General SGMA Webinar on Groundwater Sustainability Planning



Jointly Hosted By the Department of Water Resources and the State Water Board February 18, 2021



CALIFORNIA DEPARTMENT OF WATER RESOURCES SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE



Agenda Overview

• Introduction: California's Groundwater Management

- SGMA Regulatory Framework: GSP Assessments
 - \circ $\,$ Public Question and Answer $\,$

- State Assistance: Implementation
 - Public Question and Answer



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How to Ask Questions

Staff (3)						
Staff (3)						
Staff (3)						
Adam Nickels (Presenter) 🛛 🗸 ^						
Heather Waldrop (Panelist)						
▼ Questions						
Q: Khandriale Clark						

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California's Groundwater Management



Environment

Businesses

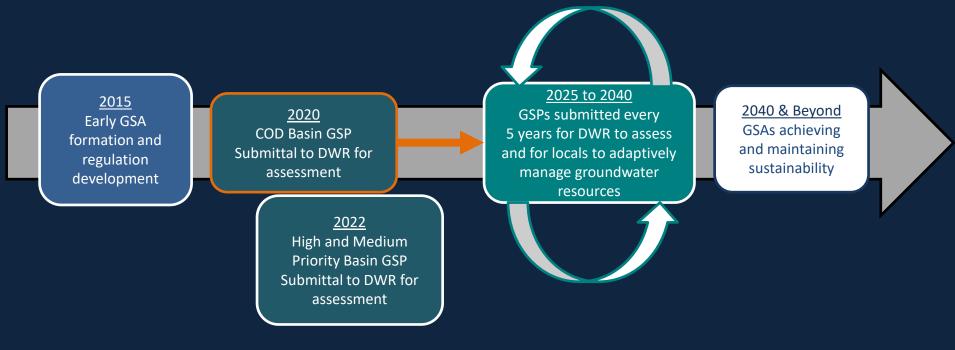
Effective statewide groundwater management is imperative to ensuring the State's future water supply reliability and system resiliency.

A Paradigm Shift To Comprehensive Water Management

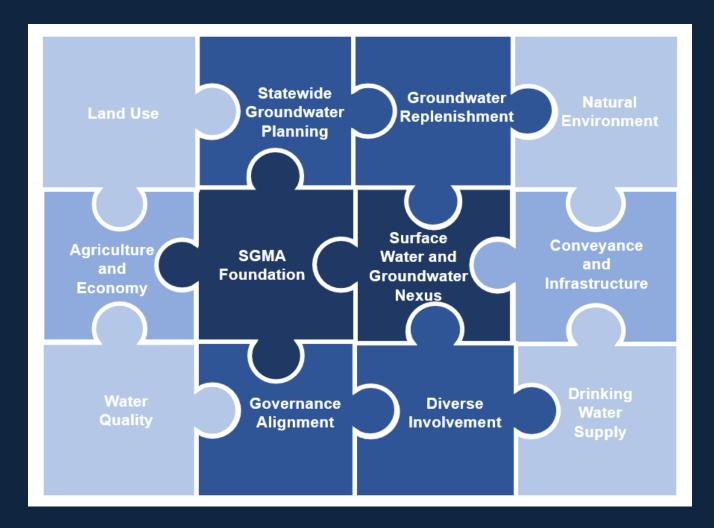
For over 100 years, surface water has been actively managed in California Sustainable groundwater management is a new statewide effort



Looking Forward to Implementation: SGMA's 20-Year Plan Horizon



Opportunities of Groundwater Management



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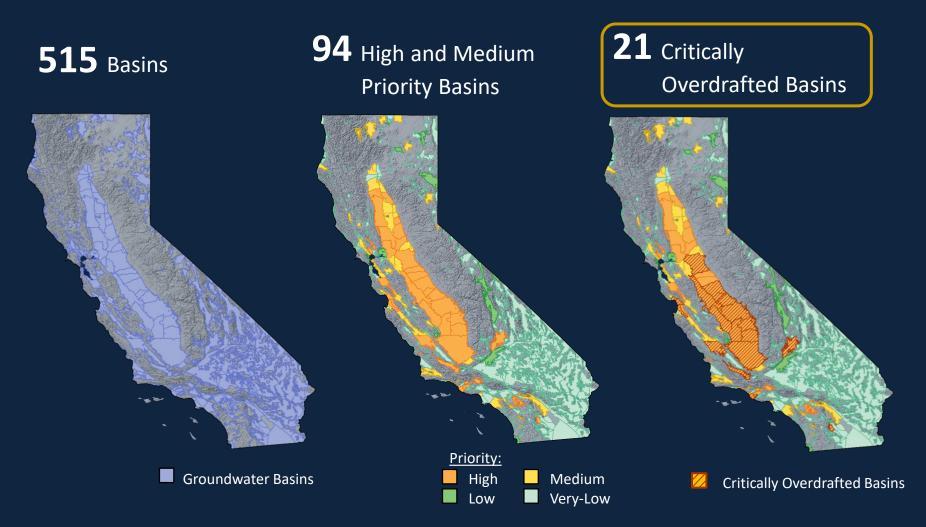
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Where Are We At?



