

Draft Memorandum

To: URGWOM Technical Team Members
Date: November 11, 2022
Subject: Notes of the November 8, 2022 URGWOM Technical Team Meeting

These notes summarize the items discussed during the November 8, 2022 meeting of the Upper Rio Grande Water Operations Model (URGWOM) Technical Team. The meeting began at 9:00 am and was conducted as an on-line collaboration hosted by the Corps of Engineers using Webex. All those participating in the meeting introduced themselves and their names and affiliation are listed on the last page of these meeting notes.

The November, 2022 meeting agenda included a report on upgrades to the Middle Rio Grande and Lower Rio Grande portions of the model, an update of the URGWOM SharePoint administration, an update on RiverWare enhancements, and general updates on ongoing URGWOM related activities from the NM Interstate Stream Commission, the Corps of Engineers, the Bureau of Reclamation, the U. S. Geological Survey and their contractors.

Marc reported that the Corps has been reviewing the updated model prepared by Hydros to ensure that it works with all applications. One testing method included compiling inputs (initial values, time series inputs and account supply information) from the current model into SCT tables for comparison with and input to the updated model. The updated model was then modified to include the following:

- New area-capacity-elevation tables reflecting recent reservoir sediment surveys at Abiquiu and Jemez Canyon Reservoirs;
- Issues with accounts in Abiquiu Reservoir were resolved;
- Exported all of Ed Kandl's accounting notes into the updated model;
- New accounts for Prior and Paramount storage and environmental conservation storage accounts in Abiquiu Reservoir were exported to the updated model;
- Updated transfer between Los Alamos and the City of Santa Fe accounts in Abiquiu Reservoir.

Marc reported that when all of these changes and updates were made the results of the current model simulation and the updated model simulation were identical.

Nick reported to the Team on the work that Hydros had completed in the update of the URGWOM model that was submitted to the Corps of Engineers for their review. The upgrades to the model included:

- The addition of in excess of 100 deep aquifer objects into the Middle Rio Grande and Lower Rio Grande areas, which are linked to the existing groundwater objects;

- Completion of model to include full functionality of the Hudspeth County TX and the Juarez Valley MX areas;
- Recalibration of the Middle Rio Grande and Lower Rio Grande areas;
- Updated the existing URGWOM database .DSS files;
- Prepared new .DSS file of solely deep aquifer object data because the addition of the new deep aquifer data into the existing URGWOM would have resulted in a data file that is so large as to be cumbersome and difficult to use in an efficient manner;
- Documentation on the model enhancements and calibration will be made available to the Technical Team on the SharePoint site.

Marc indicated that there may be additional changes to the upgraded model pending his final review and analysis of the upgraded model.

Lucas reported that new Reclamation employees will begin working on the URGWOM Project. The URGWOM related activities being undertaken by Reclamation include the following. Additional details can be found on the URGWOM Updates spreadsheets.

- Provide reports on model updates to the Technical Team by way of the spreadsheet log; these reports will be posted on the SharePoint site as soon as they are completed; the issue tracker will also be maintained on the SharePoint site to identify, track and resolve model issues;
- A “current news” section has been added to the SharePoint site for convenient access to the most recent updates to the model; this update tracker will be maintained to ensure that all issues are addressed and progress on model development can be monitored;
- Changed Rule 57 to prevent local inflows being calculated below Bernardo;
- Changed method in IsletaToBernardoInteriorDrainEast2 object due to occasional unusual errors;
- Added updates to MRGCD diversions and ESA Flows;
- Added switch to new rules limiting MRGCD Diversions to % of native flow below Cochiti; switch is off by default;
- Delete SanMarcialConfluenceToElephantButte reach object as it was not utilized and giving erroneous return flows.

Cindy reported on behalf of the NM Interstate Stream Commission that, with the assistance of Hydros, work is ongoing on the review of ET data for the Middle Rio Grande, a review of MRGCD diversion data and a review of the NMISC fallowing program implementation. Cindy also reminded everybody that the email address for state employees will be changing. As a result of this change, the NMISC has had difficulty with accessing the SharePoint and BOR-kiteworks web sites.

David Neumann reported on the following recent RiverWare upgrades:

- Development of capability to copy and paste RPL between two open models;
- Develop application of open SSL which is required for access to web service DMI and web pages;
- The run control panel is now accessible on the model workspace.

The Technical Team will not meet in December, 2022. The next meeting of the Technical Team is scheduled for January 10, 2023. Prakash reported that the new URGWOM project manager, George Schuman, will coordinate and attend the January, 2023 Technical Team meeting.

There being no additional matters to be brought before the Team, the meeting was adjourned at about 9:35 am.

PARTICIPANT LIST
URGWOM TECHNICAL TEAM MEETING

November 8, 2022

<u>NAME</u>	<u>REPRESENTING</u>
Marc Sidlow	USACE, Albuquerque District
Prakash Kaini	USACE, Albuquerque District
George Schuman	USACE, Albuquerque District
William Miller	Southwest Water Design/USACE Contractor
Dave Moeser	US Geological Survey
Cindy Stokes	NM Interstate Stream Commission
Kyle Shour	Tetra Tech/USACE Contractor
Faith Kuria	Bureau of Reclamation
Lucas Barrett	Bureau of Reclamation
Jerry Melendez	Bureau of Reclamation
Carolyn Donnelly	Bureau of Reclamation
Brian Westfall	Keller Bliesner / BIA Contractor
David Neumann	CADSWES
Nick Mander	Hydros Consulting