

**Attachment B-3**  
**Santa Ana RWQCB Basin Plan Beneficial Uses**



## CHAPTER 3 BENEFICIAL USES

### INTRODUCTION

Basically, a beneficial use is one of the various ways that water can be used for the benefit of people and/or wildlife. Examples include drinking, swimming, industrial and agricultural water supply, and the support of fresh and saline aquatic habitats.

Section 303 of the federal Clean Water Act (33 USC §1313) defines water quality standards as consisting of both the uses of the surface (navigable) waters involved and the water quality criteria which are applied to protect those uses. Under the Porter-Cologne Water Quality Control Act (California Water Code, Division 7, Chapter 2 §13050) these concepts are separately considered as beneficial uses and water quality objectives. Beneficial uses and water quality objectives are to be established for all waters of the state, both surface and subsurface (groundwater).

### BENEFICIAL USES

Beneficial uses were tabulated and discussed in Chapters 1 and 2 of the 1975 Basin Plan and in Chapter 2 of the 1983 Basin Plan. In 1983, twenty-one beneficial uses were defined statewide. Of those, eighteen were identified and recognized in the 1983 Plan: **MUN, AGR, IND, PROC, GWR, NAV, POW, REC1, REC 2, COMM, WARM, COLD, BIOL, WILD, RARE, SPWN, MAR, and SHEL.**

In 1988, the State Board adopted the Sources of Drinking Water Policy (SWRCB Resolution No. 88-63) which directed the Regional Boards to add the Municipal and Domestic Supply (**MUN**) Beneficial Use for all waterbodies not already so designated, unless they met certain exception criteria. To implement this Policy, the Regional Board revised the table of Beneficial Uses in the 1983 Basin Plan, adding the **MUN** designation for certain waterbodies and specifically excepting others (RWQCB Resolution No. 89-42). Shortly thereafter, this revised Beneficial Use table was reviewed again and changes were made, including the addition of the Water Contact Recreation (**REC 1**) use for some waterbodies, the revision of some Beneficial Use designations from intermittent (I) to existing (X), and the addition of more waterbodies (RWQCB Resolution No. 89-99).

In this Plan, further changes to the Beneficial Use table have been made. Significant waterbodies not previously identified are included and the beneficial uses are designated. Certain of these waters are excepted from the **MUN** designation. The designation **RARE** has been added where substantial evidence indicates that the waterbody supports rare, threatened or endangered species (Appendix II). Certain known wetlands in the Region are listed in a new waterbody category (see wetlands discussion below). A revised list of Beneficial Uses was developed as part of a comprehensive statewide update of all Basin Plans. Using this revised statewide list as a guide, this Basin Plan updates the list of Beneficial Uses definitions contained in the 1983 Plan.



Non-contact Water Recreation (**REC 2\***) waters are used for recreational activities involving proximity to water, but not normally involving body contact with water where ingestion of water would be reasonably possible. These uses may include, but are not limited to, picnicking, sunbathing, hiking, beachcombing, camping, boating, tidepool and marine life study, hunting sightseeing and aesthetic enjoyment in conjunction with the above activities.

Commercial and Sportfishing (**COMM**) waters are used for commercial or recreational collection of fish or other organisms, including those collected for bait. These uses may include, but are not limited to, uses involving organisms intended for human consumption.

Warm Freshwater Habitat (**WARM**) waters support warmwater ecosystems that may include, but are not limited to, preservation and enhancement of aquatic habitats, vegetation, fish and wildlife, including invertebrates.

Limited Warm Freshwater Habitat (**LWRM**) waters support warmwater ecosystems which are severely limited in diversity and abundance as the result of concrete-lined watercourses and low, shallow dry weather flows which result in extreme temperature, pH, and/or dissolved oxygen conditions. Naturally reproducing finfish populations are not expected to occur in **LWRM** waters.

Cold Freshwater Habitat (**COLD**) waters support coldwater ecosystems that may include, but are not limited to, preservations and enhancement of aquatic habitats, vegetation, fish and wildlife, including invertebrates.

Preservation of Biological Habitats of Special Significance (**BIOL**) waters support designated areas or habitats, including, but not limited to, established refuges, parks, sanctuaries, ecological reserves or preserves, and Areas of Special Biological Significance (ASBS), where the preservation and enhancement of natural resources requires special protection.

Wildlife Habitat (**WILD**) waters support wildlife habitats that may include, but are not limited to, the preservation and enhancement of vegetation and prey species used by waterfowl and other wildlife.

Rare, Threatened or Endangered Species (**RARE**) waters support the habitats necessary for the survival and successful maintenance of plant or animal species designated under state or federal law as rare, threatened or endangered.

\* The **REC 1** and **REC 2** beneficial use of designations assigned to surface waterbodies in this Region should not be construed as encouraging recreational activities. In some cases, such as Lake Matthews and certain reaches of the Santa Ana River, access to the waterbodies is prohibited because of potentially hazardous conditions and/or because of the need to protect other uses, such as municipal supply or sensitive wildlife habitat. Where **REC 1** or **REC 2** is indicated as a beneficial use in Table 3-1, the designations are intended to indicate that the uses exist or that the water quality of the waterbody could support recreational uses.



the growing season. Wetland hydrology can be described as the presence of water at or above the soil surface for a sufficient period of the year to significantly influence the plant types and soil that occur in the area. Strict definitions of these characteristics have not been formally adopted. The Regional Board includes these characteristics and criteria as general reference and not as guidance.

A part of an overall effort to protect the Nation's wetland resources, US EPA has called for states to adopt water quality standards (beneficial uses and water quality objectives) for wetlands. Applying water quality standards to wetlands provides a regulatory basis for a variety of wetlands management programs. For example, these standards will play an important role in the State and Regional Boards' water quality certification process by providing the basis for approving, conditioning or denying federal permits and licenses as appropriate. (This certification process, conducted in accordance with Section 401 of the CWA is described in more detail in Chapter 5.)

The 1975 and 1983 Basin Plans listed a number of waterbodies which are known to be or to include wetlands (e.g., San Joaquin Freshwater Marsh, Upper Newport Bay, Anaheim Bay-National Wildlife Refuge). These Plans specified both beneficial uses and water quality objectives for these waterbodies. In the earlier Plans, these waters were not specifically identified as wetlands. In this plan, a "Wetlands" waterbody category has been added to the Table of Beneficial Uses. Certain waters known to be wetlands are listed under this category and their beneficial uses are designated. (Note: estuarine wetlands continue to be shown in the "Bays, Estuaries and Tidal Prisms" category). The numeric objectives specified for these wetlands in the earlier Basin Plans are included in this Plan (Chapter 4). Additional numeric objectives will be developed and implemented as part of the ongoing Basin Planning process. Further detailed review of the water resources within the Region is also expected to result in the listing of additional wetlands.

The intent of including the wetlands category is to provide a more accurate description of the Region's waters. The listing of specific wetlands does not trigger any new or different regulatory actions by the Regional Board. Standards applied to permitting, 401 certification, and/or enforcement actions will not be affected by this listing. Again, the listing of wetlands in this Plan is a partial one only and should not be construed as placing any limitations on the exercise of the Regional Board's responsibilities or authorities with respect to the protection of wetlands in the region. Nor is the present listing intended to define wetlands which are subject to the United States Army of Corps of Engineers jurisdiction.

Figure 3-1 shows the general locations of the wetlands listed in this Plan. The specific boundaries of each of these wetland areas will be determined on an as-needed basis (for 401 certifications and the like), using the methods described in the 1987 Corps of Engineers Wetland Delineation Manual or other accepted techniques.

A brief description of each of the wetlands listed in this Plan is provided in Appendix III. Some of these wetlands occur naturally. Others were created, either incidentally, as the result of the construction of dams or levees, or purposefully, as mitigation for

development projects elsewhere. Examples of created wetlands include those in the Prado Basin, which resulted from the construction of Prado Dam, and the San Joaquin Freshwater Marsh, created for development mitigation purposes.

A third type of wetlands, constructed wetlands, is proposed for the Santa Ana Region. Constructed wetlands would be designed, built and managed to provide wastewater treatment to meet specific waste discharge requirements. Constructed wetlands do not include percolation ponds, equalization basins or other conventional treatment works. At this time, the proposed use of constructed wetlands in the region would be principally for nitrogen removal. The use of constructed wetlands for management of stormwater flows may also be proposed. Currently, the Orange County Water District is using approximately 600 acres of ponds in the Prado area to investigate the use of constructed wetlands for nitrogen removal. The City of Riverside proposes to construct and operate wetlands treatment ponds in the Hidden Valley area. Constructed wetlands are also being contemplated by Eastern Municipal Water District and Elsinore Valley Municipal Water District.

While the purpose of these constructed wetlands would be to provide wastewater treatment, they will inevitably have other uses and benefits, including the support of waterfowl and other wildlife and opportunities for education and recreation. The Regional Board's approach toward regulation of the use of these constructed wetlands will be to ensure that these affiliated uses are reasonably protected, while appropriate wastewater treatment uses are supported. As an example, the Board could allow the use of constructed wetlands for the treatment of various parameters such as nitrogen and phosphorus. However, the Board may disallow the use of wetlands for treatment of certain parameter such as toxics if there is evidence that these parameters would adversely and unreasonably affect the affiliated uses of the constructed wetlands. In this case, the Board would require compliance with toxics limits prior to discharge to the constructed wetlands.

In August 1993, the "California Wetlands Conservation Policy" was announced by the Governor. The Policy, included in the Appendix III, has three principal objectives:

- to ensure no overall net loss of wetlands and achieve a long-term gain in the quantity, quality and permanence of wetlands acreage and values;
- to reduce procedural complexity and confusion in the administration of wetlands conservation programs; and
- make cooperative planning efforts and landowner incentive programs the primary focus of wetland conservation and restoration.

The methods identified to achieve these objectives are numerous and include:

- a statewide wetlands inventory and identification of conservation, restoration and enhancement goals;
- development of a consistent wetlands definition, standards, and guidelines for regulatory purposes; and
- integration of wetlands policy and planning with other environmental and land use processes.

An interagency task force on wetlands is to be created to direct and coordinate administration and implementation of this policy.

