

Lower San Joaquin River Status Report
*Salt and Boron Control Program
Management Agency Agreement
Real Time Salinity Management*



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CV-SALTS Program

17 March 2014

Lower San Joaquin River Committee

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Presentation Overview

Salt & Boron Control Program

- Goals and Objectives
- Highlights
- Compliance Options for Dischargers
- Subarea & DMC Compliance Schedule
- Control Program Status
- MAA Status
- Real Time Salinity Management Program
- Tool Development: Forecasting Salinity

Salt and Boron Control Program

Goals and Objectives

- Allocate Salt Load to Agriculture Dischargers
- Evaluate Real Time Management of Salinity
- Insure Compliance with Vernalis Salinity WQOs
- Maximize Salt Transport out of the SJR Basin
- Reduce Dependence on Dilution Flows
- Develop WQOs Upstream of Vernalis

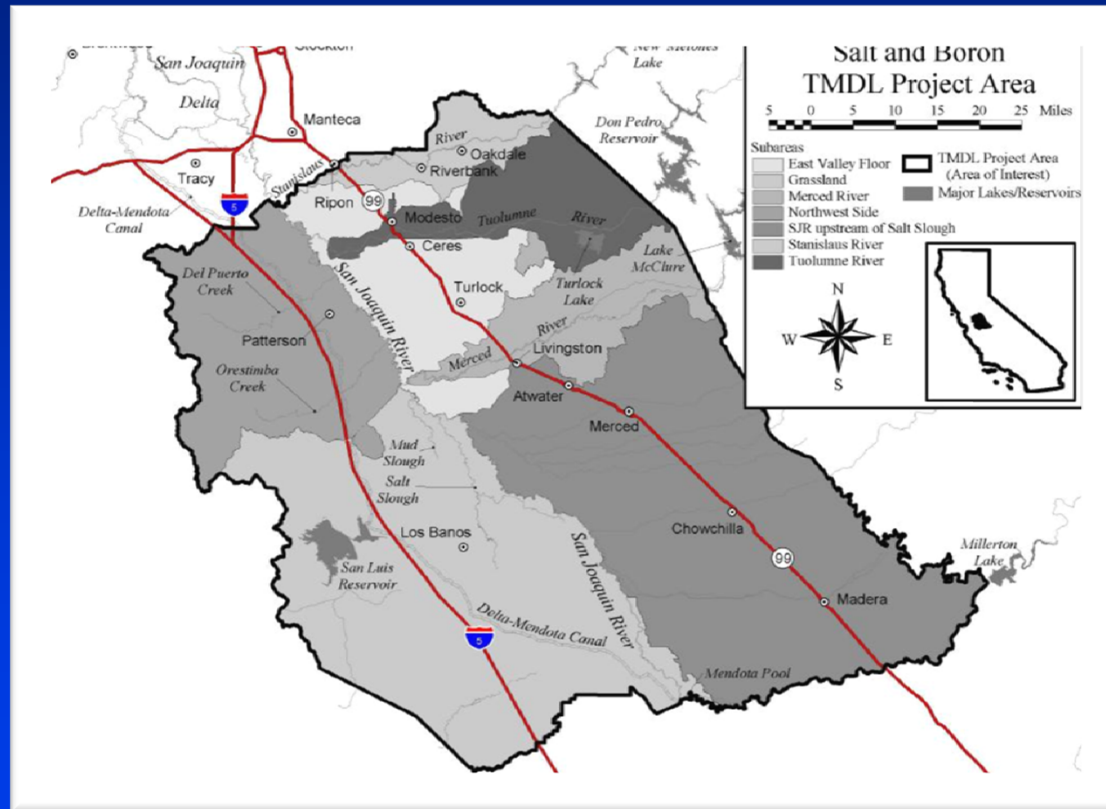
Salt and Boron Control Program Highlights

- Assumes Salt Reduction Effective for Boron
- Sets Fixed Monthly Load Allocations by Subareas
- Sets Salt Load Allocations for DMC Imports
- Determines Load Allocations by Month and WYT
- Allows Participation in Board-Approved RTMP

Control Program Status

- Vernalis Objectives Met Since 1995
- USBR Continuing Flow Releases to Meet WQO
- Grassland Bypass Project Decreasing Salt Loads
- Control Program Provisions: General Orders
- First Compliance Date in 2014

Control Program Project Area Seven Subareas and the Delta-Mendota Canal



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Salt and Boron Control Program Subarea Compliance Schedule

Subarea	Deadlines: Wet to Dry Water Years	Deadlines: Critical Water Years
Northwest Side Grassland	July 28, 2014	July 28, 2018
	July 28, 2014	July 28, 2018
Delta Mendota Canal (DMC) ^a	July 28, 2014	July 28, 2018
Tuolumne River East Valley Floor	July 28, 2018	July 28, 2022
	July 28, 2022	July 28, 2026
SJR Upstream of Salt Slough	July 28, 2022	July 28, 2026
Merced River Stanislaus River	July 28, 2022	July 28, 2026
	July 28, 2022	July 28, 2026

Salt and Boron Control Program Compliance Options

- Cease Discharge to Surface Water
- Discharge Does Not Exceed 315 $\mu\text{S}/\text{cm}$ EC
- Operate Under WDRs With Salt Effluent Limits
- Operate Under Waiver of WDRs

Water Board and USBR Management Agency Agreement (MAA) December 2008

- Reclamation Agreed to:
 - Offset at Least 25% of Excess DMC Salt Load
 - Seek Funding for Salinity Control Efforts
 - Initiate Stakeholder Efforts to Develop RTM Program
- Uncertainty of RTM; Potential Update of MAA

MAA Status

- 2008 MAA Key Work Items Nearing Completion
 - RTMP Framework Document
 - RTMP Forecasting Tool
- 2014 MAA Under Development
 - Builds off of 2008 MAA Results
 - Focus on RTMP Support
 - References an Annual Work Plan
- Anticipate Board Consideration Summer 2014

Summary

- Continued Release of Mitigation Flows
- Provisions Incorporated into General WDRs
- Stakeholder-Developed RTMP Framework
- Reclamation-Funded RTMP Implementation Tool
- Updated MAA in Staff Negotiations Phase
- Updated MAA and RTMP: Summer 2014