The high and medium priority basins cover 96% of groundwater use and 88% of California's overlying population.

Groundwater Sustainability Plans (GSP) Regulation



- Local GSAs required to develop and implement GSPs for all high and medium priority basins
 - **1.** Introductory Provisions
 - 2. Definitions
 - 3. Technical & Reporting Standards
 - 4. Procedures
 - 5. Plan Contents
 - 6. Department Evaluation & Assessment
 - 7. Annual Reports and Periodic
 - **Evaluations by the Agency**
 - 8. Interagency Agreements
 - 9. Alternatives

Plan Contents

1. Administrative Information

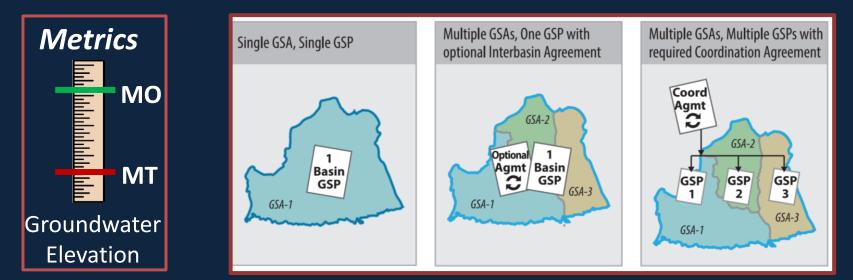
2. Basin Setting

- Hydrogeologic Conceptual Model
- Groundwater Conditions
- Water Budget
- Management Areas

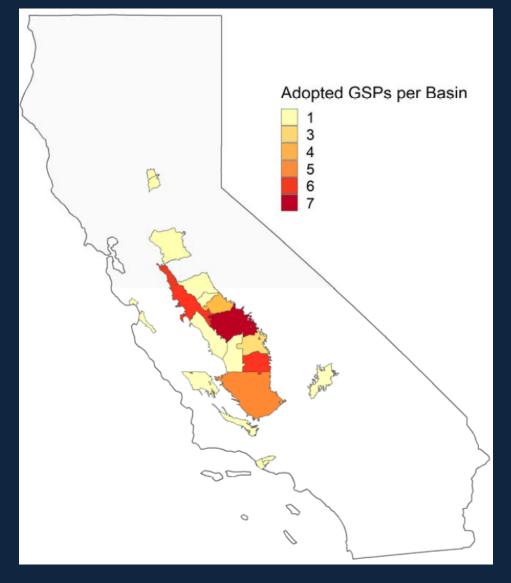
3. Sustainable Management Criteria

- Sustainability Goal
- Undesirable Results
- Minimum Thresholds
- Measurable Objectives
- 4. Monitoring Networks

