Salt and Nutrient Management Plans in the Los Angeles Region

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Workshop Overview

- Presentation
- General Q & A
- Basin-specific breakout session
- Closing remarks

Why are we here?

- Introduce Recycled Water Policy requirement
- Present objectives of Salt and Nutrient Management
 - To facilitate & optimize recycled water use
 - To protect groundwater supply and beneficial uses
 - To protect agricultural beneficial use and
 - To protect human health
- Discuss elements of management plans

California Water Supply Challenges

- Limited supply
 - Climate change effects
- Increasing water demand
 - Residential use
 - Industrial use
 - Agricultural use
 - Aquatic ecosystem needs

Ways to Meet These Challenges

- Water use efficiency
 - Agriculture
 - Urban
 - Water right transfer
- Urban runoff management
 - Infiltration of storm water to groundwater
 - Protection of recharge areas
- Storage/Conveyance/Conjunctive Use
 - Surface water
 - Groundwater
 - Improved conveyance
- Desalination
- Water recycling

What needs to be done?

- Develop Salt & Nutrient Management Plans
 - Basin-wide approach to groundwater management
 - Stakeholder-led process to be completed by May 2014
 - Regional Board must consider adopting each Plan into the Basin Plan

What are the benefits of a stakeholder-led plan?

- Stakeholder opportunity to collaboratively develop basin-wide management approach
- More cost-effective plan implementation
 - Coordinated basin-wide monitoring
 - Coordinated mitigation requirements by basin
 - Satisfies General WDR Irrigation Permit Monitoring Requirements

What are the key elements of a SNMP?

- Water recycling and stormwater recharge objectives
- Groundwater basin hydrogeology
- Source identification and loading rates (salts, nutrients, other pollutants of concern)
- Implementation measures to manage salt and nutrient loading
- Basin-wide monitoring (including CECs)

What type of SNMP is applicable?

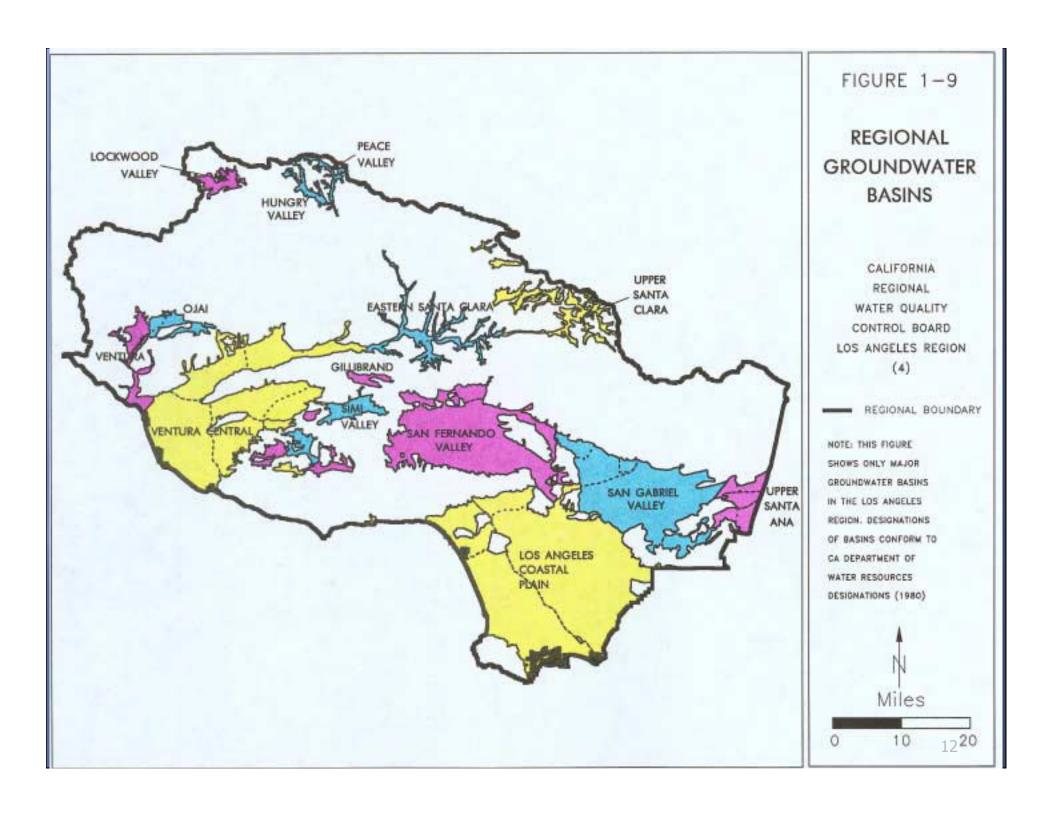
- Major Basin Large, complex, heavily used, water quality threatened
- Coastal/Saline Basin Coastal or interior saline basin, less extensive water quality limitations, not current water source
- Low Threat Basin Minimal or no known current threat to water quality

What are the other steps in the Plan development process?

