

Salt and Nutrient Management Planning in the San Francisco Bay Region

*BACWA Recycled Water Committee Meeting
Feb 5, 2014*

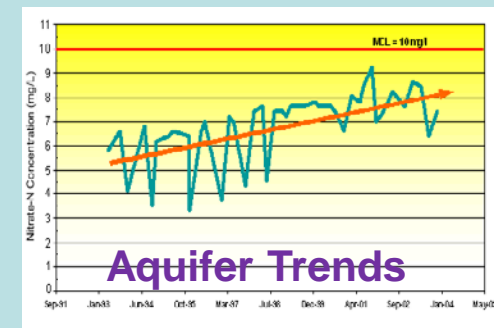
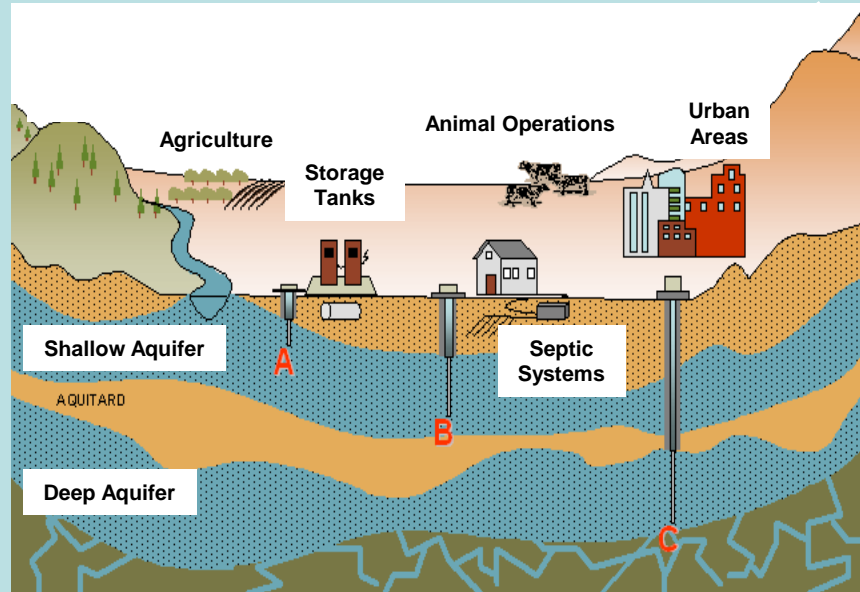
Recycled Water



