

COUNTY OF SONOMA AGENDA ITEM SUMMARY REPORT			Clerk of the Board Use Only	
			Meeting Date _____ Agenda Item No: _____	Held Until _____ Agenda Item No: _____
Department: Sonoma County Water Agency			() 4/5 Vote Required	
Contact: Chris Delaney	Phone: (707) 547-1946	Board Date: 06-23-09	Deadline for Board Action:	
AGENDA SHORT TITLE: Russian River System Hydrologic Model				
REQUESTED BOARD ACTION(S): 1. Authorize the Agency's General Manager/Chief Engineer to execute the Agreement for Development and Implementation of Hydrologic Model of the Russian River System between the Sonoma County Water Agency and Resource Management Associates (\$105,000) in substantially the form as the draft presented to this Board, following review and approval by County Counsel as to form and by Risk Management as to insurance requirements. 2. Authorize the Agency's General Manager/Chief Engineer to amend the Agreement provided amendments do not cumulatively increase the total cost to the Agency by more than \$25,000 (taking into account all prior amendments) and do not substantially change the scope of work.				
CURRENT FISCAL YEAR FINANCIAL IMPACT				
EXPENDITURES			ADD'L FUNDS REQUIRING BOARD APPROVAL	
Estimated Cost	\$	105,000	Contingencies	\$
Amount Budgeted	\$	105,000	(Fund Name:) Unanticipated Revenue	\$
Other Avail Approp (Explain below)	\$		(Source:) Other Transfer(s)	\$
Additional Requested:	\$	-0-	Add'l Funds Requested:	\$
Explanation (if required): Funding is available from the appropriation in the FY 08/09 budget for the Fund entitled Watershed Planning/Restoration (Account Nos. 675728 and 673806).				
Prior Board Action(s):				
Alternatives - Results of Non-Approval:				

Background: Draft Agreement on file with the Clerk.

The Sonoma County Water Agency (Agency) conducts hydrologic modeling of Lake Sonoma, Lake Mendocino, the Potter Valley Project, and the Russian River (Russian River System) to support work associated with water supply forecasting, future water supply planning, and impact analysis for environmental documents. The Agency currently uses a computer model that incorporates three models. These three computer models account for different sections of the Russian River System: the Potter Valley Project, the Upper Russian River basin, and the Lower Russian River basin. These models were originally developed by the Agency in the 1980s and have undergone numerous revisions over the years.

The Agency wishes to replace the existing modeling system with a model that would incorporate the entire Russian River System into one model. Additionally, the Agency seeks a model with a more user-friendly interface for formulating simulations and analyzing data. To accomplish these goals, the proposed agreement would retain Resource Management Associates (Consultant) to develop a U.S. Army Corps of Engineers (USACE) Hydrologic Engineering Center Reservoir Simulation Model (HEC-ResSim) of the Russian River System. HEC-ResSim is widely used by municipalities throughout the country and in California and is consistent in computational methodology and capabilities with other publicly available industry standard reservoir operations/water supply planning models. The proposed HEC-ResSim hydrologic model will be used by the Agency to support upcoming work associated with 2010 Urban Water Management Plan, modifications to Decision 1610, the Water Project, and other water supply planning projects and studies.

Under a previous agreement, Consultant developed a limited-application HEC-ResSim model of the Russian River System and determined the tasks and costs necessary to develop a fully-functioning HEC-ResSim model. Other consulting firms were considered and interviewed for this agreement, but due to the Consultant's unique capabilities as the developers of the HEC-ResSim model and their extensive experience working with the Agency in previous agreements to develop and implement a water quality model of the Russian River System, the Consultant was selected to complete this work.

Under the proposed agreement, Consultant will develop, refine, and test the full scale HEC-ResSim model; validate the newly-developed model against the Agency's existing water supply planning model; train Agency staff to use the model; setup and perform model simulations for ongoing Agency water supply studies; and prepare documentation covering all work performed under this agreement. The Consultant's rates for the subject agreement are consistent with market rates for this type of work. **Furthermore, Consultant has specialized skills and resources not otherwise available within the Agency to complete the development of this model.**

REQUESTED BOARD ACTION(S):

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2. Authorize the Agency's General Manager/Chief Engineer to amend the Agreement provided amendments do not cumulatively increase the total cost to the Agency by more than \$25,000 (taking into account all prior amendments) and do not substantially change the scope of work.

Attachments:

On File With Clerk: Draft of the agreement (one copy)

CLERK OF THE BOARD USE ONLY

Board Action (If other than "Requested")

Vote: