

180/400-Foot Aquifer Subbasin GSP 2025 Evaluation

MCWRA Board of Directors Meeting June 16, 2025



180/400 Subbasin GSP 5-Year Evaluation

- DWR required evaluation of Critically Overdrafted Basins by January 2025
- Covers Water Year (WY) 2019 to WY 2023
- Developed and discussed throughout 2024 with 180/400 Subbasin Committee
- DWR 75-day public comment period ended April 12, 2025
- DWR to review no later than January 2027

180/400-Foot Aquifer Subbasin Groundwater Sustainability Plan **2025 Periodic Evaluation**



Prepared by SVBGSA and Montgomery & Associates



Evaluation Accompanied by GSP Amendment 1

- DWR approved the 2020 180/400 Subbasin GSP in June 2021
 - Included Recommended Corrective Actions (RCA).
- Prepared 180/400 Subbasin GSP Amendment 1 in 2022
 - GSP consistency with 5 other Subbasin GSPs
- SVBGSA Board adopted Amendment 1 on September 8, 2022
- DWR required 5-Year Evaluation by January 2025 and resubmittal of Amendment 1
- Evaluation provides comprehensive overview of changes from 2020 GSP to 2022 Amendment 1

OCTOBER 2023

Groundwater Sustainability Plan Implementation:

A Guide to Annual Reports, Periodic Evaluations, & Plan Amendments

Follows DWR Guidance for Periodic Evaluation

Executive Summary

- 1 Status of Data Gaps and New Information Collected
- 2 Water Use and Groundwater Conditions Relative to SMC
- 3 Status of Projects and Management Actions
- 4 Basin Setting Based on New Information
- 5 Monitoring Networks
- 6 GSA Administration, Funding, and Authorities
- 7 Outreach, Engagement, and Coordination with Other Agencies

Evaluates Groundwater Conditions Relative to Sustainable Management Criteria (SMC)

- 5 years of data (WY2019-2023)
- Compare conditions to SMC
- Review impact on beneficial users
- Evaluate Sustainable Management Criteria (SMC)



Water Use Higher in Dry Years

Average water use = 134,640 AF/yr



Average groundwater extraction = 117,960 AF/yr



Sustainable Management Criteria Summary

	Groundwater Levels	Seawater Intrusion	Groundwater Storage	Groundwater Quality	Land Subsidence	Depletion of ISW
WY 2019	X	X	\checkmark	\checkmark	\checkmark	\checkmark
WY 2020	X	X	\checkmark	\checkmark	\checkmark	\checkmark
WY 2021	X	X	X	\checkmark	\checkmark	\checkmark
WY 2022	Χ	Χ	Χ	\checkmark	\checkmark	X
WY 2023	Χ	Χ	\checkmark	\checkmark	\checkmark	\checkmark

X = Undesirable Result √ = No Undesirable Result

Groundwater Level Undesirable Results

Aquifer	Less Than 15% of RMS Wells are Exceeding their Minimum Threshold				More Than 15% of RMS Wells are Exceeding their Minimum Threshold				
	Percent of RMS Wells Below Minimum Thresholds								
	2019	2020	2021		2022	2023			
180-Foot Aquifer	0	9%	9%		37%	6%			
400-Foot Aquifer	11%	0	13%		34%	7%			
Deep Aquifers	45%	100%	82%		78%	55%			
Subbasin Groundwater Level Undesirable Result	2019 Undesirable Result	2020 Undesirable Result	2021 Undes Result	irable t	2022 Undesirable Result	2023 Undesirable Result			





Achieving Groundwater Sustainability



Summary of Project and Management Action Activities

- Feasibility studies underway
 - CSIP Optimization (MCWRA)
 - Brackish Groundwater Restoration Project (aka Seawater Intrusion Extraction Barrier)
 - Aquifer Storage and Recovery
 - Demand Management
- Feasibility studies getting started
 - Castroville and Eastside Canals and Alternatives (Permit 11043)
 - New Seawater Intrusion Project (NSIP)
- Other PMA activities
 - M1W Chlorine Scrubber Upgrade
 - Multi-benefit Stream Channel Maintenance
 - Somavia Road Irrigation Supply
 - Multi-benefit Land Repurposing Program



Summary of Progress Towards Meeting Sustainable Management Criteria

- ✓ Need to address seawater intrusion
- ✓ Seawater intrusion measurable objective may be too ambitious
- Need to address groundwater levels, particularly in the Deep Aquifers
- ✓ Need to address overdraft and pumping to Sustainable Yield

Plan to Align Next Evaluation with other 5 Subbasins

- 5-Year Evaluations for other GSPs due January 2027
- Plan for 180/400 GSP 2-Year Evaluation concurrently
- Iterative Process
- Project selection process to determine PMA to continue to move forward
- Integrated Implementation approach recommended



How to review the 180/400-Ft. Aquifer Subbasin GSP 5-Year Evaluation

Documents posted on SVBGSA website:

https://svbgsa.org/180-400-ft-aquifer/

Documents posted on DWR website:

https://sgma.water.ca.gov/portal/gsp/ periodiceval/preview/24

Comments submitted to DWR:

- California Department of Fish and Wildlife
- City of Marina
- Community Water Center
- Community Alliance with Family Farmers
- Salinas Basin Water Alliance
- Salinas Valley Water Coalition
- California Water Service (Cal Water)
- California American Water (Cal Am)
- Landwatch



Questions?

For more information Contact Sarah Hardgrave Deputy General Manager <u>hardgraves@svbgsa.org</u>

