

**Northern Tampa Bay Phase II Local Technical Peer Review Group (LTPRG)
SWFWMD Tampa Service Office, Hwy 301N, Tampa**

**Meeting 33
September 6, 2006 - 9:30AM**

Summary

The following were in attendance: Doug Keesecker, Tampa Bay Water; **R. Warren Hogg**, Tampa Bay Water; Jeffrey Chanut, Tampa Bay Water; Jeff Geurink, Tampa Bay Water; Scott Emery, EHI/Hillsborough County; **Dave Slonena**, Pinellas County; **Richard Voakes**, City of St. Petersburg; Kim Haag, USGS; Patricia Metz, USGS; Terrie Lee, USGS; **Gordon Leslie**, Hillsborough EPC; Yuan Li, Ayres Associates; Hamid Boyd, Ayres Associates; Peter Schreuder, Schreuder, Inc.; **Michael Hancock**, SWFWMD; **Ted Rochow**, SWFWMD; Maya Burke, SWFWMD; **Doug Leeper**, SWFWMD; Gordon McClung, SWFWMD; David Arnold, SWFWMD; and John Emery, SWFWMD. Names in bold are designated representatives for the LTPRG.

Doug Leeper provided an update on the status of minimum flows and levels development for priority District lakes. He noted that staff expects to present minimum levels for selected Citrus County (Fort Cooper, Tsala Apopka) and Sumter County (Big Gant, Deaton, Miona, Okahumpka, Panasoffkee) lakes to the Governing Board for adoption in October 2006. He also noted that data collection and analyses for the 2006 priority lakes is ongoing, and with the exception of Lake Hancock, staff expect to present minimum levels for the lakes to the Governing Board for their consideration at the November 2006 Board meeting. Mr. Leeper also indicated that staff will be presenting the proposed 2007 Minimum Flows and Levels Priority List to the Board this month and will be hosting public input workshops on the proposed list in October 2006. Finally, he indicated that several reports and published scientific papers on District-funded lake projects were available for distribution. The documents included are:

Caffrey, A.J., Hoyer, M.V. and Canfield, D.E., Jr. 2006. Factors affecting the maximum depth of colonization by submersed macrophytes in Florida lakes. University of Florida Department of Fisheries and Aquatic Sciences. Gainesville, Florida. Prepared for the Southwest Florida Water Management District. Brooksville, Florida.

Cooney, P.B. and Allen, M.S. 2006. Effects of introduced groundwater on water chemistry and fish assemblages in central Florida lakes. *Hydrobiologia* 556: 279-274.

DeArmond, B.S., Brenner, M.S., Kenney, W.F., Leeper, D.A., Smoak, J.M., Curtis, J.H., Shumate, B.C. and Buck, D.G. 2006. Radium-226 accumulation in sediments of a groundwater-augmented lake near Tampa, Florida, USA. *Verhandlungen Internationale Vereinigung für Theoretische und Angewandte Limnologie* 29: 1275-1279.

Leeper, D.A. 2006. Proposed methodological revisions regarding consideration of structural alterations for establishing Category 3 Lake minimum levels in the Southwest Florida Water Management District, April 21, 2006 peer-review draft. Southwest Florida Water Management District. Brooksville, Florida.

Smoak, J.M. and Krest, J.M. 2006. Sources of radium in a well-water-augmented Florida Lake. *Journal of Environmental Radioactivity* 89: 1-2-114.

Wagner, K. and Dierberg, F. 2006. A review of "Proposed methodological revisions regarding consideration of structural alterations for establishing Category 3 Lake minimum levels in the Southwest Florida Water Management District" by D. Leeper, 2006. Prepared for the Southwest Florida Water Management District. Brooksville, Florida.

Terrie Lee gave a presentation describing a novel water-budget approach used to quantify and compare leakage from selected natural and augmented wetlands in the Northern Tampa Bay area. Leakage rates ranged by a factor of 30 from the leakiest augmented site to the least-leaky natural sites. All leakage loss rates were dependent on the head conditions in the Upper Floridan aquifer during the water-budget period, as well as the confinement below the wetland. Ms. Lee examined the influence of these factors on the calculated leakage rates. The wetland leakage results were part a broader wetlands study done by USGS in collaboration with SWFWMD, Tampa Bay Water, and Pinellas County.

David Arnold gave the group a presentation on the status of a study of the effects of local drainage and development on the water budgets of Lakes Starvation, Rogers, and Raleigh. The District has hired a consultant, Ayres and Associates, Inc., to perform the work. A report documenting the work to date is included on the NTB web site. The consultant has determined historic and current topographic watersheds, and the development of an integrated model is proposed. Through the use of the model, the consultant will assess the lake water budgets with and without the various drainage and development changes in the area, and will quantify the differences. The results will be used by the District to account for drainage and development changes when developing the minimum levels for the three lakes.

The next regular LTPRG meeting is scheduled for 9:30 AM on November 1, 2006 at SWFWMD's Tampa Service Office.

AGENDA

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Meeting 33 SWFWMD Tampa Service Office, Hwy 301N, Tampa

September 6, 2006 - 9:30AM

1. August meeting follow-up
2. Miscellaneous updates
 - Lake MFL Update
3. Recent findings on the Assessment of Wetland Augmentation (Terrie Lee and Kim Haag, USGS)
4. Watershed Evaluation for Lakes Starvation, Rogers, and Raleigh (Dave Arnold, SWFWMD, and Ayres and Associates)
5. Issues for next Meeting – November 1, 2006