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STATE WATER RESOURCES CONTROL BOARD
RESOLUTION NO. 94-61

APPROVAL OF AN AMENDMENT TO THE COMPREHENSIVE WATER QUALITY CONTROL PLAN FOR THE SAN DIEGO REGION REVISING BENEFICIAL USES AND WATER QUALITY OBJECTIVES FOR GROUND WATER IN THE LAGUNA (1.10), MISSION VIEJO (1.20), AND SAN CLEMENTE (1.30) HYDROLOGIC AREAS

WHEREAS:

1. The Regional Water Quality Control Board, San Diego Region (RWQCB), adopted the Comprehensive Water Quality Control Plan for the San Diego Basin (Basin Plan) on March 17, 1975.
2. On February 10, 1994, following a public hearing, the RWQCB adopted Resolution No. 94-25 (Attachment 1) which amended the Basin Plan by subdividing existing surface water hydrologic areas (HAS) into hydrologic subareas (HSAs) (see Attachment 2) and modifying beneficial uses and water quality objectives for ground water in the Laguna, Mission Viejo, and San Clemente HAS (HAS 1.10, 1.20, and 1.30, respectively) (See Attachments 3 and 4).
3. The State Water Resources Control Board (SWRCB) finds that there is sufficient evidence to show that the proposed amendment complies with requirements of Section 13241 of the California Water Code (CWC) and SWRCB Resolution No. 68-16.
4. Section 13240 of the CWC specifies that basin plans be periodically reviewed and, if appropriate, revised.
5. The RWQCB staff prepared documents and followed procedures satisfying environmental documentation requirements in accordance with the California Environmental Quality Act and other State laws and regulations.
6. The RWQCB Resolution No. 94-25 pertains to ground water beneficial uses and water quality objectives only and is not subject to the approval of the U. S. Environmental Protection Agency under the federal Clean Water Act.
7. This Basin Plan amendment does not become effective until approved by the SWRCB and until the regulatory provisions are approved by the Office of Administrative Law (OAL).

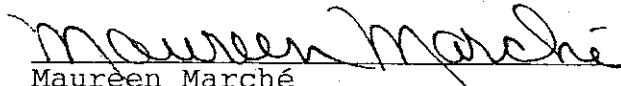
THEREFORE BE IT RESOLVED THAT:

The SWRCB:

1. Approves RWQCB Resolution No. 94-25 amending the Comprehensive Water Quality Control Plan for the San Diego Basin by subdividing existing surface water HAS into HSAs and modifying beneficial uses and water quality objectives for ground water in the Laguna, Mission Viejo, and San Clemente HAS (HAS 1.10, 1.20, and 1.30, respectively), and
2. Authorizes staff to forward regulatory provisions to OAL for approval.

CERTIFICATION

The undersigned, Administrative Assistant to the Board, does hereby certify that the foregoing is a full, true, and correct copy of a resolution duly and regularly adopted at a meeting of the State Water Resources Control Board held on July 21, 1994.



Maureen Marché

Administrative Assistant to the Board

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

RESOLUTION NO. 94-25

A RESOLUTION ADOPTING AMENDMENTS
TO
THE COMPREHENSIVE WATER QUALITY CONTROL PLAN
FOR
THE SAN DIEGO REGION
FOR THE
LAGUNA (1.10), MISSION VIEJO (1.20),
AND SAN CLEMENTE (1.30)
HYDROLOGIC AREAS

WHEREAS, in accordance with Section 13240 et seq. of the CALIFORNIA WATER CODE, the California Regional Water Quality Control Board, San Diego Region, caused to be developed a Comprehensive Water Quality Control Plan for the San Diego Water Quality Control Region; and

WHEREAS, the Regional Board, acting in accord with Section 13244 of the CALIFORNIA WATER CODE, on March 17, 1975, adopted the Comprehensive Water Quality Control Plan for the San Diego Water Quality Control Region as set forth in Chapter 1 through 7 of the COMPREHENSIVE WATER QUALITY CONTROL PLAN REPORT, SAN DIEGO REGION (9); and