Landscape Irrigation



Irrigated Ag

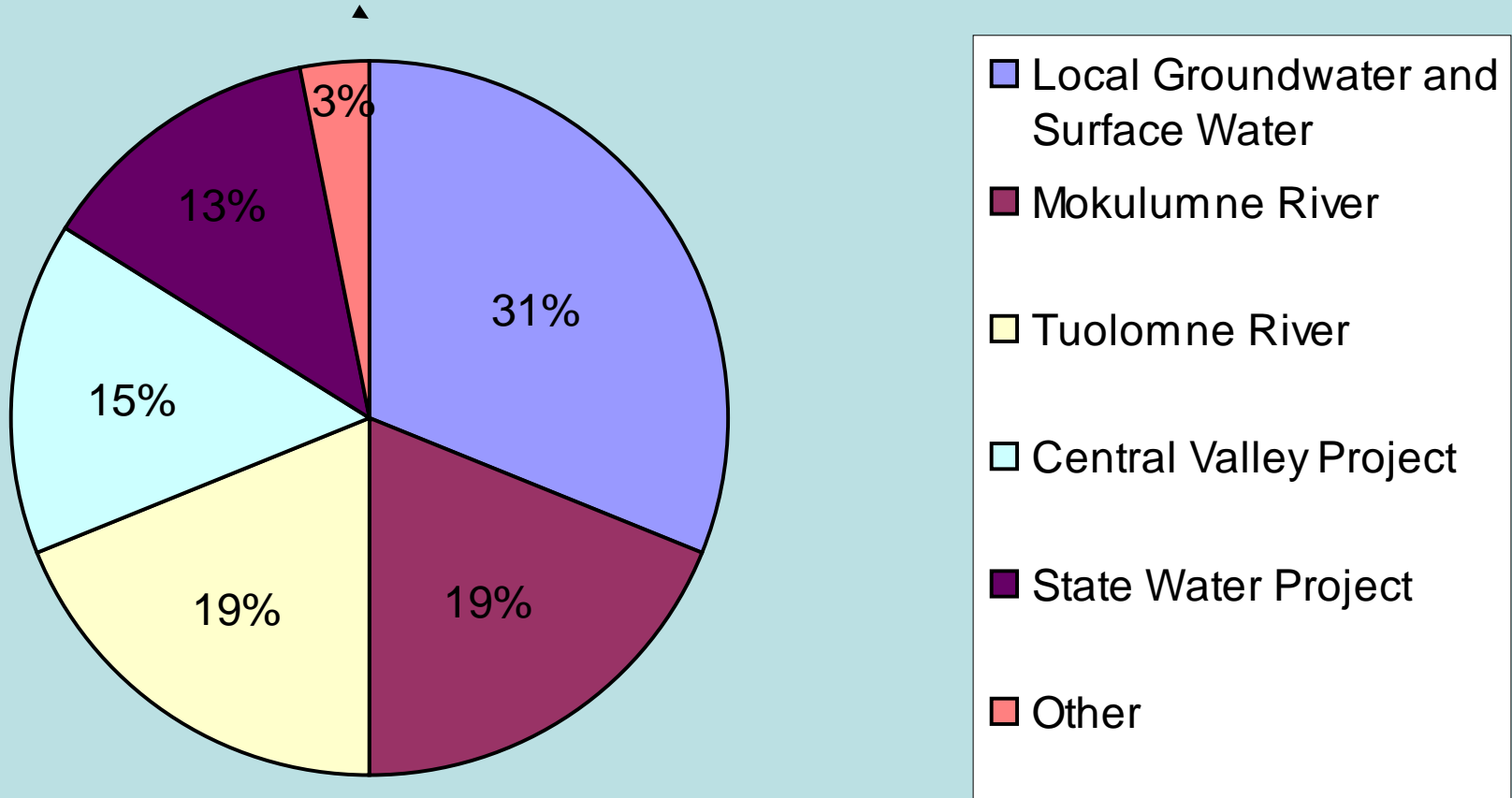


Aquifer Trends

Discussion Topics

1. Overview of Water Supplies and Groundwater Use
2. Selection of Priority Groundwater Basins
3. Challenges
4. Common Questions
5. SNMP development schedule

