ATTACHMENT A

Amendment to the Water Quality Control Plan to Incorporate Site-Specific Chloride Objectives for Reach 6 of the Los Angeles River

The amendment to Chapter 3 of the Basin Plan for the Los Angeles Regions revises the water quality objective for the Los Angeles River and tributaries upstream of the Sepulveda Flood Control Basin in Table 3-10 to 190 mg/L.

Table 3-10. Water Quality Objectives for Selected Constituents in Inland Surface Waters[a].

Reaches are in upstream to downstream order.

WATERSHED/STREAM REACH[b]	TDS (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Boron[c] (mg/L)	Nitrogen[d] (mg/L)	SAR[e] (mg/L)
Miscellaneous Ventura Coastal Streams	*no waterbody specific objectives* [f]					
Ventura River Watershed:						
Above Camino Cielo Road	700	300	50	1.0	5	5
Between Camino Cielo Road and Casitas Vista Road	800	300	60	1.0	5	5
Between Casitas Vista Road and confluence with Weldon Canyon	1000	300	60	1.0	5	5
Between confluence with Weldon Canyon and Main Street	1500	500	300	1.5	10	5
Between Main St. and Ventura River Estuary	*no waterbody specific objectives* [f]					
Santa Clara River Watershed:						
Above Lang gaging station	500	100	50	0.5	5	5
Between Lang gaging station and Bouquet Canyon Road Bridge	800	150	100	1.0	5	5
Between Bouquet Canyon Road Bridge and West Pier Highway 99	1000	300	100[m]	1.5	10	5
Between West Pier Highway 99 and Blue Cut gaging station	1000	400	100 [m]	1.5	5	10
Between Blue Cut gaging station and Piru Creek	1300	600	100 [m]	1.5	5	5
Between Piru Creek and A Street, Fillmore	1300	600	100	1.5	5	5
Between A Street, Fillmore and Freeman Diversion "Dam" near Saticoy	1300	650	100[l]	1.5	5	5
Between Freeman Diversion "Dam" near Saticoy and Highway 101 Bridge	1200	600	150	1.5	-	-
Between Highway 101 Bridge and Santa Clara River Estuary	*no waterbody specific objectives* [f]					
Santa Paula Creek above Santa Paula Water Works Diversion Dam	600	250	45	1.0	5	5

WATERSHED/STREAM REACH[b]	TDS (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Boron[c] (mg/L)	Nitrogen[d] (mg/L)	SAR[e] (mg/L)
Sespe Creek above gaging station, 500' downstream from Little Sespe Creek	800	320	60	1.5	5	5
Piru Creek above gaging station below Santa Felicia Dam	800	400	60	1.0	5	5
Calleguas Creek Watershed:						
Arroyo Simi and tributaries-upstream Madera Road	850	250	150	1.0	10	f
Arroyo Simi-downstream Madera Road, Arroyo Las Posas, and tributaries	850	250	150	1.0	10	f
Calleguas Creek and tributaries-between Potrero Road and Arroyo Las Posas. Includes Conejo Creek, Arroyo Conejo, and Arroyo Santa Rosa	850	250	150	1.0	10	f
Below Potrero Road	*no waterbody specific objectives*[f]					
Miscellaneous Los Angeles County Coastal Streams	*no waterbody specific objectives*[f]					
Malibu Creek Watershed	2000	500	500	2.0	10	-
Ballona Creek Watershed	*no waterbody specific objectives*[f]					
Dominguez Channel Watershed	*no waterbody specific objectives*[f]					
Los Angeles River Watershed:						
Los Angeles River and tributaries-upstream Sepulveda Flood Control Basin	950	300	190[n]	g	8	g
Los Angeles River-between Sepulveda Flood Control Basin and Figueroa Street. Includes Burbank Western Channel only	950	300	190[k]	g	8	g
Other tributaries to Los Angeles River-between Sepulveda Flood Control Basin and Figueroa Street	950	300	150	g	8	g
Los Angeles River-between Figueroa Street and Los Angeles River Estuary (Willow Street). Includes Rio Hondo below Santa Ana Freeway only[h].	1500	350	190[k]	g	8	g
Other tributaries to Los Angeles River-between Figueroa Street and Los Angeles River Estuary. Includes Arroyo Seco downstream spreading grounds.	1500	350	150	g	8	g
Rio Hondo-between Whittier Narrows Flood Control Basin and Santa Ana Freeway	750	300	180[k]	g	8	g
Rio Hondo-upstream Whittier Narrows Flood Control Basin	750	300	150	g	8	g
Santa Anita Creek above Santa Anita spreading grounds	250	30	10	g	f	g
Eaton Canyon Creek above Eaton Dam	250	30	10	g	f	g
Arroyo Seco above spreading grounds	300	40	15	g	f	g
Big Tujunga Creek above Hansen Dam	350	50	20	g	f	g
Pacoima Awash above Pacoima spreading grounds	250	30	10	g	f	g

