Sustainable Groundwater Management Program

Ventura County

November 15, 2017
Department of Water Resources
Presentation Overview

1. SGMA Overview
2. Groundwater Sustainability Agency (GSA) Formation
3. Groundwater Sustainability Plan (GSP) Requirements
4. Planning and Technical Assistance
SGMA Overview
California’s Major Groundwater Milestones

Voluntary Groundwater Management (Non-Regulatory)
- Service Area Planning
- Variable Levels of Implementation
- Variable Authority
- Grant Incentives

Required Groundwater Management (Regulatory)
- Entire Basin Planning
- Required Implementation
- New GSA Authorities
- State Backstop (SWRCB)

- AB 3030
  - 1992
  - SB 1938
- CASGEM Program
- CA Water Action Plan
- GSPs (Basins in Overdraft)
- GSPs (Non-Overdraft Basins)
- Achieve Sustainability Goal
- 2040/2042
"A central feature of these bills is the recognition that groundwater management in California is best accomplished locally."
Governor Jerry Brown, September 2014

Local Control

Sustainability

Avoid Six Undesirable Results

- Lowering GW Levels
- Reduction of Storage
- Seawater Intrusion
- Degraded Quality
- Land Subsidence
- Surface Water Depletion

Groundwater Sustainability Plans Required for High and Medium Priority Basins by 2020/22
Achieving Sustainable Yield and Avoidance of Undesirable Results

- Lowering of GW Levels
- Reduction of GW Storage
- Seawater Intrusion
- Water Quality Degradation
- Land Subsidence
- Depletion of Interconnected Streams
## Phases to Implement SGMA and Achieve Sustainable Groundwater Management

<table>
<thead>
<tr>
<th>Phase 1</th>
<th>Phase 2</th>
<th>Phase 3</th>
<th>Phase 4</th>
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<tr>
<td><strong>Realignment of Governance and Areas</strong>&lt;br&gt;(Oct 2014 through 2017)</td>
<td><strong>Development and Adoption of Groundwater Sustainability Plans (GSPs)</strong>&lt;br&gt;(2017 to Jan 2020 or 2022)</td>
<td><strong>Early Implementing of GSPs thru Water Budgets &amp; Outcome Based Metrics</strong>&lt;br&gt;(Jan 2020 or 2022 plus 5-10 years)</td>
<td><strong>Sustainable Groundwater Management</strong>&lt;br&gt;(20 years from 2020 or 2022)</td>
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Financial Assistance
- Proposition 1

Planning Assistance
- Facilitation
- GSA/Governance Support

Technical Assistance
- Statewide Datasets, Analysis, and Tools
- Best Management Practices
- Water Available for Replenishment Report

DWR’s Role

Evaluation of GSPs

Facilitation/Advisory Role
Evaluation/Regulatory Role
GSA Formation
GSA Formation Summary

GSA Formations

Accumulated Number of GSAs

GSA Formations as of July 2017
GSP Requirements
GSP Requirements = SGMA Statutes + GSP Regulation

(SB 1168 + AB1739 + SB1319 + SB 13)

GSP Regulations
($\S$350 – 358.4)
GSP Regulation Articles

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

Required for All High and Medium Priority Basins
# Article 5. Plan Contents

## 1. Administrative Information
- § 354.4. General Information
- § 354.6. Agency Information
- § 354.8. Description of Plan Area
- § 354.10. Notice & Communication

## 2. Basin Setting
- § 354.16. Groundwater Conditions
- § 354.18. Water Budget
- § 354.20. Management Areas

## 3. Sustainable Management Criteria
- § 354.24. Sustainability Goal
- § 354.26. Undesirable Results
- § 354.28. Minimum Thresholds
- § 354.30. Measureable Objectives

## 4. Monitoring Networks
- § 354.34. Monitoring Network
- § 354.36. Representative Monitoring
- § 354.38. Assessment & Improvement
- § 354.40. Reporting Monitoring Data to the Department

## 5. Projects and Management Actions
- § 354.44. Projects & Management Actions

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### Undesirable Results

*Significant and Unreasonable*
- Lowering GW Levels
- Reduction of Storage
- Seawater Intrusion
- Degraded Quality
- Land Subsidence
- Surface Water Depletion
Planning and Technical Assistance
SGM Program Implementation

1. GSA Formation & Governance
   - Facilitation Services
     - Stakeholder Assessment
     - Meeting Facilitation
     - Consensus Building
   - Tech. Services
     - Guidance & Education
     - Field Activities
     - Modeling Support

2. Assistance & Engagement
   - DWR Outreach

3. GSP Eval.
   - GSP Evaluation

4. GSP Implementation
   - Education & Guidance
     - Statewide & Basin Info
       - General SGMA Information
       - Bulletin -118 & 160
       - BMP’s & Guidance Docs.
       - Training/Outreach
   - Data & Tools
     - Data
       - Data Collection
       - Data Distribution
     - Tools
       - Model Enhancements

GSP Development & Submission

Advisory Role → Evaluation Role
Services Offered through DWR funded Professional Facilitators

- Stakeholder identification and engagement
- Meeting facilitation
- Interest-based negotiation/consensus building
- Public outreach facilitation
Assistance and Engagement

Engagement – Development of GSPs

- DWR regional office point of contacts (POCs) by basin
- Basin specific meetings
FSS Resources

