Catawba-Wateree River Basin Advisory Commission

Division of Water Resources Update

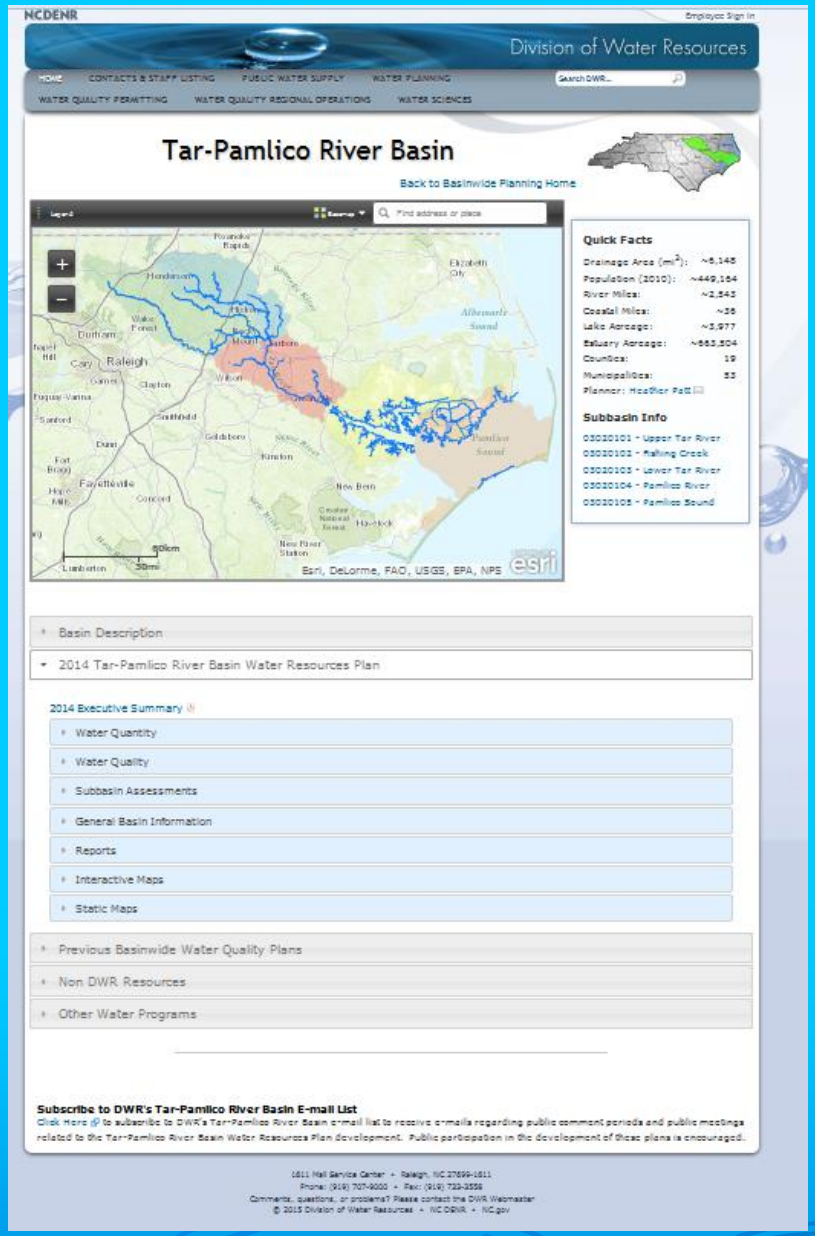
Tom Fransen

Water Planning Section Chief

DENR/DWR Lineup

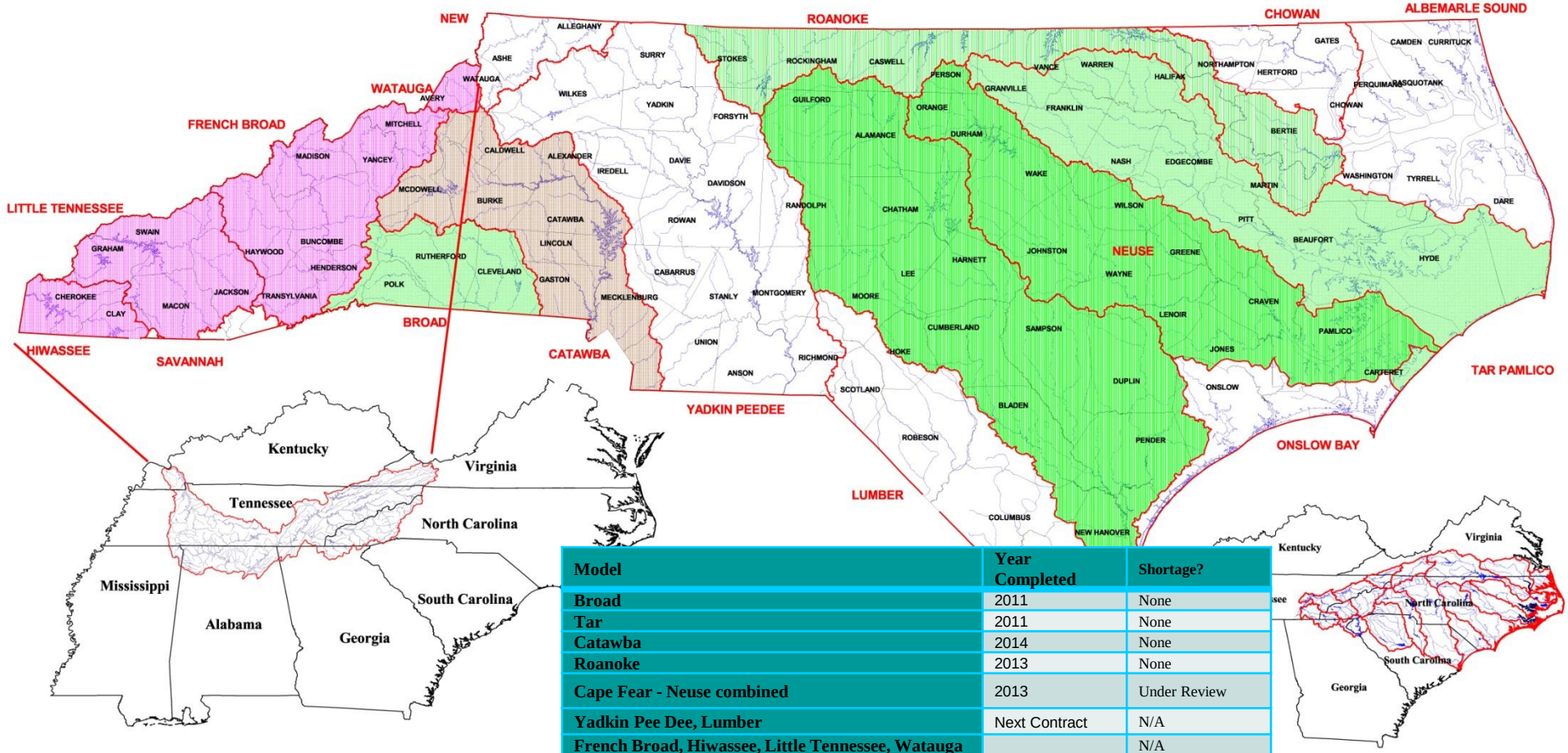
Personnel Changes from the last meeting.

- **DENR**
  - **Don van der Vaart – Secretary**
  - **John Evans – Chief Deputy Secretary**
  - **Tom Reeder – Ass. Secretary of the Env.**
- **DWR**
  - **Jay Zimmerman - Director**



http://www.ncwater.org/basins/Tar-Pamlico/

Status of NC Hydrologic Basin Models



Model	Year Completed	Shortage?
Broad	2011	None
Tar	2011	None
Catawba	2014	None
Roanoke	2013	None
Cape Fear - Neuse combined	2013	Under Review
Yadkin Pee Dee, Lumber	Next Contract	N/A
French Broad, Hiwassee, Little Tennessee, Watauga		N/A
Albemarle Sound, Chowan, New, Onslow Bay, Savannah		N/A

Improve River Basin Modeling – SL 2010-143

(6) Approval and modification of hydrologic models.

a. Upon completion of a hydrologic model, the Department shall:

1. Submit the model to the Commission for approval.
2. Publish in the North Carolina Register notice of its recommendation that the Commission approve the model and of a 60-day period for providing comment on the model.
3. Provide electronic notice to persons who have requested electronic notice of the notice published in the North Carolina Register.

b. Upon receipt of a hydrologic model, the Commission shall:

1. Receive comment on the model for the 60-day period noticed in the North Carolina Register.
2. Act on the model following the 60-day comment period.

c. The Department shall submit any significant modification to an approved hydrologic model to the Commission for review and approval under the process used for initial approval of the model.

d. **A hydrologic model is not a rule, and Article 2A of Chapter 150B of the General Statutes does not apply to the development of a hydrologic model.**

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.

Questions?

