

Lower Santa Clara River Stakeholder Meeting

Salt and Nutrient

management plan



Why Are We Here?

SWRCB Adopted Recycled Water Policy to Encourage Water Recycling

Recycling Water Permits Based on SNMP and Basin Plan

Recycled Water Policy

...ing an unprecedented water crisis.

The collapse of the Bay-Delta ecosystem, climate change, and continuing population growth have combined with a severe drought on the Colorado River and falling levels in the Delta to create a new reality that challenges California's ability to provide the clean water needed for a healthy environment, a healthy population and a healthy economy, both now and in the future.

These challenges also present an unparalleled opportunity for California to move aggressively toward a sustainable water future. The State Water Resources Control Board (State Water Board) declares that we will achieve our mission to "preserve, enhance and restore the quality of California's water resources to the benefit of present and future generations." To achieve that mission, we support and encourage every region in California to develop a salt/nutrient management plan by 2014 that is sustainable on a long-term basis and that provides California with clean, abundant water. These plans shall be consistent with the Department of Water Resources' Bulletin 160, an approach that shall be locally developed, locally controlled and recognize the variability of California's water supplies and the diversity of its watersheds. We strongly encourage local and regional water agencies to move toward clean, abundant, local water for the future by emphasizing appropriate water recycling, water conservation, and water supply infrastructure and the use of stormwater (including dry-weather flows). In these plans, these sources of supply are drought-proof, reliable, and low-carbon footprint and can be sustained over the long-term.



Management Measures Incorporated into Basin Plan



Requires Stakeholders Develop Salt and Nutrient Management Plan (SNMP)

SNMPs consider all sources and define management measures



Goals for Today

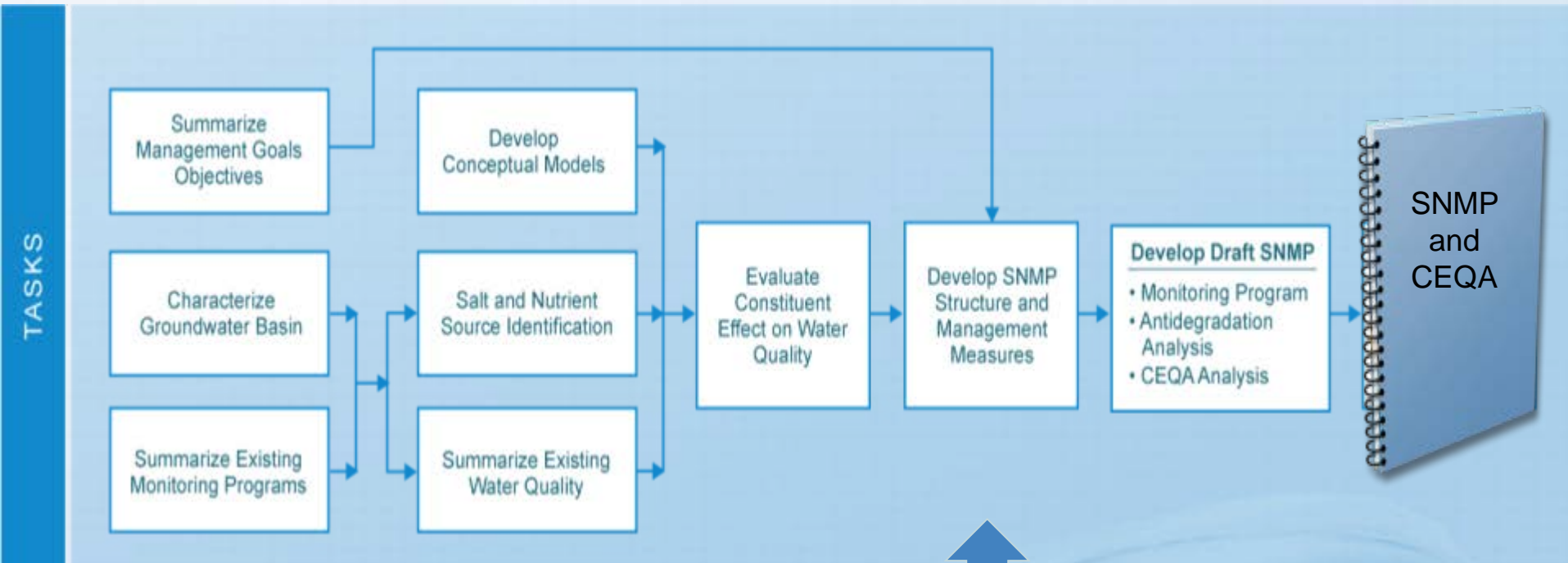
- Update on progress for SNMP development
- Provide overview of approach
- Get input on management measures