WHEREAS, the Regional Board has adopted amendments to the Comprehensive Water Quality Control Plan for the San Diego Water Quality Control Region from time to time since March 17, 1975, all of which modified beneficial uses and/or water quality objectives for subareas other than the Laguna, Mission Viejo, San Clemente and San Mateo Canyon Hydrologic Areas; and

WHEREAS, the Regional Board has adopted Resolution No. 86-06 which incorporates a water reclamation policy into the Comprehensive Water Quality Control Plan which outlines an action plan whereby the Regional Board will consider special amendments to the Comprehensive Water Quality Control Plan to encourage meaningful water reclamation; and

WHEREAS, the Regional Board held a public hearing on February 10 1994, for the purpose of receiving testimony on proposed amendments that, for the Laguna (1.10), Mission Viejo (1.20), San Clemente (1.30) would modify groundwater quality objectives and beneficial uses established in the Comprehensive Water Quality Control Plan for the San Diego Region; and

WHEREAS, a staff report describing the proposed amendments and containing environmental documentation functionally equivalent to the California Environmental Quality Act requirements was transmitted to interested individuals and public agencies for

review and comment; and

WHEREAS, the Regional Board has reviewed and carefully considered all comments and testimony received relative to the proposed amendments; and

WHEREAS, the Regional Board has determined that the proposed amendments will not have a significant adverse effect on the environment as long as proposed mitigation measures are adopted; and

WHEREAS, the Regional Board has determined that the proposed amendments will not unreasonably affect beneficial uses within the Laguna (1.10), Mission Viejo (1.20), and San Clemente (1.30) Hydrologic Areas, and will be to the maximum benefit to the people of the State; therefore

BE IT RESOLVED, that the Comprehensive Water Quality Control Plan for the San Diego Regional Water Quality Control Board be amended as follows:

1. Table 2-4, "Beneficial Uses of Ground Water," appearing in Chapter 2, Beneficial Uses, is revised to reflect the proposed changes marked in grey as shown in the attached Table 1, "Adopted Beneficial Uses."
2. Table 4-8, "Water Quality Objectives for Groundwater," appearing in Chapter 4, Water Quality Objectives, is revised to reflect the proposed changes marked in grey as shown in the attached Table 2, "Adopted Water Quality Objectives".
3. The Mission Viejo Hydrologic Area (1.20) is broken into eight hydrologic subareas. These hydrologic subareas are: (1.21), Upper Trabuco (1.22), Middle Trabuco (1.23), Gobernadora (1.24), Upper San Juan (1.25), Middle San Juan (1.26), Lower San Juan (1.27) and Ortega (1.28). The San Clemente Hydrologic Area (1.30) is broken into two hydrologic subareas: Prima Deshecha (1.31) and Segunda Deshecha (1.32). These new hydrologic subareas are described in the two volume technical report entitled "SOCRA Basin Plan Amendments Final Report and Technical Appendix" (SOCRA Report) prepared and amended by Nolte and Associates, Inc. on behalf of the South Orange County Water Reclamation Authority.

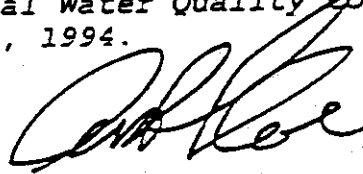
BE IT FURTHER RESOLVED that, as mitigation against adverse impacts on public health or groundwater quality resulting from use of reclaimed water, the Regional Board will continue to adopt and enforce waste discharge requirements containing provisions and limitations implementing the State Department of Health Services' Wastewater Reclamation Criteria and water quality objectives contained in the Comprehensive Water Quality Control

Plan.

BE IT FURTHER RESOLVED that, in order to confirm over time the modelling projections contained in the SOCRA Report, SOCRA shall develop and implement a ground water monitoring program to cover the SOCRA jurisdictional area. The proposed monitoring sites shall be subject to the approval of the Regional Board Executive Officer.

BE IT FURTHER RESOLVED that, the Regional Board Executive Officer is authorized to sign the attached "California Department of Fish and Game, Certificate of Fee Exemption De Minimus Impact Finding."

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of a Resolution adopted by the California Regional Water Quality Control Board, San Diego Region, on February 10, 1994.



ARTHUR L. COE
Executive Officer

Table 2 ADOPTED WATER QUALITY OBJECTIVES

Concentrations not to be exceeded more than 10% of the time during any one one year period.

Ground Water	Hydrologic Basin Unit Number	Constituent (mg/L or as noted)											F		
		TDS	Cl	SO ₄	%Na	Adj. S.A.R.	NO ₃	Fe	Mn	MBAS	B	ODOR		Turb Color NTU	
SAN JUAN HYDROLOGIC UNIT															
San Joaquin Hills	1.11	1000	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.11	1200	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Laguna Beach	1.12	1000	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.12	1200	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Aliso Creek	1.13	3500	800	900	60	none	45	0.3	0.05	0.5	3.0	none	5	15	1.0
Existing: [REDACTED]	1.13	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Dana Point	1.14	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	none	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	none	[REDACTED]	[REDACTED]	[REDACTED]
Existing: [REDACTED]	1.14	1200	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Mission Viejo	1.20	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.20	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.21	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.21	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.22	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.22	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.23	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.23	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.24	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.24	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.25	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.25	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Joaquin Hills	1.26	500	250	250	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.26	1200	400	500	60	none	45	0.3	0.05	0.5	0.5	none	5	15	1.0
San Clemente	1.30	500	250	250	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
Existing: [REDACTED]	1.30	1200	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0
San Clemente	1.32	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	none	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	none	[REDACTED]	[REDACTED]	[REDACTED]
Existing: [REDACTED]	1.32	1200	400	500	60	none	10	0.3	0.05	0.5	0.5	none	5	15	1.0

Table 1 ADOPTED - BENEFICIAL USES

Ground Water				Hydrologic Unit Basin Number	BENEFICIAL USE						
					M U N	A G R	I N D	P R O C	F R S H	G W R	
SAN JUAN HYDROLOGIC UNIT				901.00							
San Joaquin Hills	HSA	1	Existing:	1.11	●	●					
		1	Proposed:		●	●					
Laguna	HSA	1	Existing:	1.12	●	●					
		1	Proposed:		●	●					
Aliso	HSA	2	Existing:	1.13	○						
		2	Proposed:		○	○					
Dana Point	HSA	1	Existing:	1.14							
		1	Proposed:			○					
Mission Viejo	HA	3	Existing:	1.20	●	●	●				
USE	HSA		Proposed:	1.21	○	○	○				
Upper Trabuco	HSA		Proposed:	1.22	○	○	○				
Middle Trabuco	HSA		Proposed:	1.23	○	○	○				
Lower Trabuco	HSA		Proposed:	1.24	○	○	○				
Upper San Juan	HSA		Proposed:	1.25	○	○	○				
Middle San Juan	HSA		Proposed:	1.26	○	○	○				
Lower San Juan	HSA		Proposed:	1.27	○	○	○				
Trabuco	HSA		Proposed:	1.28	○	○	○				
San Clemente	HA	2, 4	Existing:	1.30	●	●					
Prima Deshecha	HSA	2	Proposed:	1.31	●	●					
Segunda Deshecha	HSA		Proposed:	1.32							

- 1 These beneficial uses do not apply to all lands on the coastal side of the inland boundary of the right-of-way of Pacific Coast Highway 1. The beneficial uses for the remainder of HA 1.10 are as shown.
- 2 These beneficial uses do not apply westerly of the eastern boundary of the right-of-way of Interstate Highway 5. The beneficial uses for the remainder of the hydrologic area are as shown.
- 3 These beneficial uses do not apply to all lands on the coastal side of the inland boundary of the right-of-way of Pacific Coast Highway 1 west of the San Juan Creek channel. The beneficial uses for the remainder of HA 1.20 are as shown.
- 4 These beneficial uses do not apply to the Segunda Deshecha Canada drainage area of the San Clemente HA (HA 1.30). The beneficial uses of the remainder of HA 1.30 are as shown.

