

## **Water Resources Association of Yolo County Project Funds – Fiscal Year 2008-09**

### **PROJECT TITLE: Yolo County Groundwater Monitoring Program**

#### **Scope of Work**

The Yolo County Groundwater Monitoring Program is part of Foundational Action Number One (FA1) led by the Yolo County Flood Control and Water Conservation District (the District). All WRA members are active participants in the program and all members receive benefits. We propose to make this a regularly funded WRA activity, separate from appropriations in the annual Project Funds budget. We submit this request through the Project Funds Budget Request system because it is the only budget submission process available for projects of this type.

Quote on Foundational from Table 5-1 or the IRWMP on FA1.

YCFWCWD, in cooperation with other local, county, state, or federal water resource agencies, developed the framework and guidelines for an ongoing, countywide Groundwater Monitoring Program. While future funding contributions need to be established, this program and its associated database, serve as the basis and clearing house for countywide groundwater monitoring coordination and information dissemination.

The District manages a groundwater monitoring program with four components; 1) data collection, 2) data management, 3) public outreach, and 4) simulation modeling.

Twice per year, in spring and fall, the District measures water levels in 155 wells throughout the District's area. Once each year, a subset of 30 wells are sampled for water quality analysis. All water level data collected by the District is quality control checked and submitted to a statewide database, available at <http://wdl.water.ca.gov/gw/>.

The cities within Yolo County, aggregate mining companies, the Tribe's Cache Creek Casino, and other water providers, also take water level measurements for their own uses, but then submit that data to the District for inclusion on the Countywide database. This data is used for modeling and pollution studies, construction permitting, real estate transactions, an early warning system for overdraft, and many other uses. Coordinated submission of water quality data is planned for sometime in the future.

The District manages this groundwater data in the Water Resources Information Database (WRID created in 2004). The District implements this program under the authority of its adopted Groundwater Management Plan and through working agreements with cooperating agencies.

#### **Project Staffing**

This project is staffed by three District employees (Max Stevenson, Greg Anderson, and Bob Schoech). Additional support is provided by Rob Beggs of Brown & Caldwell.

## **Project Budget**

The Yolo County Groundwater Monitoring Program is an annual activity. Below are the annual costs. A portion of this project (\$15,000) will be funded by the WRA project funds. This budget table is from page 19 of the Districts Groundwater Management Plan (<http://www.ycfcwcd.org/documents/GWMP2006FINAL.pdf>)

**Table 6. Annual cost of the District's groundwater monitoring program.**

<b>Project</b>	<b>Sub-Category</b>	<b>Costs</b>
Annual WQ Sampling (30 well visits)	Labor and planning	\$13,000.00
	Lab analyses	\$14,500.00
	Field Instrumentation/Supplies	\$800.00
Biennial Water Levels (155*2=310 well visits)	Labor + Data management	\$31,000.00
Prepare expanded Engineer's Report	Labor	\$3,500
	Annual Total	\$62,800.00

## **Project Schedule and Deliverables**

Below is a list of annual activities for the District's for the Groundwater Monitoring Program.

**Table 5. List of annual or triennial activities in the District's Groundwater Monitoring Program.**

<b>Date</b>	<b>Annual Activity</b>
Each Spring – March	Measure water levels in 160 wells, update WRID
Each Summer – July	Sample for water quality in 30 wells, update WRID
Each Fall – Nov.	Measure water levels in 160 wells, update WRID
Every Nov-Dec	Coordinate data submission from cooperators (cities, gravel companies, etc.), update WRID
Every Nov-Dec	Send well owner letters
Every December	Submit data to State Water Data Library
Every January 30	Publish and distribute annual "Engineer's Report of Groundwater Conditions"
2008	Participate in next triennial subsidence monitoring