Project Workplan

Data Gathering

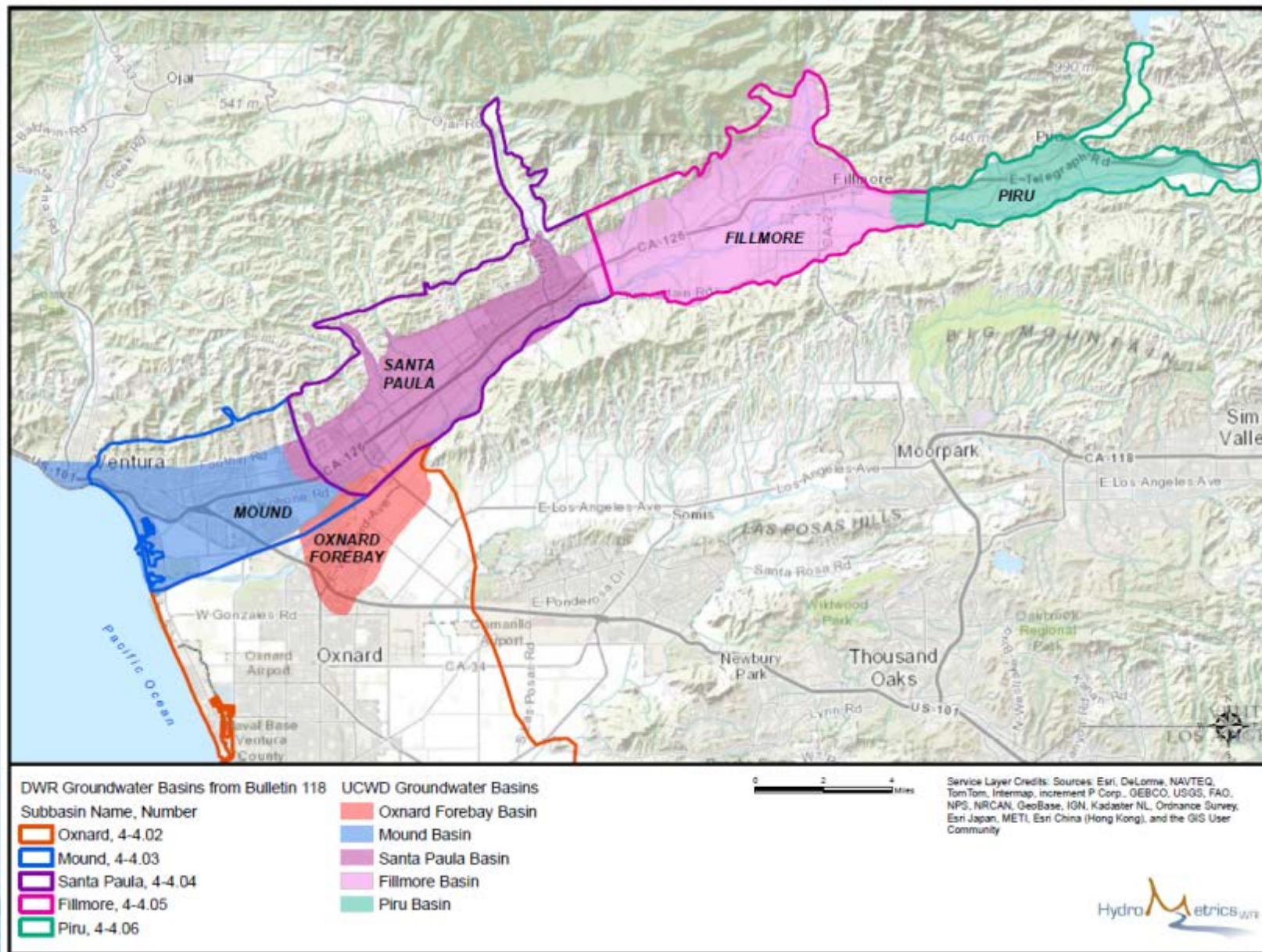
Data Analysis

Develop SNMP



We are here now

Project Boundaries

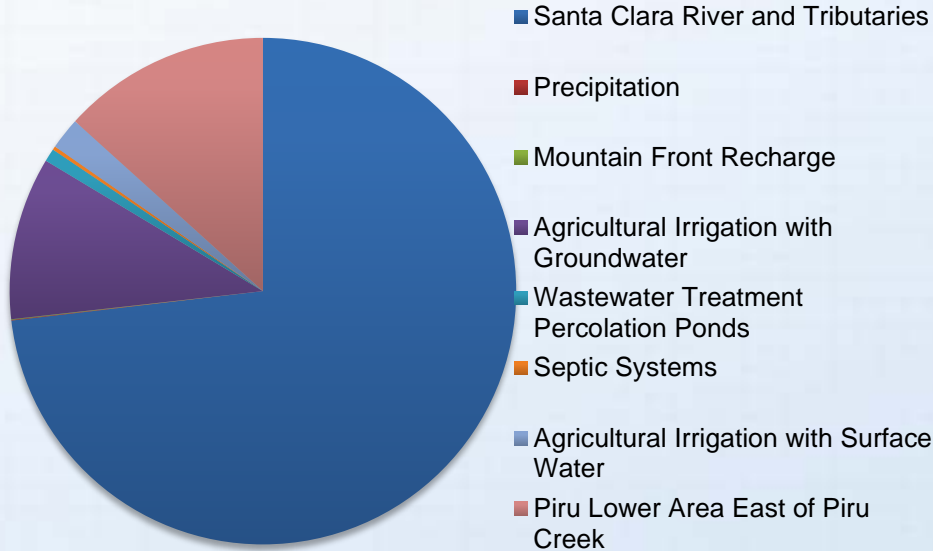


Since Last Meeting

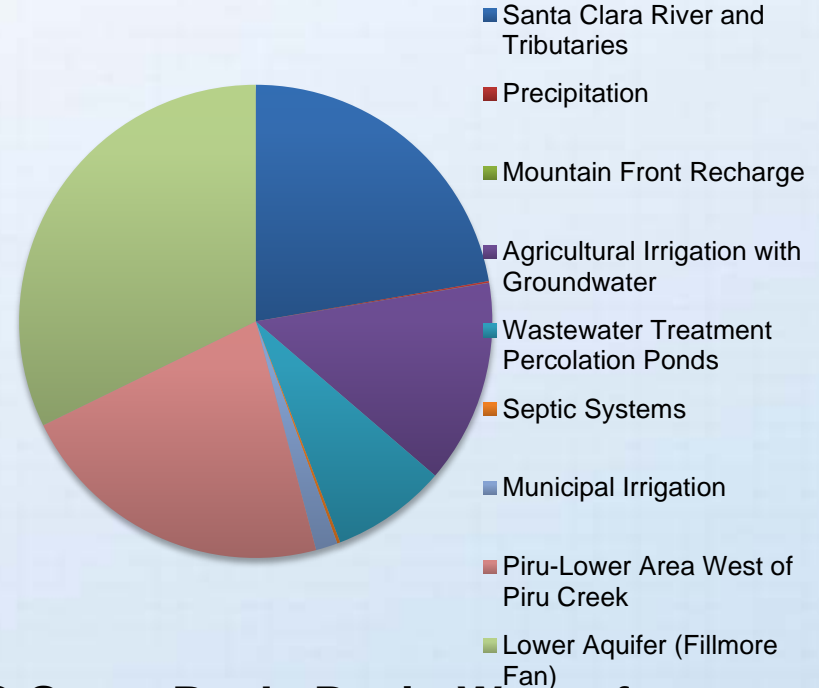
- Quantified sources of salt and nutrients
- Determined assimilative capacity in all subbasins
- Further evaluated potential recycled water projects
- Evaluated existing and potential future management measures