- Existing Beneficial Use
- Potential Beneficial Use

PROPOSED HYDROLOGIC DESIGNATIONS

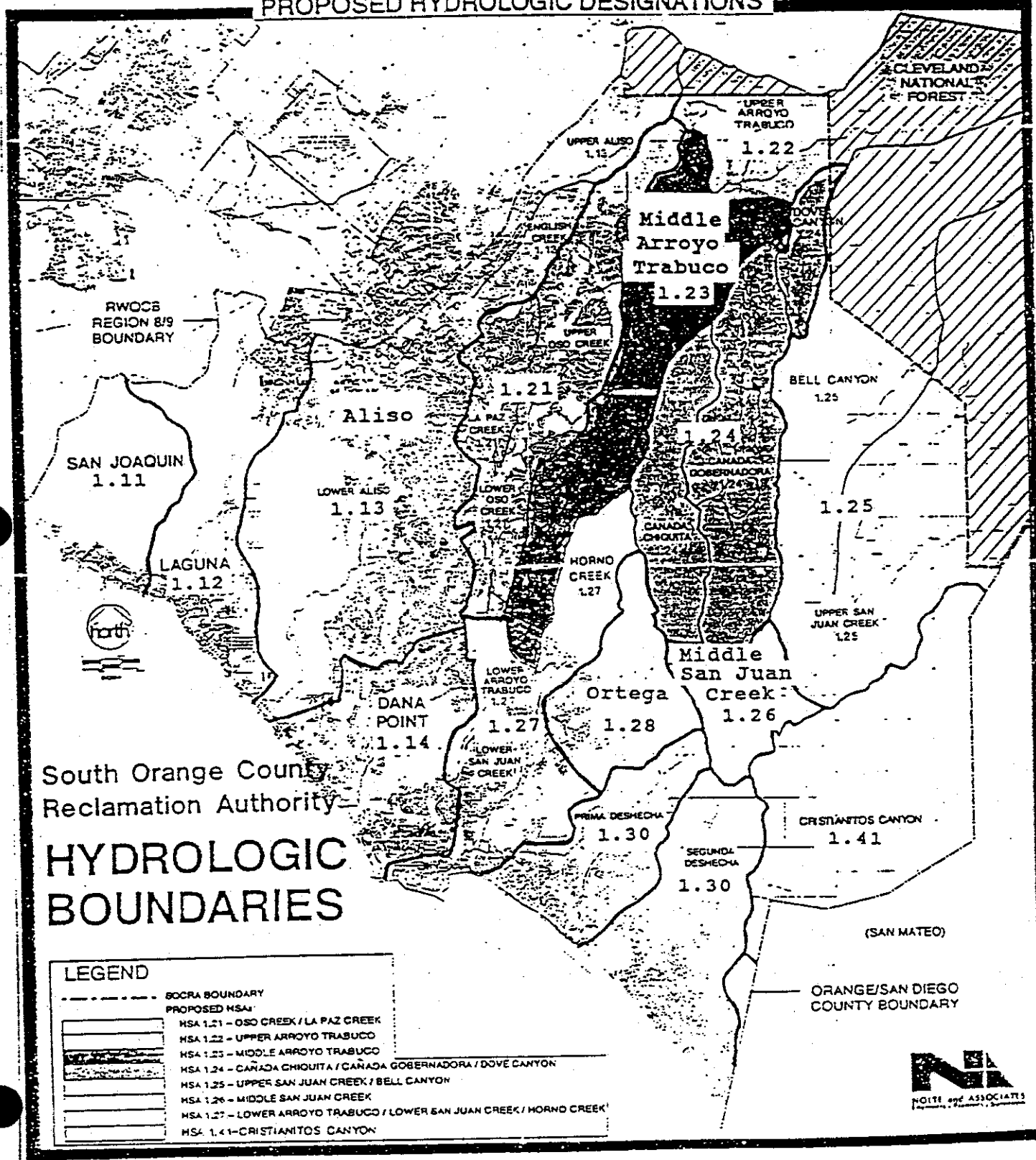


TABLE 1 - Existing and Proposed Beneficial Uses for the Study Area

Hydrologic Unit Name	Hydrologic Unit Number	Beneficial Uses							
		Existing			Notes	Proposed			Notes
		M U N	A G R	I N D		M U N	A G R	I N D	
Laguna Hydrologic Area	901.10								
San Joaquin Hills HSA	901.11	X	X		1	X	X		1
Laguna Beach HSA	901.12	X	X		1	X	X		1
Aliso HSA	901.13	P			2	X	X		2
Dana Point HSA	901.14						X		1
Mission Viejo Hydrologic Area	901.20				3				
Oso HSA	901.21	X	X	X		X	X	X	
Upper Trabuco HSA	901.22	X	X	X		X	X	X	
Middle Trabuco HSA	901.23	X	X	X		X	X	X	
Gobernadora HSA	901.24	X	X	X		X	X	X	
Upper San Juan HSA	901.25	X	X	X		X	X	X	
Middle San Juan HSA	901.26	X	X	X		X	X	X	
Lower San Juan HSA	901.27	X	X	X		X	X	X	
Ortega HSA	901.28	X	X	X		X	X	X	
San Clemente Hydrologic Area	901.30				2,4				
Prima Desheca HSA	901.31	X	X		2	X	X		2
Segunda Desheca HSA	901.32								

LEGEND

X = existing beneficial use
HSA = hydrologic subarea

P = potential beneficial uses

NOTES

1. These beneficial uses do not apply to all lands on the coastal side of the inland boundary of the right-of-way of the Pacific Coast Highway (Highway 1). The beneficial uses for the remainder of the Laguna Hydrologic Area (HA) are as shown.
2. These beneficial uses do not apply westerly of the easterly boundary of the right-of-way of Interstate Highway 5. The beneficial uses for the remainder of the hydrologic area are as shown.
3. These beneficial uses do not apply to all lands on the coastal side of the inland boundary of the right-of-way of the Pacific Coast Highway (Highway 1) west of San Juan Creek channel. The beneficial uses for the remainder of HA 1.20 are as shown.
4. These beneficial uses do not apply to the Segunda Desheca Canada drainage areas of the San Clemente HA (HA 1.20). The beneficial uses of the remainder of HA 1.30 are as shown.

TABLE 2 - Existing and Proposed Ground Water Quality Objectives for the Study Area

