

WSJ GSA
Groundwater Sustainability Plan
Implementation Status Update
Stakeholder Outreach, Fall 2024

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Principal Engineering Geologist
October 2, 2024

Agenda

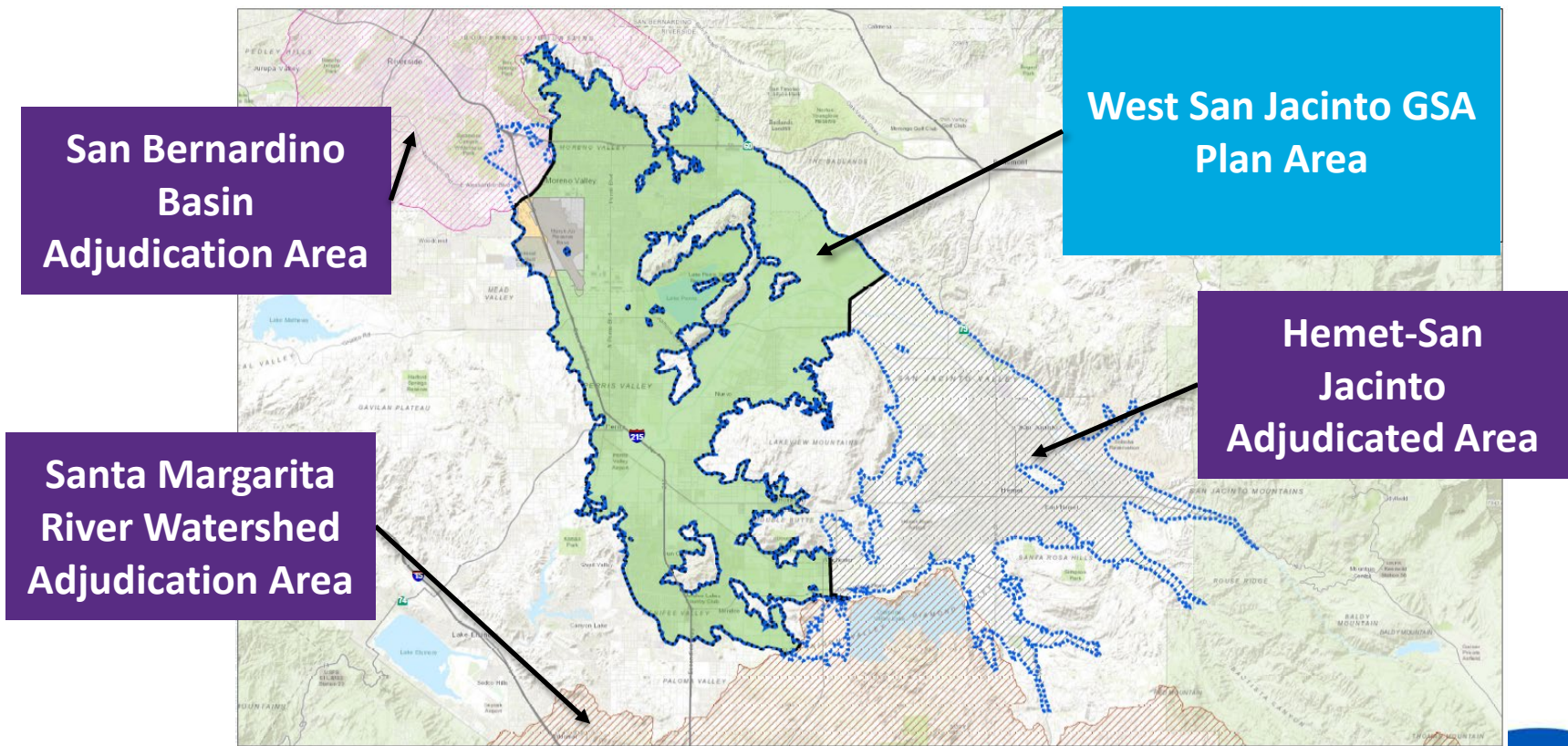
- Introduction
- GSP Refresher
- GSP Implementation Activities
- Update on Stakeholder Engagement Opportunities
- Open Discussion

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- **GSP Refresher**
- GSP Implementation Activities
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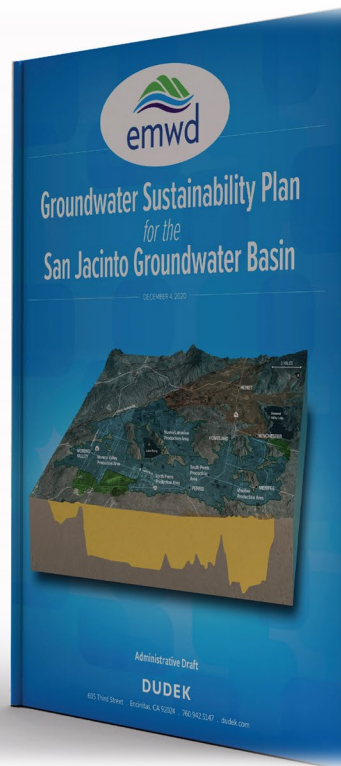
Sustainable Groundwater Management Act (SGMA)

- EMWD is the West San Jacinto Groundwater Sustainability Agency (WSJ GSA) for the non-adjudicated portion of the San Jacinto Groundwater Basin, which was designated as a high priority groundwater basin by DWR



Sustainable Groundwater Management Act

- EMWD Board of Directors, acting as the West San Jacinto GSA, approved & adopted the GSP on September 15, 2021.
- **DWR Approved the GSP on April 27, 2023.**

