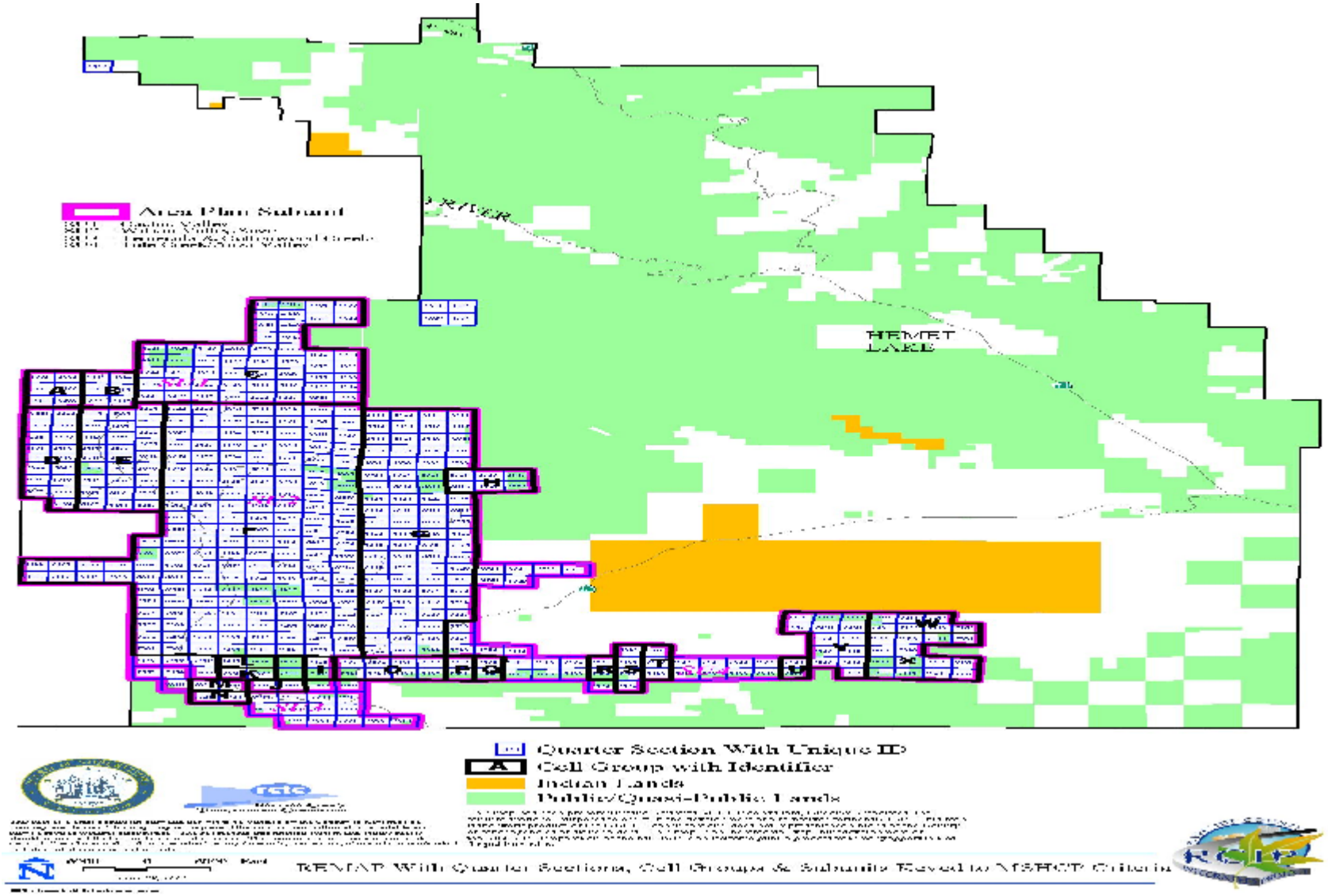
Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7322	T8S-R3E	18	NW	
	7326	T8S-R3E	18	NE	
	7416	T8S-R3E	18	SE	
	7419	T8S-R3E	18	SW	
	7513	T8S-R3E	19	NE	
	7519	T8S-R3E	19	NW	
	7575	T8S-R3E	19	SE	
W	7163	T8S-R3E	08	NW	Conserve west 75% and 7% of southeast corner of cell grouping. Focus conservation on chaparral, desert scrub, marshes and grasslands located south and east of existing public lands to preserve core habitat for quino and other MSHCP species in Anza Valley.
	7165	T8S-R3E	08	NE	
	7167	T8S-R3E	09	NW	
	7251	T8S-R3E	08	SW	
	7255	T8S-R3E	08	SE	
	7263	T8S-R3E	09	SW	
	7265	T8S-R3E	09	SE	
X	7327	T8S-R3E	17	NW	Conserve 80% of cell grouping. Focus conservation on chaparral, desert scrub, and grasslands to preserve core habitat for quino and other MSHCP species and provide habitat connectivity between existing public reserves in Anza Valley.
	7329	T8S-R3E	17	NE	
	7330	T8S-R3E	16	NW	
	7331	T8S-R3E	16	NE	
	7390	T8S-R3E	17	SE	
	7403	T8S-R3E	17	SW	
	7472	T8S-R3E	20	NE	
	7473	T8S-R3E	21	NW	
	7483	T8S-R3E	20	NW	
	7490	T8S-R3E	21	NE	
	7566	T8S-R3E	20	SE	
	7568	T8S-R3E	21	SW	