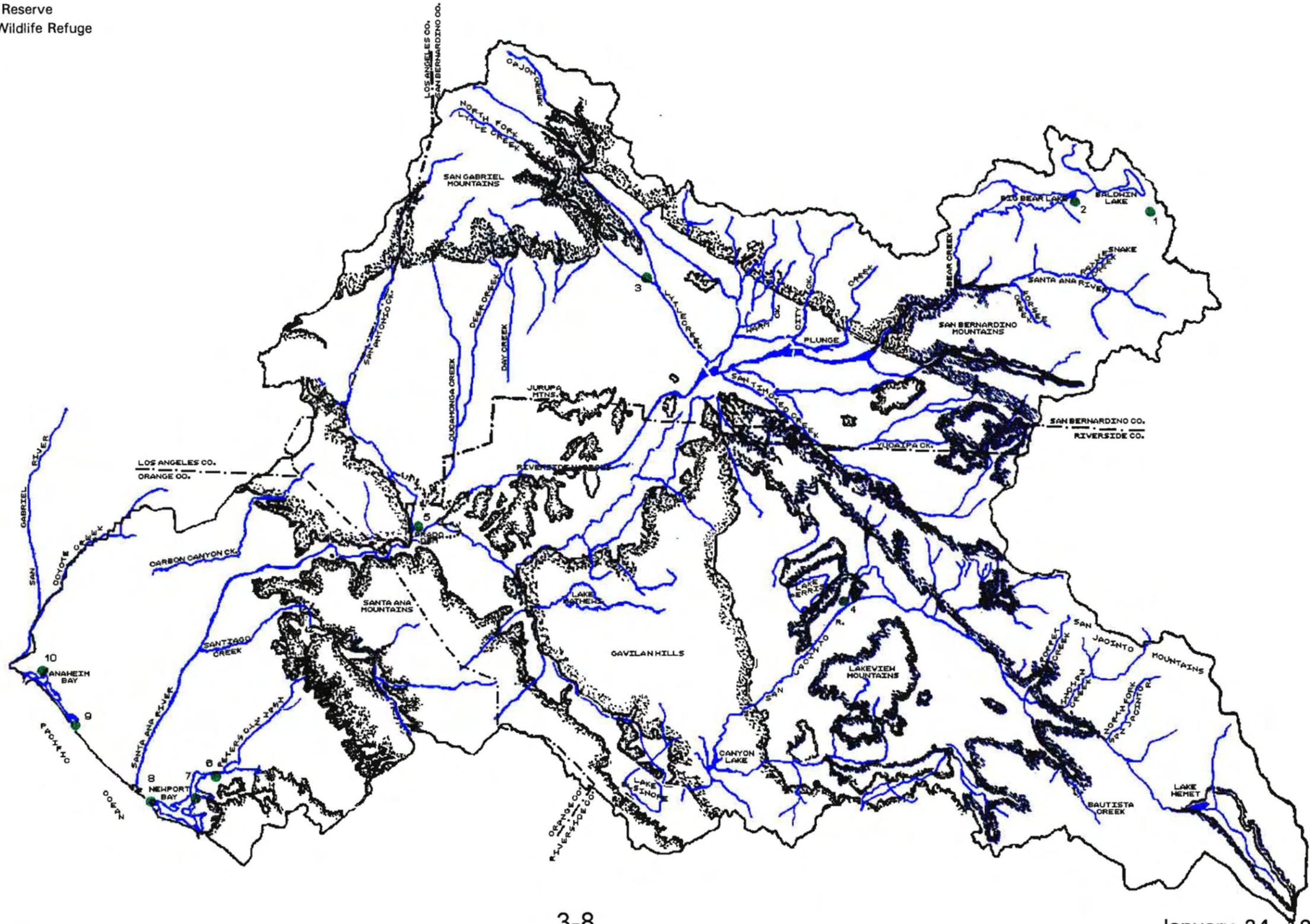
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List of Wetlands

- 1 Shay Meadows
- 2 Stanfield Marsh
- 3 Glen Helen
- 4 San Jacinto Wildlife Area
- 5 Prado Flood Control Basin
- 6 San Joaquin Freshwater Marsh
- 7 Upper Newport Bay
- 8 Santa Ana River Salt Marsh
- 9 Bolsa Chica Ecological Reserve
- 10 Seal Beach - National Wildlife Refuge

FIGURE 3-1  
SANTA ANA REGION  
WETLANDS





## **GROUNDWATER (Amended by Resolution No. R8-2004-0001, January 22, 2004)**

Groundwater subbasin boundaries included in the 1975 and 1984 Basin Plans, and initially in this 1995 Basin Plan, were, for the most part, based on data and information collected in the 1950's and 1960's. Since these boundaries were first established in the 1975 Basin Plan, a considerable amount of new water level, water quality and geologic data has become available. As part of the 2004 update of the TDS/Nitrogen management plan in the Basin Plan (see further discussion of this work in Chapter 5 – Salt Management Plan), these new data were used to review and revise the sub-basin boundaries.

To accomplish this task, all available geologic studies of the Santa Ana Region, through 1995, were gathered and re-analyzed. A comprehensive database of water level and water quality data and well drilling logs was created and utilized to delineate revised groundwater subbasin boundaries, now designated as groundwater "Management Zones". The groundwater Management Zones are shown in Figures 3-3 through 3-7.

The specific technical basis for distinguishing each groundwater Management Zone is provided in the report entitled "TIN/TDS Study – Phase 2A Final Technical Memorandum," Wildermuth Environmental, Inc., July 2000. In general, the new groundwater Management Zone boundaries were defined on the basis of (1) separation by impervious rock formations or other groundwater barriers, such as geologic faults; (2) distinct flow systems defined by consistent hydraulic gradients that prevent widespread intermixing, even without a physical barrier; and (3) distinct differences in water quality. Groundwater flow, whether or not determined by a physical barrier, was the principal characteristic used to define the Management Zones. Water quality data were used to support understanding of the flow regime and to assure that unusually high or poor quality waters were distinguished for regulatory purposes.

In addition to these technical considerations, water and wastewater management practices and goals for the Chino Basin were considered and used to define an alternative set of Management Zone boundaries for that area. These so-called "maximum benefit" Management Zone delineations, shown in Figure 3-5a, were developed as part of recommendations by the Chino Basin Watermaster and the Inland Empire Utilities Agency (IEUA) to implement a "maximum benefit" proposal, including an Optimum Basin Management Plan (OBMP), for the area.<sup>1</sup> These agencies have committed to the implementation of a specific set of projects and

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<sup>1</sup> The term "maximum benefit" is drawn from the state's antidegradation policy (SWCRB Resolution No. 68-16; see Chapter 2)), which provides that high quality water can be lowered only if beneficial uses are fully protected and water quality consistent with *maximum benefit* to the people of the state is maintained.

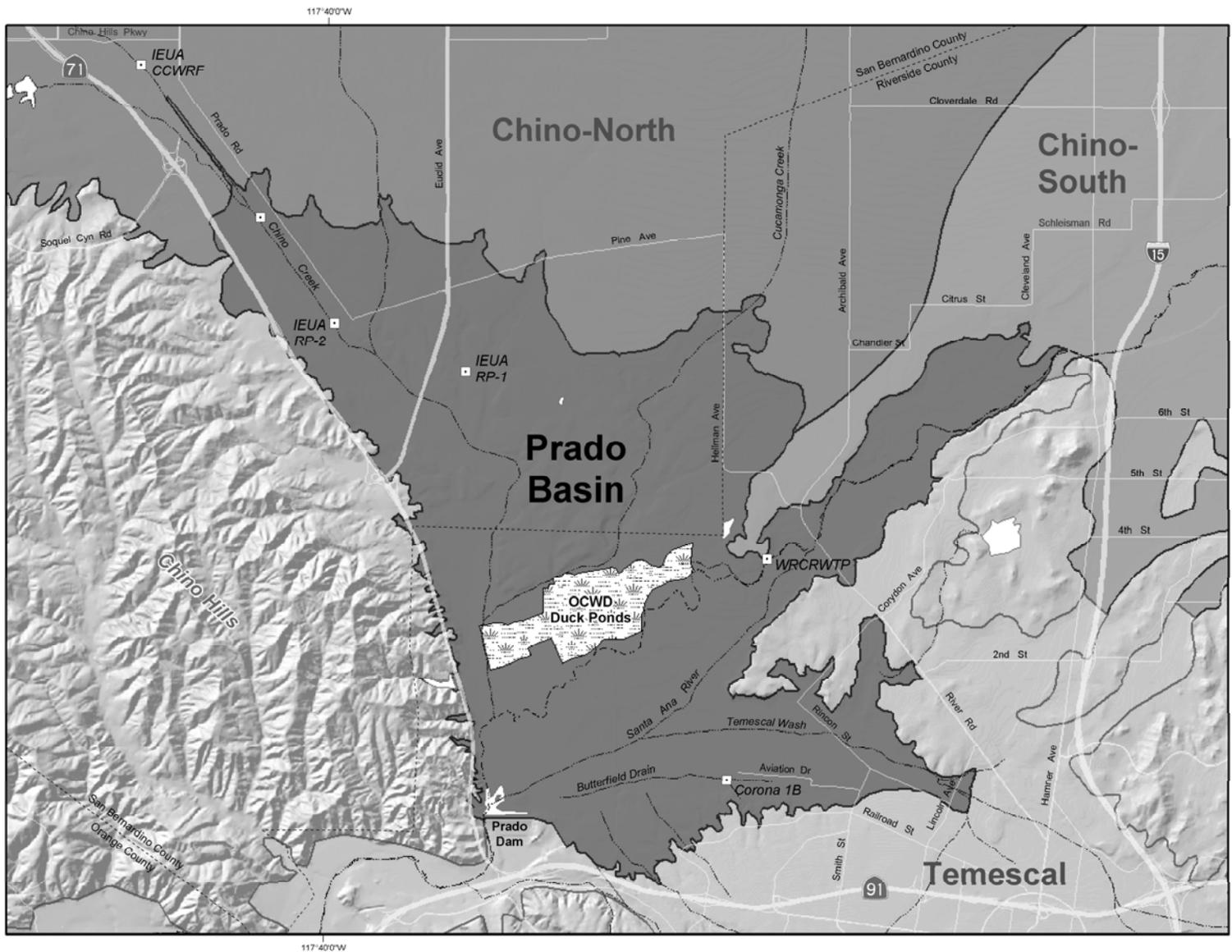
requirements in order to demonstrate that the “maximum benefit” Management Zone boundaries, and particularly the “maximum benefit” nitrate-nitrogen and TDS objectives for these Zones (see Chapter 4), assure protection of beneficial uses and are of maximum benefit to the people of the state (see Chapter 5, VII. Maximum Benefit Implementation Plans for Salt Management, A. Salt Management – Chino Basin and Cucamonga Basin). These “maximum benefit” Management Zone boundaries apply for regulatory purposes provided that the Regional Board continues to find that the Watermaster and IEUA are demonstrating “maximum benefit” by timely and appropriate implementation of these agencies’ commitments. If, after consideration at a duly noticed Public Hearing, the Regional Board finds that these commitments are not being met and that “maximum benefit” is not being demonstrated, then the Management Zone boundaries for the Chino Basin shown in Figure 3-5b apply for regulatory purposes.

