

Subsidence Monitoring YCWA-15

I. Project Sponsor Contact Information

Lead Agency/Organization	Yuba County Water Agency
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II. General Project Information

Project Title	Subsidence Monitoring
Project Total Budget	TBD
Project Funding Match	TBD
Project Funding Request	TBD
Can a detailed cost estimate be provided upon request?	No
Project Location:	Various- regional
Could you provide a map of the project location including boundaries upon request?	Yes
County	Yuba
City/Community	regional
Watershed/subwatershed	Yuba
Groundwater Basin	Yuba Groundwater Basin
Project Type	Monitoring

III. Project Description

A passive land subsidence monitoring program would be developed as an additional component of the existing regional groundwater monitoring program, which monitors groundwater levels, quality, and groundwater/surface water interaction, in accord with the Yuba County Water Agency (YCWA) Groundwater Management Plan adopted by the YCWA Board of Directors in March 2005. To date, no land subsidence monitoring activity has occurred in Yuba County. The Department of Water Resources, Geodetic Branch, and YCWA is in the process of developing a preliminary land subsidence monument network by correlating National Oceanic and Atmospheric Administration's National Geodetic Survey (NGS) monuments with topographic data to determine the proposed locations for new monuments. DWR, Geodetic Branch, is in the process of coordinating the Sacramento Valley GPS Height:

Modernization project that includes the installation of new monuments and related satellite observations to occur beginning in Fall 2007, with site observations in Yuba County to occur in Spring 2008. Other participating counties include Sacramento, Yolo, Colusa, Sutter, Butte, Glenn, and Tehama Counties. The network has not been finalized.

IV. Project Rationale/Issues Statement

This project addresses the following identified regional issue:

Groundwater

- Promote integrated management of groundwater and surface water
- Educate the public to protect groundwater resources, especially from contamination and overuse
- Understand where groundwater and surface water are connected and where they have been disconnected
- Protect groundwater and groundwater-dependent ecosystems, especially to address the projected impacts of climate change

V. Goals/Objectives/Performance Metrics

Goals Addressed by the Project	<p>Goal 1: Ensure adequate and reliable water supply that meets the diverse needs of the region</p> <p>Goal 6: Address climate vulnerabilities and reduce greenhouse gas emissions</p>
Objectives Addressed by Project	<p>In accord with the basin management objectives (BMO’s) identified in the YCWA Groundwater Management Plan, the objective to establish a passive land subsidence monitoring program is to determine whether groundwater management activities (and pumping) cause negative inelastic impacts on the groundwater basin or to local infrastructure.</p> <p>The project specifically addresses the following identified regional objectives:</p> <p>1.2 Promote water conservation and water use efficiency by instituting various techniques including, but not limited to, groundwater recharge, conjunctive management, irrigation efficiencies, municipal water conservation, water recycling and reuse;</p> <p>1.6 Preserve water supplies that support recreational opportunities and agricultural uses;</p> <p>1.7 Support regulatory compliance with current and future state and federal water supply standards;</p> <p>6.2 Improve data, modeling and technical analyses to better understand the impacts of climate change on regional and inter-regional water supply and watershed health.</p>
What performance metrics will be used to demonstrate	

that objectives are being met? Wherever possible, provide a quantitative measurement reflecting successful project outcomes.	
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VI. Resource Management Strategies

Increase Water Supply	
Conjunctive Management and Groundwater	establish a passive land subsidence monitoring program to determine whether groundwater management activities (and pumping) cause negative inelastic impacts on the groundwater basin or to local infrastructure

VII. Statewide Priorities

Drought Preparedness

- Promote water conservation, conjunctive use, reuse and recycling

Climate Change Response Actions

- Adaptation to Climate Change: Advance and expand conjunctive management of multiple water supply sources

Climate Change Adaptation

This project addresses several identified climate change vulnerabilities in the area of water supply as enumerated in the climate change section of the IRWMP. By improving data sources through monitoring, the project will inform future adaptation strategies to ensure a sustainable groundwater management program.

GHG Emissions Reduction

This project is currently conceptual and has yet to consider GHG mitigation and/or emissions reduction strategies.

VIII. Project Status and Schedule

For Conceptual Projects Only: The Project is currently in the Conceptual Stage: **YES**

IX. Project Technical Feasibility

a. List the water planning documents that specifically identify this project.	
b. List the adopted planning	Yuba County Water Agency Groundwater Management

documents the proposed project is consistent with (e.g., General Plans, UWMPs, GWMPs, Water Master Plans, Habitat Conservation Plans, etc.)	Plan
c. List technical reports and studies supporting the feasibility of this project.	
If you are an Urban Water Supplier:	
1. Have you completed an Urban Water Management Plan and submitted to DWR?	Yuba County Water Agency (YCWA) does not supply water for direct urban use and is not subject to the Urban Water Management Plan Act (UWMPA).
2. Are you in compliance with AB1420?	See above.
3. Do you comply with the water meter requirements (CWC Section 525)?	See above.
If you are an Agricultural Water Supplier:	
1. Have you completed and submitted an AWMP?	Yes
If the project is related to groundwater:	
1. Has GWMP been completed and submitted for the subject basin?	Yes