

# Roanoke River Basin Hydrologic River Basin Model

Kickoff Meeting  
August 23, 2012

Tom Fransen  
Division of Water Resources

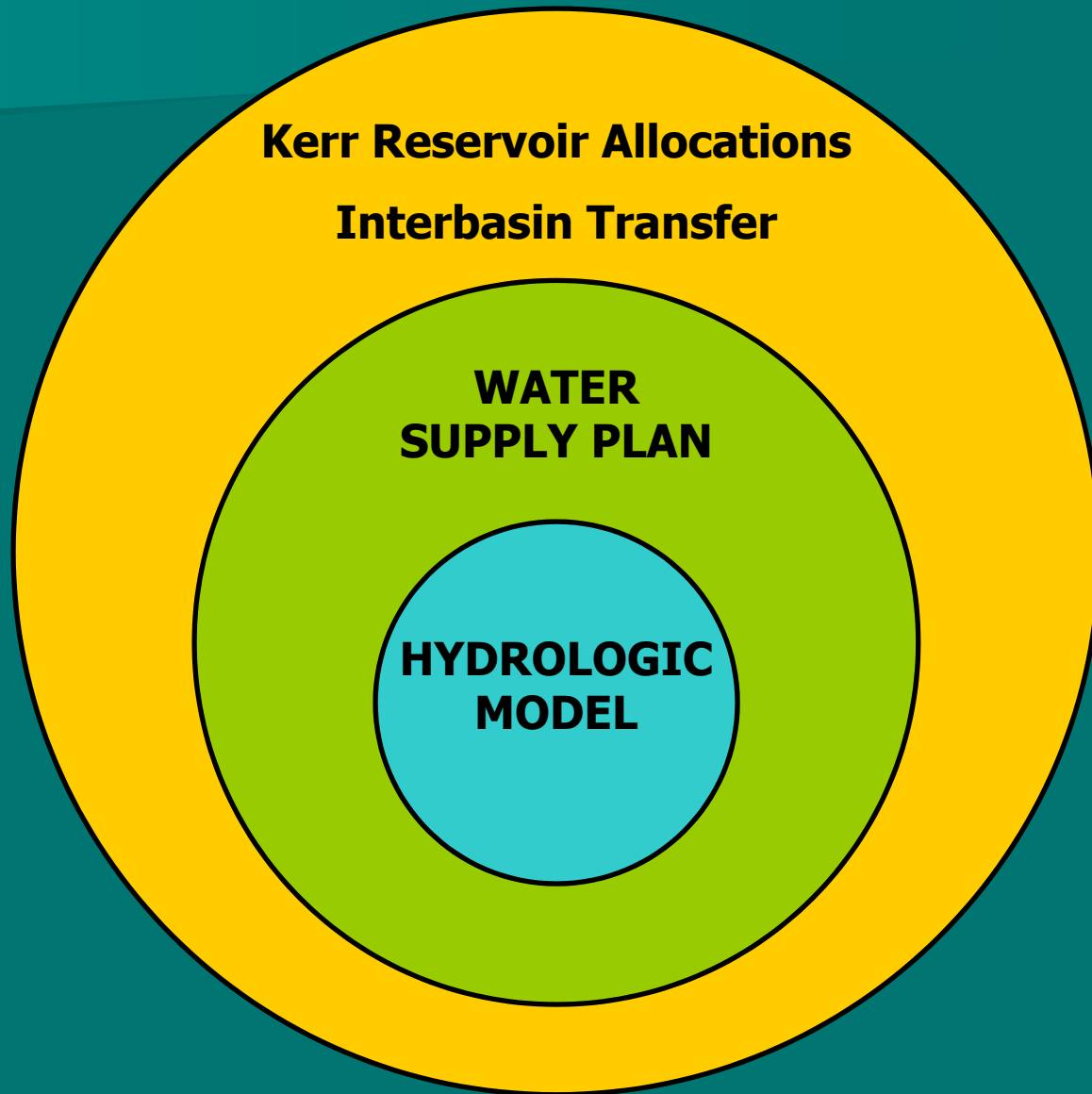


# Roanoke River Basin



**SL 2010-143 Improve River Basin Modeling**

# Roanoke River Basin



## Improve River Basin Modeling – SL 2010-143

- (3) Model. – Each basinwide hydrologic model shall:
- a. Include surface water resources within the river basin, groundwater resources within the river basin to the extent known by the Department, transfers into and out of the river basin that are required to be registered under G.S. 143-215.22H, other withdrawals, ecological flow, instream flow requirements, projections of future withdrawals, an estimate of return flows within the river basin, inflow data, local water supply plans, and other scientific and technical information the Department deems relevant.
  - b. Be designed to simulate the flows of each surface water resource within the basin that is identified as a source of water for a withdrawal registered under G.S. 143-215.22H in response to different variables, conditions, and scenarios. The model shall specifically be designed to predict the places, times, frequencies, and intervals at which any of the following may occur:
    1. Yield may be inadequate to meet all needs.
    2. Yield may be inadequate to meet all essential water uses.
    3. Ecological flow may be adversely affected.
  - c. Be based solely on data that is of public record and open to public review and comment.
- (6) Approval and modification of hydrologic models.

# S.L. 2012-200 – Amend Environmental Laws 2012

## PART II. STUDY REALLOCATION OF WATER SUPPLY IN KERR LAKE

- **SECTION 2.(a)** The Department of Environment and Natural Resources shall study the advisability and feasibility of reallocating water supply in John H. Kerr Reservoir from hydropower storage to water supply storage. The study shall identify the projected future water supply needs that could be met by reallocation of the water supply and identify any potential impacts of a water supply reallocation. ...
- **SECTION 2.(b)** in conducting this study, **the Department shall consult with the Virginia Department of Environmental Quality, the United States Army Corps of Engineers, and any local government or other entity that receives an allocation from the John H. Kerr Reservoir** for water supply or for other purposes as of the effective date of this section. The Department shall report its findings and recommendations to the Environmental Review Commission on or before **June 1, 2014.**

# Questions?

Tom Fransen

dwr-roanoke-staff@lists.ncmail.net.

(919)707-9015

[http://www.ncwater.org/Data and Modeling/Roanoke/](http://www.ncwater.org/Data_and_Modeling/Roanoke/)