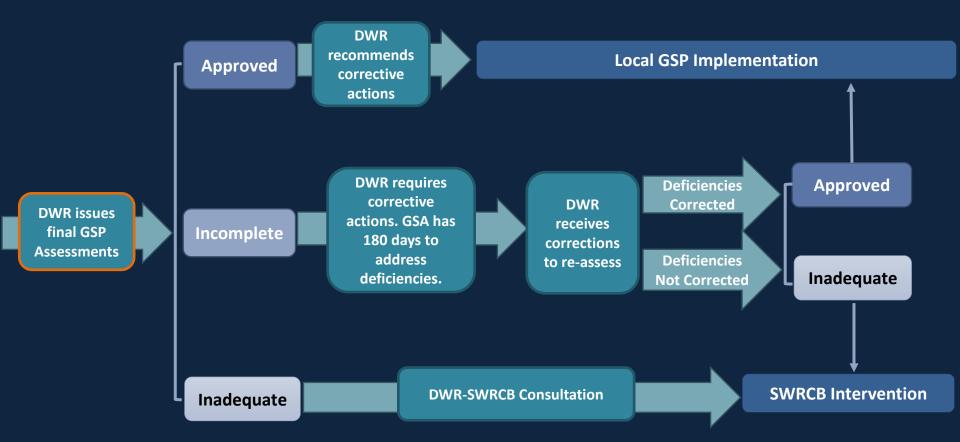
5. Projects and Management Actions



Groundwater Sustainability Plans



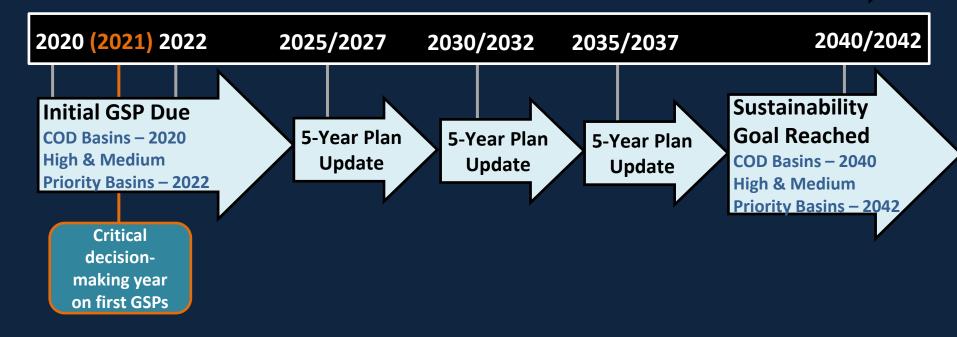
SGMA Regulatory Pathways



Assessment Release Approach

GSAs Implementing Local Projects & Management Actions

Annual Reporting – Data and Implementation Progress



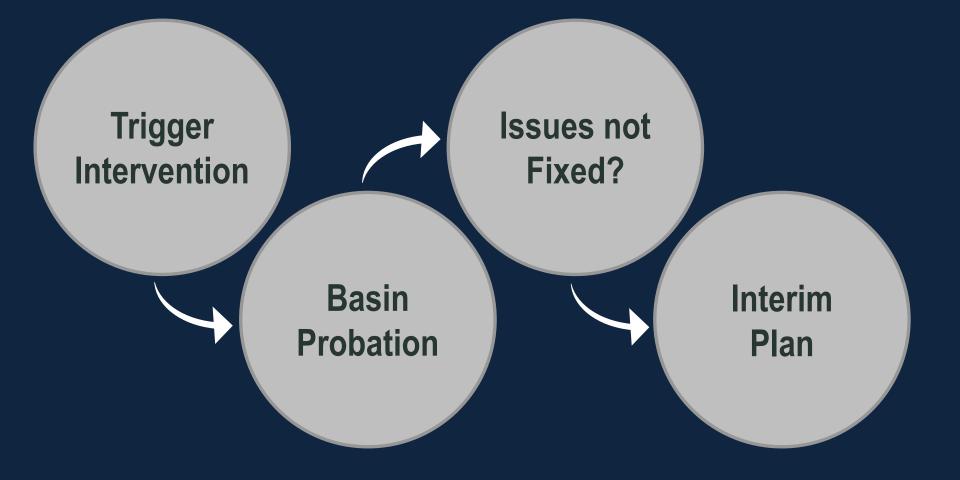
Board Backstop Basics

 Board only steps in when local efforts fail.

Temporarily protects the basin until locals come up-to-speed.

 Backstop is triggered by SGMA deadlines.

Backstop



Probationary groundwater BASIN



State Water Board makes decisions



Opportunity to fix issues



Board gathers data



May require meters

Fees

FEES beginning in Water Year 2018



Extraction REPORTS

Reports are submitted annually.

Reports require...

- well location & capacity
- monthly extraction volumes
- place & purpose of use

Reports must be filed electronically.

Information on extraction reports is available at www.waterboards.ca.gov/water_issues/programs/gmp/reporting.shtml.

GEARS Groundwater Evaluation, Analysis, and Reporting System



Report Well Location and Parcel(s) of Use

 Step 1: Select the "Add Well" button, then select the location on the map.

Complete!

