Attachment A to Resolution No.

[SALINE BASIN EXAMPLE] Amendment to the Water Quality Control Plan – [*Region*] to Incorporate the Groundwater Quality Management Plan for the [*Basin(s)*]

Adopted by the California Regional Water Quality Control Board, [Region] on [Date].

This groundwater quality management plan satisfies the Recycled Water Policy requirement for salt/nutrient management plans. This groundwater quality management plan applies to groundwater basin(s) with naturally saline groundwater not suitable for municipal and domestic supply as outlined in Resolution No. 88-63 "Sources of Drinking Water".

Amendments:

Table of Contents

- Chapter X. Groundwater Quality Management Plans <This would potentially be a new chapter to the Basin Plan>
 - X-X Groundwater Management Plan for Naturally Saline Groundwater Basins: [*List...*]

List of Figures, Tables and Inserts

Chapter X. Groundwater Quality Management Plans

Tables

- X-X [Basin(s)] Salt/Nutrient Management and Related Effects
- X-X.1 [Basin(s)] Salt/Nutrient Management and Related Effects: Elements
- X-X.2 [*Basin(s)*] Salt/Nutrient Management and Related Effects: Implementation Schedule

Chapter X. Groundwater Quality Management [Basin(s)] Groundwater Quality Management Plan

This [*Basin(s)*] Groundwater Quality Management Plan was adopted by: The Regional Water Quality Control Board on [*Date*].

This [*Basin(s)*] Groundwater Quality Management Plan was approved by: The State Water Resources Control Board on [*Date*].

This [*Basin(s)*] Groundwater Quality Management Plan was approved by: The Office of Administrative Law on [*Date*].

This [*Basin(s)*] Groundwater Quality Management Plan was approved by: U.S. Environmental Protection Agency on [*Date*].

This [*Basin(s)*] Groundwater Quality Management Plan is effective on [*Date*].

The following tables include the elements of this Groundwater Quality Management Plan.

Table X-X.1.	[Basin]	Groundwater	Quality	Management	Plan	and	Related	Effects:
	Element	ts						

Element	Key Findings and Regulatory Provisions
Purpose Statement	Is the groundwater basin impaired or threatened to be impaired by [nutrients, salts, and other constituents]?
	What are the effects of increased levels of [nutrients, salts, and other constituents] on the beneficial uses of groundwater and surface water? What detrimental effects are attributed to [nutrients, salts, and other constituents]? Concerns involving taste and odor, toxicity, human health, crop yields, etc. Are surface water and/or groundwater affected by [nutrients, salts, and other constituents]? Is groundwater quality affected by [nutrients, salts, and other constituents] in surface water; and vise versa?
	What are the beneficial uses (i.e., MUN, AGR, IND, FRSH, AQUA, etc.) of groundwater in the [Basin(s)]?
	What regulatory provisions are there to protect beneficial uses related to impacts by [nutrients, salts, and other constituents]; such as, Resolution No. 68-16 (Antidegradation Policy), etc.?
Narrative and Numeric Water Quality Objectives (Interpretation of the	What are the bases for narrative and numeric Water Quality Objectives (WQOs) for the Groundwater Quality Management Plan?
narrative and numeric water quality objective, used to	What are the narrative and numeric WQOs?
calculate the load allocations)	The level of salinity allowed for the MUN beneficial use designation is defined in Res. No. 88-63, Adoption of Policy Entitled "Sources of Drinking Water".
	{Example: Santa Ana Region. There are separate numeric targets for basins with assimilative capacity and basins with no remaining assimilative capacity. As part of the Salt/Nutrient Management Plan, several agencies proposed that alternative, less stringent TDS and/or nitrate-nitrogen water quality objectives be adopted for specific groundwater management zones and surface waters. These proposals were based on additional consideration of the factors specified in Water Code Section 13241 and the requirements of the State's antidegradation policy (State Board Resolution No. 68-16). Since the less stringent objectives would allow a lowering of water quality, the agencies were required to demonstrate that their proposed objectives would protect beneficial uses, and that water quality consistent with maximum benefit to the people of the state would be maintained (thus, the use of the term "maximum benefit" water quality objectives).}