Example Sources - TDS

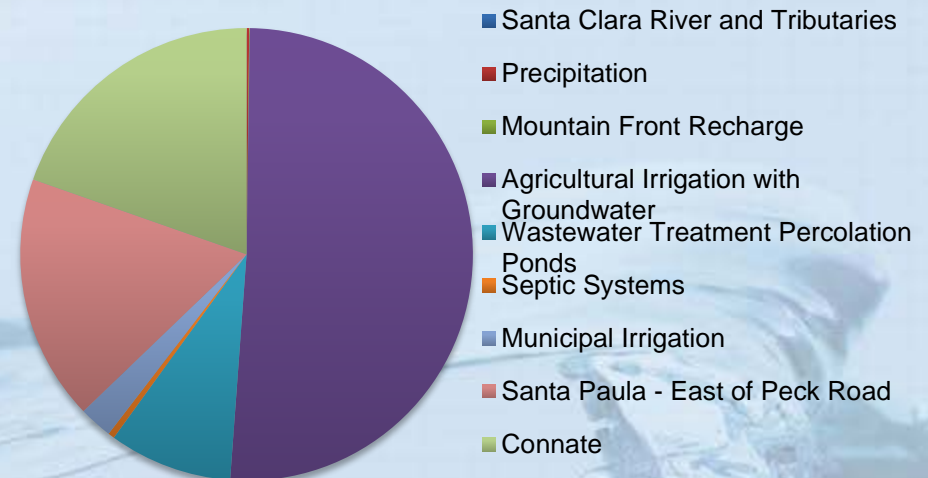
TDS-Piru Lower Area West of Piru Creek



TDS-Pole Creek Fan Area

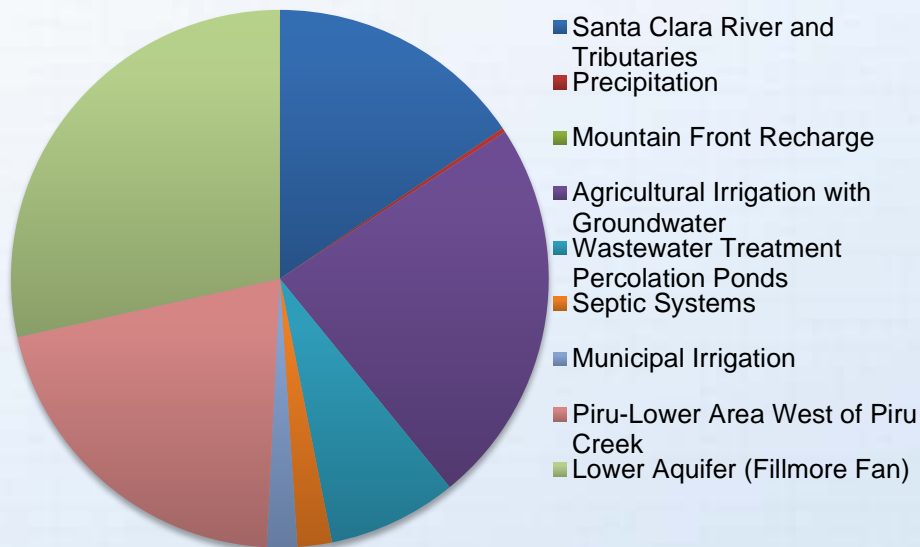