Tom Fransen

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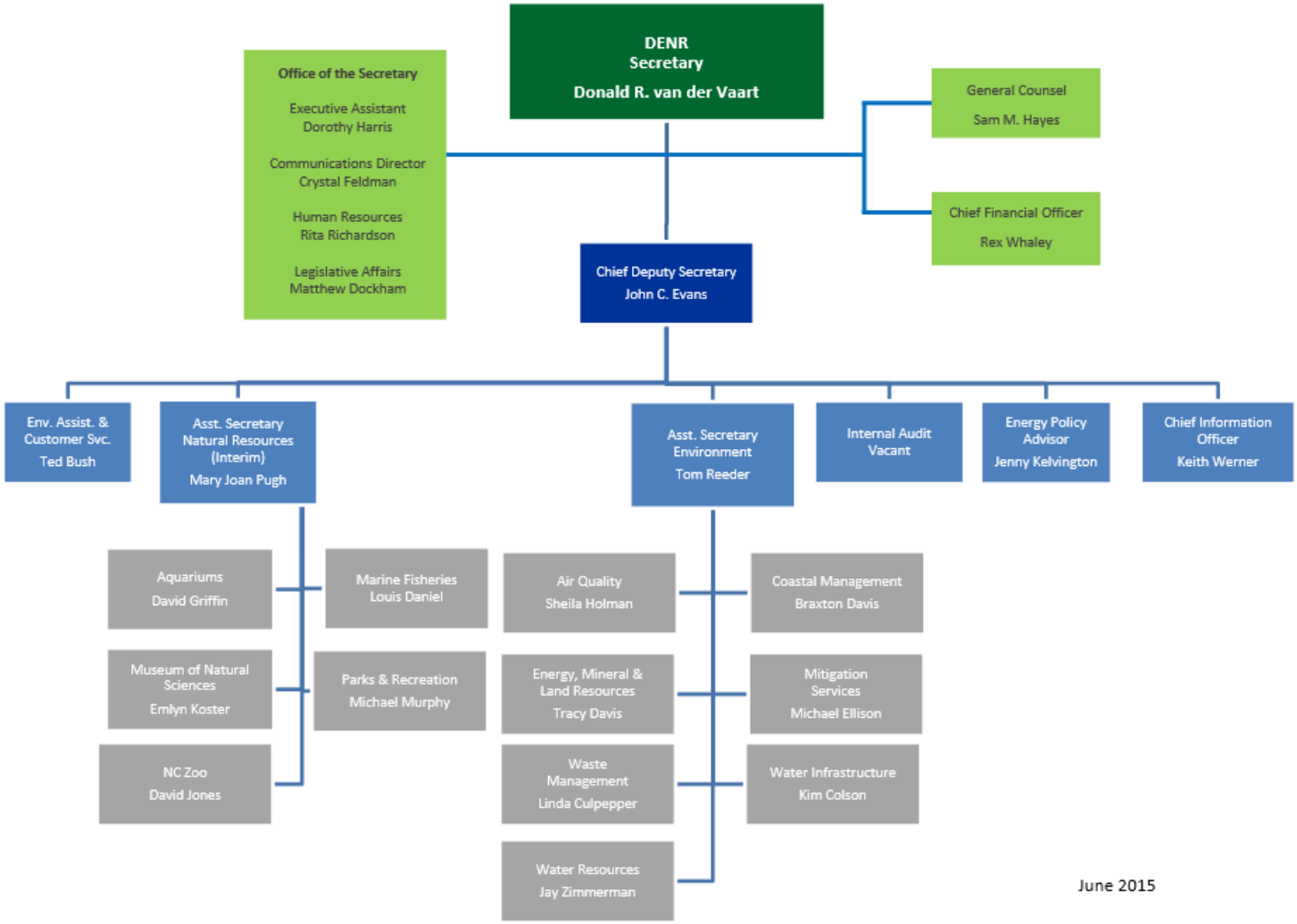
http://www.ncwater.org/


DENR
Secretary
Donald R. van der Vaart
Office of the Secretary
Executive Assistant
Dorothy Harris
Communications Director
Crystal Feldman
Human Resources
Rita Richardson
Legislative Affairs
Matthew Dockham
General Counsel
Sam M. Hayes
Chief Financial Officer
Rex Whaley
Chief Deputy Secretary
John C. Evans
Env. Assist. & Customer Svc.
Ted Bush
Asst. Secretary Natural Resources (Interim)
Mary Joan Pugh
Asst. Secretary Environment
Tom Reeder
Internal Audit
Vacant
Energy Policy Advisor
Jenny Kelvington
Chief Information Officer
Keith Werner
Aquariums
David Griffin
Museum of Natural Sciences
Emlyn Koster
NC Zoo
David Jones
Marine Fisheries
Louis Daniel
Parks & Recreation
Michael Murphy
Air Quality
Sheila Holman
Energy, Mineral & Land Resources
Tracy Davis
Waste Management
Linda Culpepper
Water Resources
Jay Zimmerman
Coastal Management
Braxton Davis
Mitigation Services
Michael Ellison
Water Infrastructure
Kim Colson
June 2015

Basin Hydrologic Models

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Shortages is based on the projected demands and new alternatives as supplied in the local water supply plans. DWR staff for this analysis has not made a determination if the projections are reasonable or the likelihood an alternative is practical.