Hydrologic Unit Name	Hydrologic Unit Number	Constituent (mg/L or as noted)													Color Units	F		
		Status	TDS	Cl	SO ₄	%Na	Adj. SAR	NO ₃	Fe	Mn	MBAS	B	Odor	Turb. (NTU)				
Laguna Hydrologic Area	901.10																	
San Joaquin Hills HSA	901.11	Existing	1,000	400	500	60	none	10	0.3	0.05	0.5	0.50	none	5	15	1.0		
		Proposed	1,200	400	500	60	none	10	0.3	0.05	0.5	0.67	none	5	15	1.0		
Laguna Beach HSA	901.12	Existing	1,000	400	500	60	none	10	0.3	0.05	0.5	0.50	none	5	15	1.0		
		Proposed	1,200	400	500	60	none	10	0.3	0.05	0.5	0.67	none	5	15	1.0		
Aliso Creek HSA	901.13	Existing	3,500	800	900	60	none	45	0.3	0.05	0.5	3.00	none	5	15	1.0		
		Proposed	1,200	400	500	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Dana Point HSA	901.14	Existing	-	-	-	-	none	-	-	-	-	-	none	-	-	-		
		Proposed	1,200	400	500	60	none	10	0.3	0.05	0.5	0.67	none	5	15	1.0		
Mission Viejo Hydrologic Area	901.20	Existing	500	250	250	60	none	45	0.3	0.05	0.5	0.50	none	5	15	1.0		
Oso HSA	901.21	Proposed	1,200	400	500	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Upper Trabuco HSA	901.22	Proposed	500	250	250	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Middle Trabuco HSA	901.23	Proposed	750	375	375	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Gobernadora HSA	901.24	Proposed	1,200	400	500	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Upper San Juan HSA	901.25	Proposed	500	250	250	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Middle San Juan HSA	901.26	Proposed	750	375	375	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Lower San Juan HSA	901.27	Proposed	1,200	400	500	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
Ortega HSA	901.28	Proposed	1,100	375	450	60	none	45	0.3	0.05	0.5	0.67	none	5	15	1.0		
San Clemente Hydrologic Area	901.30	Existing	500	250	250	60	none	10	0.3	0.05	0.5	0.50	none	5	15	1.0		
Prima Desheca HSA	901.31	Proposed	1,200	400	500	60	none	10	0.3	0.05	0.5	0.67	none	5	15	1.0		
Segunda Desheca HSA	901.32	Existing	-	-	-	-	none	-	-	-	-	-	none	-	-	-		
		Proposed	1,200	400	500	60	none	10	0.3	0.05	0.5	0.67	none	5	15	1.0		

