

# Regional Water Planning Group - Area B

in cooperation with the Texas Water Development Board



June 26, 2019

Mr. Jeff Walker, Executive Administrator  
Texas Water Development Board  
P.O. Box 13231  
Austin, Texas 78711-3231

**Re: Hydrologic Variance Requests for Water Availability Determination of Water Management Strategies in Region B**

Dear Mr. Walker:

In the "Hydrologic Variance Request for Water Availability Determination of Current Surface Water Supplies in the Region B" letter dated January 10, 2018, it was requested "to extend the hydrology for Region B water supply reservoirs in the Red River Basin through 2015" and to use "reservoir-specific operation models." In a letter from the TWDB dated June 27, 2018, this request was approved for "four reservoir-specific operation models with extended hydrology through 2015." The letter also stated, "for the purpose of evaluating potentially feasible water management strategies, the appropriate Texas Commission on Environmental Quality's WAM RUN 3 is to be used, unless a hydrologic variance request for future surface water sources availabilities is submitted and approved."

The purpose of this letter is to request the use of one of the four approved reservoir-specific operation models with extended hydrology through 2015 for evaluating the Lake Ringgold water management strategy.

## City of Wichita Falls Lake Ringgold Water Management Strategy

The proposed Lake Ringgold will be located on the Little Wichita River downstream of Lakes Kickapoo and Arrowhead. It is requested that the same reservoir-specific model previously approved for Lakes Kickapoo and Arrowhead with extended hydrology through 2015 be used by adding Lake Ringgold to calculate yields. The model would address priority analysis within the Little Wichita River Basin. Full basin priority is not possible with the extended hydrology model. The extended hydrology model is necessary to assess the critical drought for this new water supply.

The segment of the Little Wichita River that would not be directly impacted by the construction of the dam and spillways is about a half-mile long, and is affected by the ebb and flow of the Red River. Due to the limited channel length and influence of the Red River, no instream flow releases are proposed from Lake Ringgold. This modeling approach is consistent with the modeling in support of the water right application to the Texas Commission on Environmental Quality (TCEQ).

Please contact Jeremy Rice of Freese and Nichols, Inc. at (817) 735-7397 if you have any questions regarding this request.

Sincerely,

**REGIONAL WATER PLANNING GROUP – AREA B**

Russell Schreiber, P.E.  
Chair

RS:slg

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