



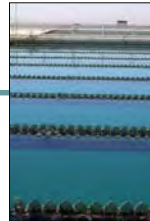
Southern California Salinity Coalition

Accomplishments Since 1999

Salinity Management Study Update Workshop
Los Angeles, CA – June 1, 2012

Jeff Mosher

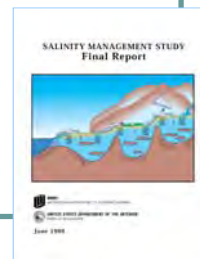
National Water Research Institute
Fountain Valley, CA



Action Areas from 1999 Study

(Handout #4)

1. Imported Water Source Control and Salinity Reduction Actions
2. Distribution System Salinity Management Actions
3. Collaborative Actions with other Agencies
4. Local Salinity Management Actions



1. Imported Water Source Control and Salinity Reduction Actions

- Colorado River Salinity Control Program
 - “Numeric criteria” (TDS) below Hoover Dam, below Parker Dam, at Imperial Dam
 - Triennial Reviews
 - Salinity Control Projects
 - www.coloradoriversalinity.org
- DWR’s Municipal Water Quality Investigations Programs
 - Delta and State Water Project

2. Distribution System Salinity Management Actions

- MWD adopted 1999 Management Policy
 - 500 mg/L annual TDS goal
- MWD operational policies
- MWD infrastructure improvements
- SWP groundwater banking
 - Balance water quality
- Water quality included in planning and IRP

3. Collaborative Actions with other Agencies

- MWD Local Resources Program
 - Groundwater recovery projects
 - Water recycling projects
- Multi-State Salinity Coalition (Est. 2001)
 - Desalting and salinity management
- SCSC (Est. 2002)
- Other industry groups (WaterReuse)
- “Salinity Management Study Update”

4. Local Salinity Management Actions

- Inland Empire Brine Line (SAWPA)
- “Salinity Characterization” studies
 - Source control
- Recycled Water projects with RO
 - IPR and salt water intrusion barriers
- Brackish water projects
- Adoption of Salt/Nutrient Mgmt Plans
- Water Softeners – control and education

Bureau of Reclamation

- Accomplishments:

- Colorado River Basin Salinity Control Program
 - Salinity Control Projects
- Salinity Cost Model
 - Basis for 1999 Salinity Management Study
- “Salinity Control Program” resulted in avoided damages of \$376 million
- Planning studies:
 - Water Recycling

Southern California Salinity Coalition

- Formed in 2002 by:
 - Water and wastewater agencies and districts
 - Nonprofit
- Purpose:

“Address the critical need to remove salt from water supplies and to preserve water resources in California”



SCSC Members

- Eastern Municipal Water District
- Inland Empire Utilities Agency
- Metropolitan Water District of Southern California
- Orange County Sanitation District
- Orange County Water District
- San Diego County Water Authority
- Sanitation Districts of Los Angeles County
- Santa Ana Watershed Project Authority

SCSC Objectives

- Goals:
 - Elevate awareness of salinity-related problems and issues
 - Seek, promote, and support solutions



Project – Salt Management Guide

- **Salt Management Guide for Landscape Irrigation with Recycled Water (CD-ROM)**

P.I. Kenneth Tanji, UC-Davis

- Objectives:

- Reluctance by consumers to use recycled water for landscaping
- Inform the public and landscape industry about using recycled water
- Develop salt management guidelines (best practices) for landscape professionals

Website: www.SalinityManagement.org



Projects – Water Softeners

- **Rebate programs**

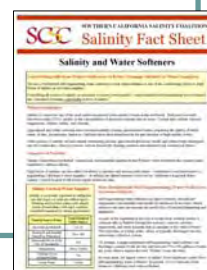
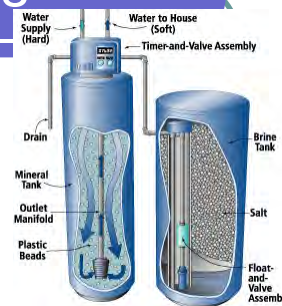
- Santa Clarita Valley Sanitation District
 - "Automatic Water Softener Rebate Program"
- Inland Empire Utilities Agency
 - "Salinity Reduction Program"

- **Fact sheet:**

- "Salinity and Water Softeners"

- **Evaluation of Alternatives to Water Softeners**

- Evaluation study (Peter Fox – ASU)



Project: Salt Management Planning

- CA Recycled Water Policy (Feb 2009)
- Salt/Nutrient Management plans:
 - Stakeholder-driven and consensus-based
- SCSC Project:
 - Salt Management Plan Guidelines for San Diego Region
 - Collaboration: SCSC, San Diego County Water Authority, and the Regional Board



Other Efforts

- Salinity Management Study Update (09-01)
 - With Reclamation and MWD
- Disposal of Brine through Ocean Outfalls (09-09)
- Graduate Student Fellowships
 - Kari Varin, Ph.D Candidate, UCLA
 - *Water Desalination by Reverse Osmosis with Nanostructured Polymers*
- SCSC Website:



www.SoCalSalinity.org

Future Projects

- Salinity Impacts Public Education Strategy (09-11)
- Review on Programs to Reduce Upstream Salt Loading (09-14)
- California Action Plan for Salinity and Water Quality (09-04)
- Outreach and communication materials
 - Fact sheets, indicators of salinity trends, etc.

SCSC Salinity Video

- [Play SCSC Salinity Video](#)

www.socalsalinity.org