## Draft Memorandum

To: URGWOM Technical Team MembersDate: July 14, 2023Subject: Notes of the July 11, 2023 URGWOM Technical Team Meeting

These notes summarize the items discussed during the July 11, 2023 meeting of the Upper Rio Grande Water Operations Model (URGWOM) Technical Team. The meeting began at 10:00 am (MST) and was conducted as a hybrid meeting with an on-line collaboration hosted by the Corps of Engineers using Webex and in person at the NM Interstate Stream Commission Office in Albuquerque, NM. All those participating in the meeting introduced themselves and their names and affiliation are listed on the last page of these meeting notes.

The July, 2023 meeting agenda includes a discussion on the Fall, 2023 URGWOM Tech Team inspection trip, recent RiverWare enhancements, miscellaneous proposed changes to URGWOM and general updates on ongoing URGWOM related activities from the NM Interstate Stream Commission, the Corps of Engineers, the Bureau of Reclamation, and their contractors.

Lucas reported that he transmits to the Technical Team copies of updated models and rules as they become available. The Bureau of Reclamation had no other specific items to bring before the Technical Team.

Marc reported that the Albuquerque District office is working on the following URGWOM related activities:

- Incorporating URGWOM into the Corp's Water Management System (CWMS);
- Review and update of Water Control Manuals for Corp's projects in New Mexico including the Abiquiu Reservoir Water Control Manual.

Cindy asked that Nick report on the URGWOM related activities that Hydros is performing on behalf of the NM Interstate Stream Commission including:

- Modifications to the blending hydrograph methods for use in developing the AOP runoff forecasts including dividing the forecast period into three distinct periods with the ability to select up to three forecast years for each distinct period. Update the ability to develop multi-year AOP type model runs where the three closest (to forecast volume) historic hydrographs may be selected by the users. Currently the three hydrographs are automatically selected from the record.
- Modifications to the slots controlling the storage of debit water in El Vado and Heron Reservoirs to avoid the "runaway storage" of debit water. When URGWOM simulates too much debit water in storage it becomes difficult to release all of the

debit storage between the end of the irrigation season and the end of the year. By default, this slot is turned off.

• Provide for the consistent application of the initial soil moisture content in the Middle Rio Grande and Lower Rio Grande agricultural simulations. Initial soil moisture content has an effect on model run results. The Team agreed that the use of an initial moisture content of 50% of maximum is reasonable.

Miller presented to the group a proposed itinerary for the next URGWOM Technical Team inspection trip. The field inspection includes sites in the Jemez River Basin and is tentatively scheduled for September 12, 2023, to be held in lieu of the regular Technical Team meeting. Potential stops on the trip include the USGS stream gage Jemez River nr. Jemez, the Jemez and Zia Pueblos' diversions from the Jemez River, Zia Lake, Jemez Canyon Dam, and the gage at the outfall of Jemez Canyon Dam. Miller will circulate the proposed itinerary to members of the Technical Team to determine the level of interest among Team members. Cindy suggested that a tour of the works of the San Juan-Chama Project be scheduled for the next field inspection. Recognizing that this will be a two-day trip and require an over-night stay in Chama, NM.

David Neumann reported on the following improvements that CADSWES has recently implemented (or soon will) to the model software:

- Added the capability to plot periodic slots (multiple columns) from data selected from multiple column slots.
- Improved the date and time navigation features in series data to help track the current working time step;
- Placement of all settings in one searchable location called a "settings manager". This features is still under development and not ready to be released;
- Improvements to the window layout manager that will allow for the creating and defining where various windows are located within the layout. Work on this task is ongoing.
- Capability to organize window locations based on data source, add multiple windows, arrange plots, table and objects. This is a beta version available in RiverWare version 9.1, which will be released later this year.

Under other business, David reported that the RiverWare users group meeting is scheduled for August 29-30, 2023, and he invited interested individuals to participate in the meeting.

The next regular meeting of the Technical Team will be held August 8, 2023 beginning at 10:00 am. This meeting will be a virtual meeting hosted by Webex.

There being no additional matters to be brought before the Team, the meeting was adjourned at about 10:55 am.

## ATTENDANCE LIST URGWOM TECHNICAL TEAM MEETING

July 11, 2023

## NAME

## REPRESENTING

*Those attending meeting in person:* 

Marc Sidlow	USACE, Albuquerque District
George Schuman	USACE, Albuquerque District
William Miller	Southwest Water Design/USACE Contractor
Breanna Chavez	Tetra Tech/USACE Contractor
Lucas Barrett	Bureau of Reclamation
Cindy Stokes	NM Interstate Stream Commission

*Those participating in meeting virtually:* 

Prakash Kaini	USACE, Albuquerque District
Nabil Shafike	USACE, Albuquerque District
Reynalden Delgarito	USACE, Albuquerque District
Brian Westfall	Keller Bliesner Engineering / BIA contractor
Kyle Shour	Tetra Tech/USACE Contractor
Anne Marken	Middle Rio Grande Conservancy District
Jerry Melendez	Bureau of Reclamation
Faith Kuria	Bureau of Reclamation
David Neumann	CADSWES
Nick Mander	Hydros Consulting
John Carron	Hydros Consulting