

Delaware River Basin Commission

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Carol R. Collier Executive Director

Robert Tudor Deputy Executive Director

SUMMARY MINUTES WATER QUALITY ADVISORY COMMITTEE DECEMBER 12, 2012

ATTENDEES:

Members:	
NYS DEC (via telephone)	DE DNREC
Scott Stoner	Dave Wolanski (via telephone)
NJ DEP	PA DEP
Debra Hammond	Tom Barron (via telephone)
EPA	Academia Representative
Wayne Jackson, EPA, Region II (via telephone)	John Jackson, Stroud Water Research
Not represented, EPA, Region III	
Environmental Organization Representatives	Regulated Community Representatives
Maya van Rossum, Delaware Riverkeeper	Al Pagano, E.I. DuPont
National Park Service	Local Watershed Organization
Not represented	Abigail Pattishall, Wildlands (alt. for C.Kocher)
DRBC:	Other Attendees:
Greg Cavallo, Geologist	Kelly Anderson, PWD
Carol Collier, Executive Director	Vic Bierman, Jr., LimnoTech
Tom Fikslin, Manager, Model. Mon.& Assess.	Carl Cerco, US ACOE
Jeff Iudicello, Water Resource Eng./Modeler	Bob Chant, Rutgers
Bob Limbeck, Watershed Scientist	Steve Chapra, Tufts University
Ron MacGillivray, Env. Toxicologist	Jason Cruz, PWD
Ken Najjar, Manager, Plan. & Info. Tech.	Jeff Fischer, USGS-NJ
Erik Silldorff, Aquatic Biologist	Jack Gibs, USGS-NJ
Namsoo Suk, Supervisor, Modeling	Len Gipson, PWD
John Yagecic, Supervisor, Stds. & Assmt.	Dennis Greene, O'Brien & Gere
	Josef Kardos, PWD
	Andy Thuman, HDR/HydroQual
	Andy Thuman, HDR/HydroQual Kirk White, USGS-PA
	Andy Thuman, HDR/HydroQual

The meeting was called to order at 9:40 am by Erik Silldorff, WQAC Liaison (chair and vice-chair were absent)

<u>1. Administrative</u>

• Members of the Modeling Expert Panel (Dr. Carl Cerco, Dr. Bob Chant, Dr. Steve Chapra, Dr. Vic Bierman) were introduced and each provided a broad overview of their background, experience, and relevant expertise for modeling estuaries and the dynamics of nutrients and dissolved oxygen.

- Meeting minutes from March 21, 2012 were approved without changes.
- Organization: Denise Hakowski (USEPA-R3) has been re-assigned and will no longer serve on the WQAC.

2. Review of Nutrient Management Strategy

Tom Fikslin gave a PowerPoint presentation¹ entitled, "Nutrient Management Strategy for the Delaware River Estuary" describing the background, motivations, and directions for addressing nutrients for the Delaware Estuary. This sparked a number of discussions related to monitoring and modeling in the estuary, including the likely need to accurately model the Delaware Bay.

3. Expert Panels for Nutrient Criteria Development

Erik Silldorff gave a PowerPoint presentation¹ entitled, "Delaware Estuary Nutrient Criteria: Need & Use of Expert Panels." The presentation covered the original ideas for convening experts around nutrient questions, and the different roles and different groups of expertise needed during the process. Like with the previous presentation, these slides sparked further discussions about the modeling efforts and how the later phases of ecological consideration might interact with the near-term modeling. A recommendation was made to have DRBC serve as liaison among expert panels, with additional direct interaction among the Expert Panels as-needed.

4. Review of Past Modeling Efforts

Namsoo Suk gave a PowerPoint presentation¹ entitled, "Development of Delaware Estuary Hydrodynamic and Eutrophication Model," including a review of past modeling efforts and topics to be discussed with the Modeling Expert Panel. This presentation provided an opportunity for direct interaction between WQAC members and the Modeling Expert Panel members on a broad suite of the modeling issues for the estuary. Among the topics discusses were:

- domain and dimensions, including extent of tributary modeling
- the value of including sediment transport algorithms
- the need, value, and challenge of modeling tidal marshes
- the role of 1-D models in the overall modeling effort
- modeling and quantifying tributary and non-point source loads of nutrients
- computing resources as a possible limitation for model complexity

One question that was raised was the value of adding expertise to complement the existing 4 members on the Modeling Expert Panel. Although a number of possible areas of expertise were identified, the WQAC and Expert Panel members generally agreed that the current complement was sufficient to initiate and guide modeling effort, and that any additional expertise would be clarified later in the process and could be added at that time.

Meeting Adjourned @ 12:45 pm.

¹ Presentations from the meeting are available at <u>http://www.state.nj.us/drbc/about/advisory/quality/</u>