1. DWR FSS Website
   http://www.water.ca.gov/groundwater/sgm/facilitation_services.cfm

2. FSS Application Portal
   https://www.surveymonkey.com/r/FSS_application01
• Guidance and Education

• Field Activities
  - Groundwater Level Training
  - Well Video Logging
  - Geophysical Logging
  - Monitoring Well Installation

• Modeling and Tools
  - Modeling Questions
  - Training
    - IWFM and IDC Workshops – Sep/Oct 2017
    - http://cwemf.org

https://gis.water.ca.gov/app/gicima/
SGM Program Implementation

1. GSA Formation & Governance
2. Assistance & Engagement
   - DWR Outreach
   - Facilitation Services
     - Stakeholder Assessment
     - Meeting Facilitation
     - Consensus Building
   - Tech. Services
     - Guidance & Education
     - Field Activities
     - Modeling Support
3. GSP Eval.
4. GSP Implementation
   - Guidance, Data, & Tools
     - Education & Guidance
     - Data & Tools
       - Statewide & Basin Info
         - General SGMA Information
         - Bulletin -118 & 160
         - BMP’s & Guidance Docs.
         - Training/Outreach
       - Data
         - Data Collection
         - Data Distribution
       - Tools
         - Model Enhancements
   - GSP Development & Submission
   - Advisory Role
   - Evaluation Role
Education and Guidance

• Statewide & Regional References
  • DWR’s SGMA Webpages
  • Bulletin 118
  • Bulletin 160 – GW Content
• SGMA References
  • Water Available for Replenishment

Best Management Practices

• BMP 1: Monitoring Protocols, Standards, Sites
• BMP 2: Monitoring Networks and Identification of Data Gaps
• BMP 3: Hydrologic Conceptual Model
• BMP 4: Water Budget
• BMP 5: Modeling
• BMP 6: Sustainable Management Criteria

Guidance Documents

• Preparation Checklist for GSP submittal
• GSP Annotated Outline
• Engagement with Tribal Governments
• Stakeholder Comm. & Engagement

Future BMP(s) ??

• Water Quality
• Data Management System
• Surface Water/Groundwater Interaction
Sustainable Management Criteria (SMC) – Draft BMP

• SMC include:
  • Sustainability Goal
  • Undesirable Results
  • Minimum Thresholds
  • Measurable Objectives

• Public Meetings Planned
  • December 11 – Bakersfield
  • December 12 – Orange Co.
  • December 14 – Sacramento

• Public Comment Period Closes January 8, 2018
Data and Tools

New Data, Tools, and Reports Webpage

1. Download Data

2. Groundwater Tools
   1. Interactive Maps
   2. Modeling Tools

4. Maps and Reports

http://www.water.ca.gov/groundwater/sgm/data_tools_reports.cfm
Data & Tools

Tools - Interactive Maps

1. Groundwater Information Center
2. Water Management Planning Tool
3. Disadvantaged Communities Tool
4. Basin Boundary Tool

➤ More Tools will be added soon

https://gis.water.ca.gov/app/gicimo/

https://gis.water.ca.gov/app/boundaries/

https://gis.water.ca.gov/app/dacs/

https://gis.water.ca.gov/app/bbat/
Data and Tools

Tools – DWR Models

• C2VSim – Fine Grid (Q1 2018)
• SVSim – (Q1 2018)
• IWFM – (Currently Available)
SGMA Portal
http://sgma.water.ca.gov/portal/

- Local agency and stakeholder accessible single interface
- Provides access to submittals under SGMA
- Provides additional opportunity to comment
- Look for future improvements
SGMA Program – Financial Assistance

Prop 1 Groundwater Grants $100 Million
(First Round Awards)

Awards

Status

- Counties with Stressed Basins
  - March 2016: Awarded $6.7M to 21 Counties
    - All 21 Counties DACs, at county level geography
  - Agreements executed
  - Work ongoing
Prop 1 Groundwater Grants $100 Million
(Second Round Proposal Solicitation Package)

• $86.3 M Available
  • $10 M for Severely DAC Projects
  • $76.3 M for developing Groundwater Sustainability Plans

• Tentative Schedule
  • Released proposal solicitation package (PSP) 9/8/2017
  • Final applications due to DWR 11/13/2017 (an extension has been provided to Counties affected by the Santa Rosa Fires)
  • Accept proposals on a continuous basis
  • Early 2018: Initial Awards

• Eligible Applicants
  • Category 1 SDAC Funding (at least $10 M)
    • Public Agencies
    • Nonprofit Organizations
      • 501.(c)(3) qualified to do business in California
    • Federally recognized Indian Tribes
    • State Indian Tribes listed on NAHC consultation list
    • Public Utilities
    • Mutual Water Companies
  • Category 2 (no more than $76.3 M)
    • Public Agencies
      • Limiting to GSAs only
DWR Contacts & SGMA Resources

DWR Sacramento:
• Trevor Joseph
  Trevor.Joseph@water.ca.gov

SGMA Resources
• DWR SGMP Website
  www.water.ca.gov/groundwater/sgm/index.cfm

• Subscribe to DWR SGMP Email List
  www.water.ca.gov/groundwater/sgm/subscribe.cfm

• GIC Interactive Map (water level & subsidence maps)
  www.water.ca.gov/groundwater/MAP_APP/index.cfm

• SGMA Water Management Planning Tool (boundaries map)
  Main Page - http://www.water.ca.gov/groundwater/sgm/
  Interactive map - www.water.ca.gov/groundwater/boundaries.cfm

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