### **PRADO BASIN SURFACE WATER MANAGEMENT ZONE (PBMZ)**

The flood plain behind Prado Dam has unique hydraulic characteristics. Chino Creek, Cucamonga Creek (which flows into Mill Creek) and Temescal Creek join the Santa Ana River behind the dam. Flood control operations at the dam, coupled with an extremely shallow groundwater table and an unusually thin aquifer, significantly affect these surface flows, as well as subsurface flows in the area. Depending on how the dam is operated, surface waters may or may not percolate behind the dam. There is little or no groundwater storage in the flood plain behind the dam. Any groundwater in storage is forced to the surface because the foot of Prado Dam extends to bedrock and subsurface flows cannot pass through the barrier created by the dam and the surrounding hills. Given these characteristics, this area is designated as a surface water management zone, rather than a groundwater management zone. The Prado Basin Management Zone is generally defined by the 566-foot elevation above mean sea level. It extends from Prado Dam up Chino Creek, Reach 1A and 1B to the concrete-lined portion near the road crossing at Old Central Avenue, up the channel of Mill Creek (Prado Area) to where Mill Creek becomes named as Cucamonga Creek and the concrete-lined portion near the crossing at Hellman Road, up what was formerly identified as Temescal Creek, Reach 1A (from the confluence with the Santa Ana River upstream of Lincoln Avenue) (this area is indistinguishable because of shifting topography and is now considered a part of the Prado Basin Management Zone), and up the Santa Ana River, Reach 3 to the 566-foot elevation (just west of Hamner Avenue). The Prado Basin Management Zone encompasses the Prado Flood Control Basin, which is a created wetlands as defined in this Plan (see the discussion of wetlands elsewhere in this Chapter). Orange County Water District’s wetlands ponds are also located within the Prado Basin Management Zone.

The beneficial uses of the proposed PBMZ include all of the beneficial uses currently designated for the surface waters identified above. The PBMZ also incorporates the Prado Flood Control Basin. The beneficial uses previously identified for this Basin are designated also for the Zone (See Table 3-1, Beneficial Uses, page 3-21).

**The Prado Basin Management Zone is shown in Figure 3-2.**



- Map Explanation**
- Management Zone Boundary
  - Rivers & Streams
  - Recycled Water Discharge Location



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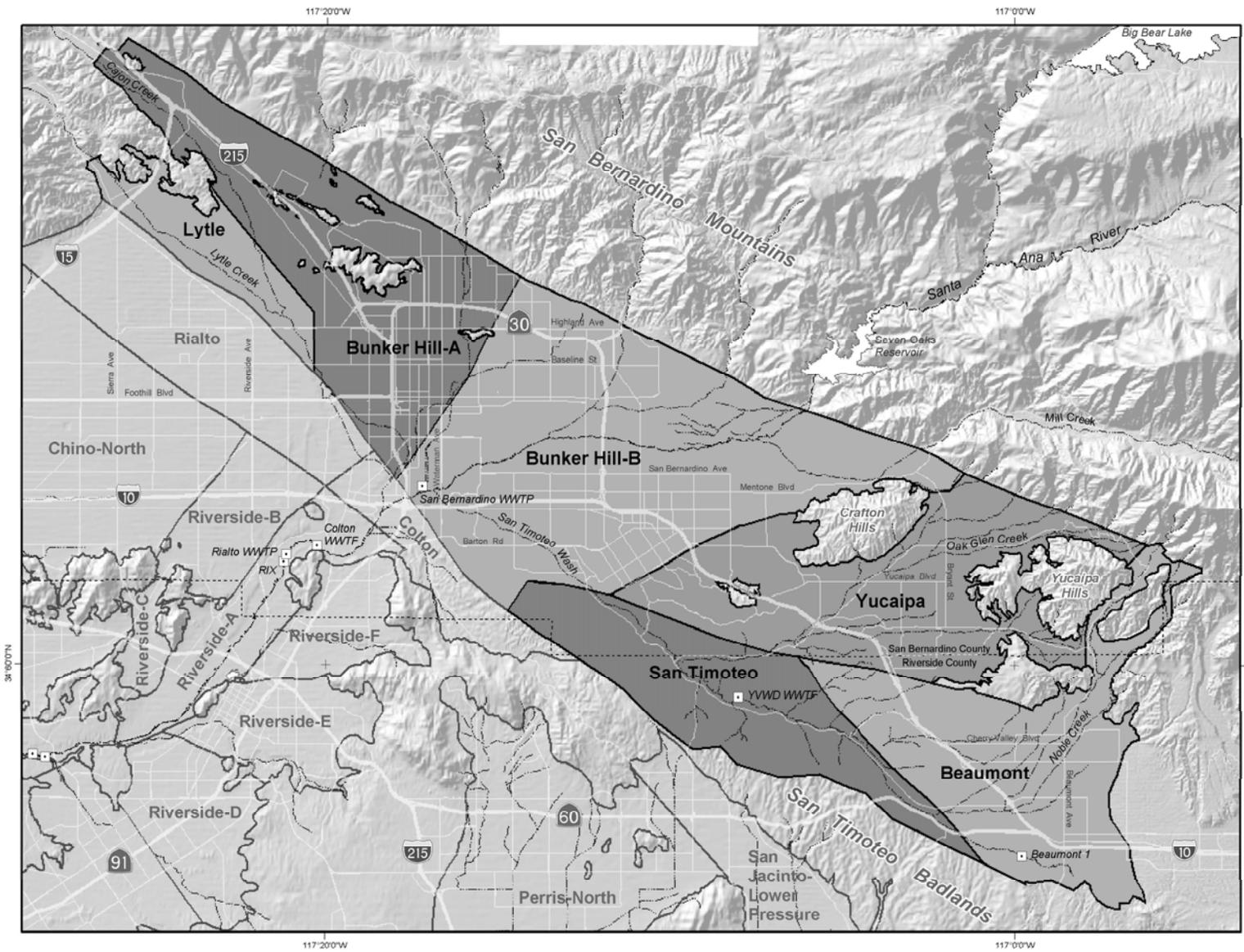
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 Develop Updated Boundary Maps  
 for Management Zones  
 (as Ammended and Revised)

**Prado Basin Management Zone Boundaries**

**Figure 3-2**



- Map Explanation**
-  Management Zone Boundary
  -  Rivers & Streams
  -  Recycled Water Discharge Location



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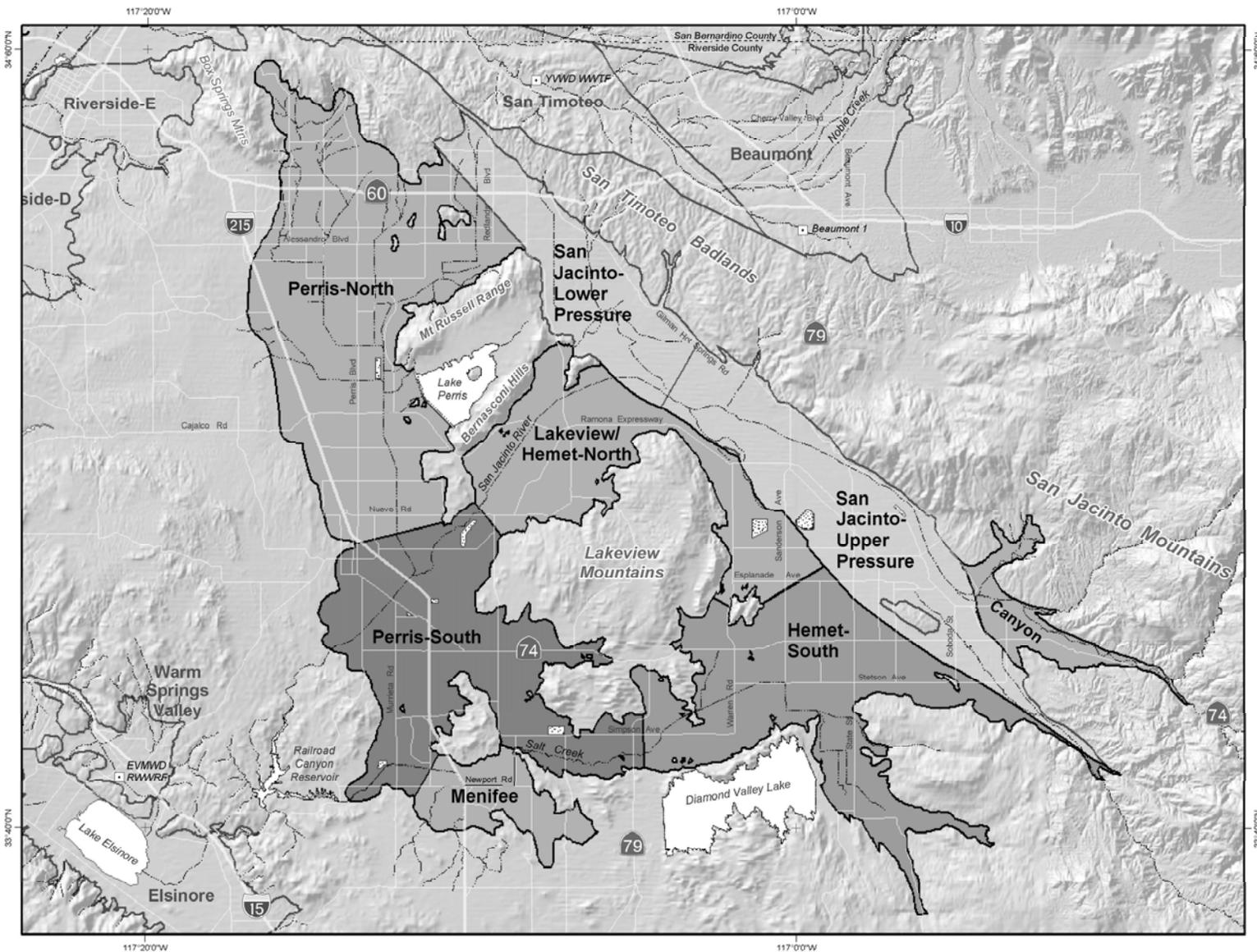
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**Management Zone Boundaries**  
 San Bernardino Valley & Yucaipa/Beaumont Plains