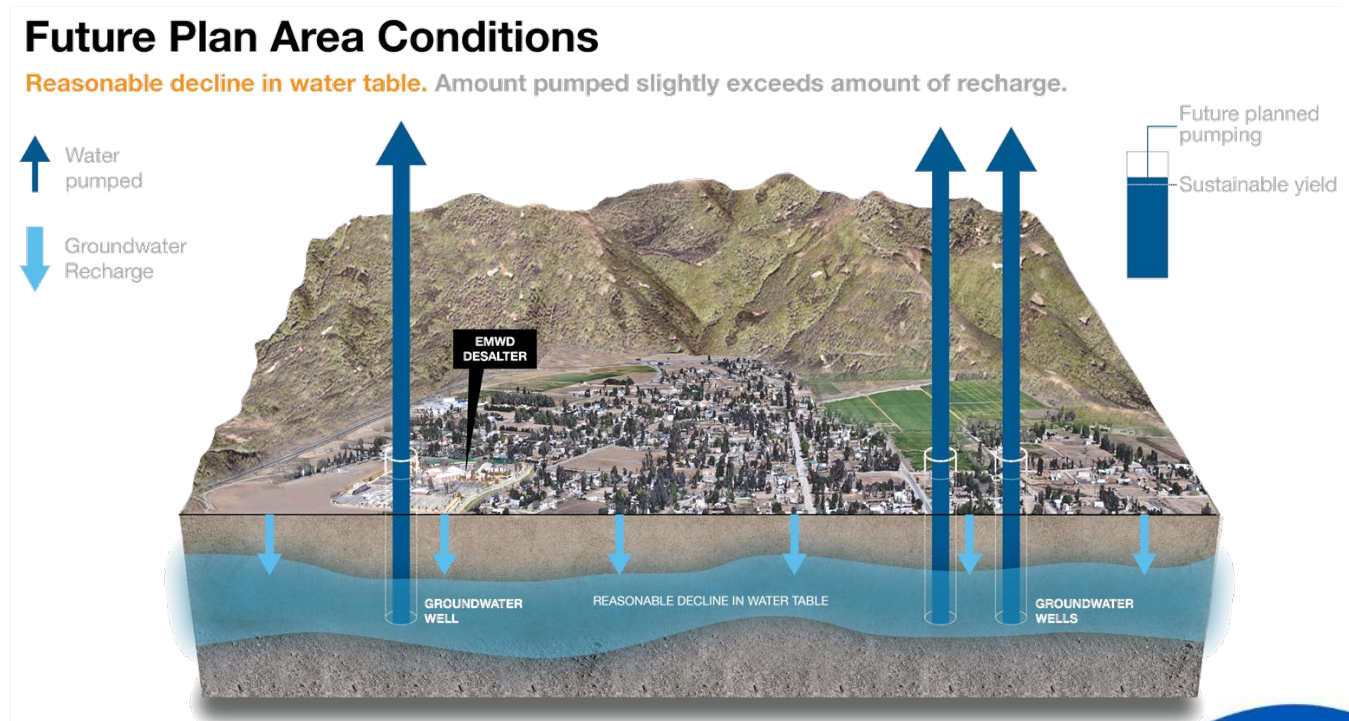


GSP Outline

- **Chapter 1** Introduction, duties, responsibilities and powers of the GSA
- **Chapter 2** Technical background: basin setting, water budget, and sustainable yield
- **Chapter 3** Sustainable Management Criteria and Monitoring Plan
 - Sustainability Goal,
 - Measurable Objectives,
 - Minimum Thresholds,
 - Recommend metering all extraction >2 AFY
- **Chapter 4** Projects and Management Actions
 - Planned
 - Potential (if needed)
- **Chapter 5** GSP Implementation

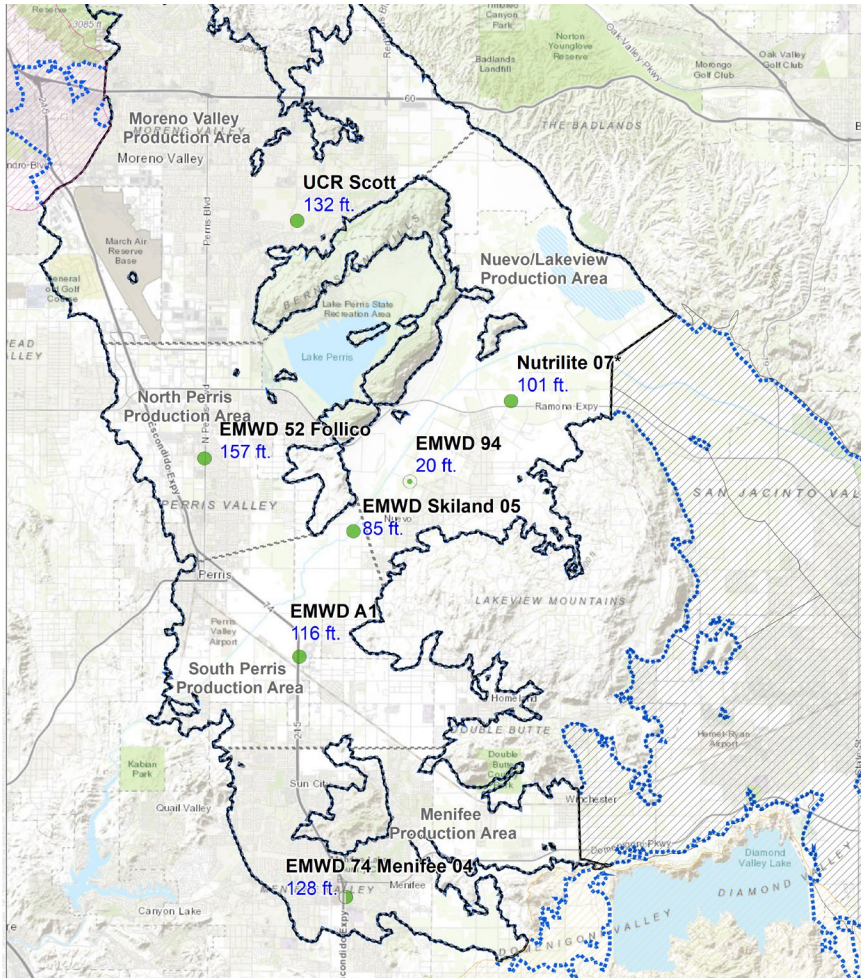
Sustainability Goal for the GSP Plan Area

1. Maintain groundwater in storage
2. Minimize migration of brackish groundwater
3. Avoid subsidence related to groundwater production
4. Avoid significant & unreasonable loss of groundwater dependent ecosystem habitat



Pg. 3-1 of the San Jacinto Groundwater Basin GSP.

