

Groundwater Sustainability Plans

Jay Jasperse, Sonoma Water

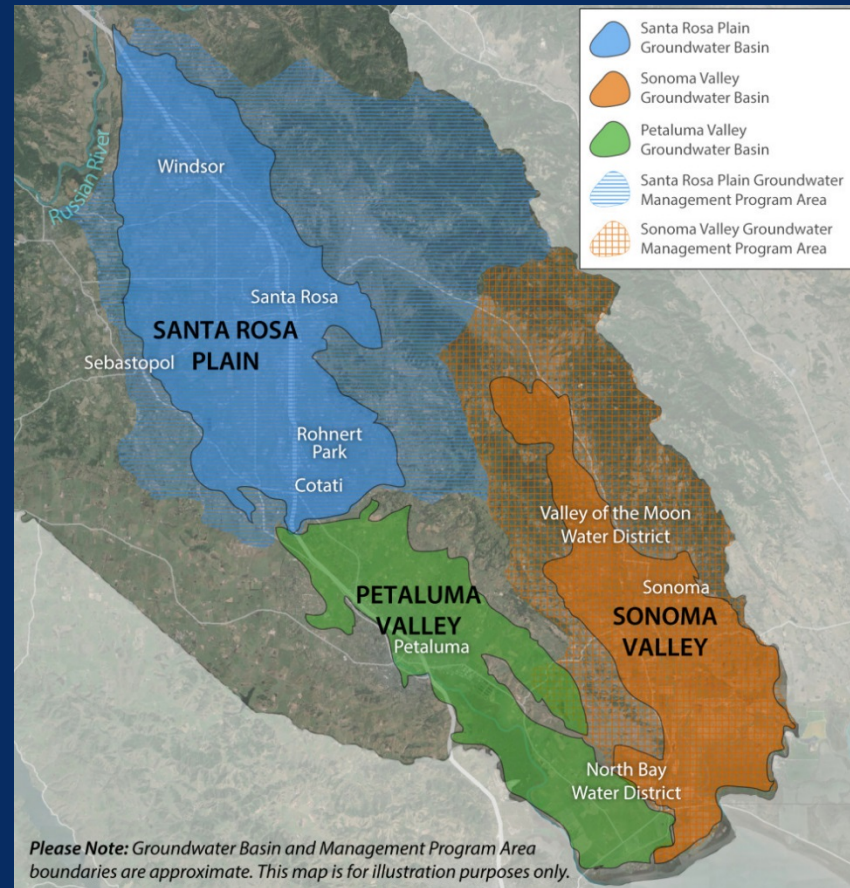
Chief Engineer and Director of Groundwater
Management



**Sonoma
Water**

2014 law prompted changes

Petaluma Valley,
Santa Rosa Plain
and Sonoma
Valley must
comply with
California's
Sustainable
Groundwater
Management Act



County and Sonoma Water Representation

Groundwater Sustainability Agency Board	County Representative	Sonoma Water Representative
Petaluma Valley	Supervisor Rabbitt*	Director Gorin
Santa Rosa Plain	Supervisor Coursey	Director Hopkins**
Sonoma Valley	Supervisor Gorin*	Director Rabbitt

* Current Chair of the Groundwater Sustainability Board

** Past Chair of the Groundwater Sustainability Agency Board

Three steps to compliance



Groundwater Sustainability Plans. . .

ARE:

- Required by the state
- Locally developed and implemented
- Quantitative analyses of basin conditions
- Adaptively managed, updated every five years and measured for success through regular monitoring

Are NOT:

- Optional
- Subject to CEQA
- Responses to the current drought or future floods
- Detailed funding plans

Plans answer these questions

What are basin conditions today and in the future?

Are these conditions sustainable?

How can the basin maintain or achieve sustainability by 2042?

Current conditions (2012-2018)

Sustainability indicator	Petaluma Valley	Santa Rosa Plain	Sonoma Valley
Groundwater levels	OK	OK	Shallow-OK Deep-Declining
Groundwater storage	OK	OK	Declining
Land subsidence	OK	OK	OK
Seawater intrusion	Data needed	N/A	Data needed
Surface water connection	Data needed	Data needed	Data needed
Water quality	OK	OK	OK

Projected future conditions (2021-2070)

Sustainability indicator	Petaluma Valley	Santa Rosa Plain	Sonoma Valley
Groundwater levels	OK	Shallow-OK Deep-Declines	Shallow-OK Deep-Declines
Groundwater storage	OK	Declining	Declining
Land subsidence	OK	OK	OK
Seawater intrusion	Data needed	N/A	Data needed
Surface water connection	Data needed	Data needed	Data needed
Water quality	OK	OK	OK

Projects and Management Actions

Project or Action	Petaluma Valley	Santa Rosa Plain	Sonoma Valley
Voluntary groundwater reduction for groundwater users	X	X	X
Increased use of recycled water	X	Plan	X
Stormwater capture and recharge	Plan	X	X
Aquifer storage and recovery (groundwater banking)	Plan	X	X

Projected conditions with actions (2021-2070)

Sustainability indicator	Petaluma Valley	Santa Rosa Plain	Sonoma Valley
Groundwater levels	OK	Shallow-OK Deep-OK	Shallow-OK Deep-Fewer declines
Groundwater storage	OK	OK	OK
Land subsidence	OK	OK	OK
Seawater intrusion	OK	N/A	OK
Surface water connection	Improved connections	Improved connections	Improved connections
Water quality	OK	OK	OK

Additional Potential Management Actions

The GSP recommends that the GSA **assess and prioritize** potential future policy options, like . . .

- Well metering for commercial, industrial and agricultural wells
- Setting limits on pumping
- Review of well permits in specific areas
- Expand low impact development or water efficient landscape requirements
- Modify county well ordinance to improve monitoring
- Permitting and accounting of water hauling

Annual costs are \$1.1-\$1.2 million

Filling data gaps and model updates (30-35% of costs)

Administration and operations (20-25%)

Monitoring and annual reporting (15-20%)

Project planning and design (10-15%)

Stakeholder engagement (5-10%)

5-year GSP update (5%)

Note: These costs do not include capital project costs

Funding could come from a variety of sources

- State and federal grants
- Local, regional, state, federal partners
- Possible fee sources:
 - Groundwater users who directly benefit from a specific project
 - Beneficiaries of a healthier groundwater system
 - New well installation

GSP is due on January 31, 2022

Local Public Review: October 1 through 31

Community Meetings: October 7, 12, and 13

Board Meetings for Public Comments: October 14, 25, 28

Public Hearings: December 6, 8, 9

DWR submittal: January, followed by 75-day public review period

Comments received

- Plan Sections were available for input throughout 2021, with hundreds of comments received and addressed
- Public comment period on Draft Plans October 1-31

Staff panelists

- Marcus Trotta, Sonoma Water Principal Hydrogeologist
- Robert Pennington, Permit Sonoma,
• Professional Geologist
- Ann DuBay, Sonoma Water, Community and Government Affairs Manager

Requested action

- Adopt resolutions in support of the Petaluma Valley, Santa Rosa Plain and Sonoma Valley Groundwater Sustainability Plans