Element	Key Findings	and Regulatory Provisions	
	<u>Constituent</u>	WQOs (mg/l)	
	TDS	Not Applicable	
	Chloride	Not Applicable	
	Nitrate	10	
	Other Constitu	uents	
Source Analysis	ource Analysis Point sources and non-point sources: <explain and="" from="" impairments;="" loads="" sources="" sources.=""></explain>		
	<u>Salinity:</u>		
	<u>Nutrients:</u>		
	Other Constituents:		
Linkage Analysis	What is the linkage between [salt, nutrients, and other constituents] sources to groundwater and/or surface water quality? How was the linkage evaluated and determined?		
Basin Water QualityIs groundwater quality being maintained?What balance of constituents within the basin?		What is the mass	
	<u>Constituent</u>	Background Water Quality (m	<u>ig/l) WQOs (mg/l)</u>
	TDS	XXXX	NA
	Chloride	XXX	NA
	Nitrate	XX	10
	Other Constitu	uents	
Load Allocations (for	Agricultural ar	nd non-agricultural (atmospheric	c deposition)
nonpoint sources)	onpoint sources) Sources Regulated Under a Permit (irrigated land program)?		ed lands regulatory
General categories and/or specific operations.		5.	
Waste Load Allocations (for point sources)	Sources Regulated Under a Permit: WWTP, RW projects, irrigation, industries, etc.		RW projects,
	General categories and/or specific dischargers.		
Limitations	General statement regarding the limitations associated with the development of the Plan.		
Monitoring Plan	Monitoring P	lan:	
	specific, groui	types of monitoring is required ndwater, surface water, dischar of the Implementation Plan, etc	ges, recycled water,

Element	Key Findings and Regulatory Provisions	
	or need of the monitoring program(s)?	
	Who is responsible for implementing the monitoring program(s)?	
	What shall be analyzed and the frequency?	
	Where are the monitoring locations?	
	What are the reporting requirements?	
	Review period and reopener: The basin monitoring plan will be reviewed on a year basis. Implementation Schedule, Table X-X.2	
Implementation Plan	Regional Board could adopt a variance; a schedule for site- specific objectives based on naturally occurring conditions; de- designated beneficial use; or sources of drinking water criteria.	
	Each permit will be assigned a specific waste load allocation.	
	{Example: The regulatory mechanisms used to implement the WQOs will include the WDRs, Waivers of WDRs, WRRs, Municipal Storm Water NPDES Permit (MS4), the State of California Department of Transportation (Caltrans) Storm Water Permit, minor NPDES permits, general NPDES permits, general industrial storm water NPDES permits, and general construction storm water NPDES permits. Nonpoint sources will be regulated through the authority contained in Sections 13263 and 13269 of the Water Code, in conformance with the State Water Resources Control Board's Nonpoint Source Implementation and Enforcement Policy (May 2004). Each NPDES permit assigned a WLA shall be reopened or amended at re-issuance, in accordance with applicable laws, to incorporate the applicable WLAs as a permit requirement.}	
	The Regional Board shall reconsider this <effluent limitations,<br="">waste load allocations> on a year basis [Implementation Schedule, Table X-X.2]. WDRs must be revised to be consistent with the Implementation Plan.</effluent>	
	General Permits/Orders:	
	WDRs:	
	NPDES Permits:	
	BMPs:	
	Effluent Limitations:	
	Interim Limits:	
	{Table X-X.2 presents the implementation schedule for the responsible permittees.}	

Element	Key Findings and Regulatory Provisions		
	Special Studies: What special studies are needed and why? The schedule for the special studies [Implementation Schedule, Table X-X.2]?		
	Include goals and objectives for recycled water and stormwater recharge/use.		

Attachment A to Resolution No.

Table X-X.2. [Basin(s)] Groundwater Management Plan and Related Effects: Implementation Schedule Implementation

Date	Action	Responsible Party
	Permits issuance or renewal requirements, Orders requirements, BMPs, Interim Limits, Monitoring Work Plans, Monitoring, Special Studies, Submittals, RB consideration of revised [loading rates, water quality objectives, effluent limits], etc.	