TDS-Santa Paula Basin West of Peck Road

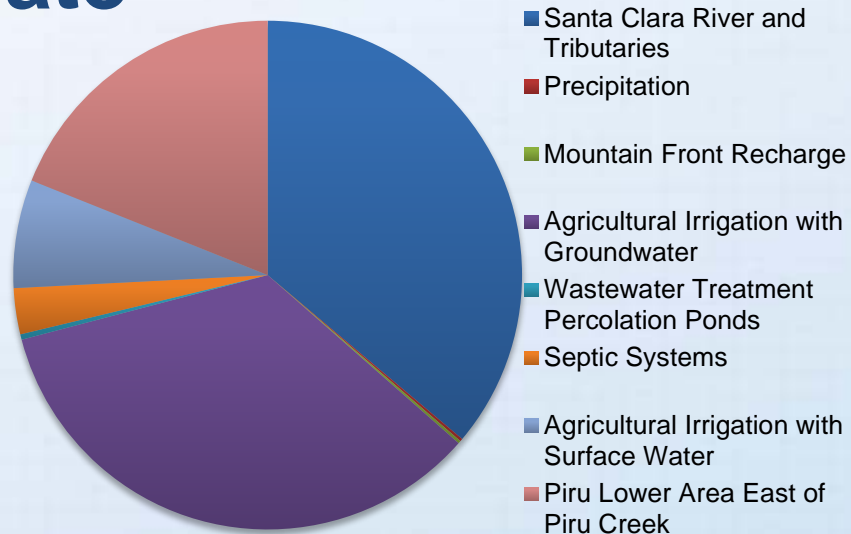


Example Sources - Nitrate

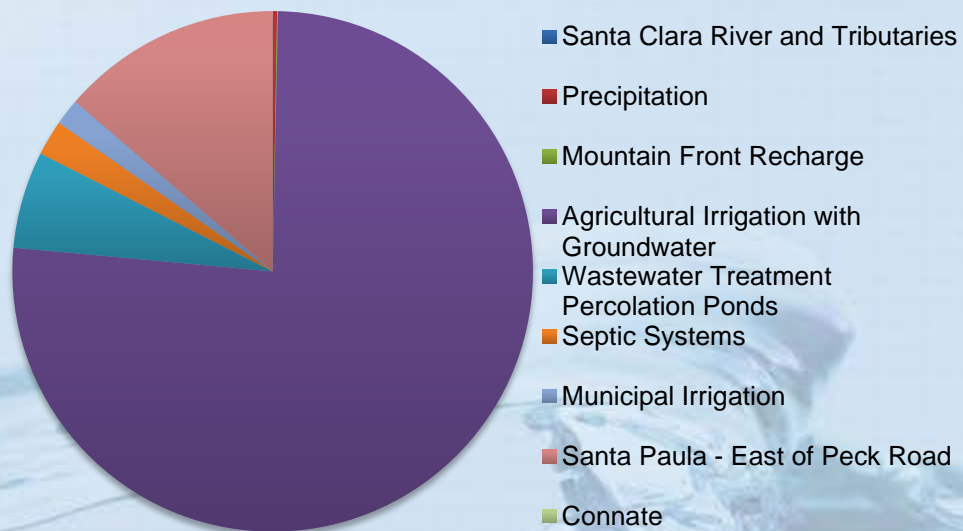
Nitrate-Piru Lower Area West of Piru Creek