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

RESOLUTION NO. 94-25

STAFF REPORT
ON
REQUEST FOR MODIFICATION
OF
THE BASIN PLAN
GROUNDWATER QUALITY OBJECTIVES
AND
BENEFICIAL USES
FOR
LAGUNA HYDROLOGIC AREA (1.10),
MISSION VIEJO HYDROLOGIC AREA (1.20),
SAN CLEMENTE HYDROLOGIC AREA (1.30)
OF THE
SAN JUAN HYDROLOGIC UNIT (1.00)

FEBRUARY 10, 1994

FINAL REPORT

BASIN PLAN AMENDMENTS

**SOUTH ORANGE COUNTY
RECLAMATION
AUTHORITY**



TABLE 3 - Summary of Modeling Results for Total Dissolved Solids Concentrations for the Study Area

Hydrologic Unit Name	Hydrologic Unit Number	Modeled Tributary	Total Dissolved Solids Concentrations (mg/l)															
			Natural		Current Development		Future without Reclamation		Future with Reclamation		Change Due to Reclamation							
			Surface Storm	Non Storm 1	Surface Storm	Non Storm (1)	Surface Storm	Non Storm (1)	Surface Storm	Non Storm (1)	Surface Storm	Non Storm (1)						
Mission Viejo Hydrologic Area	901.20																	
Upper Trabuco HSA	901.22	Upper Trabuco	150	400	150	450	169	467	181	501								
Middle Trabuco HSA	901.23	Middle Trabuco (2)	150	400	150	500	164	679	181	752								+34
Upper/Middle Trabuco HSAs	901.22,23	Upper/Middle Trabuco (2)	150	400	150	500	148	700	163	771								+73
Gobernadora HSA	901.24	Canada Gobernadero (2)	200	500	200	500	223	1,101	242	1,191								+71
Upper San Juan HSA	901.25	Canada Chiquita	200	800	200	800	177	1,144	203	1,312								+90
		Bell Canyon (3)	150	300	150	300	202	403	228	455								+168
		Upper San Juan Creek (4)	150	275	150	300	151	302	151	302								+52
Lower San Juan HSA	901.26	Horno Creek	400	6,000	600	5,200	749	3,199	880	3,759								0
San Mateo Canyon	901.40																	+131
Cristianitos Canyon HSA	901.41	Cristianitos Canyon	200	600	200	675	240	707	270	796								+30
																		+89

NOTES

1. Total dissolved solids concentrations for non-storm surface flow and subsurface flow are considered to be the same.
2. Future development runs made with non-domestic well development.
3. Analysis made without demineralization.
4. Upper San Juan Creek has projected reclaimed water use at the Nichols Institute to increase to 0.08 MGD with no other reclamation planned in the watershed.

DESCRIPTION OF GROUND WATER MODEL

The ground water model was developed to estimate the effect of increased salt loading from reclaimed water use. The model was based on a total dissolved solids or salt balance and uses a "spreadsheets" analysis to account for all inputs to the system (e.g., precipitation, irrigation) and outputs (e.g., evapotranspiration, pumping). The model was developed for shallow, narrow, ribbon-like alluvial aquifers representative of the watersheds in the Study Area. Surface water quality in the drainage course and in the ground water in the shallow, alluvial deposits are considered as being the same during non-storm periods. The model was calibrated against known conditions in the upper Oso Creek watershed to ensure acceptable accuracy. The planning year of 2010 was used for each watershed except Upper San Juan Creek which has no further development planned in the foreseeable future.

BENEFIT/COST COMPARISON

ALTERNATIVE	UNIT COST (\$/acre-ft)
Imported Water	\$946
Groundwater RO Plant Effluent	\$630 - \$1,115
Reclaimed water	\$447 - \$631