**Figure 3-3**

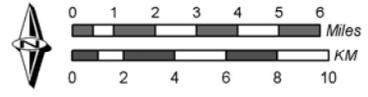


- Map Explanation**
-  Management Zone Boundary
  -  Rivers & Streams
  -  Recycled Water Discharge Location
  -  Recycled Water Pond



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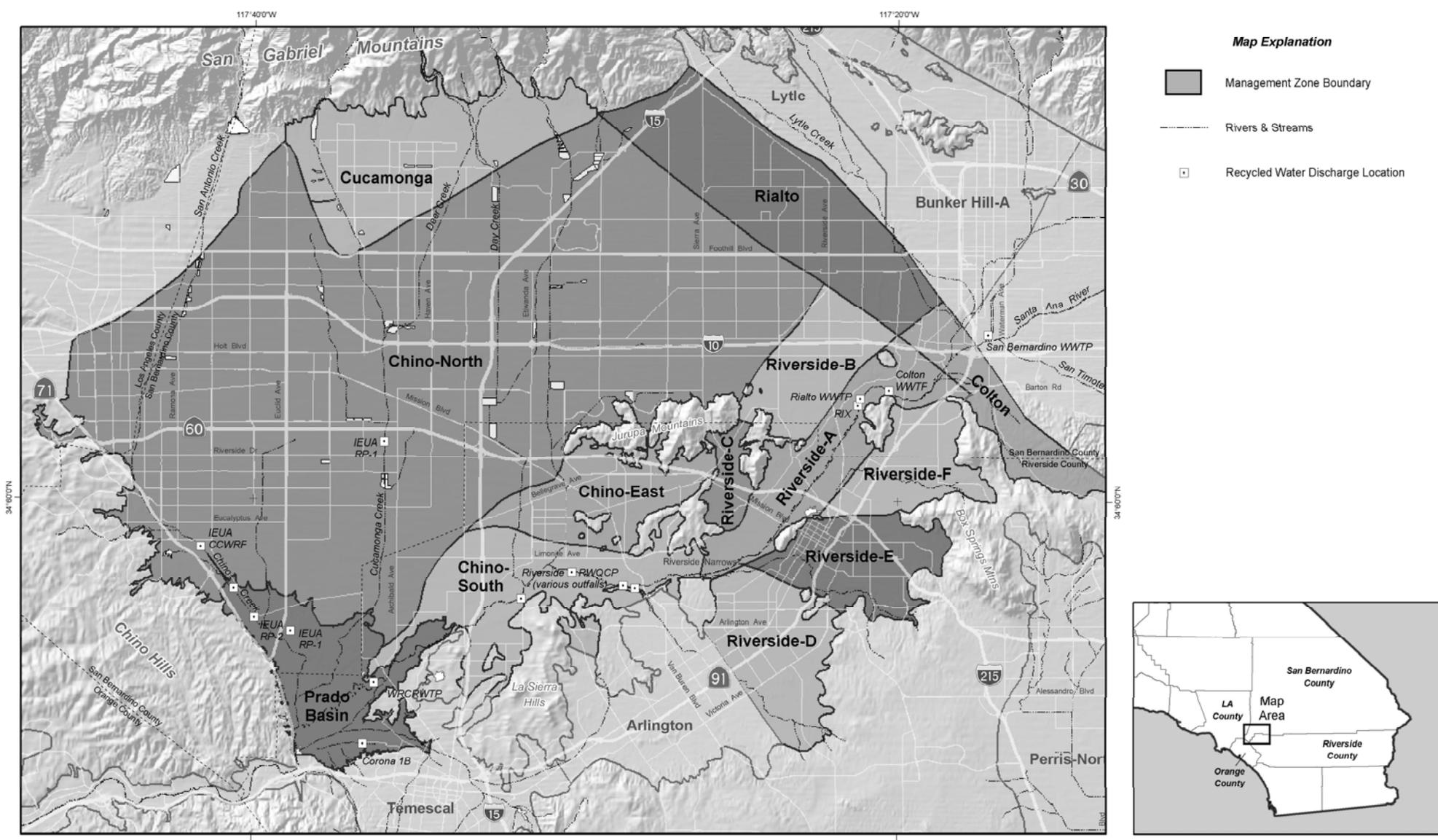
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**Management Zone Boundaries**  
 San Jacinto Basins

**Figure 3-4**

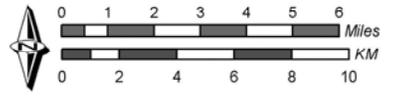


**Map Explanation**

- Management Zone Boundary
- Rivers & Streams
- Recycled Water Discharge Location

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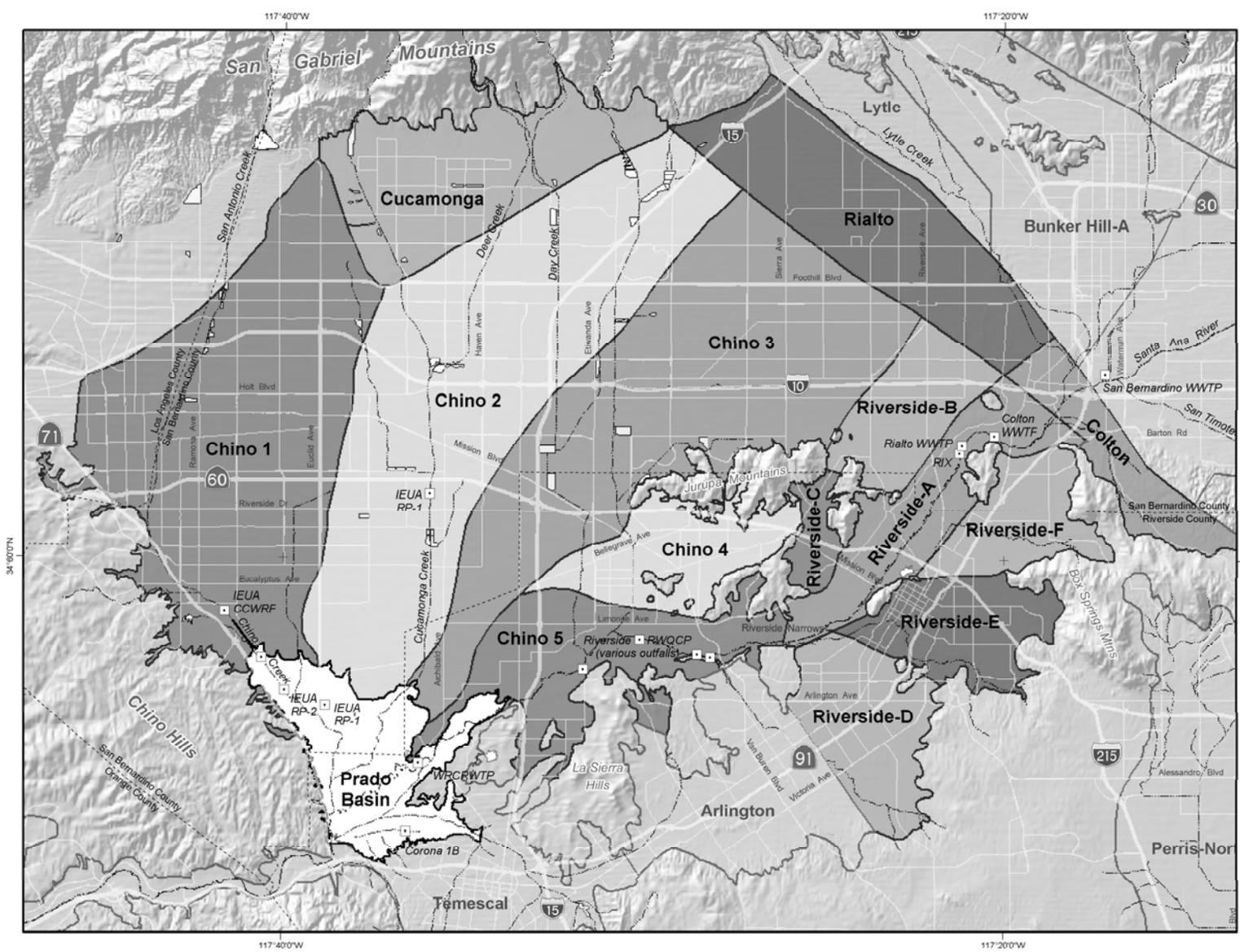


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**Management Zone Boundaries**  
 Chino (Maximum Benefit), Rialto-Colton,  
 & Riverside Basins

**Figure 3-5a**

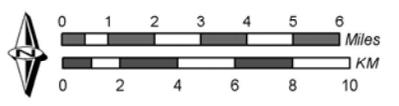


- Map Explanation**
-  Management Zone Boundary
  -  Rivers & Streams
  -  Recycled Water Discharge Location