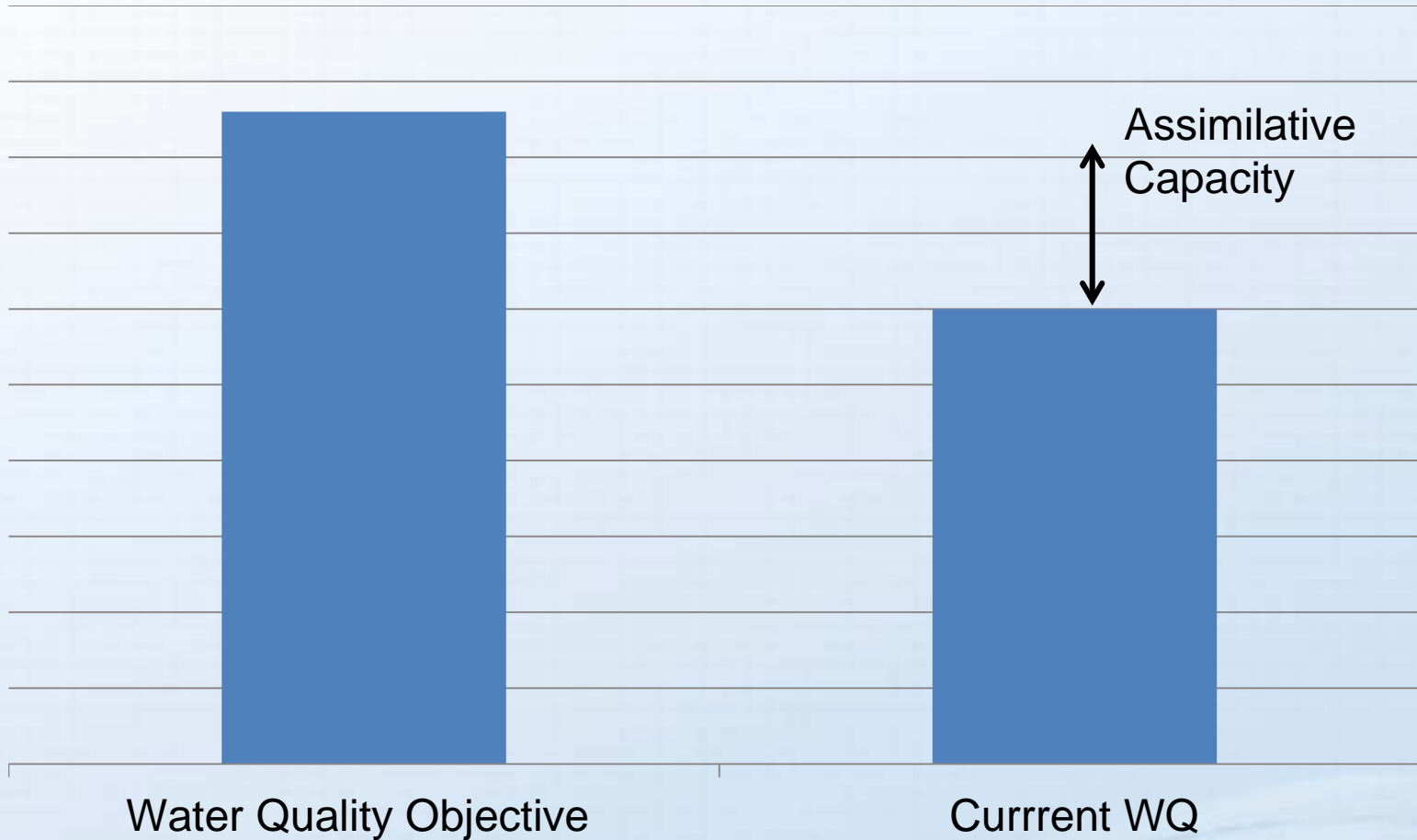
Nitrate-Fillmore Pole Creek Fan Area



Nitrate-Santa Paula Basin West of Peck Road



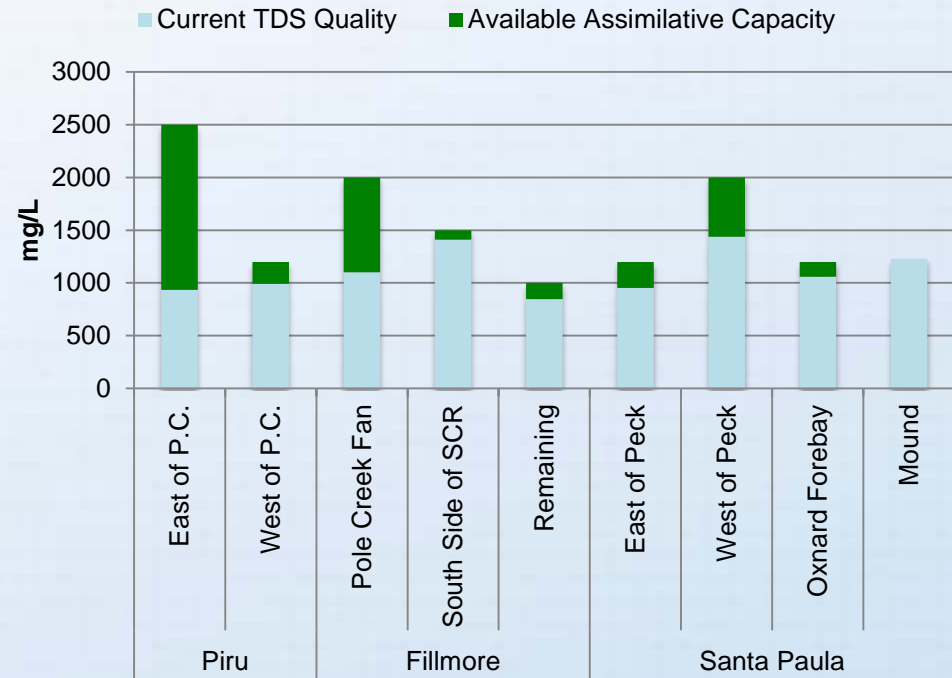
What is Assimilative Capacity?