How is Sustainability Measured: Groundwater Levels



GSP Objectives: Water Levels

- Aquifer saturation >70%
- Measured at 7 representative monitoring points

FIGURE 2-3

Water Level Representative Monitoring Points

EASTERN MUNICIPAL WATER DISTRICT San Jacinto Groundwater Basin Groundwater Sustainability Plan 2024 Annual Report

Legend

- San Jacinto Groundwater Basin
- Plan Area
- Production
- Adjudicated Hemet-San Jacinto Basin
- San Bernardino Basin Area
- Santa Margarita River Watershed

Groundwater Level Representative Monitoring Points

- Quality
- Level
- Quality, Level

152 ft. Spring 2023 Groundwater Elevation Height Above Measurable Objective

How is Sustainability Measured: Groundwater Quality

GSP Objectives: TDS

- Minimum Threshold: 1,000 mg/L
- Measurable Objective: 520 mg/L

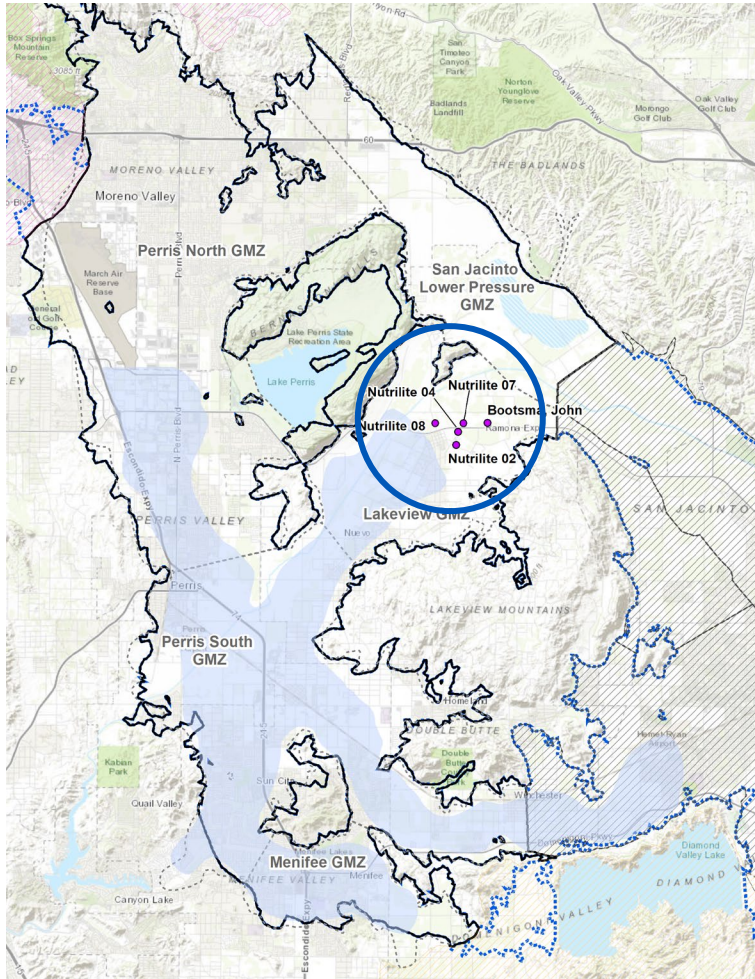
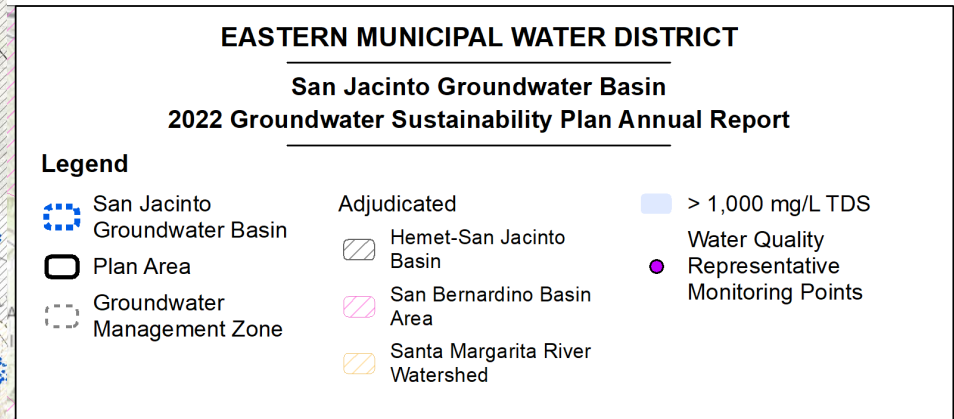


FIGURE 2-14

Water Quality Representative Monitoring Points



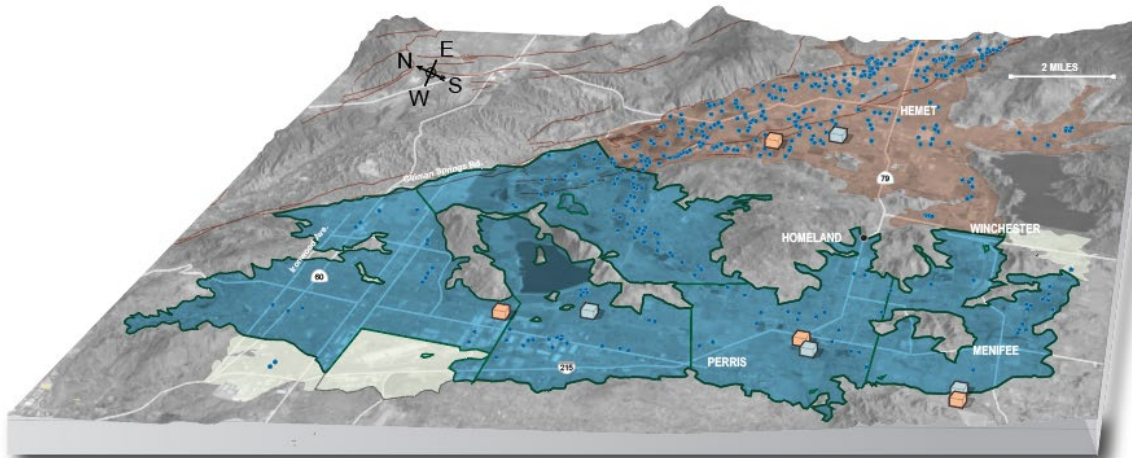
Furthering Groundwater Sustainability in the SJGB