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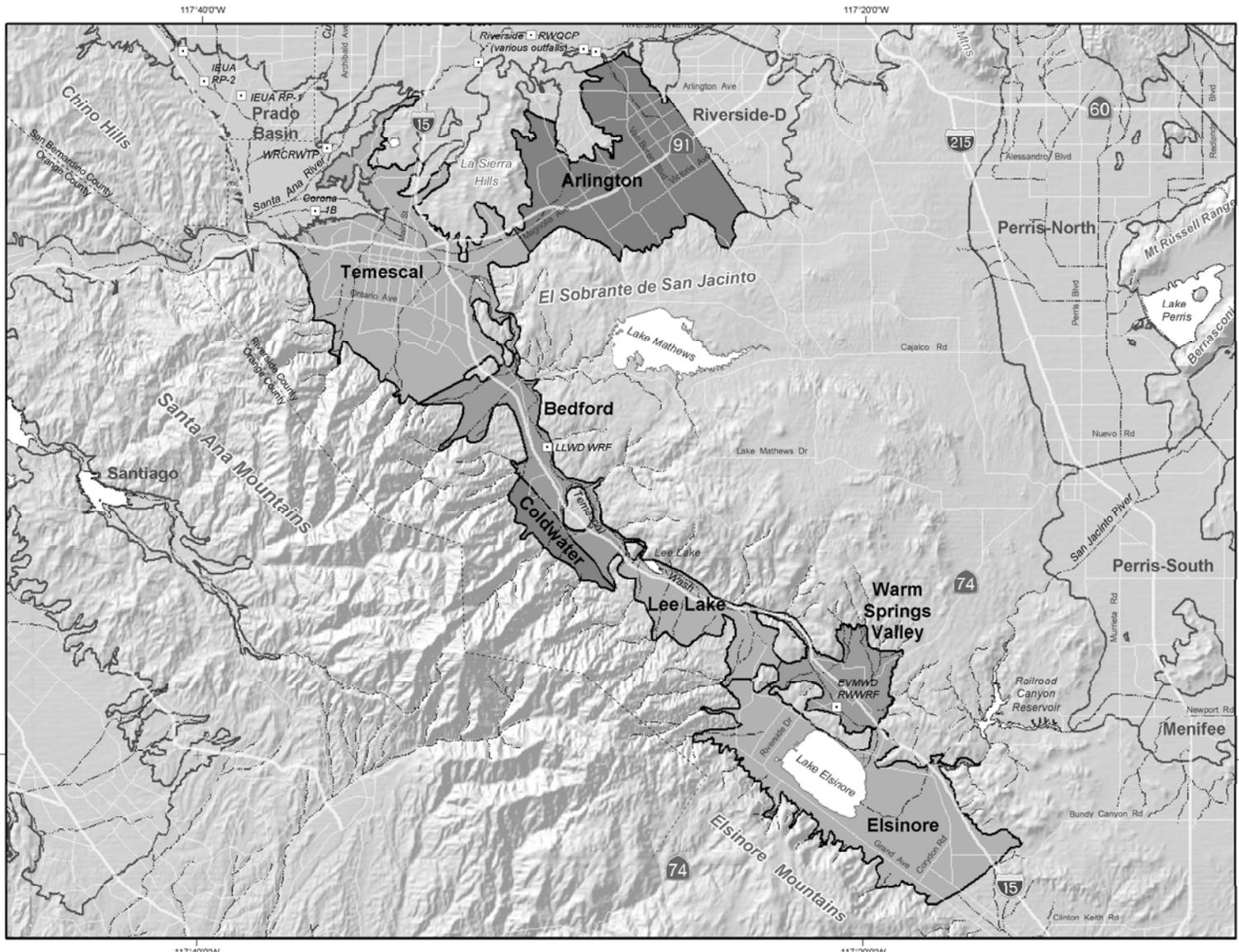
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**Management Zone Boundaries**  
 Chino (Anti-degradation), Rialto-Colton,  
 & Riverside Basins

**Figure 3-5b**

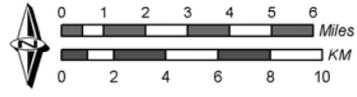


- Map Explanation**
-  Management Zone Boundary
  -  Rivers & Streams
  -  Recycled Water Discharge Location



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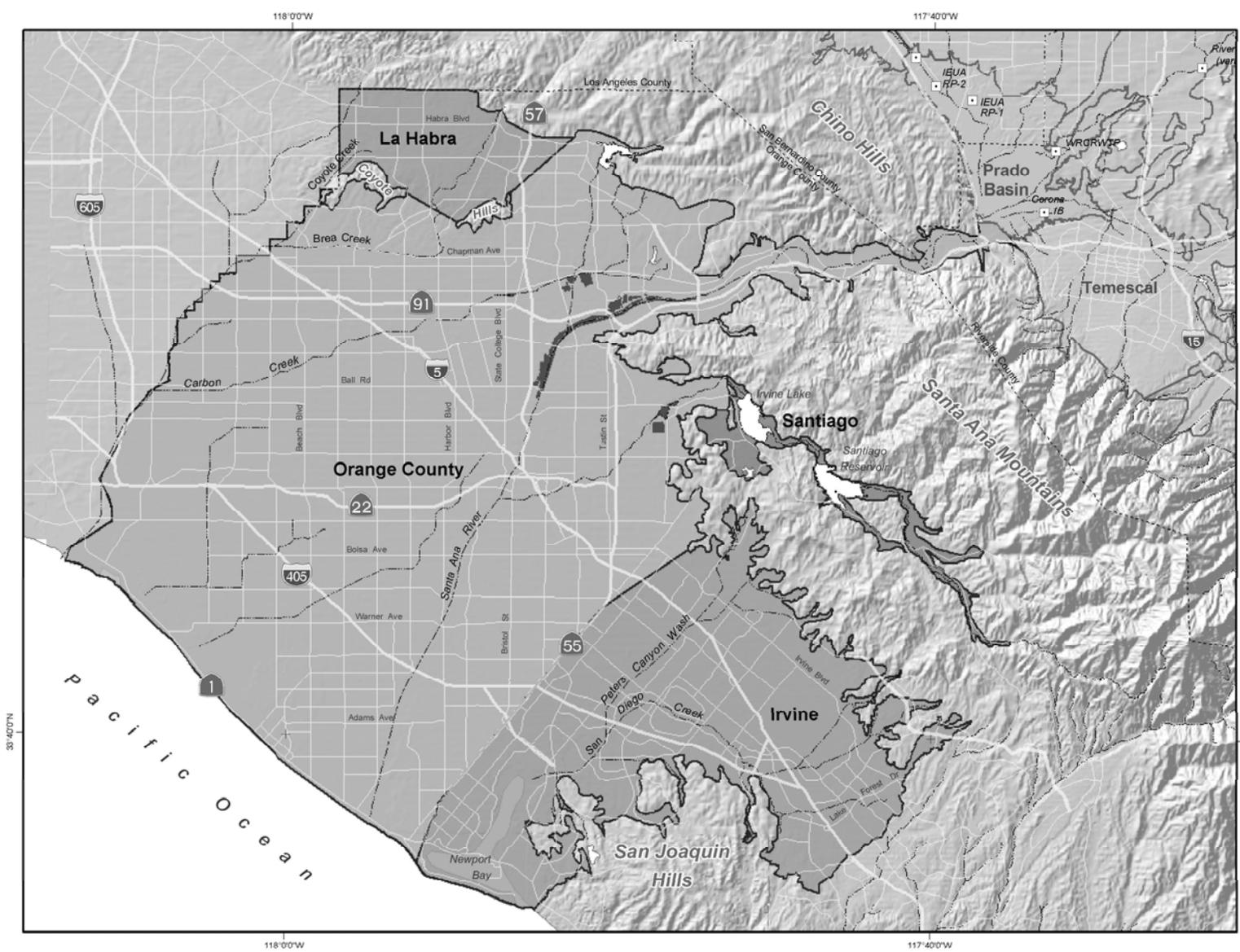
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**Management Zone Boundaries**  
 Elsinore/Temescal Valleys

**Figure 3-6**

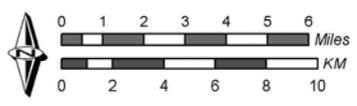


- Map Explanation**
-  Management Zone Boundary
  -  Rivers & Streams
  -  Recycled Water Discharge Location
  -  Orange County Water District Forebay Recharge Facilities



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**Management Zone Boundaries**  
 Orange County Basins

**Figure 3-7**

## BENEFICIAL USE TABLE

Table 3-1 lists the designated beneficial uses for waterbodies within the Santa Ana Region. In this table, an “X” indicates that the waterbody has an existing or potential use. Many of the existing uses are well-known; some are not. Lakes and streams may have potential beneficial uses established because plans already exist to put the water to those uses, or because conditions (*e.g.*, location, demand) make such future use likely. The establishment of a potential beneficial use serves to protect the quality of that water for such eventual use.

An “I” in Table 3-1 indicates that the waterbody has an intermittent beneficial use. This may occur because water conditions do not allow the beneficial use to exist year-round. The most common example of this is an ephemeral stream. Ephemeral streams in this region include, at one extreme, those which flow only while it is raining or for a short time afterward, and at the other extreme, established streams which flow through part of the year but also dry up for part of the year. While such ephemeral streams are flowing, beneficial uses are made of the water. Because such uses depend on the presence of water, they are intermittent. Waste discharges which could impair intermittent beneficial uses, whether they are made while those uses exist or not, are not permitted.

A “+” in the **MUN** column in Table 3-1 indicates that the waterbody has been specifically excepted from the **MUN** designation in accordance with the criteria specified in the “Sources of Drinking Water Policy.”

The listing of waters within the basin attempts to include all significant surface streams and bodies of water, as well as the significant groundwater basins and subbasins which are receiving waters. Specific waters which are not listed have the same beneficial uses as the streams, lakes or reservoirs to which they are tributary or the groundwater basins or subbasin to which they are tributary or overlies.

## REFERENCES

The Federal Clean Water Act, 33 USC 466 *et seq.*

California State Water Resources Control Board, Resolution No. 88-63, “Sources of Drinking Water Policy,” adopted May 19, 1988.

California Regional Water Quality Control Board, Santa Ana Region, Resolution No. 89-42, “Incorporation of ‘Sources of Drinking Water’ Policy into the Water Quality Control Plan (Basin Plan),” adopted March 10, 1989.

California Regional Water Quality Control Board, Santa Ana Region, Resolution No. 89-99, “Adoption of Revised Table of Beneficial Uses,” adopted July 14, 1989.

California Water Code, Section 13000, “Water Quality” *et seq.*

City of Big Bear Department of Water and Power, "Final Report – Task 4, Revised Water Quality Objectives, Big Bear Ground Water Basins," April 1993.

United States Environmental Protection Agency "National Guidance-Water Quality Standards for Wetlands," EPA 440/s-90-011, July 1990.

Governor Pete Wilson, "California Wetlands Conservation Policy," August, 1993.