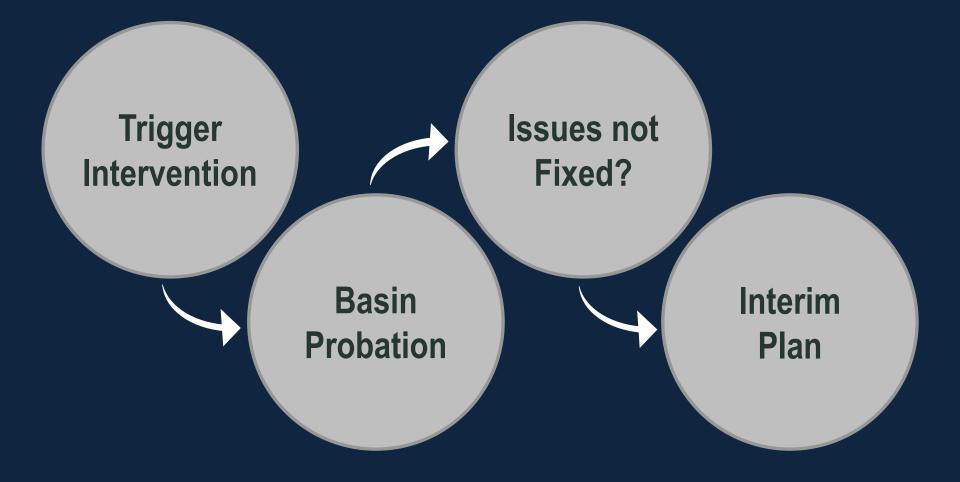
 Step 2: Select the "Add Parcel(s) of Use" button, then select the parcel(s) on the map.



Board INVESTIGATIONS

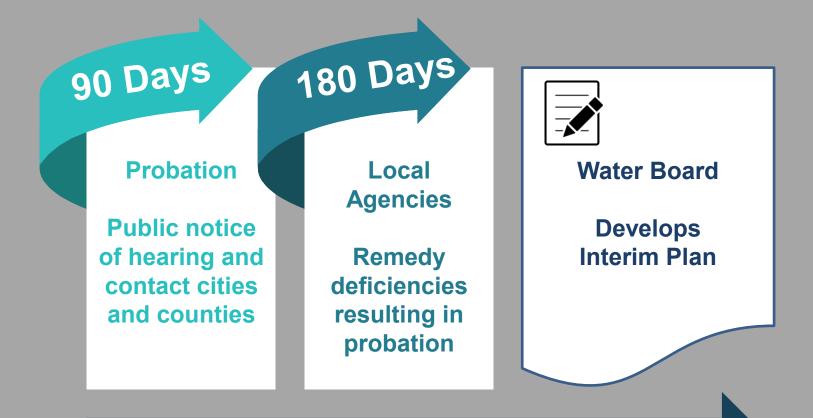
- Broad authority to conduct investigations
- Informational orders
- Board works with individual pumpers
- Additional fees (beyond reporting fees)