Water Supply & Resiliency Projects

- Perris North Groundwater Program
- Expansion of the Perris South Desalter Complex

Groundwater Activities: Data Gaps

- Inventory of Domestic Wells in the GSP Plan Area
- Evaluation of Groundwater Dependent Ecosystems & Interconnected Surface Water
- Additional modeling & technical studies



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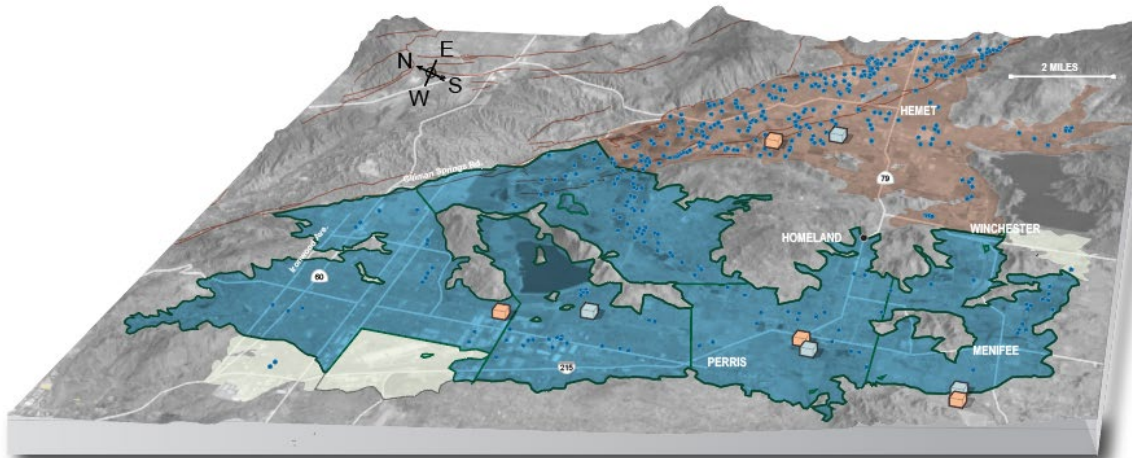
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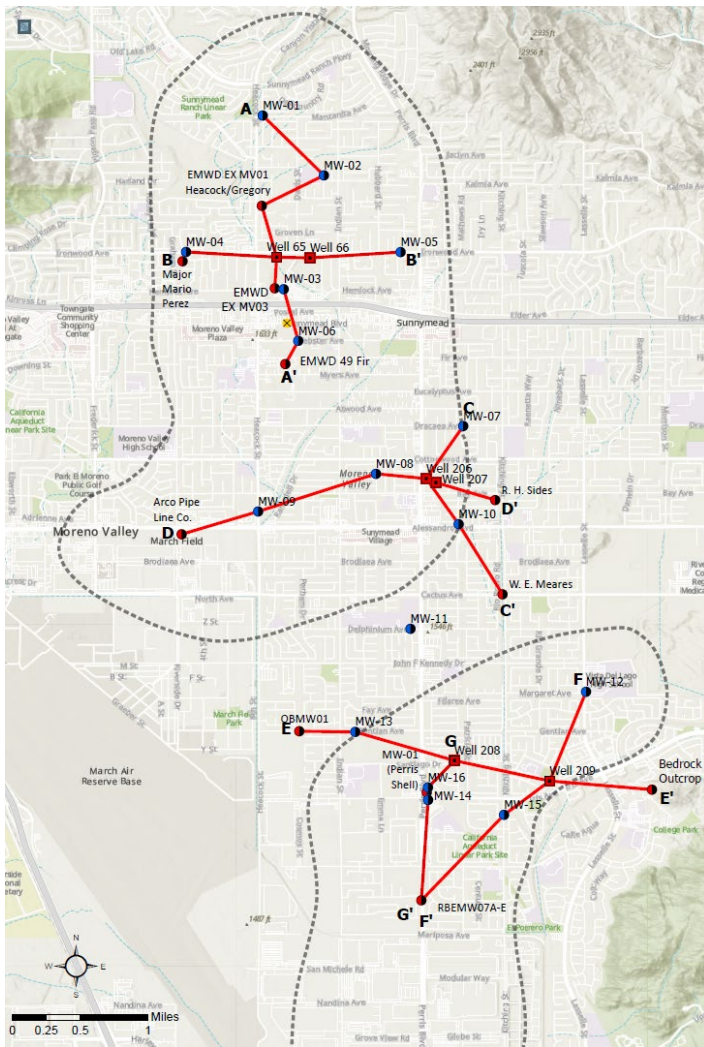
Perris North Groundwater Program