**REGION 8 INDEX**

801.00	SANTA ANA RIVER HYDROLOGIC UNIT	802.00	SAN JACINTO VALLEY HYDROLOGIC UNIT
801.10	Lower Santa Ana River HA	802.10	Perris HA
1.11	East Coastal Plain HSA	2.11	Perris Valley HSA
1.12	Santiago HSA	2.12	Menifee HSA
1.13	Santa Ana Narrows HSA	2.13	Winchester HSA
801.20	Middle Santa Ana River HA Split	2.14	Lakeview HSA
801.21	Chino HSA Split	2.15	Hemet HSA
481.21	Chino HSA Split	802.20	San Jacinto HA
481.22	Harrison HSA	2.21	Gilman Hot Springs HSA
801.23	Claremont Heights HSA Split	2.22	Hemet Lake HSA
481.23	Claremont Heights HSA Split	2.23	Bautista HSA
801.24	Cucamonga HSA	802.30	Elsinore Valley HA
1.25	Temescal HSA	2.31	Elsinore HSA
1.26	Arlington HSA	2.32	Railroad HSA
1.27	Riverside HSA		
801.30	Lake Matthews HA	805.00	LOS ANGELES-SAN GABRIEL RIVER HYDROLOGIC UNIT
1.31	Coldwater HSA	805.10	Coastal Plain of Los Angeles County HA Split
1.32	Bedford HSA	845.15	Central HSA Split
1.33	Cajalco HSA	845.60	Anaheim HA Split
1.34	Lee Lake HSA	845.61	Anaheim HSA Split
1.35	Terra Colta HSA	845.62	La Habra HSA Split
801.40	Colton-Rialto HA	845.63	Yorba Linda HSA Split
1.41	Upper Lytle HSA		
1.42	Lower Lytle HSA		
1.43	Rialto HSA		
1.44	Colton HSA		
1.45	Reche HSA		
801.50	Upper Santa Ana River HA		
1.51	Cajon HSA		
1.52	Bunker Hill HSA		
1.53	Redlands HSA		
1.54	Mentone HSA		
1.55	Reservoir HSA		
1.56	Crafton HSA		
1.57	Santa Ana Canyon HSA		
1.58	Mill Creek HSA		
1.59	Sycamore HSA		
801.60	San Timoteo HA		
1.61	Yucaipa HSA		
1.62	Beaumont HSA		
1.63	Cherry Valley HSA		
1.64	Chicken Hill HSA		
1.65	Gateway HSA		
1.66	Oak Glen HSA		
1.67	South Mesa HSA		
1.68	Triple Falls Creek HSA		
1.69	Nobie Creek HSA		
801.70	San Bernardino Mountain HA		
1.71	Bear Valley HA		
1.72	Seven Oaks HSA		
1.73	Baldwin HSA		

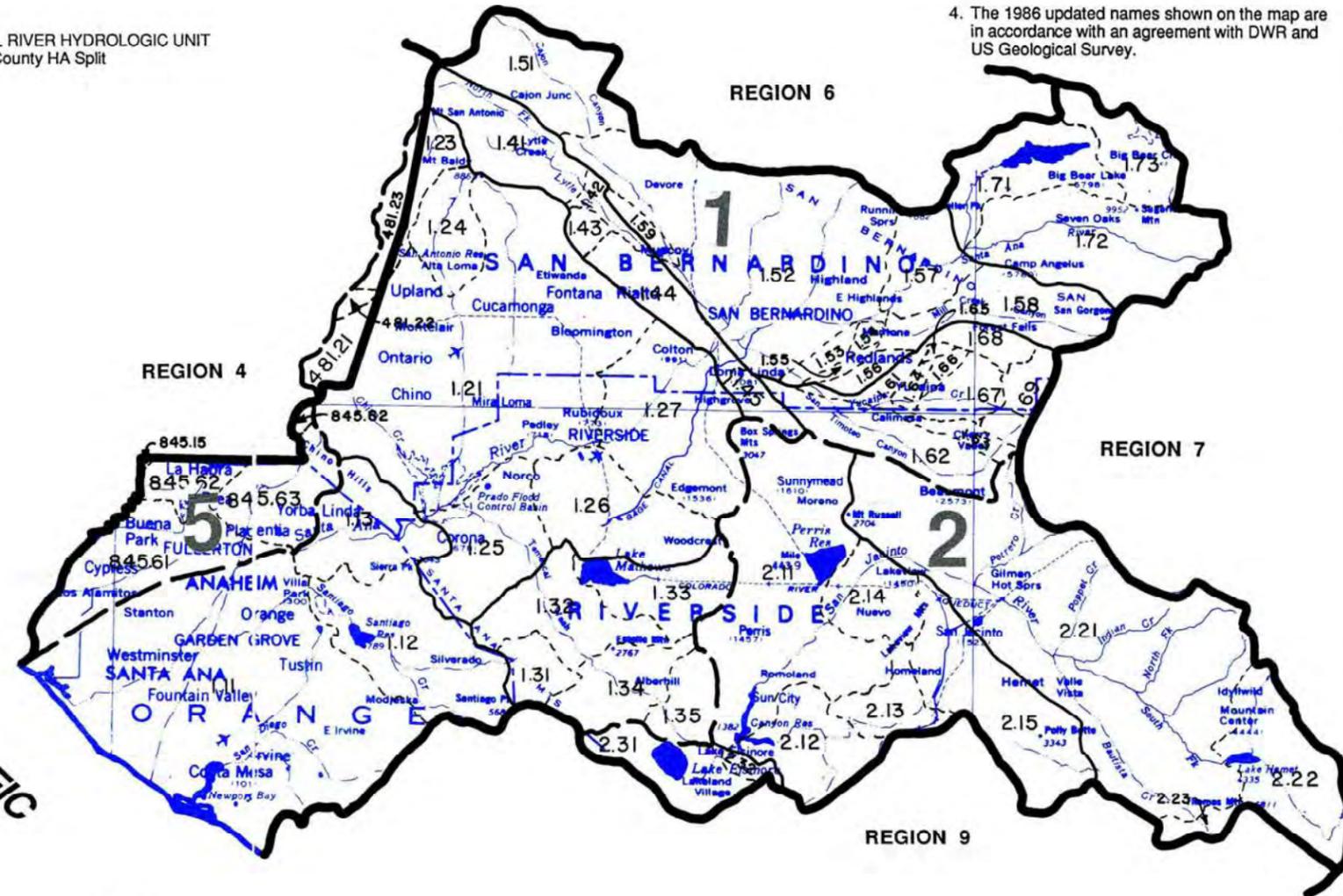
802.00	SAN JACINTO VALLEY HYDROLOGIC UNIT
802.10	Perris HA
2.11	Perris Valley HSA
2.12	Menifee HSA
2.13	Winchester HSA
2.14	Lakeview HSA
2.15	Hemet HSA
802.20	San Jacinto HA
2.21	Gilman Hot Springs HSA
2.22	Hemet Lake HSA
2.23	Bautista HSA
802.30	Elsinore Valley HA
2.31	Elsinore HSA
2.32	Railroad HSA
805.00	LOS ANGELES-SAN GABRIEL RIVER HYDROLOGIC UNIT
805.10	Coastal Plain of Los Angeles County HA Split
845.15	Central HSA Split
845.60	Anaheim HA Split
845.61	Anaheim HSA Split
845.62	La Habra HSA Split
845.63	Yorba Linda HSA Split

**NOTE:**

- The names and areas shown on this map are the same as used by the Department of Water Resources (DWR) in their Bulletin 130 Series except as explained below.
- The numbering system used on this map is an adaptation of the numbering system used in the 130 Series.

- The boundary between Region 8 and Region 4 follows the boundary between Los Angeles County and Orange or San Bernardino Counties, not the Hydrologic Boundary. The San Bernardino County line splits Hydrologic Unit 1 (Santa Ana River HU) so that Sub-Areas 481.21, 481.22, and 481.23 are legally in Region 4 but drain into Region 8. The Orange County line splits Hydrologic Unit 5 (Los Angeles-San Gabriel River HU) so that Sub-Areas 845.15, 845.61, 845.62 and 845.63 are legally in Region 8 but drain into Region 4. Therefore, a 5 digit number on the map indicates that a regional boundary divides a hydrologic unit, area or subarea. In these cases the second digit is the number of the region from which the hydrologic area has been separated by the regional boundary. All other digits are as described in the legend.

- The 1986 updated names shown on the map are in accordance with an agreement with DWR and US Geological Survey.



**KEY TO REGION**

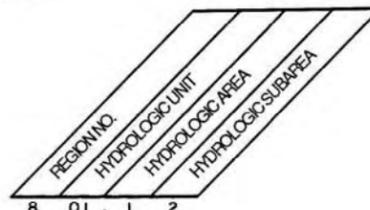


**LEGEND**

- STREAM
- REGIONAL BOUNDARY
- HYDROLOGIC UNIT BOUNDARY (HU)
- HYDROLOGIC AREA BOUNDARY (HA)
- HYDROLOGIC SUBAREA BOUNDARY (SA)

**5**

HYDROLOGIC UNIT NUMBER



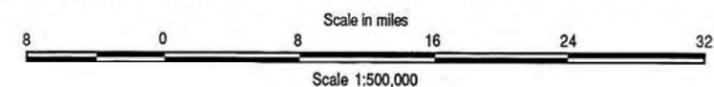
April 1973  
Revised: July 1976  
Revised: August 1986

State Water Resources Control Board  
Surveillance and Monitoring Section  
T.E. Lavenda, P.E. *T.E. Lavenda*

State of California  
**REGIONAL WATER QUALITY CONTROL BOARD**

**Santa Ana Region (8)**

**SANTA ANA HYDROLOGIC BASIN PLANNING AREA (SA)**





**Table 3-1 BENEFICIAL USES - Continued**

OCEAN WATERS	BENEFICIAL USE																			Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL	EST	Primary	Secondary
<b>NEARSHORE ZONE*</b>																						
San Gabriel River to Poppy Street in Corona Del Mar	+		X			X		X	X	X					X	X	X	X	X		801.11	
Poppy Street to Southeast Regional Boundary	+					X		X	X	X				X	X	X	X	X	X		801.11	
<b>OFFSHORE ZONE</b>																						
Waters Between Nearshore Zone and Limit of State Waters	+		X			X		X	X	X					X	X	X	X				

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

\* Defined by Ocean Plan Chapter II B-1.: "Within a zone bounded by shoreline and a distance of 1000 feet from shoreline or the 30-foot depth contour, whichever is further from shoreline..."