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
	7571	T8S-R3E	20	SW	
	7593	T8S-R3E	21	SE	
	7481	T8S-R2E	20	NE	Conserve southwest and southeast quarters of cell. Conserve northeast one-eighth of cell from eastern boundary to central portion of cell. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent grasslands and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7583	T8S-R2E	20	SE	Conserve north one-half of cell. Focus conservation on grasslands, coastal sage scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7503	T8S-R2E	19	NE	Conserve southwest 80% of cell. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent coastal sage scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7509	T8S-R2E	20	NW	Conserve southwest one-half of cell. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent coastal sage scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7603	T8S-R2E	20	SW	Conserve northeast one-quarter of cell. Focus conservation on chaparral habitat.
	7605	T8S-R2E	19	SE	Conserve northwest one-quarter of cell. Focus conservation on chaparral habitat.
	7663	T8S-R1E	27	NE	Conserve west 80% of cell. Focus conservation on chaparral and coastal sage scrub habitats to provide connectivity to existing public reserves in Wilson Valley.
	7507	T8S-R2E	22	NE	Conserve south two-thirds of cell. Focus conservation on grasslands, desert scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7521	T8S-R2E	23	NW	Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent coastal sage scrub and chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7522	T8S-R2E	23	NE	Conserve south three-fourths of cell grouping. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent chaparral to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7527	T8S-R2E	24	NW	Conserve south 80% of cell. Focus conservation on riparian scrub/woodland/forest associated with Tule Creek and adjacent desert scrub, chaparral, and grasslands to provide connectivity between core habitat areas in Wilson Valley and Anza Valley.
	7585	T8S-R2E	24	SW	Conserve north one-half of cell. Focus conservation on chaparral habitat.
	7599	T8S-R2E	22	SE	Conserve northeast, northwest, and southwest quarters of cell. Focus conservation on chaparral habitat.
	7600	T8S-R2E	23	SE	Conserve north-one half of cell. Focus conservation on chaparral habitat.
	7602	T8S-R2E	23	SW	Conserve north one-half of cell. Focus conservation on chaparral habitat.
	7675	T8S-R2E	28	NW	Conserve south one-half of cell. Focus conservation on chaparral habitat.
Cells Not Within a Subunit					
	2469	T4S-R1W	13	NW	Conserve southwest one-eighth of cell. Focus conservation on chaparral associated with the San Jacinto River to support sensitive species and to provide a

Cell Group	Quarter Number	Township/ Range	USGS Section	Quarter Section	CRITERIA
					linkage from the San Bernardino National Forest to core habitat in the Badlands.
Y	4505	T6S-R1E	01	NE	Conserve west 40% of cell, focusing on portions extending from the northwest corner to the south-central portion of cell. Conservation shall occur within Riversidean alluvial fan sage scrub and adjacent chaparral to support sensitive MSHCP species, including arroyo toad and San Bernardino kangaroo rat and others, and provide a linkage from the San Bernardino National Forest to core habitat in the Badlands.
	4511	T6S-R1E	01	NW	
	4626	T6S-R1E	01	SE	Conserve east one-half of cell, focusing on portions extending from the north-central to the southeast corner of cell. Conservation shall occur within Riversidean alluvial fan sage scrub and adjacent chaparral such that a continuous habitat linkage exists to cell #4511 to the north. Conserve key populations of arroyo toad and San Bernardino kangaroo rat and others, and provide a linkage from the San Bernardino National Forest to core habitat in the Badlands.
	4627	T6S-R1E	01	SW	Conserve southwest one-eighth of cell. Focus conservation on Riversidean alluvial fan sage scrub and adjacent chaparral such that a continuous habitat linkage exists to cell #4627 to the west. Conserve key populations of arroyo toad and San Bernardino kangaroo rat and others, and provide a linkage from the San Bernardino National Forest to core habitat in the Badlands.