Project Goal

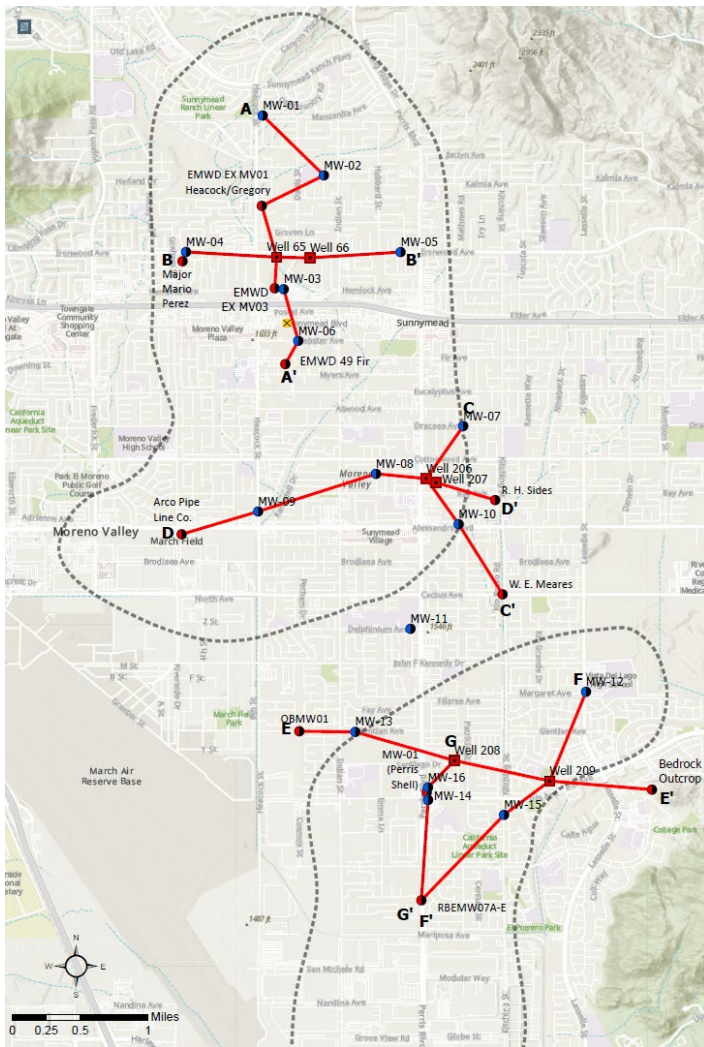
Improve groundwater quality in the Perris North Groundwater Management Zone & provide a safe & reliable water supply for surrounding communities

Consistency with the Sustainability Goal

Improve & protect beneficial uses by implementing a non-point source contamination remediation project



Perris North Groundwater Program



Activities Accomplished in WY 2024

- Contracted drilling & hydrogeologic oversight for 14 nested monitoring wells
- Drilling activities started Q3/2024

Activities Anticipated in WY 2025

- Construction completion of 14 nested monitoring wells
- Contracting of drilling & hydrogeologic oversight for a single well cluster
- Baseline water quality sampling
- Phase 3 pipeline construction to connect program wells to the Perris North Groundwater Treatment Facility

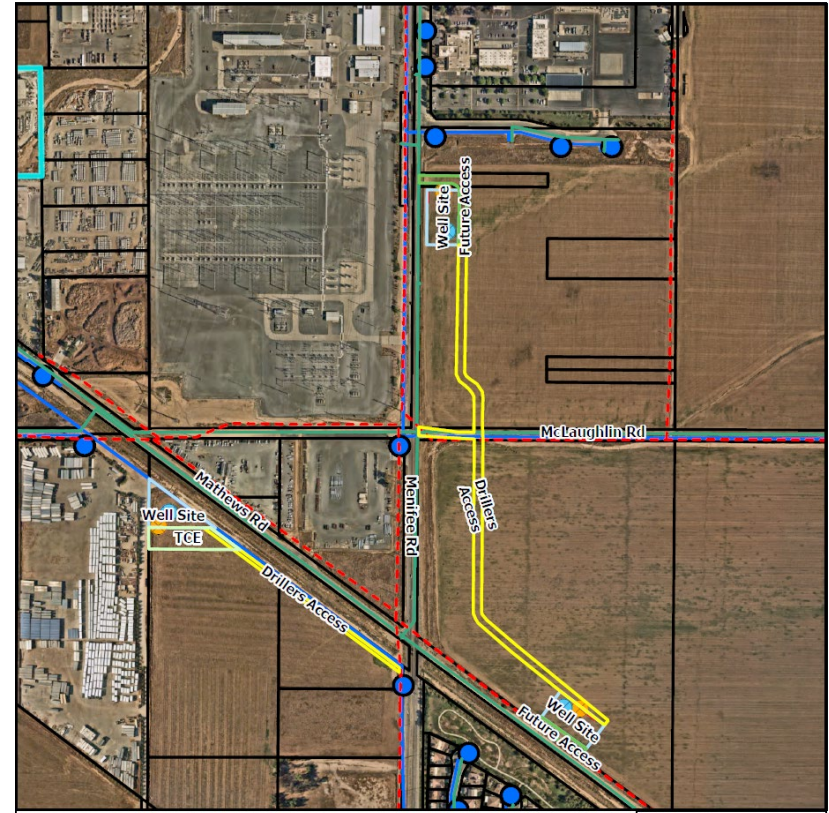
South Perris Brackish Well Siting Study (Desalter)

Project Goal

Improve understanding of subsurface conditions to support expansion of EMWD's Desalter Complex

Consistency with the Sustainability Goal

Protect beneficial uses by creating new sources of potable water supply through expansion of EMWD's Desalter program



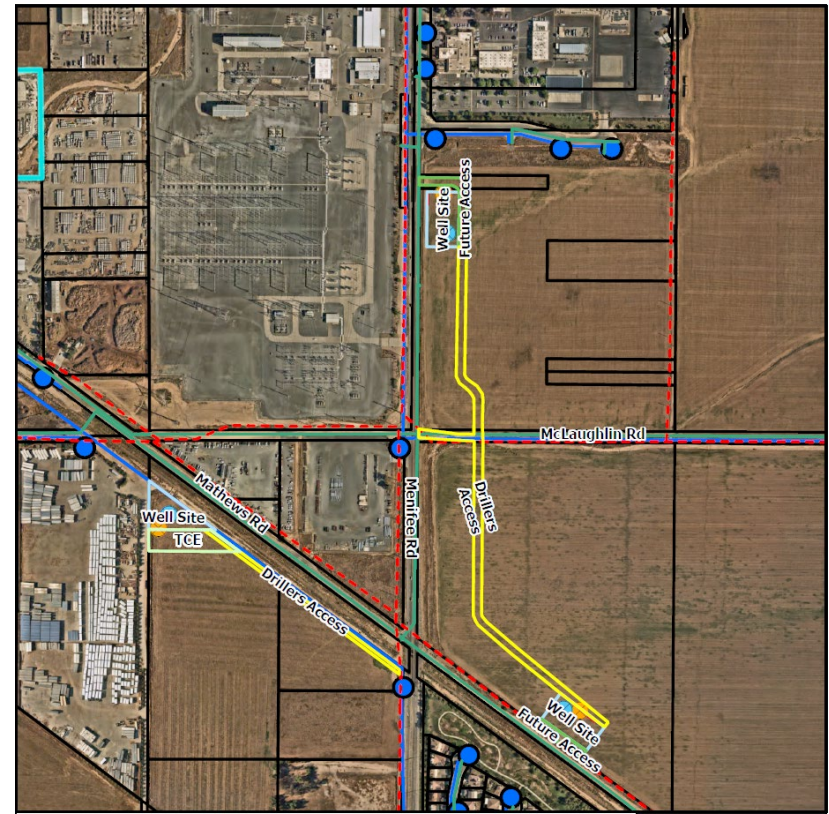
South Perris Brackish Well Siting Study (Desalter)

