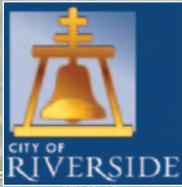


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# Riverside-Arlington Groundwater Flow Model (RAGFM) Model Development and Scenarios

June 2011



Prepared by:





July 1, 2011

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**Subject: Riverside-Arlington Groundwater Flow Model (RAGFM), Final Report**

Gentlemen:

We are pleased to provide you with the final report on the "Riverside-Arlington Groundwater Flow Model (RAGFM)". This project was initiated to develop a comprehensive, defensible and robust analytical tool for (i) better representation of the physical conditions in the Riverside and Arlington groundwater basins, (ii) analysis of regional effects of various water management strategies and conjunctive use programs and projects on the surface water and groundwater resources in the basins, and (iii) development of groundwater management plans for Riverside and Arlington basins.

The final report for RAGFM documents the work performed to collect and analyze data, develop conceptual and numerical groundwater model, calibrate the model, perform sensitivity analysis, develop four model scenarios, and estimate safe yields for Riverside and Arlington basins. In addition, the model benefited from significant data and information available from various sources, including RPU, WMWD, Western-San Bernardino Watermaster, and local water agencies and stakeholders. The model features specific details to provide RPU and WMWD with appropriate level of detail to support the planning and design goals of the proposed Aquifer Storage and Recovery (ASR) and Arlington Desalter Expansion projects.

The model development process was conducted in close coordination with the Technical Advisory Committee (TAC). The data, information, and analysis were presented in several meetings to the TAC, and the model calibration results and respective documents in the form of Technical Memoranda were reviewed by the TAC as well as other RPU and WMWD staff. The comments were addressed and incorporated as appropriate to produce the final document.

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July 1, 2011

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Enclosed please find twenty (20) copies of the final report, along with four (4) copies of a CD containing a PDF version of the final report.

It was a great pleasure for the RMC/WRIME team to have worked with you on this project, and we look forward to providing consulting services to RPU and WMWD in the future. If you have any questions or need further information please do not hesitate to contact me.

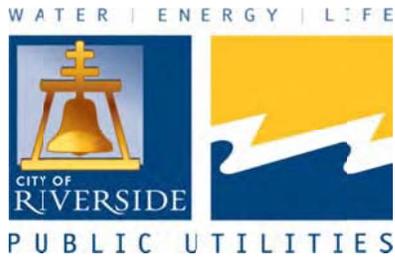
Sincerely,

A handwritten signature in blue ink, appearing to read "Reza Namvar".

Reza Namvar, Ph.D., P.E.  
Project Manager

A handwritten signature in blue ink, appearing to read "Ali Taghavi".

Ali Taghavi, Ph.D., P.E.  
Principal



# **Riverside-Arlington Groundwater Flow Model (RAGFM)**

## **Model Development and Scenarios**

Prepared by:



June 2011

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