

Peer Review Plan

Date: 1/4/2011

Source Center: U.S Geological Survey
Arizona Water Science Center
520 N. Park Ave
Tucson, AZ 85719

Title: Regional Groundwater-Flow Model of the Redwall-Muav, Coconino, and Alluvial Basin Aquifer Systems of Northern and Central.

Subject and Purpose: The purpose of this report is to document the development of a groundwater-flow model that simulates the groundwater-flow system that existed in northern and central Arizona before development of groundwater supplies, pre-1938, and the flow system that occurred during development of the resource, 1938–2006. The groundwater-flow system of northern and central Arizona includes the basins of the Verde, Salt, and Little Colorado Rivers and adjacent areas of the western Coconino Plateau. Although the model is regional in extent, the effects of increased groundwater withdrawals in the Chino, Big Chino, and Verde Valleys on groundwater discharge to the Verde River and potential capture of groundwater flow from adjacent areas including the Coconino Plateau and Little Colorado River Plateau basins is a primary interest. Included in the report are discussions of pertinent background information on the hydrology of the study area, modeling procedure, and results of steady-state and transient simulations. The published product will be released as a USGS publication.

Impact of Dissemination: This information product is considered to be Influential Scientific Information.

Timing of Review (including Deferrals): November 2009 - March 2010. Deferrals are not anticipated.

Manner of Review, Selection of Reviewers and Nomination Process: This review will be conducted via individual letters. USGS will select the peer reviewers pursuant to requirements in U.S. Geological Survey Manual chapter 502.3 -Fundamental Science Practices: Peer Review (<http://www.usgs.gov/usgs-manual/500/502-3.html>).

Expected Number of Reviewers: Two reviewers.

Requisite Expertise: Hydrology, Hydrogeology (with an emphasis on knowledge of Northern Arizona), Groundwater Modeling.

Opportunity for Public Review: No, the opportunity for public comment is not formally incorporated into the USGS peer review process.

Agency Contact: peer_review_agenda@usgs.gov.