

2024 GROUNDWATER SUSTAINABILITY PLAN ADOPTION

Stockton City Council

City of Stockton Groundwater Sustainability Agency

February 4, 2025

Agenda Item No. 15.2

Municipal Utilities Department (MUD)

Water Utility

- Treat & deliver high-quality drinking water to the community

Wastewater Utility

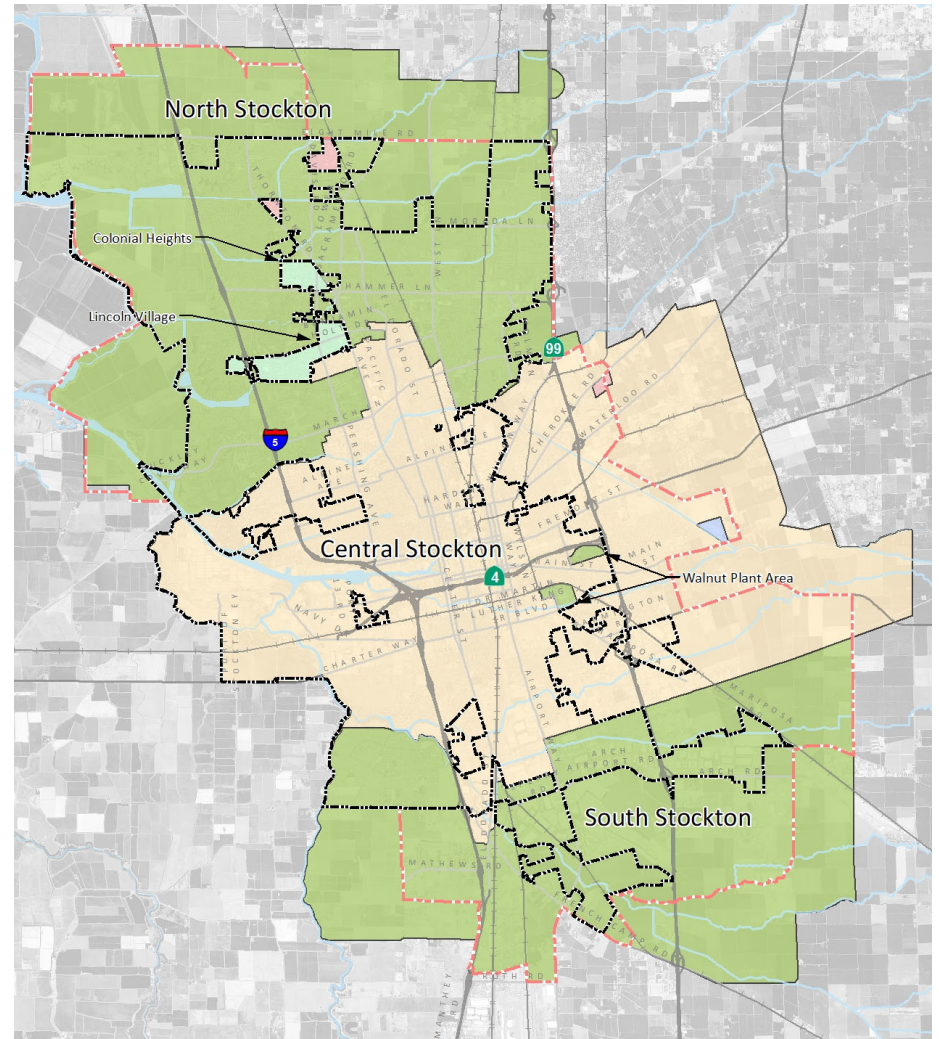
- Collect, treat and recover wastewater for the greater Stockton area

Stormwater Utility

- Collect & discharge surface runoff in City to rivers and local flood basins

City of Stockton Water Service Areas

- **MUD** serves North and South Stockton
- **California Water Service Company** serves Central Stockton



Drinking Water - Surface Water Sources

- **San Joaquin and Mokelumne Rivers**
 - Treated at City's Delta Water Treatment Plant
- **Calaveras and Stanislaus Rivers**
 - Treated at Stockton East Water District Water Treatment Plant



