

# WESTERN MADERA COUNTY SUBSIDENCE SOLUTION PROJECT

Projects to support established farming by eliminating the need for deep well pumping that causes subsidence:

- Build a shallow aquifer groundwater bank for overlying farming using all available flood flows from local sources; Chowchilla, Fresno, San Joaquin and Kings Rivers
- Secure a small supplemental water supply from an outside source
- Develop a water distribution system



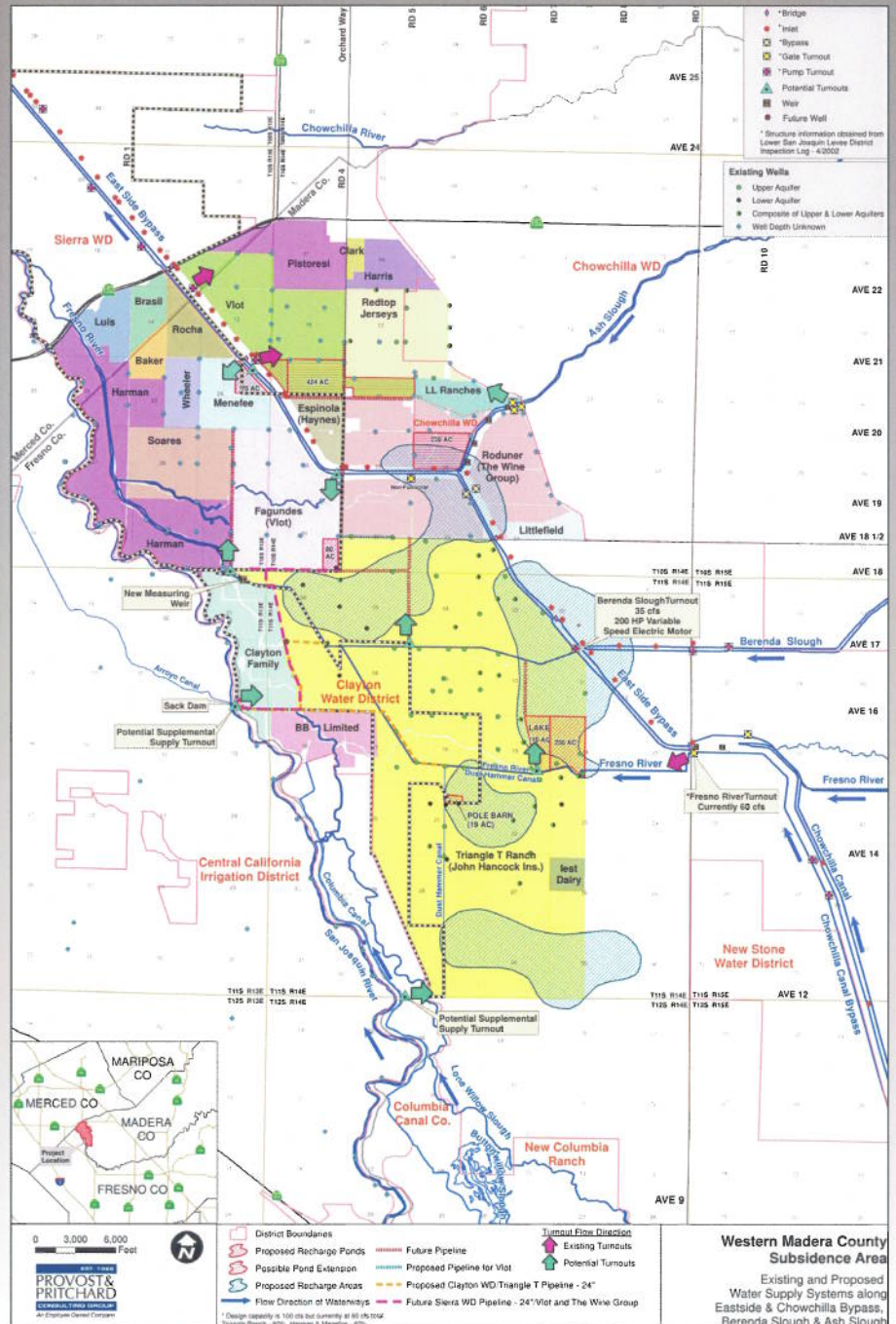
Recharge



Shallow Zone Banking



Substitute Shallow Wells for Deep Wells



Western Madera County Subsidence Area  
Existing and Proposed Water Supply Systems along Eastside & Chowchilla Bypass, Berenda Slough & Ash Slough



# WESTERN MADERA COUNTY SUBSIDENCE SOLUTION COST SUMMARY

Description	Quantity	Cost	Capital Cost	Total Annual Cost
<b>On-Site Facilities</b>				
Recharge Ponds & Turnouts	720 Acres	\$3,000	\$2,161,000	\$141,000
Shallow Water Supply Replacement Wells	30 Wells	\$120,000	\$3,600,000	\$235,000
Surface Water Distribution System	25,640 Acres	\$156	\$4,000,000	\$261,000
			Subtotal:	\$9,761,000
<b>Supplemental Supply Acquisition (1/2 acre-foot/acre)</b>				
Supplemental Water Supply Acquisition**	10,000 ac-ft/year	\$300		\$3,000,000
			<b>Total Program Cost:</b>	<b>\$9,761,000</b>
				<b>\$3,637,000</b>

\*Capital cost amortized @ 20 years, 3% interest.

\*\* Assumes Bureau of Reclamation to contribute \$9 million under their current cooperative agreement to facilitate start up operation of the Madera County Water Supply Enhancement Project (Madera Water Bank) with capability of delivering 10,000 acre-feet/year to the site.

Participation in the Madera Water Bank will provide a guaranteed new supplemental supply to the project that does not compete with existing scarce south of Delta supplies.



Expand Districts



Transfers



Conservation



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