REMAP RESERVE DESIGN CRITERIA

(*Preliminary Draft – Subject to Change*)



REMAP RESERVE DESIGN CRITERIA

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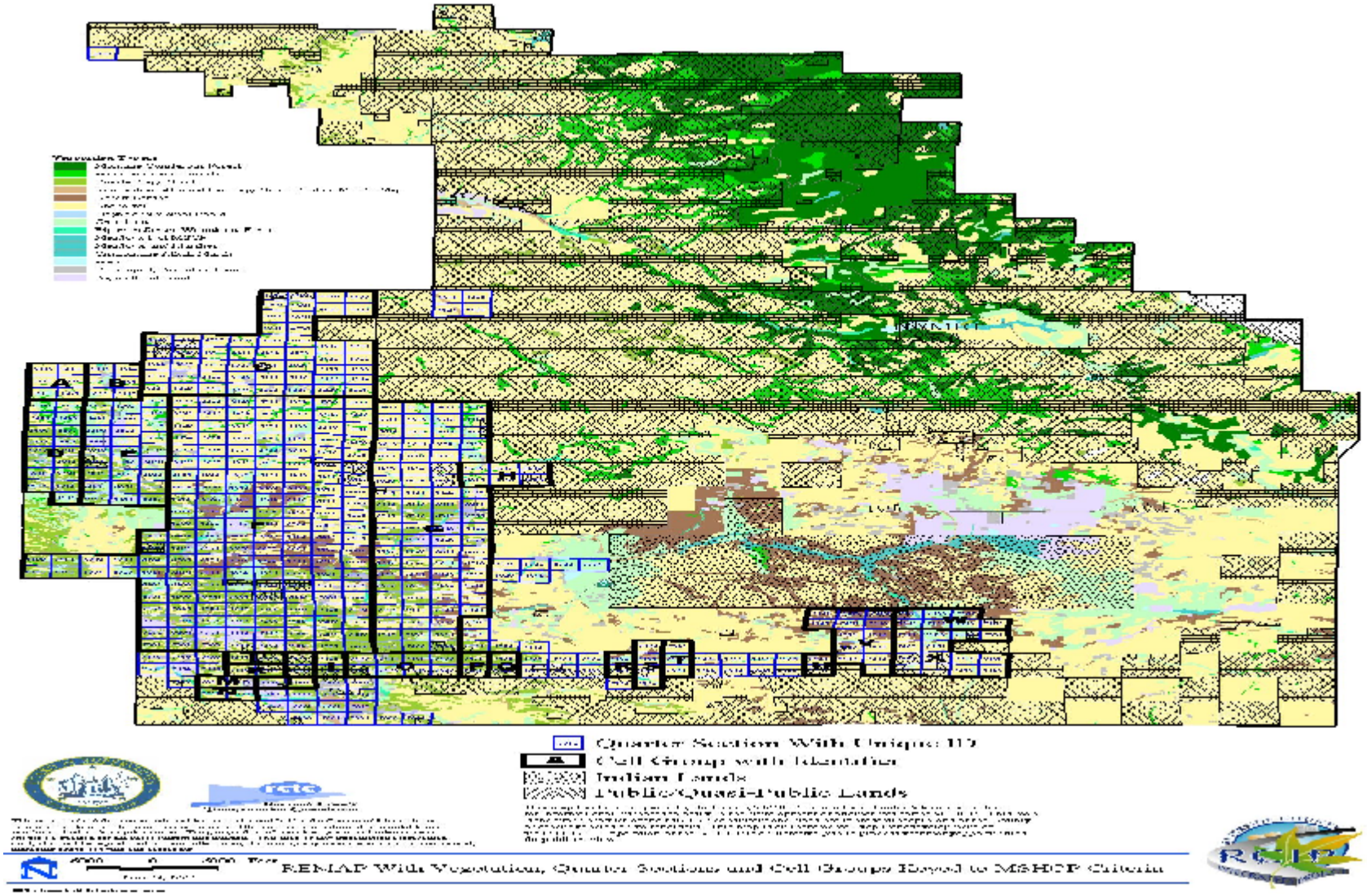

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