WATERSHED/STREAM REACH[b]	TDS (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	Boron[c] (mg/L)	Nitrogen[d] (mg/L)	SAR[e] (mg/L)
San Gabriel River Watershed						
San Gabriel River-Above Morris Dam	250	30	10	0.6	2	2
San Gabriel River-Between Morris Dam and Ramona Blvd.	450	100	100	0.5	8	g
San Gabriel River and tributaries-between Ramona Blvd. and Valley Blvd	750	300	150	*1.0*	8	g
San Gabriel River-between Valley Blvd and Firestone Blvd. Includes Whittier Narrows Flood Control Basin, and San Jose Creek-downstream 71 Freeway only.	750	300	180[k]	*1.0*	8	g
San Jose Creek and tributaries-upstream 71 Freeway.	750	300	150	*1.0*	8	g
San Gabriel River-Between Firestone Blvd. and San Gabriel River Estuary (downstream from Willow Street) Includes Coyote Creek.	*no waterbody specific objectives*[f]					
All other minor San Gabriel Mountain streams tributary to San Gabriel Valley[i]	300	40	15	g	f	g
Island Watercourses:						
Anacapa Island	*no waterbody specific objectives*[f]					
San Nicolas Island	*no waterbody specific objectives*[f]					
Santa Barbara Island	*no waterbody specific objectives*[f]					
Santa Catalina Island	*no waterbody specific objectives*[f]					
San Clemente Island	*no waterbody specific objectives*[f]					
Other Watercourses:						
San Antonio Creek[j]	225	25	6	--	--	--
Chino Creek[j]	--	--	--	--	--	--

a. As part of the State's continuing planning process, data will continue to be collected to support the development of numerical water quality objectives for waterbodies and constituents where sufficient information is presently unavailable. Any new recommendations for water quality objectives will be brought before the Regional Board in the future.

b. All references to watersheds, streams and reaches include all tributaries. Water quality objectives are applied to all waters tributary to those specifically listed in the table. See Figures 2-1 to 2-10 for locations.

c. Where naturally occurring boron results in concentrations higher than the stated objective, a site-specific objective may be determined on a case-by-case basis.

d. Nitrate-nitrogen plus nitrite-nitrogen (NO3-N + NO2-N). The lack of adequate nitrogen data for all streams precluded the establishment of numerical objectives for all streams.

e. Sodium adsorption ratio (SAR) predicts the degree to which irrigation water tends to enter into cation-exchange reactions in soil.

$$SAR = Na+/((Ca++ + Mg++)/2)1/2$$

f. Site-specific objectives have not been determined for these reaches at this time. These areas are often impaired (by high levels of minerals) and there is not sufficient historic data to designate objectives based on natural background conditions. The following table illustrates the mineral or nutrient quality necessary to protect different categories of beneficial uses and will be used as a guideline for establishing effluent limits in these cases. Protection of the most sensitive beneficial use(s) would be the determining criteria for the selection of effluent limits.

Recommended objective (mg/L)	Beneficial Use Categories				
	MUN (Drinking Water Standards) [1]	**PROC**	**AGR**	**AQ LIFE*(Frshwtr)**	**GWR**
TDS	500 (USEPA secondary MCL)	50-1500 [2,7,9]	450-2000 [2,3,6]		Limits based on appropriate groundwater basin objectives and/or beneficial uses
Chloride	250 (USEPA secondary MCL)	20-1000 [2,9]	100-355 [2,3,8]	230 (4 day ave. continuous conc) [4]	
Sulfate	400-500 (USEPA proposed MCL)	20-300 [2,9]	350-600 [2,8]		
Boron			0.5-4.0 [2,6,8]		
Nitrogen	10 (USEPA MCL)				

References: 1) USEPA CFR § 141 et seq., 2) McKee and Wolf, 1963, 3) Ayers and Westcot, 1985, 4) USEPA, 1988, 5) Water Pollution Control Federation, 1989, 6) USEPA, 1973, 7) USEPA 1980, 8) Ayers, 1977.
* Aquatic life includes a variety of Beneficial Uses including WARM, COLD, SPWN, MIGR and RARE.

g. Agricultural supply is not a beneficial use of the surface water in the specified reach.

h. Rio Hondo spreading grounds are located above the Santa Ana Freeway

i. The stated objectives apply to all other surface streams originating within the San Gabriel Mountains and extend from their headwaters to the canyon mouth.

j. These watercourses are primarily located in the Santa Ana Region. The water quality objectives for these streams have been established by Santa Ana Region. Dashed lines indicate that numerical objectives have not been established, however, narrative objectives shall apply. Refer to the Santa Ana Region Basin Plan for more details.

k. These objectives were updated through a Basin Plan amendment adopted by the Regional Board on January 27, 1997 (Resolution No. R97-02) and went into effect on February 26, 1998.

l. This objective was updated though a Basin Plan amendment adopted by the Regional Board on November 6, 2003 (Resolution No. R03-015) and went into effect on August 4, 2004.

m. These objectives apply as a 3-month rolling average. The 3-month averaging period for these objectives was established though a Basin Plan amendment adopted by the Regional Board on October 9, 2014 (Resolution No. R14-010) and went into effect on April 28, 2015.

n. This objective was updated through a Basin Plan amendment adopted by the Los Angeles Water Board on November 16, 2023 (Resolution No. R23-006) and went into effect on XXX XX XXXX.