Backstop





NO Plan



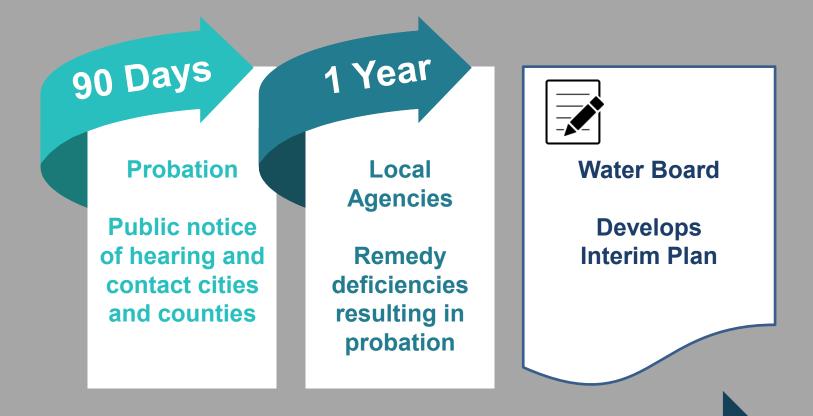
Board - DWR coordination

INCOMPLETE Plan



Board - DWR coordination

INADEQUATE Plan



Board - DWR coordination

SGMA Coordination

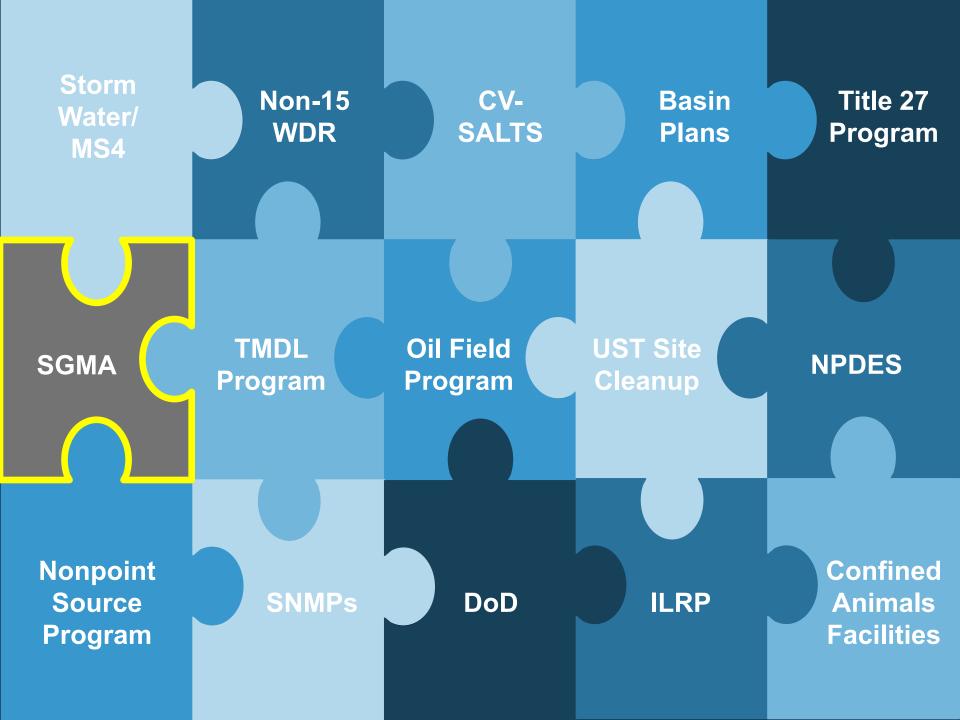
Boards are working to support the Department's GSP review

> Drinking Water Water Rights Water Quality

SAFER ILRP CV-SALTS

SGMA Coordination

SGMA fits into a broader framework of water quality and drinking water issues

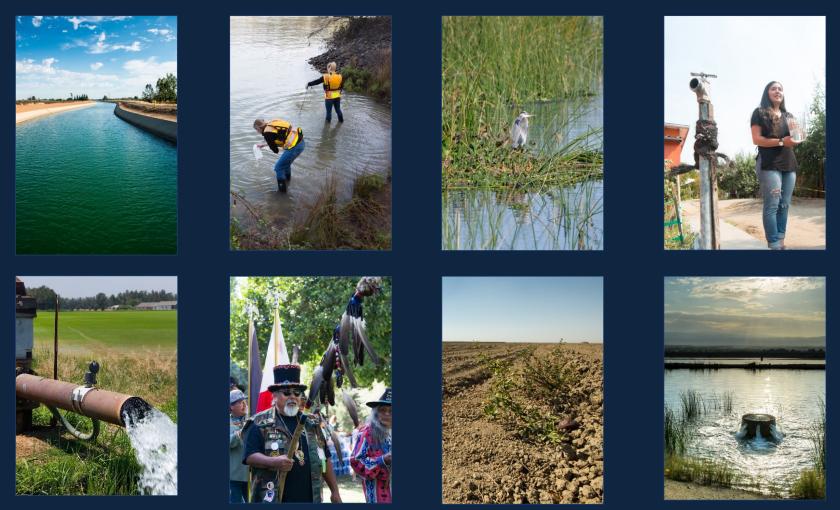


SGMAFact Sheets

- Probationary designation and groundwater regulation
- Stakeholder inclusion
- State and regional boards basics
- Funding opportunities for GSAs
- Purpose of use for underground storage projects
- Water Quality FAQ
- More coming…

https://www.waterboards.ca.gov/sgma/

Common Themes and Stakeholder Comments



DWR received over 500 public comments on the critically overdrafted groundwater sustainability plans from over 80 organizations, local, state, and federal agencies, non-governmental organizations, and the public

Public Question and Answer

• Introduction: California's Groundwater Management

• SGMA Regulatory Framework: GSP Assessments

> Public Question and Answer

- State Assistance: Implementation
 - Public Question and Answer



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Public Question and Answer



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Implementation: Toolbox Approach



State Support for Toolbox Approach for Local Implementation:

- ✓ Funding Assistance for Planning and Implementation
- SGMA Network: DWR GSA Pointsof-Contact
- ✓ Guidance Materials
- ✓ Best Management Practices
- ✓ Facilitation Support
- Written Translation
- ✓ Technical Support
- Statewide Groundwater Planning information (CalGW)
- ✓ Datasets and Models
- Aerial Electromagnetic Surveys for Recharge Areas

Local Efforts

GovernancePublic
EngagementData Gaps/
ModelingMonitoringProjects/
Actions

DWR Financial Assistance

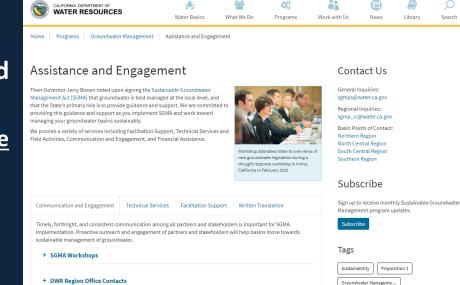
Financial Assistance:

- Sustainable Groundwater Management (SGM) Planning Grant Program
 - Funded three rounds to date with Prop. 1 and Prop. 68
 - Most recent round in March 2020; Totaling ~\$150M
- SGM Implementation Grant Program
 - Recently closed the grant application submittal period for project implementation in the COD Basins
 - > \$26M available for local projects
 - More information on the <u>SGM Implementation Grant funding</u> on our website
 - Round 2 starting in 2022; ~\$70M available

DWR Planning Assistance

Planning Assistance:

- DWR has developed a number of resources to support GSA outreach and engagement efforts
 - Most recently: <u>Tips and Tactics for Online</u> <u>Meetings</u>
 - Guidance documents
 - Points of Contacts, Regional
 Coordinators, and Geology Leads
 - Facilitation Support Services
 - Written Translation Services



For more information, visit the Assistance and Engagement webpage

DWR Technical Assistance

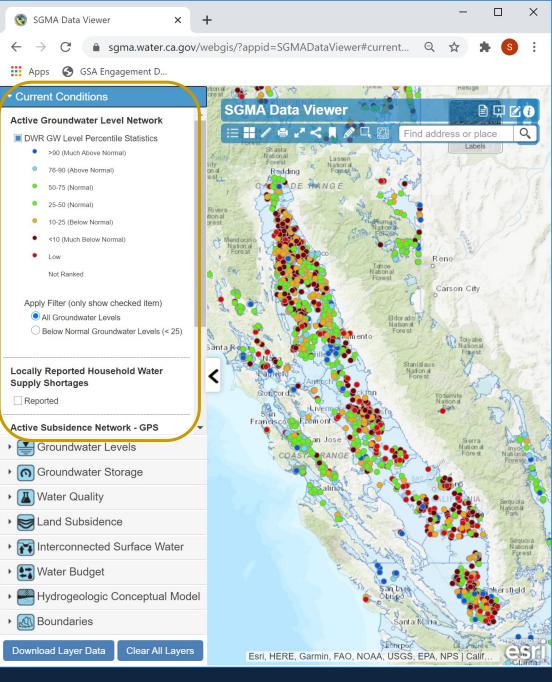
Technical Assistance:

- Technical Support Services
 - Services include: monitoring well installation, subsidence monitoring, and downhole camera surveys
- Guidance and Education
 - Website
 - **BMPs/Guidance Documents**
 - CA Groundwater Update 2020
- Statewide Datasets



Statewide Datasets

- Statewide datasets inform GSP development and implementation
 - SGMA Water Year Type DataJanuary 2021
 - 2018 Statewide Land UseSpring 2021
 - Statewide InSAR dataset
 Spring 2021
- <u>Interactive Maps</u> SGMA Data Viewer
- SGMA data on CNRA Open Data



https://water.ca.gov/Programs/Groundwater-Management/Data-and-Tools

California's Groundwater (Bulletin 118) Update 2020

- Statewide compendium report of technical groundwater information updated every 5 years
- CalGW Update 2020 in development
 - Release Public Review Draft Spring 2021
 - Initiate 45-day Public Comment Period
 - Finalize Summer 2021
 - > More information on <u>CalGW</u> available on our website



C2VSimFG v1.0 Models

- Provides a digitized model for GSAs and stakeholders to inform groundwater sustainability planning
- Model Uses:

Organization

California Department of Water Resources

resources, systems, and infrastructure, including

the State Water Project

(SWP), in a responsible

sustainable way, read

DWR manages

California's wate

- Visualizes the aquifer conditions and characteristics
- Provides historical water budgets

Dataset 🔮 Topics 🧿 Activity Stream Showcases

e C2VSimEG V1.0 Model is available in a compressed zip format due to its size (4.39 GB

This resource provides a overview of the process to run the C2VSim model including t

DWR Report: California Central Valley Groundwater-Surface Water ...

groundwater

mode

Data and Resources

Tags

C2VSim

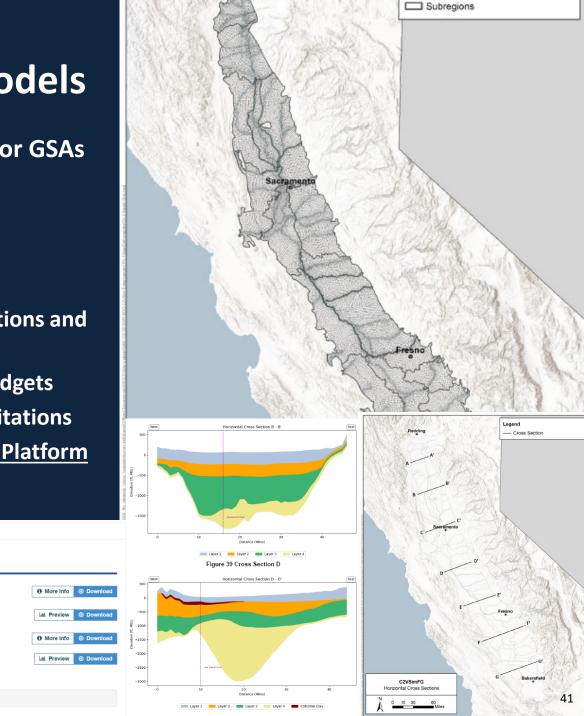
C2VSimFG V1.0 Model files

Road map to running C2Vsim

IWEM

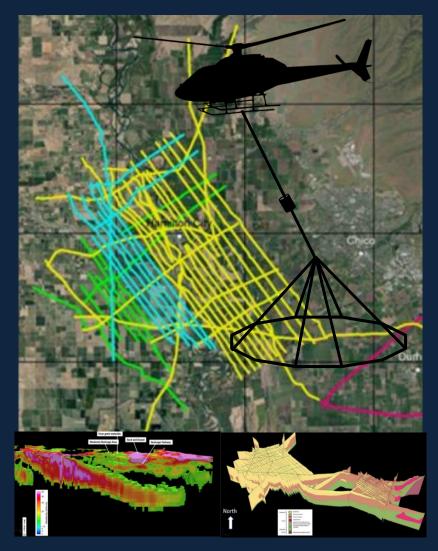
SGMA

- > Identifies data gaps and limitations
- > Available on the Open Data Platform



Statewide Airborne Electromagnetic (AEM) Surveys

- AEM data can improve the understanding of regional and local aquifer structure
 - Surveys to be conducted in all high and medium priority basins
 - Data collected in a coarse grid with flight lines oriented to cover important areas
 - Surveys to begin in summer 2021
 - > AEM Webinar to be held this spring
 - Ongoing GSA and public outreach
 - More information from <u>AEM</u> <u>webpage</u>



Water Right Permitting Options

for underground storage

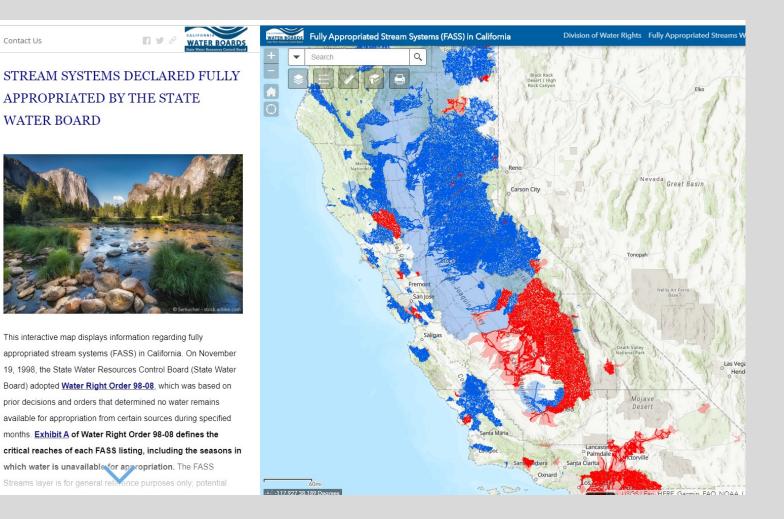
180-day temporary permit

5-year temporary permit

Standard permit

Standard permit: Streamlined pathway

Water Rights: Water Availability Tool



Contact Us

https://www.waterboards.ca.gov/waterrights/water issues/programs/fully appropriated streams/