Activities Accomplished in WY 2024

- Continued partnership with USACOE by setting up exploratory drilling scope of work/drilling costs & amended funding agreements
- Reached out to property owners of 6 potential desalter wells sites with acquisition of 1 new site

Activities Anticipated in WY 2025

- Finalize funding & agreements with USACOE
- Complete exploratory drilling at 3 potential desalter well sites
- Acquisition of 2 additional well sites



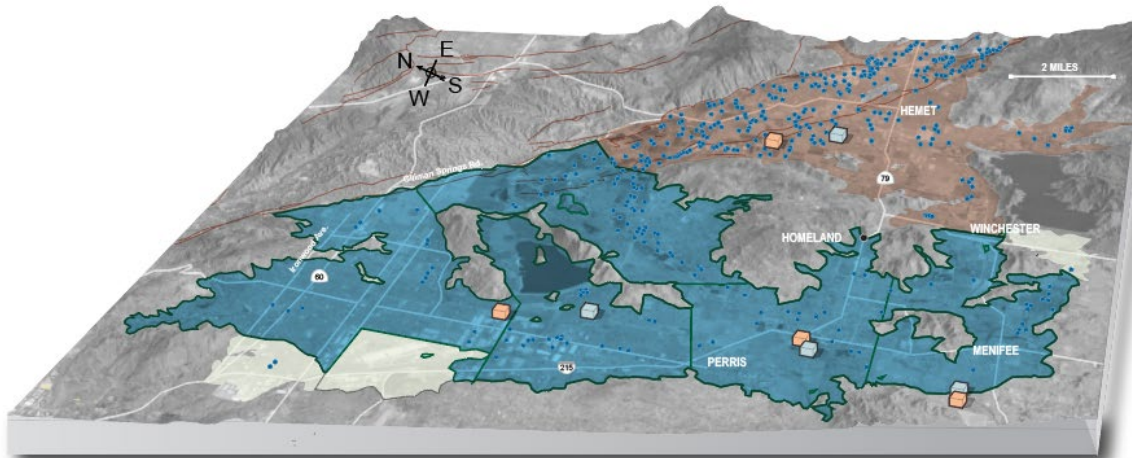
Furthering Groundwater Sustainability in the SJGB

Water Supply & Resiliency Projects

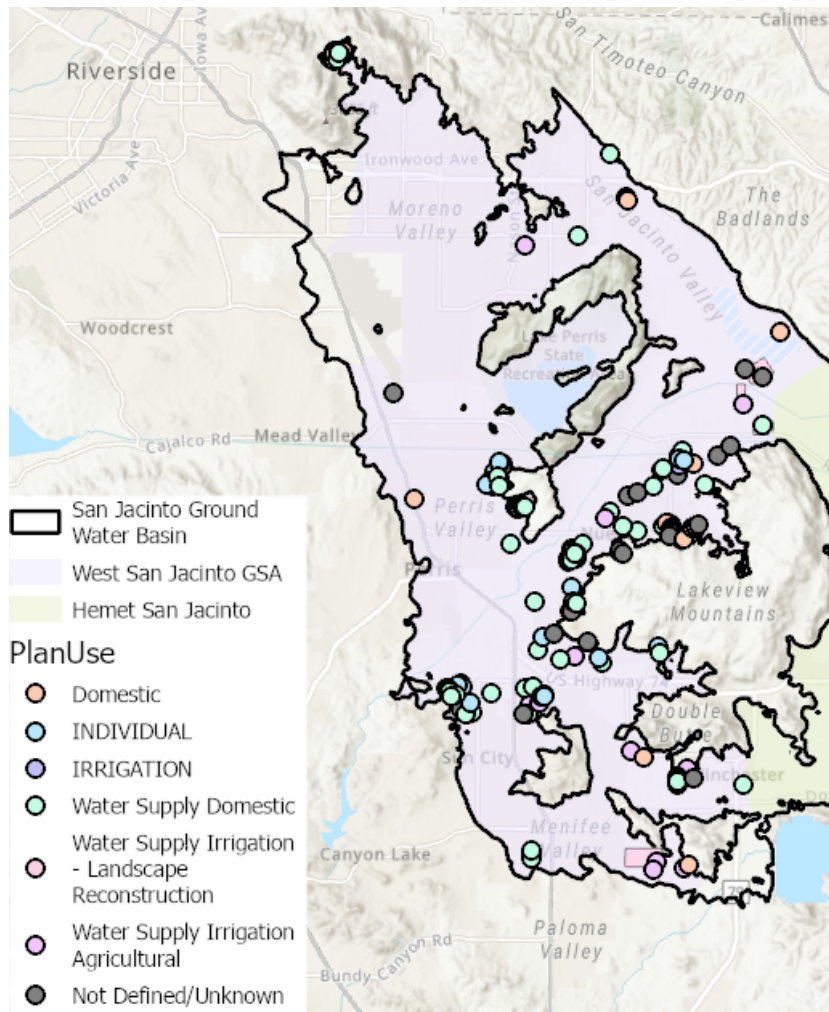
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Groundwater Activities: Data Gaps

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Inventory of Domestic Wells in the Plan Area