Water Supply Sources SF Bay Region



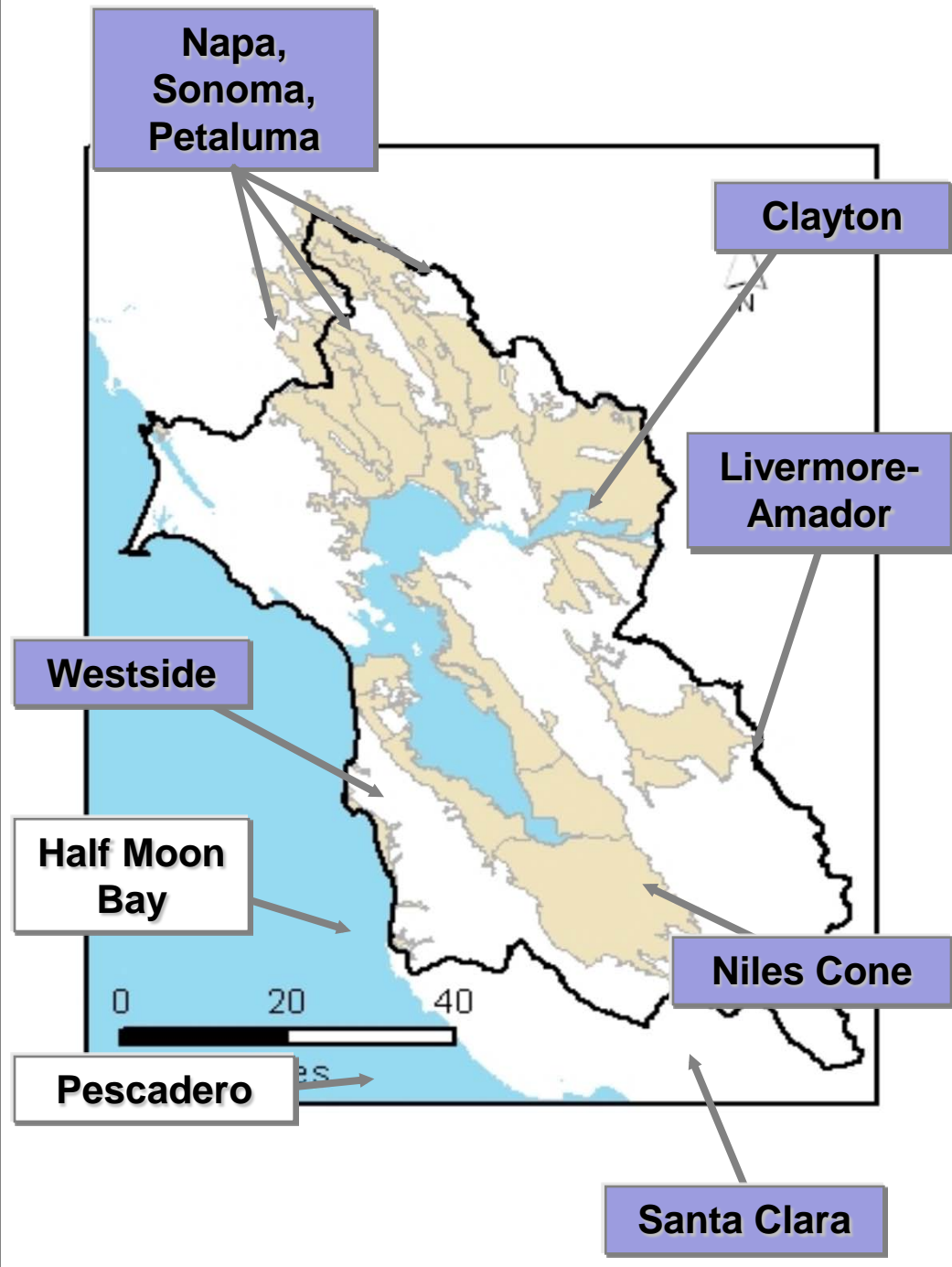
Source: San Francisco Bay Area
Integrated Regional Waste Management Plan, Nov 2006

Groundwater Use SF Bay Region

- Groundwater = 20% of total water supply
- Mostly municipal supply wells, but also domestic and irrigation wells

GW basins with highest use (by volume)