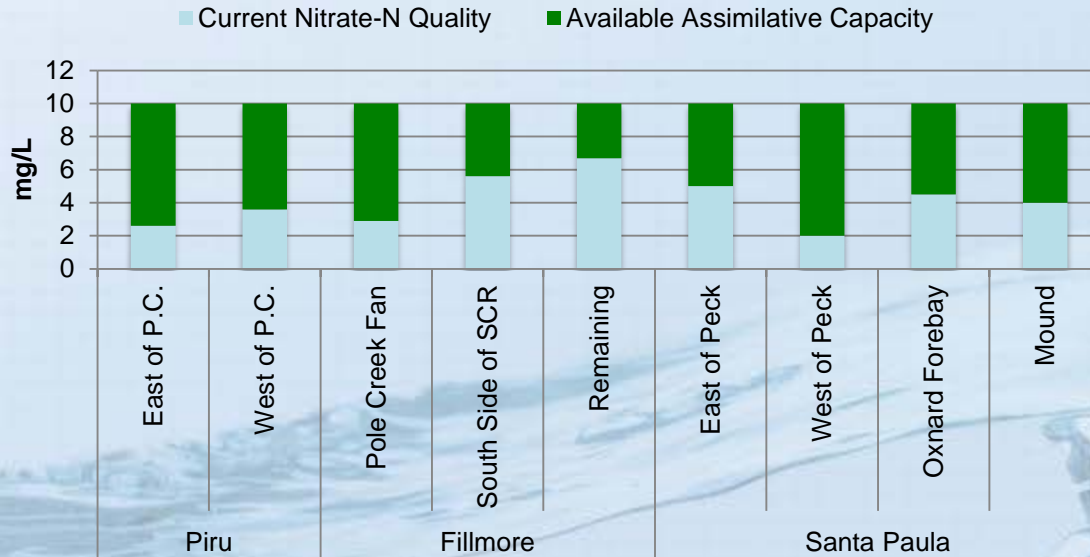
Chloride Assimilative Capacity



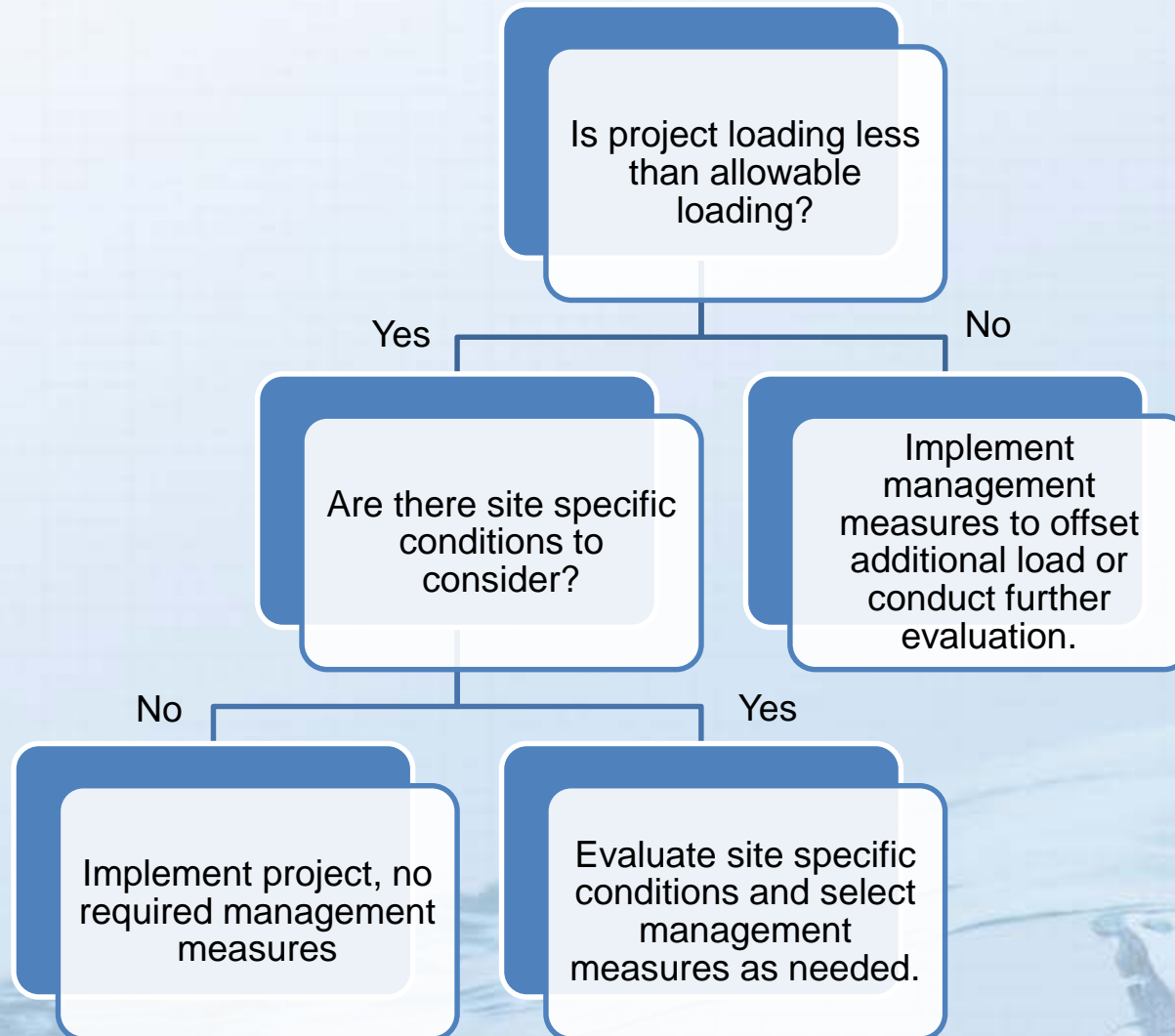
TDS Assimilative Capacity



Nitrate-N Assimilative Capacity



Develop procedures for evaluating projects and selecting management measures



Identify Potential Management Measures

Existing
Management
Measures



Planned
Management
Measures



Additional
Management
Measures, if
needed

- Stormwater Control (MS4)
- Wastewater programs
- Ag water quality management plan (BMPs)

- I&I control
- Softener restrictions
- Surface Water & Stormwater Recharge

Management Measures-Potential Future

Category	Measure	Description
Wastewater and reclaimed water quality	Source control	Water softener ban in the City of Ventura, and unincorporated areas of the County (within the LSCR SNMP)
Wastewater and reclaimed water quality	Source control – industrial pretreatment	Modification of City of Ventura local limits
Wastewater and reclaimed water quality	Advanced treatment	RO Treatment to remove salts from wastewater effluent
Septic system leachate	Source control - leachate	Septic system conversion program to provide connections to sewers
Municipal Water Quality	Softening of groundwater supplies	Regional water softening to reduce hardness and need for residential softeners

Management Measures-Potential Future

Category	Measure	Description
Municipal Water Quality	Advanced treatment of compromised groundwater supplies	Treatment to remove salts from groundwater supplies and regional brine line
