

TMDL CONCISE TABULAR SUMMARY

TMDLs for Nitrogen Compounds and Orthophosphate in Streams of the Lower Salinas River and Reclamation Canal Basin and the Moro Cojo Slough Subwatershed

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CENTRAL COAST REGION

TMDL Pollutants:	Nitrate, total nitrogen, un-ionized ammonia, orthophosphate																																				
Other Pollutants Addressed	Biological response indicators – dissolved oxygen, oxygen saturation, chlorophyll a, microcystins																																				
Pollutant Sources	Fertilizer application on irrigated cropland (Major source) Urban stormwater sewer system discharge (Minor source at basin-scale but locally significant) Livestock and domestic animal manure (Minor source, currently meeting load allocations) Natural background and atmospheric deposition (Minor source, meeting load allocations)																																				
Location (County) & Watersheds (HUCs)	Monterey County -Hydrologic Unit Code (HUC-10) # 1806000515 (<i>Lower Salinas River contributing drainage area from Gonzalez downstream to Pacific Ocean</i>) -Hydrologic Unit Code (HUC-10) # 1806001101 (<i>Tembladero Slough–Reclamation Canal drainage</i>) -Hydrologic Unit Code (HUC-12) # 180600110202 (<i>Moro Cojo Slough</i>)																																				
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Beneficial Uses Impaired & Water Quality Standards Violations	<p>Widespread impairments for designated drinking water supply (MUN)</p> <p>Widespread impairments of designated aquatic habitat beneficial uses (WARM, COLD, SPWN) on the basis of violations of the biostimulatory substances water quality objective</p> <p>Widespread violations of the general toxicity objective, on the basis of exceedances of the un-ionized ammonia numeric water quality objective.</p> <p>Localized impairments for designated agricultural supply (AGR)</p> <p>Localized impairments for designated groundwater recharge (GWR)</p> <p>Localized impairments for water contact recreation (REC-1) and the general toxicity objective on the basis of exceedances of water quality guidelines for microcystins</p>																																				
Loading Capacity (TMDL)	<p>-<u>Dry Season (May 1 – Oct. 31) nitrate as N</u> range not to exceed 1.4 to 6.4 mg/L in impaired receiving waters, depending on specific stream reach.</p> <p>-<u>Wet Season (Nov. 1 – Apr. 30) nitrate as N</u> not to exceed 8 mg/L in impaired receiving waters.</p> <p>-<u>Dry Season (May 1 – Oct. 31) orthophosphate as P</u> range not to exceed 0.7 to 0.13 mg/L in impaired receiving waters, depending on specific stream reach.</p> <p>-<u>Wet Season (Nov. 1 – Apr. 30) orthophosphate as P</u> not to exceed 0.3 mg/L in impaired receiving waters</p> <p>-<u>Year Round, nitrate as N</u> not to exceed 10 mg/L in all receiving waters designated MUN.</p> <p>-<u>Year Round, un-ionized ammonia as N</u> not to exceed 0.025 mg/L in all receiving waters.</p>																																				
TMDL Milestones	<p>12 and 20 year interim milestones established with interim water quality goals</p> <p>Water Board re-considers TMDL in 10 years, to consider new research, data, & information.</p> <p>TMDL achievement of final water quality goals in receiving waters anticipated in 30 years.</p>																																				
Implementation Strategy: Proposed Actions To Correct 303(d)-Listed Impairments	<p><u>Owners/operators of irrigated lands:</u> implement and comply with the Central Coast Water Board's Agricultural Order to minimize nutrient loading to receiving waters from fertilizers and irrigation water and to attain load allocations.</p> <p><u>Municipal separate storm sewer system (MS4) entities:</u> waste load allocations will be incorporated into NPDES MS4 stormwater permits. Nutrient pollution discharged from MS4s will be addressed by regulating the MS4 entities under the provisions of an individual municipal stormwater permit or by SWRCB General Permit for the Discharges of Storm Water from Small MS4s (General Permit).</p> <p><u>Owners/operators of livestock and domestic animals:</u> maintain existing water quality and prevent further water quality degradation by beginning or continuing to self-monitor and self-assess consistent with technical guidance from existing rangeland water quality management plans.</p>																																				