- Antidegradation Analysis
 - Assure beneficial use protection
 - Consider social & economic benefits
- CEQA Analysis
 - Consider alternatives / mitigation measures
- Preparation & adoption of Basin Plan Amendment

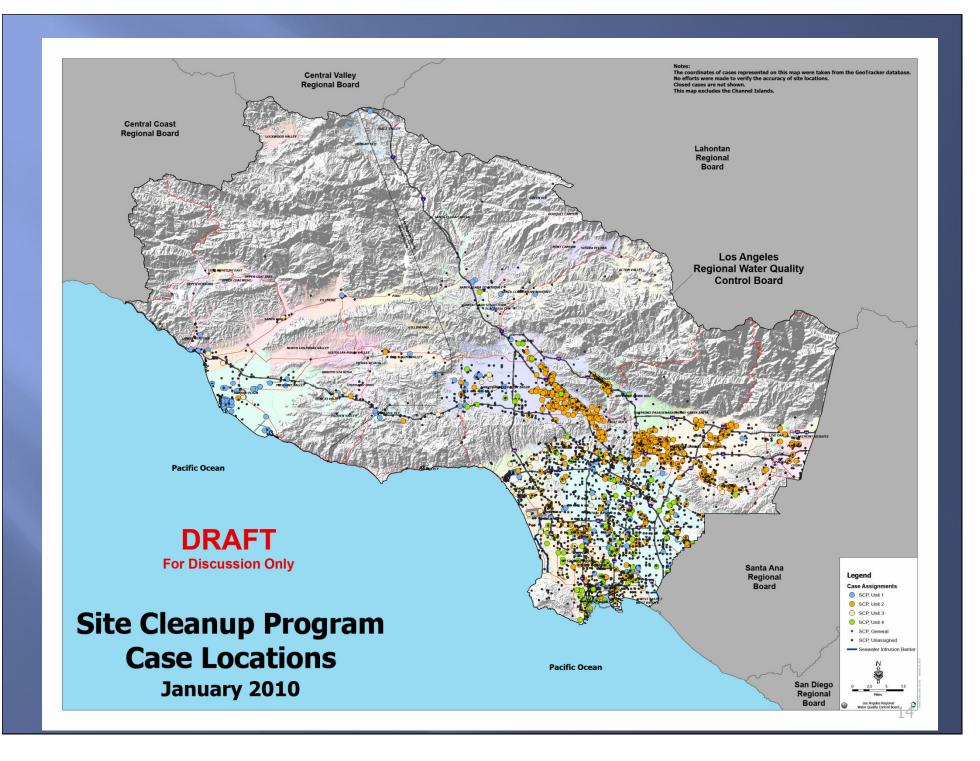
Which groundwater basins should be addressed?

- All thirty-three basins and sub-basins within the Los Angeles Region (DWR Bulletin 118)
 - Eleven groups by hydrographic area
- Beneficial uses generally include MUN, IND, PROC, and AGR



What are some key water quality issues in our groundwater basins?

- Central and West: Seawater Intrusion
- San Gabriel: Nitrate, VOC, Superfund Site
- San Fernando: Nitrate, VOC, PCE, Sulfate, Metals, Superfund Site
- Raymond: Nitrate, VOC, Superfund Site
- Santa Clara: Salts, Nutrients



What are the roles of the stakeholders?

- Compile existing data
- Identify and fill data gaps
- Develop SNMP
 - Implementation & mitigation measures
 - Monitoring program
- Conduct antidegradation and CEQA analysis

What is the role of the Regional Board?

- Provide regulatory and technical guidance
- Establish Regional Board's Salt and Nutrient Management Team
- Facilitate information sharing
- Review draft documents
- Prepare final basin plan amendment for adoption

Where can I find more information?

- Regional Board website:
 - www.waterboards.ca.gov/losangeles/water_issues/ programs/salt_and_nutrient_management/index.sh tml
- State Water Board website:
 - http://www.swrcb.ca.gov/water_issues/programs /water_recycling_policy/index.shtml
- E-mail list subscription:
 - http://www.waterboards.ca.gov/resources/email_s ubscriptions/reg4_subscribe.shtml

What are other basins doing?

- Central/West Coast Basins
- San Fernando Basins
- Santa Clara Basins
- San Gabriel/Raymond Basins

Questions and Answers