GW basins with major community reliance

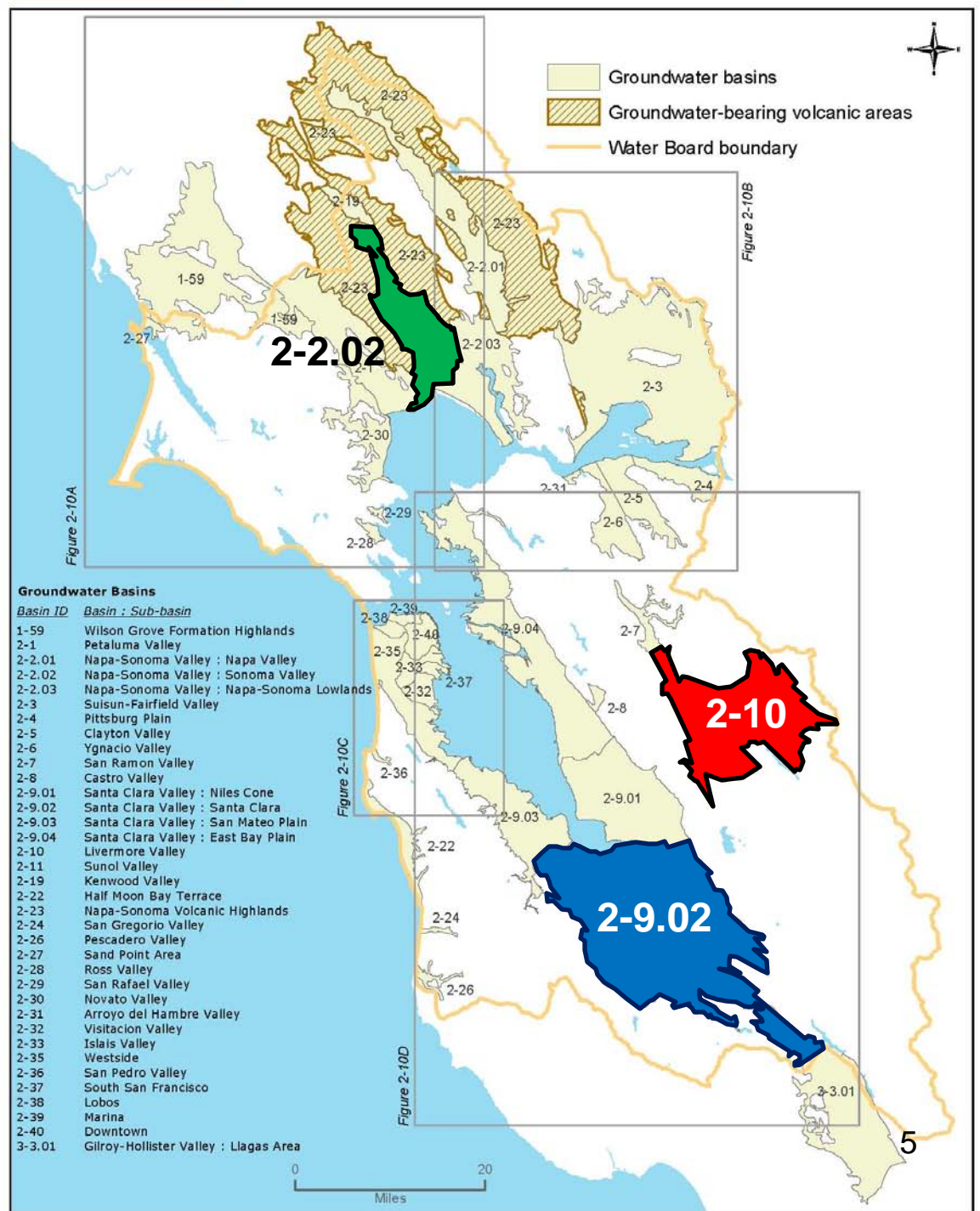


Initial SNMP Priority Basins

2-9.02: Santa Clara Valley

2-10: Livermore Valley

2-2.02: Sonoma Valley



Challenges with SNMP Development and Basin Plan Amendment

**1) Assimilative
Capacity:**

*Are average S/N
concentrations
appropriate?*

Are you kidding me?

1) Assimilative
Capacity:
*Are average S/N
concentrations
appropriate?*

2) Scientific Review:
*How robust must
baseline and
prediction scenarios
be?*

Having fun yet?

1) Assimilative Capacity:
Are average S/N concentrations appropriate?

2) Scientific Review:
How robust must baseline and prediction scenarios be?

3) Coalition Basins:
How can WB facilitate/engage in basins w/o single management entity?

Common Questions and Concerns

*1) Expectations of
other “priority”
basins?*

Since you ask...

1) Expectations of other “priority” basins?

2) Benefits to those who undertake SNMP development?

Of course you were wondering...

1) Expectations of other “priority” basins?

2) Benefits to those who undertake SNMP development?

3) Permitting recycled water projects when WQOs exceeded?

A no-brainer?

1) Expectations of other “priority” basins?

2) Benefits to those who undertake SNMP development?

3) Permitting recycled water projects when WQOs exceeded?

4) Incremental degradation vs. benefits...even when WQOs are met?

SNMP Development Schedule

Who?	Does what?	When?
Water Agency	1. Compile existing-basin specific data; water budgets	2012
	2. Identify salt/nutrient sources	
	3. Develop loading scenarios	
	4. Complete anti-degradation analysis	2013-14
	5. Complete draft SNMP	
	6. Draft CEQA documents, if necessary	
	7. Submit final SNMP plan to Regional Water Board	2014
Regional Water Board	8. Adopt basin plan amendment	2014-15

Acknowledgements

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- Keith Roberson
- Dyan Whyte

Sonoma County Water Agency

Santa Clara Valley Water District

Zone 7 Water Agency

RMC Water and Environment

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