

Plan Advisory Group Meeting No. 9

Presented by:

**Dan Peterson, PE, CFM
Deputy Director Water Resources
Sutter County**

and

**Larry Ernst, PG, CEG, CHG
Principal Hydrogeologist
Wood Rodgers, Inc.**



Agenda

- 1) **Opening remarks and introductions**
- 2) **Improving County Well Standards**
- 3) **Water substitution transfers (2010 example)**
- 4) **Quantitative Groundwater Level BMO**
- 5) **SBx7 6 – California Statewide Groundwater Elevation Monitoring**
- 6) **Future PAG Meeting Schedule**

Improving County Well Standards

- ▶ **Reasons to improve well standards**
 - Only way to preserve and protect water quality
 - Downward migration of contamination
 - Cross contamination of aquifers
 - Possible Well Standard
 - Deeper sanitary seals
 - Require geophysical surveys
 - Cable tool water quality sampling
 - Well restriction zones
 - Well destruction improvement methods

Improving County Well Standards

- ▶ **Possible funding mechanisms**
 - Increase County Sales Tax
 - Increase Well Permit Fees

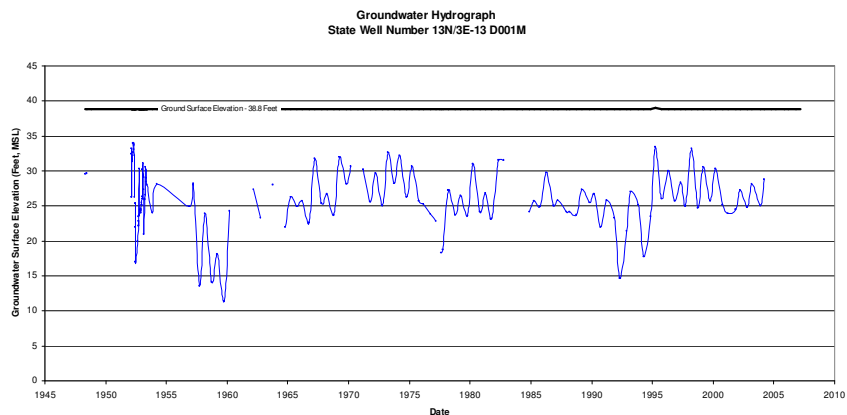
County	Sales Tax	Well Permit Fee
Sutter County	8.25%	\$365
Sacramento County	8.75%	\$852

Butte County Water Level BMO

- ▶ Butte County's BMO for Groundwater levels is triggered when levels reach a predetermined elevation; but don't take into consideration the normal fluctuations related to "wet" years and "dry" years.
- ▶ "Though groundwater levels have improved this year in Butte County compared with the last two years, 28 of 85 monitored wells did not reach desirable levels this fall." – OrovilleMR.com

http://www.oroVILLEMR.com/ci_16795191?source=most_emailed

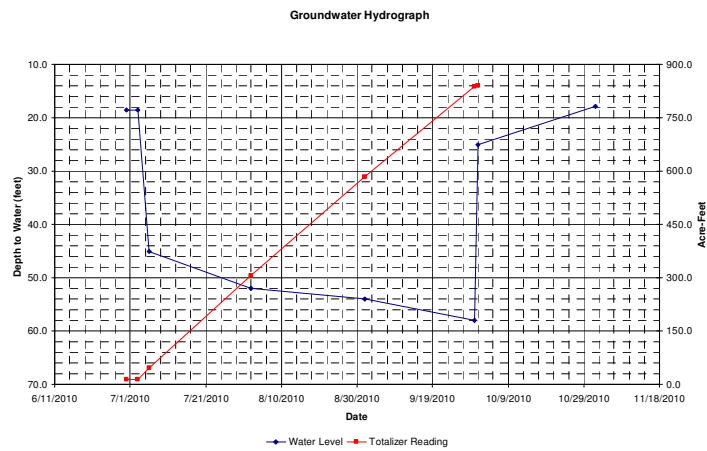
Sutter County Hydrograph



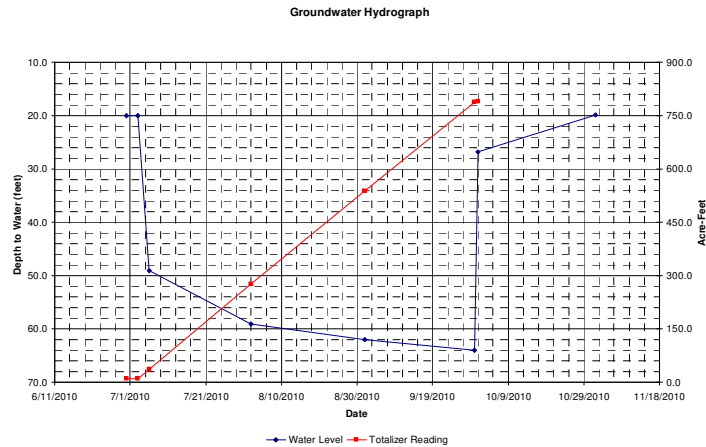
Water Substitution Transfers

- ▶ Groundwater used in lieu of surface water - 2010 example
- ▶ DWR monitored water levels and the quantity of groundwater extracted

Well 22 Example



Well 23 Example



SBx7 6

- ▶ California Statewide Groundwater Elevation Monitoring (CASGEM)
- ▶ Glenn and Colusa Counties have decided to participate
- ▶ Glenn County reported that program will cost the counties approximately \$2,500 to develop the guidelines for monitoring and \$5,000 a year to maintain the program

Sutter County SBx7 6 Participation

▶ Considerations

- Cost**
- Funding**
- Man power**
- Equipment**
- Additional future requirements**
- Participation from water districts**

Next PAG Meeting

- ▶ February 17, 2011**

Contact Information



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