**Table 3-1 BENEFICIAL USES - Continued**

BAYS, ESTUARIES, AND TIDAL PRISMS	BENEFICIAL USE																		Hydrologic Unit			
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	MAR	SHEL	EST	Primary	Secondary
Anaheim Bay – Outer Bay	+					X		X <sup>1</sup>	X					X	X	X	X	X			801.11	
Anaheim Bay – Seal Beach National Wildlife Refuge	+							X	X	X				X	X	X	X	X		X	801.11	
Sunset Bay – Huntington Harbor	+					X		X	X	X					X	X	X	X			801.11	
Bolsa Bay	+							X	X	X				X	X	X	X	X	X			
Bolas Chica Ecological Reserve	+							X	X					X	X	X	X	X		X	801.11	
Lower Newport Bay	+					X		X	X	X					X	X	X	X	X		801.11	
Upper Newport Bay	+							X	X	X				X	X	X	X	X	X	X	801.11	
Santa Ana River Salt Marsh	+							X	X					X	X	X		X		X	801.11	
Tidal Prism of Santa Ana River (to within 1000' of Victoria Street) and Newport Slough	+							X	X	X					X	X		X			801.11	
Tidal Prism of San Gabriel River - River Mouth to Marina Drive	+		X					X	X	X					X	X		X	X	X	845.61	
Tidal Prisms of Flood Control Channels Discharging to Coastal or Bay Waters <sup>1</sup>	+							X	X	X					X			X			801.11	

X Present or Potential Beneficial Use  
I Intermittent Beneficial Use  
+ Excepted from MUN (see text)

<sup>1</sup> No access per agency with jurisdiction (U.S. Navy)

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
<b>LOWER SANTA ANA RIVER BASIN</b>																				
Santa Ana River																				
Reach 1 – Tidal Prism to 17 <sup>th</sup> Street in Santa Ana	+							X <sup>2</sup>	X		I				I				801.11	
Reach 2 – 17 <sup>th</sup> Street in Santa Ana to Prado Dam	+	X			X			X	X		X				X	X			801.11	801.12
Aliso Creek	X				X			X	X		X				X	X			845.63	
Carbon Canyon Creek	X				X			X	X		X				X	X			845.63	
Santiago Creek Drainage																				
Santiago Creek																				
Reach 1 – below Irvine Lake	X				X			X <sup>2</sup>	X		X				X				801.12	801.11
Reach 2 – Irvine Lake (see Lakes, pg. 3-23)																				
Reach 3 – Irvine Lake to Modjeska Canyon	I				I			I	I		I				I				801.12	
Reach 4 – Modjeska Canyon	X				X			X	X		X				X				801.12	
Silverado Creek	X				X			X	X		X				X				801.12	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

<sup>2</sup> Access prohibited in all or part by Orange County Resources Development and Management Division (RDMD)

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
<b>LOWER SANTA ANA RIVER BASIN</b>																				
Santiago Creek Drainage																				
Black Star																			801.12	
Ladd Creek																			801.12	
San Diego Creek Drainage																				
San Diego Creek																				
Reach 1 – below Jeffrey Road	+							X <sup>2</sup>	X		X				X				801.11	
Reach 2 – above Jeffrey Road to Headwaters	+																		801.11	
Other Tributaries: Bonita Creek, Serrano Creek, Peters Canyon Wash, Hicks Canyon Wash, Bee Canyon Wash, Rattlesnake Canyon Wash, Sand Canyon Wash*, and other Tributaries to these Creeks	+																		801.11	
San Gabriel River Drainage																				
Coyote Creek (within Santa Ana Regional boundary)	X							X	X		X				X					

X Present or Potential Beneficial Use  
 | Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

<sup>2</sup> Access prohibited in all or part by Orange County Resources Development and Management Division (RDMD)  
 \* Sand Canyon Wash also has RARE Beneficial Use

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
<b>UPPER SANTA ANA RIVER BASIN</b>																				
Santa Ana River																				
Reach 3 – Prado Dam to Mission Blvd. in Riverside	+	X			X			X	X		X				X	X	X		801.21	801.21, 801.25
Reach 4 – Mission Blvd. in Riverside to San Jacinto Fault in San Bernardino	+				X			X <sup>3</sup>	X		X				X		X		801.27	801.44
Reach 5 – San Jacinto Fault in Bernardino to Seven Oaks Dam <sup>†</sup>	X*	X			X			X <sup>3</sup>	X		X				X	X			801.52	801.57
Reach 6 – Seven Oaks Dam to Headwaters (see also Individual Tributary Streams)	X	X			X		X	X	X			X		X			X		801.72	
San Bernardino Mountain Streams																				
Mill Creek Drainage:																				
Reach 1 – Confluence with Santa Ana River to Bridge Crossing Route 38 at Upper Powerhouse	I	I			I			I	I		X		I		I	I			801.58	
Reach 2 – Bridge Crossing Route 38 at Upper Powerhouse Headwaters	X	X			X		X	X	X						X				801.58	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

\* **MUN** applies upstream of Orange Avenue (Redlands); downstream, water is excerpted from **MUN**  
<sup>†</sup> Reach 5 uses are intermittent upstream of Waterman Avenue  
<sup>3</sup> Access prohibited in some portions by San Bernardino County Flood Control

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Mountain Home Creek	X				X		X	X	X				X		X				801.58	
Mountain Home Creek, East Fork	X				X	X	X	X	X				X		X		X		801.70	
Monkey Face Creek	X				X			X	X				X		X				801.70	
Alger Creek	X				X			X	X				X		X				801.70	
Falls Creek	X				X		X	X	X				X		X				801.70	
Vivian Creek	X				X			X	X				X		X				801.70	
High Creek	X				X			X	X				X		X				801.70	
Other Tributaries: Lost, Oak Green, Skinner, Momyer, Glen Martin, Camp, Hatchery, Rattlesnake, Slide, Snow, Bridal Vail, and Oak Creeks and other Tributaries to these Creeks	I				I			I	I				I		I				801.71	
Bear Creek Drainage:																				
Bear Creek	X				X		X	X	X				X		X	X	X		801.71	
Siberia Creek	X				X			X	X				X		X		X		801.71	
Slide Creek	I				I			I	I				I		I				801.71	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
All other Tributaries to these Creeks	I				I			I	I				I		I				801.71	
Big Bear Lake (see Lakes, pg. 3-23)																				
Big Bear Lake Tributaries:																				
North Creek	X				X			X	X				X		X		X		801.71	
Metcalf Creek	X				X			X	X				X		X		X		801.71	
Grout Creek	X				X			X	X				X		X		X		801.71	
Rathbone (Rathbun) Creek	X				X			X	X				X		X				801.71	
Meadow Creek	X				X			X	X				X		X				801.71	
Summit Creek	I				I			I	I				I		I				801.71	
Other Tributaries to Big Bear Lake: Knickerbocker, Johnson, Minnelusa, Polique, and Red Ant Creeks and other Tributaries to these Creeks	I				I			I	I				I		I				801.71	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Baldwin Lake (see Lakes, pg. 3-23)																				
Baldwin Lake Drainage:																				
Shay Creek	X				X			X	X				X		X	X			801.73	
Other Tributaries to Baldwin Lake: Sawmill, Green, and Caribou Canyons and other Tributaries to these Creeks	I				I			I	I				I		I				801.73	
Other Streams Draining to Santa Ana River (Mountain Reaches <sup>‡</sup> )																				
Cajon Creek	X				X			X	X				X		X	X			801.52	801.51
City Creek	X	X			X			X	X				X		X	X	X		801.57	
Devil Canyon Creek	X				X			X	X				X		X				801.57	
East Twin and Strawberry Creeks	X	X			X			X	X				X		X		X		801.57	
Waterman Canyon Creek	X				X			X	X				X		X				801.57	
Fish Creek	X				X			X	X				X		X		X		801.57	
Forsee Creek	X				X			X	X				X		X		X		801.72	
Plunge Creek	X	X			X			X	X				X		X	X			801.72	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

<sup>‡</sup> The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Barton Creek	X	X			X			X	X				X		X				801.72	
Bailey Canyon Creek	I				I			I	I				I		I				801.72	
Kimbark Canyon, East Fork, Kimbark Canyon, Ames Canyon and West Fork Cable Creeks	X				X			X	X		X		X		X				801.52	
Valley Reaches <sup>†</sup> of Above Streams	I				I			I	I				I		I				801.52	
Other Tributaries (Mountain Reaches <sup>†</sup> ): Alder, Badger Canyon, Bledsoe Gulch, Borea Canyon, Breakneck, Cable Canyon, Cienega Seca, Cold, Converse, Coon, Crystal, Deer, Elder, Fredalba, Frog, Government, Hamilton, Heart Bar, Hemlock, Keller, Kilpecker, Little Mill, Little Sand Canyon, Lost, Meyer Canyon, Mile, Monore Canyon, Oak, Rattlesnake, Round Cienga, Sand, Schneider, Staircase, Warm Springs Canyon, and Wild Horse Creeks and other Tributaries to these Creeks	I				I			I	I				I		I				801.72	801.71, 801.57

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

<sup>†</sup> The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
San Gabriel Mountains Streams (Mountain Reaches <sup>†</sup> )																				
San Antonio Creek	X	X	X	X	X		X	X	X				X		X				801.23	
Lytle Creek (South, Middle, and North Forks) and Coldwater Canyon Creek	X	X	X	X	X		X	X	X				X		X	X			801.41	801.42, 801.52, 801.59
Day Creek	X			X	X			X	X				X		X				801.21	
East Etiwanda Creek	X			X	X			X	X				X		X	X			801.21	
Valley Reaches <sup>‡</sup> of Above Steams	I				I			I	I		I				I				801.21	
Cucamonga Creek																				
Reach 1 – Confluence with Mill Creek to 23 rd St. in Upland	+				X			X <sup>3</sup>	X			X			X				801.21	
Reach 2 (Mountain Reach <sup>†</sup> ) - 23 rd St. In Upland to headwaters	X				X		X	X	X				X		X		X		801.24	
Mill Creek (Prado Area)	+							X	X		X				X	X			801.25	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

<sup>†</sup> The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

<sup>3</sup> Access prohibited in some portions by San Bernardino County Flood Control

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Other Tributaries (Mountain Reaches †): Cajon Canyon, San Sevaine, Deer, Duncan Canyon, Henderson Canyon, Bull, Fan, Demens, Thorpe, Angalls, Telegraph Canyon, Stoddard Canyon, Icehouse Canyon, Cascade Canyon, Cedar, Failing Rock, Kerkhoff, and Cherry Creeks and other Tributaries to these Creeks	I				I			I	I				I						801.21	801.23
San Timoteo Area Streams																				
San Timoteo Creek																				
Reach 1A – Santa Ana River Confluence to Barton Road	+	I					I <sup>3</sup>	I		I				I					801.52	
Reach 1B – Barton Road to Gage at San Timoteo Canyon Rd	+	I			I		I <sup>3</sup>	I		I				I					801.52	
Reach 2–Gage at San Timoteo to confluence with Yucaipa Creek	+				X		X <sup>3</sup>	X		X				X					801.61	
Reach 3 – Confluence with Yucaipa Creek to confluence with little San Gorgonio and Noble Creeks (Headwaters of San Timoteo Creek)	+				X		X	X		X				X	X				801.61	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

† The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

<sup>3</sup> Access prohibited in some portions by San Bernardino County Flood Control