State Water Board Grant Programs

Water Recycling Funding Program

Limits: \$150,000 (planning grant) to \$5M (construction grant)
 Due date: continuous

Small Community Grant Fund

Limits: \$500,000 (planning grant) to \$6M (construction grant)
 Due date: continuous

State Water Board Grant Programs

Drinking Water Grants

 Limits: Maximum grant (\$45-80K/residential connection) determined by project type and includes all funding the community receives for all DWSRF in a 5-year period
 Due date: continuous

Groundwater Grant Program

Limits: \$2M (planning grant) to \$50M (construction grant)
 Round 3 Solicitation to be released Summer 2021

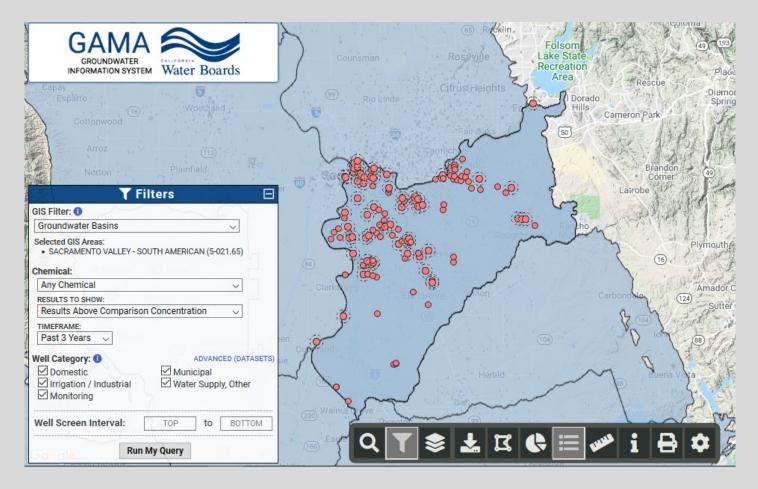
State Water Board Data



Water Quality Tools

- GAMA Groundwater Information System
- USGS Trend analysis tool
- Domestic Well Water Quality Tool

State Water Board Data



State Water Board Data



Drinking Water Tools

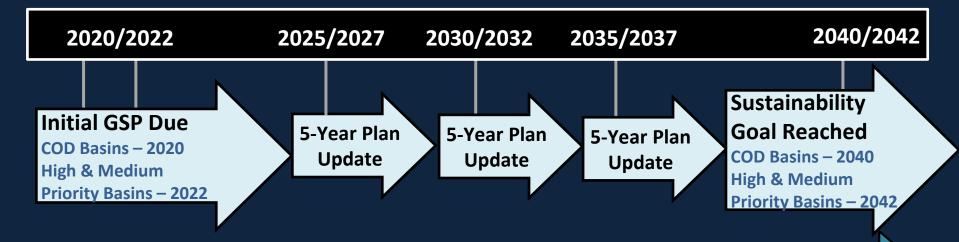
- Drinking Water Watch (SDWIS)
- Exceedances/Compliance of Public
 Water Systems

https://www.waterboards.ca.gov/resources/data_databases/drinking_water.html https://sdwis.waterboards.ca.gov/PDWW/ https://gis.data.ca.gov/datasets/waterboards::california-drinking-water-system-area-boundaries/ https://www.arcgis.com/apps/MapJournal/index.html?appid=143794cd74e344a29eb8b96190f4658b

SGMA Implementation

GSAs Implementing Local Projects & Management Actions

Annual Reporting – Data and Implementation Progress



State Technical, Planning, & Financial Assistance

For more information, visit the <u>Assistance and Engagement</u> webpage

Public Question and Answer

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• State Assistance: Post-Assessment Implementation

Public Question and Answer







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Thank You!

General DWR Inquiries: sgmps@water.ca.gov

General State Water Board Inquires: <u>sgma@waterboards.ca.gov</u>



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