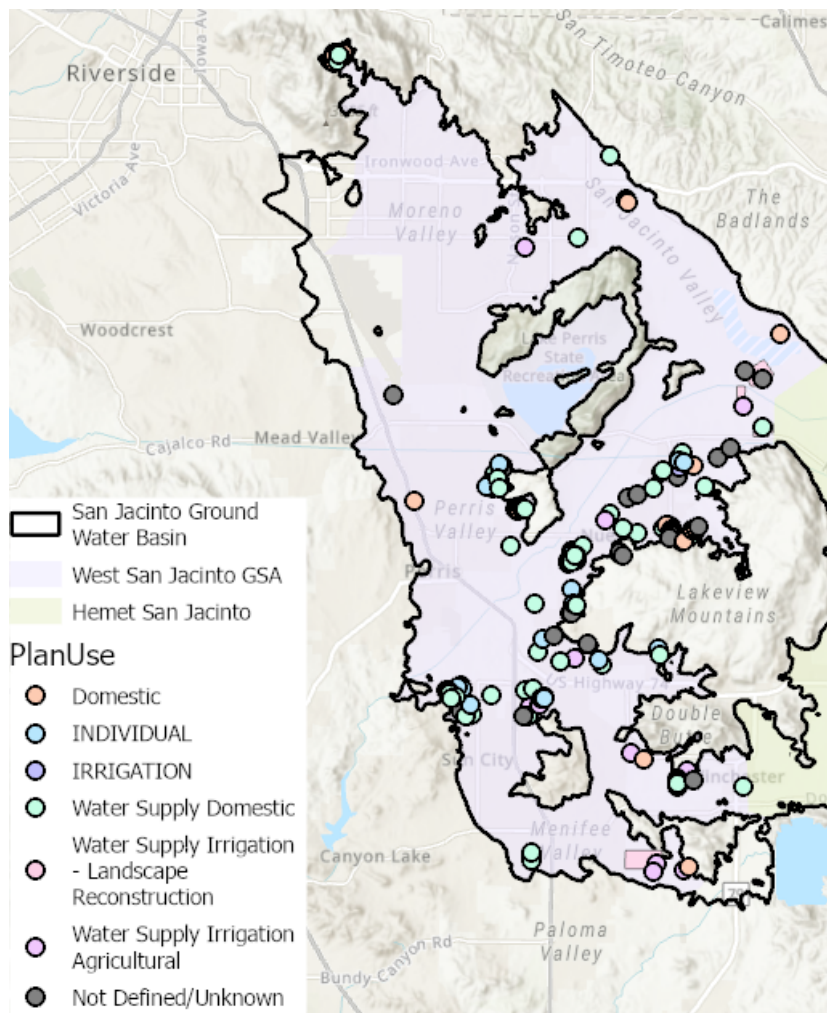
Objective

Characterize the status & location of domestic wells within the GSP Plan Area

Consistency with the Sustainability Goal

Improved characterization of beneficial uses in the GSP Plan Area

Inventory of Domestic Wells in the Plan Area



Activities Accomplished 2025

Identified 123 domestic wells in the GSP Plan Area

Activities Anticipated in WY 2025

Evaluate potential impacts to domestic well users

- Groundwater levels / accessibility
- Groundwater quality

Evaluation of Groundwater Dependent Ecosystems

Objective

Improve characterization of habitat identified as potentially groundwater depended in the GSP

Consistency with the GSP

Ensuring the groundwater production does not result in a significant & unreasonable loss of GDEs



Poorman's Reservoir,
Moreno Valley, CA

Evaluation of Groundwater Dependent Ecosystems

Activities Accomplished in WY 2024

- Initial field reconnaissance to verify the presence of GDEs in the GSP Plan Area