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Oak Glen, Potato Canyon, and Birch Creeks	X				X			X	X		X				X				801.67	
Little San Gorgonio Creek	X				X			X	X				X		X				801.69	801.62, 801.63
Yucaipa Creek	I				I			I	I		I				I				801.67	801.61, 801.62, 801.64
Other Tributaries to these Creeks-Valley Reaches <sup>‡</sup>	I				I			I	I		I				I				801.62	801.52, 801.53
Other Tributaries to these Creek Creek-Mountain Reaches <sup>‡</sup>	I				I			I	I				I		I				801.69	801.67
Anza Park Drain	X							X	X		X				X		X		801.27	
Sunnyslope Channel	X							X	X		X				X		X		801.27	
Tequesquite Arroyo (Sycamore Creek)	+				X			X	X		X				X		X		801.27	
Prado Area Streams																				
Chino Creek																				
Reach 1A – Santa Ana River confluence to downstream of confluence with Mill Creek (Prado Area)	+							X	X		X				X	X			801.21	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excerpted from MUN (see text)

<sup>‡</sup> The division between Mountain and Valley reaches occurs at the base of the foothills of the San Bernardino or San Gabriel Mountains

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 1B – Confluence with Mill Creek (Prado Area) to beginning of concrete lined channel south of Los Serranos Rd.**	+							X	X		X				X	X			801.21	
Reach 2 – Beginning of concrete lined south of Los Serranos Rd. to confluence with San Antonio Creek	+				X			X <sup>3</sup>	X				X		X				801.21	
Temescal Creek																				
Reach 1 – Lincoln Ave. to Riverside Canal	+							X <sup>4</sup>	X		X				X				801.25	
Reach 2 – Riverside Canal to Lee Lake	+	I	I		I			I	I			I							801.32	801.25
Reach 3 – Lee Lake (see Lakes, Pg. 3-36)																				
Reach 4 – Lee Lake to Mid-Section line of Section 17 (downstream end of freeway cut)	+	I			I			I	I		I				I	X			801.34	
Reach 5 – Mid-section line of Section 17 (downstream end of Freeway cut) to Elsinore Groundwater Subbasin Boundary	+	X			X			X	X		X				X	X			801.35	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Exempted from MUN (see text)

\*\* The confluence of Mill Creek is in Chino Creek, Reach 1B  
<sup>3</sup> Access prohibited in some portions by San Bernardino County Flood Control District  
<sup>4</sup> Access prohibited in some portions by Riverside County Flood Control District

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Reach 6 – Elsinore Groundwater Subbasin Boundary to Lake Elsinore Outlet	+																		801.35	
Coldwater Canyon Creek	X	X			X			X	X		X				X				801.32	
Bedford Canyon Creek	+																		801.32	
Dawson Canyon Creek																			801.32	
Other Tributaries to these Creeks																			801.32	
<b>SAN JACINTO RIVER BASIN</b>																				
San Jacinto River																				
Reach 1 – Lake Elsinore to Canyon Lake																			801.32	802.31
Reach 2 – Canyon Lake (see Lakes, Pg. 3-24)																				
Reach 3 – Canyon Lake to Nuevo Road	+																		802.11	
Reach 4 – Nuveo Road to North-South Mid-Section Line, T4S/R1W-S8	+																		802.14	802.21
Reach 5 – North-South Mid-Section Line, T4S/R1 W-S8, to Confluence with Poppet Creek	+																		802.21	

X Present or Potential Beneficial Use  
 | Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

INLAND SURFACE STREAMS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE*	SPWN	EST	Primary	Secondary
Reach 6 – Poppet Creek to Cranston Bridge	I	I			I			I	I		I				I				802.21	
Reach 7 – Cranston Bridge to Lake Hemet	X	X			X			X	X				X		X				801.21	
Bautista Creek – Headwaters to Debris Dam	X	X			X			X	X				X		X				802.21	802.23
Strawberry Creek and San Jacinto River, North Fork	X	X			X			X	X				X		X				801.21	
Fuller Mill Creek	X	X			X			X	X				X		X				802.22	
Stone Creek	X	X			X			X	X				X		X				802.21	
Salt Creek	+							I	I		I				I				802.12	
Other Tributaries: Logan, Black Mountain, Juaro Canyon, Indian, Hurkey, Poppet, and Protrero Creeks and other Tributaries to these Creeks	I	I			I			I	I		I				I				802.21	802.22

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

LAKES AND RESERVOIRS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
<b>UPPER SANTA ANA RIVER BASIN</b>																				
Baldwin Lake	+							I	I		I		I	I	I	I			801.73	
Big Bear Lake	X	X			X			X	X		X		X		X	X			801.71	
Erwin Lake	X							X	X				X	X	X	X			801.73	
Evans, Lake	+							X	X		X		X		X				801.27	
Jenks Lake	X	X			X			X	X				X		X				801.72	
Lee Lake	+	X	X		X			X	X		X				X				802.34	
Mathews, Lake	X	X	X	X	X			X <sup>5</sup>	X		X				X	X			802.33	
Mockingbird Reservoir	+	X						X <sup>6</sup>	X		X				X				802.26	
Norconian, Lake	+							X	X		X				X				802.25	
<b>LOWER SANTA ANA RIVER BASIN</b>																				
Anaheim Lake	+				X			X	X		X				X				801.11	
Irvine Lake (Santiago Reservoir)	X	X						X	X		X				X				801.12	
Laguna, Lambert, Peters Canyon, Rattlesnake, Sand Canyon, and Siphon Reservoirs	+	X						X <sup>7</sup>	X		X				X				801.11	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Exempted from MUN (see text)

<sup>5</sup> Access prohibited by the Metropolitan Water District.

<sup>6</sup> Access prohibited by the Gage Canal Company (owner-operator)

<sup>7</sup> Access prohibited by the Irvine Company and/or the Irvine Ranch Water District

**Table 3-1 BENEFICIAL USES - Continued**

LAKES AND RESERVOIRS	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE*	SPWN	EST	Primary	Secondary
<b>SAN JACINTO RIVER BASIN</b>																				
Canyon Lake (Railroad Canyon Reservoir)	X	X			X			X	X		X				X				802.11	802.12
Elsinore, Lake	+							X	X		X				X				802.31	
Fulmor, Lake	X	X						X	X		X		X		X				802.21	
Hemet, Lake	X	X			X		X	X	X		X		X		X		X		802.22	
Perris, Lake	X	X	X	X	X			X	X	X	X		X		X				802.11	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

WETLANDS (INLAND)	BENEFICIAL USE																	Hydrologic Unit		
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
San Joaquin Freshwater Marsh**	+						X	X		X				X	X	X			801.11	801.14
Shay Meadows	I						I	I				I			I				801.73	
Stanfield Marsh**	X						X	X				X			X	X			801.71	
Prado Basin Management Zone <sup>@</sup>	+						X	X		X					X	X			802.21	
San Jacinto Wildlife Preserve**	+						X	X		X				X	X	X			802.21	802.14
Gen Helen	X						X	X		X					X				801.59	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

\*\* This is a created wetland as defined in the wetland discussion  
<sup>@</sup> The Prado Basin Management Zone includes the Prado Flood Control Basin, a created wetland as defined in the Basin Plan (see Chapter 3, pages 3-4 through 3-7)

**Table 3-1 BENEFICIAL USES - Continued**

GROUNDWATER MANAGEMENT ZONES	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
UPPER SANTA ANA RIVER BASIN																				
Big Bear Valley	X			X															801.71	801.73
Beaumont	X	X	X	X															801.62	801.63, 801.69
Bunker Hill - A	X	X	X	X															801.52	801.52
Bunker Hill - B	X	X	X	X															802.52	801.53, 801.54, 801.57, 801.58
Colton	X	X	X	X															801.44	801.45
Chino North "maximum benefit"++	X	X	X	X															801.21	481.21, 481.23
Chino 1 – "antidegradation"++	X	X	X	X															801.21	481.21
Chino 2 – "antidegradation"++	X	X	X	X															801.21	
Chino 3 – "antidegradation"++	X	X	X	X															801.21	
Chino East @	X	X	X	X															801.21	801.27
Chino South @	X	X	X	X															801.21	801.25, 801.26
Cucamonga	X	X	X	X															801.24	801.21

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

++ Chino North "maximum benefit" management zone applies unless Regional Board determines that lowering of water quality is not of maximum benefit to the people of the state; in that case, the Chino 1, 2, and 3 "antidegradation" management zones would apply (see also discussion in Chapter 5).

@ Chino East and South are the designations in the Chino Basin Watermaster "maximum benefit" proposal (see Chapter 5) for the management zones identified by Wildermuth Environmental, Inc. (July 2000) as Chino 4 and 5, respectively.

**Table 3-1 BENEFICIAL USES - Continued**

GROUNDWATER MANAGEMENT ZONES	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Lytle	X	X	X	X															801.59	801.42
Rialto	X	X	X	X															801.44	801.21, 801.43
San Timoteo	X	X	X	X															801.62	801.61
Yucaipa	X	X	X	X															801.61	801.55, 801.63, 801.67
<b>MIDDLE SANTA ANA RIVER BASIN</b>																				
Arlington	X	X	X	X															801.26	
Bedford	X	X	X	X															801.32	481.31
Coldwater	X	X	X	X															801.31	
Elsinore	X	X		X															802.31	
Lee Lake	X	X	X	X															801.34	
Riverside - A	X	X	X	X															801.27	801.44
Riverside - B	X	X	X	X															801.27	801.44
Riverside - C	X	X	X	X															801.27	
Riverside - D	X	X	X	X															801.27	801.26
Riverside - E	X	X	X	X															801.27	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

GROUNDWATER MANAGEMENT ZONES	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
Riverside - F	X	X	X	X															801.27	
Temescal	X	X	X	X															801.25	
<b>SAN JACINTO RIVER BASIN</b>																				
Garner Valley	X	X																	802.22	
Idyllwild Area	X		X																802.22	802.21
Canyon	X	X	X	X															802.21	
Hemet - South	X	X	X	X															802.15	802.13, 802.21
Lakeview – Hemet North	X	X	X	X															802.14	802.15
Meniffee	X	X		X															802.13	
Perris North	X	X	X	X															802.11	
Perris South	X	X																	802.11	802.12, 802.13
San Jacinto - Lower	X	X	X																802.21	802.11
San Jacinto - Upper	X	X	X	X															802.27	802.23

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)

**Table 3-1 BENEFICIAL USES - Continued**

GROUNDWATER MANAGEMENT ZONES	BENEFICIAL USE																		Hydrologic Unit	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST	Primary	Secondary
<b>LOWER SANTA ANA RIVER BASIN</b>																				
La Habra	X	X																	845.62	
Santiago	X	X	X																801.12	801.11
Orange	X	X	X	X															801.11	801.13, 801.14 845.61, 845.63
Irvine	X	X	X	X															801.11	

X Present or Potential Beneficial Use  
 I Intermittent Beneficial Use  
 + Excepted from MUN (see text)