Drinking Water - Groundwater Supplies

- Groundwater wells ensure continued water supply, quality, reliability, and drought resiliency for the City.
- Used conjunctively with surface water supplies
- **North Stockton** - 6 active wells
- **South Stockton** - 3 active wells



South Stockton System Water Well #8

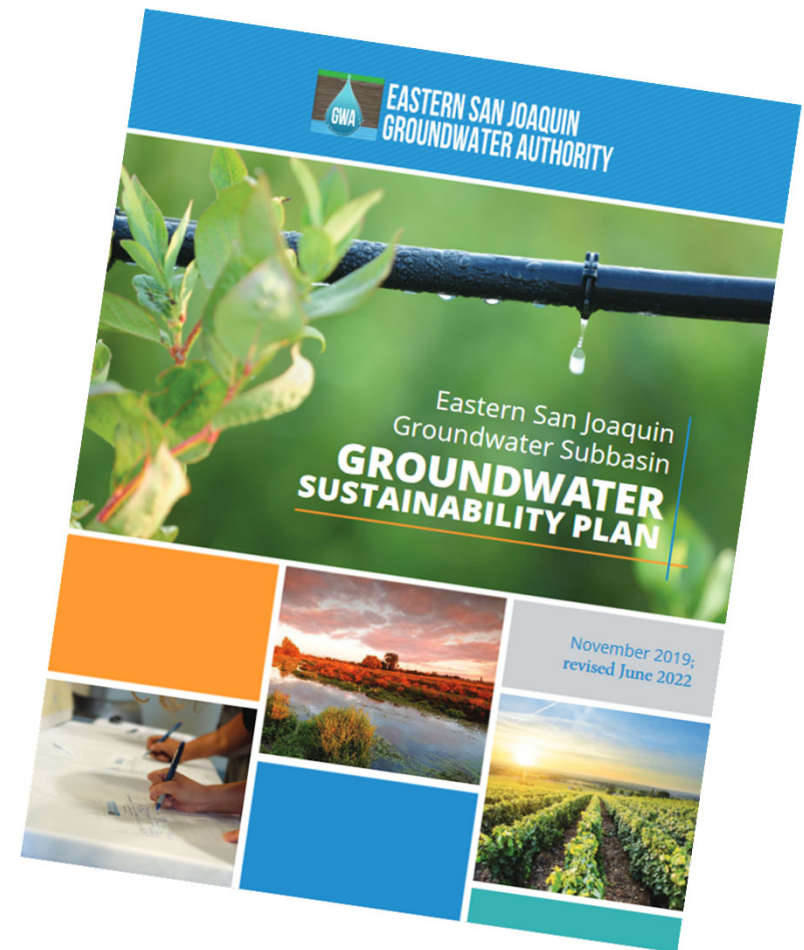


- **Project** - Well Rehabilitation
- **Location** – Ernie Shropshire Park
- **Project Cost** - \$4.8M
- **Project Completion** - 2024
- **Capacity** – 1,500 gpm



Sustainable Groundwater Management Act

- California State law passed in 2014
- Sustainable Groundwater Management Act, or SGMA, is statewide legislation that establishes a path for the sustainable local management of groundwater
- Includes Urban, Agricultural and Environmental Interests