Municipal Water Quality	Replace/augment compromised groundwater supplies	Desalination to replace existing groundwater supplies
Stormwater Recharge	Groundwater recharge with stormwater	Capture and recharge of stormwater

Management Measures Questions

- Any other management measures to include?
- Any ones on list to not include?
- Does the decision process make sense as an approach to determining when management measures are necessary?
- Input by May 15th.

Planned Stakeholder Workshops

WORKSHOP #1

- Gather Input on Goals/Objectives
- Garner Knowledge of Existing Planned Programs and Data
- Identify Potential Sources

Oct 2013

WORKSHOP #2

- Report on Progress of SNMP
- Present Strategy
- Discuss Management Measures

April 2014

WORKSHOP #3

- Present Draft SNMP
- Answer Questions
- Solicit Comments

July 2014

Tentative Schedule of Key Milestones

Milestone	Date
• Background information gathering and evaluation	Aug-Oct 2013
• Stakeholder Meeting	Oct 2013
• SNMP Approach Document and Management Measures	Jan-Mar 2014
• Stakeholder Meeting	April 2014
• CEQA Scoping Meeting	Summer 2014
• Stakeholder Meeting	July 2014
• Release of Draft SNMP/Draft Supplemental Environmental Document	Summer 2014
• Final SNMP and Response to Comments	Early Fall 2014
• Regional Board hearing presentation on SNMP (tentative)	Dec 2014
* Dates and schedules may be adjusted throughout project.	

Open Discussion

- For more information or to join the mailing list, please contact:

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Management Measures Flow Chart

