

MEETING NOTES
UPPER RIO GRANDE WATER OPERATIONS MODEL
ADVISORY COMMITTEE MEETING

NM INTERSTATE STREAM COMMISSION OFFICE
5550 SAN ANTONIO DR NE
ALBUQUERQUE, NM

April 24, 2012

Amy Louise called the meeting to order at 10:00 am. Those in attendance and those participating in the meeting via telephone conference call introduced themselves. The meeting agenda and an attendance list are attached.

Mike Roark distributed copies of the Technical Team Report and summarized the activities of the Technical Team, including

- The status of work on the middle Rio Grande model to implement new methods for wetted sands loss, water surface evaporation, conductance calculation, mass balance check and improved data management interface;
- Changes to model ET computations to implement Hargreaves-Samani method of computing reference ET, development of crop coefficients using FAO-56 procedures and TR-21 method of computing effective precipitation; average crop ET and representative crop acreage were developed and are under review by the Technical Team;
- Craig Boroughs has nearly completed development of the new URGWOM model, which has been used in the 2012 AOP (Craig reports on this item further down the agenda);
- Development of HEC-HMS based watershed (rainfall, runoff) model was suspended when Stephen Kissock left the District, some of that work may be completed under contractual services. Work by the National Weather Service in developing a forecast watershed model, in cooperation with the Corps, is continuing;
- Members of the Technical Team have been participating in regular meetings for the coordination, review and testing of the monthly model (PowerSim) and revisions to the ET computations used in the model is under review by the Technical Team. The model is being used by Reclamation in the West Wide Climate Risk Assessment;
- Models for the lower Rio Grande (Rincon, Mesilla and El Paso valleys) have been developed and circulated, along with documentation, to the Technical Team for review;
- The Technical Team presented a panel discussion on URGWOM at the annual AWRA meeting held last year in Albuquerque.

Nabil presented the results of the 2012 AOP (URGWOM 5.0) model runs, based on the dismal April 1st forecast (44% of average, most probable at Otowi). Along with a review of

forecast procedures, highlights of the presentation of stream flow and reservoir storage hydrographs include;

- Storage in El Vado Reservoir will reach approximately 130,000 acre-feet during the spring runoff;
- Cochiti deviation based on March 1st forecast has been cancelled;
- The supply available from Elephant Butte Reservoir will be approximately 350,000-400,000 acre-feet, and storage may fall to 120,000 acre-feet by end of July, 2012.

Craig led the Committee through a slide presentation on the new URGWOM model (version 5.0). This model combines the planning, water operations and forecast models into a single model. This effort has also streamlined model runs by consolidating accounts and rules and removing unused policy modeling options. This model should be suitable for use by Reclamation for water accounting.

Craig led the Committee through a slide presentation of plans to improve the model database management. The plan would streamline the annual update process, reduce input requirements and provide for DMIs that can retrieve selective dates from the data base file (alternate historical sequences).

Gretchen Oelsner outlined for the Committee the developments in URGWOM water quality modeling. Gretchen reviewed the history of the development of groundwater objects and the design document for the addition of water quality simulation. A spreadsheet model was constructed to validate the CADSWES design document for the development of groundwater objects that simulate the transport and concentration of salinity. Groundwater objects would be divided into layers to simulate the salinity flux in the upper 15 feet of the shallow aquifer. This could require lots of links and a large database, unless a creative way is developed to show and look up the data without filling up a lot of slots, etc. The water quality subcommittee has submitted comments on the design document to CADSWES, and responses to those comments are under discussion.

Under other business, Edie reported on RiverWare development not related to URGWOM, including a RiverWare / SWMM link and the ability to run RiverWare inside of the National Weather Service forecast models. CADSWES is also working on other URGWOM related development, including the GIS interface, and coordination with the Technical Team is ongoing.

Conrad reported that the Paso del Norte Watershed Council is scheduled to meet in Las Cruces on May 17, 2012 beginning at 9:00 am, and that the IBWC will be hosting a Citizen's forum in the Las Cruces area on July 19, 2012, at a time to be announced; the Watershed Council and the Texas Department of Environmental Quality will be hosting a water quality workshop on May 9, 2012.

The next meeting of the Advisory Committee will be held on October 24, 2012 beginning at 10:00 at the ISC Office in Albuquerque.

There being no further business, the meeting adjourned at about 12:00 pm.

URGWOM Steering Committee Meeting
April 24, 2012

Attendance List

NAME	ORGANIZATION
Nabil Shafike	NMISC
Mike Roark	U. S. Geological Survey
Amy Louise	Corps of Engineers, Albuquerque District
Craig Boroughs	BH & H, Inc.
William J. Miller	Consulting Engineer
Warren Sharp	Bureau of Reclamation, Albuquerque
Scott Anderholm	U. S. Geological Survey
Gretchen Oelsner	U. S. Geological Survey
Zhuping Sheng	Texas A&M University
Cyndie Abeyta	U. S. Fish and Wildlife Service
Jesse Roach	Sandia National Laboratory
Andrew Lieuwen	City of Albuquerque

Via telephone:

Edie Zagona	CADSWES, University of Colorado
David Neumann	CADSWES, University of Colorado
Conrad Keyes, Jr.	Corps Consultant
Tony Zimmerman	Bureau of Indian Affairs



Advisory Committee Meeting
April 24, 2012 – 10:00 am
Conference Room – New Mexico Interstate Stream Commission
5550 San Antonio Drive NE, Albuquerque, NM 87109

Call-in line: 1-855-547-8255, Pass code: 92015

Agenda

1. Introductions
2. Tech Team Update
3. 2012 Annual Operating Plan Simulations
4. URGWOM 5.0
5. Database Management Plan
6. Water Quality
7. Other Business
8. Next Meeting Date