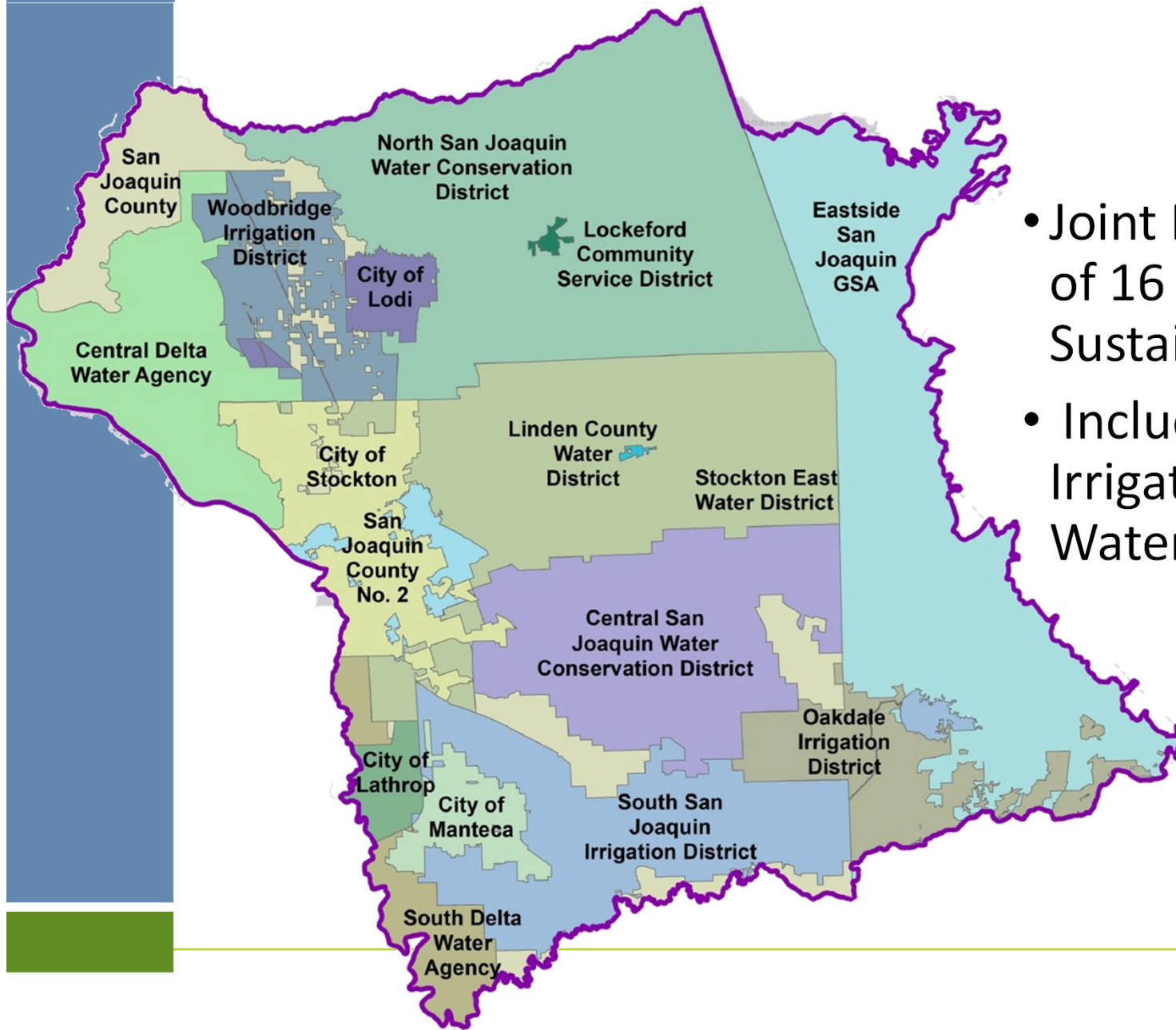


Groundwater Basin Setting

- The **Eastern San Joaquin Groundwater Subbasin** (Subbasin) is one of 21 basins identified by the California Department of Water Resources (DWR) as being in a state of critical overdraft
- SGMA requires formation of **Groundwater Sustainability Agencies** and preparation of a **Groundwater Sustainability Plan (GSP)**



Eastern San Joaquin Groundwater Authority



- Joint Powers Authority of 16 Groundwater Sustainability Agencies
- Includes Cities, County, Irrigation Districts & Water Agencies

What Does SGMA Require?

- **Groundwater Sustainability Agencies (GSAs)** must prepare and submit **Groundwater Sustainability Plans (GSPs)**
- GSPs must include measurable objectives and milestones to achieve sustainability within 20 years of adoption
- GSAs must assess progress after initial GSP submittal through Periodic Evaluations (PEs)
- GSP development must be open and transparent
- Updates every 5 years
- First GSP adopted and submitted to State in 2020

The 2024 GSP – What's In It?

1. Agency Information, Plan Area, & Communication
2. Basin Setting
 - Hydrogeologic Conceptual Model
 - Current & Historical Conditions
 - Water Budget
- 3. Sustainable Management Criteria**
4. Monitoring Networks
5. Data Management System
6. Projects & Management Actions
7. Plan Implementation
8. References

Statewide Basin Sustainability Indicators

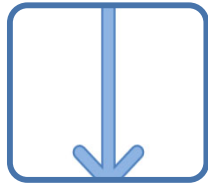
- Chronic Lowering of Groundwater Levels
- Reduction in Groundwater Storage
- Seawater Intrusion
- Degraded Water Quality
- Land Subsidence
- Depletion of Inter-connected Surface Water

Periodic Evaluation & Plan Submission

- SGMA requires that GSAs evaluate the GSP every 5 years and whenever the Plan is amended to:
 - Status of groundwater conditions
 - Meeting interim milestones & measurable objectives
 - Advancement of projects and management actions
- ESJ Subbasin first Periodic Evaluation along with the 2024 Amended GSP
 - Together, these documents address the eight (8) Recommended Corrective Actions

Department of Water Resources

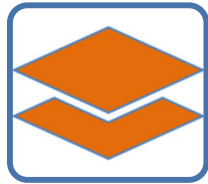
Recommended Corrective Actions (RCAs)



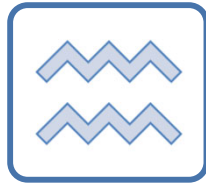
1) Justify GWL MT and undesirable results



5) Add additional justification for 2,000 mg/L chloride isocontour line



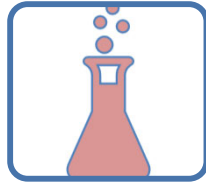
2) Revise subsidence SMC using direct subsidence monitoring data



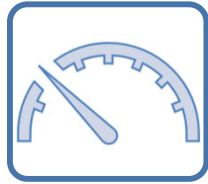
6) Revise ISW SMC and monitoring network



3) Update water budgets using recalibrated model



7) Improve Rep MN for GWQ



4) Revise estimate for reduction of groundwater storage volume and UR definition



8) Develop chloride isocontour line in western portion of Subbasin

2024 GSP Amendment & Periodic Evaluation

GWA continues to make significant progress toward achieving sustainability goals. This progress includes the following:

- Most monitoring wells show groundwater levels at or above their measurable objectives with interim milestones being met throughout the subbasin
- Groundwater quality in the subbasin remains suitable to support beneficial uses and is expected to surpass measurable objectives with no exceedances of minimum thresholds observed
- Groundwater quality should meet measurable objectives or minimum thresholds over the next five years
- GSP and other documents published on ESJ Groundwater Authority Website: esjgroundwater.org

Recommendation

- 2024 GSP recommended by Water Advisory Group and Council Water Committee (October 2024)
- City Council, acting as the GSA, adopt the ESJ Subbasin 2024 Groundwater Sustainability Plan Amendment and all other recommended actions

GWA – Actions to Complete 5-Year Update

Address 8
recommended
corrective actions



Prepare 2024 GSP
Amendment



Prepare Subbasin's first
Periodic Evaluation



Hold public open
house & public
review period



GSA adoption of GSP
Amendment & approval
of Periodic Evaluation



Submit all
documentation



GSP Development Timeline

✓	January 2020	GWA submits first GSP to Dept. Water Resources (DWR)
✓	January 2022	DWR completed review & identifies GSP deficiencies
✓	July 2022	GWA submits 2022 revised GSP
✓	July 2023	GWA receives DWR GSP approval with 8 corrective actions
✓	October 2024	Presentation of 2024 GSP to City Water Advisory Group and Council Water Committee
		City Council Adoption