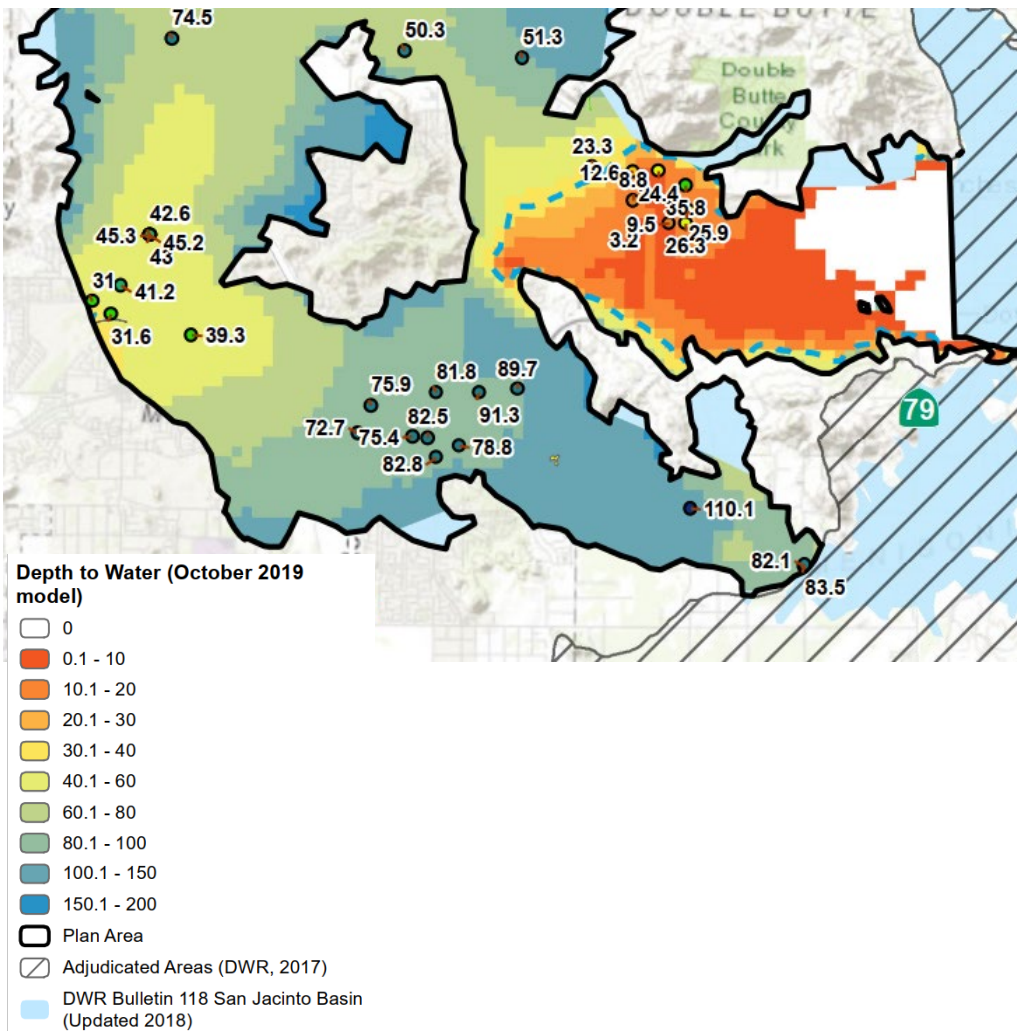
Activities Anticipated in WY 2025

- Potential additional field work to improve monitoring at potential GDEs identified in the initial field reconnaissance



Poorman's Reservoir,
Moreno Valley, CA

Interconnected Surface Water



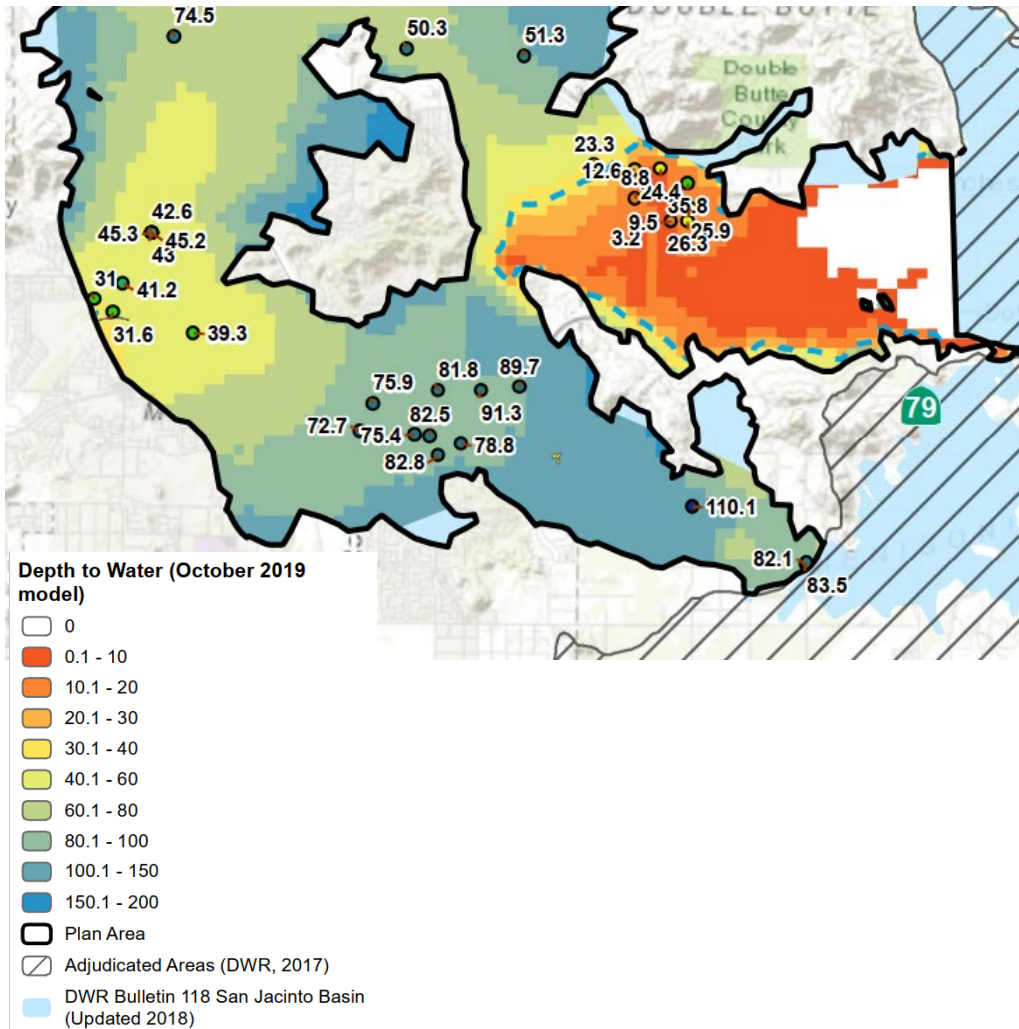
Objective

Improve characterization of depletion of ISWs due to groundwater pumping in the GSP Plan Area

Consistency with the Sustainability Goal

Ensuring the groundwater production does not result in a significant & unreasonable loss of GDEs

Interconnected Surface Water



Activities Anticipated in WY 2024

- Development of a work plan that will outline the technical approach to better characterize interconnected surface water in the GSP Plan Area

Activities Anticipated in WY 2025

- Execution of study & field work to understand interconnected surface water in the GSP Plan Area

Summary: Activities Planned For Water Year 2025

Water Supply & Resiliency Projects

- Perris North Groundwater Program:
 - New Monitoring wells
 - Baseline Sampling in Spring 2025
- Desalter Complex:
 - Exploratory borings

Monitoring

- Water levels monitoring in spring & fall
- Water quality sampling activities occur throughout the year

Planning

- Interconnected Surface Water Study
- 2025 GSP Annual Report (WY 2024)
- Preparation for the First GSP Periodic Evaluation
 - due to DWR by November 17, 2026

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Updates to Engagement Opportunities



GSA Information & Upcoming Engagement Opportunities

GSA Board Meeting

October 16, 2024

Next GSA Stakeholder Meeting

Q2 2025



Open Discussion





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**Stay up to date on EMWD's SGMA activities:
[https://www.emwd.org/what-we-do/
water-supply/groundwater/
sustainable-groundwater-management-act](https://www.emwd.org/what-we-do/water-supply/groundwater/sustainable-groundwater-management-act)**