

**Northern Tampa Bay Phase II Technical Advisory Committee
SWFWMD - Tampa Service Office**

**Meeting 1
September 6, 2000 - 9:00AM**

Minutes

The following were in attendance: Kay Adams, Hernando County; Peter Owens, Hillsborough County EPC; Zhongyab Lin, Hillsborough County EPC; Gordon Leslie, Jr., Hillsborough County EPC; Rich McLean, Pinellas County; Dave Slonena, Pinellas County; Ralph Craig, City of St. Petersburg; John Trout, Tampa Bay Water, Doug Keesecker, Tampa Bay Water; Jeff Vilagos, City of Tampa; Andy Smith, Hillsborough County; Ross McWilliams, Hillsborough County; Sam Upchurch, ERM/Tampa Bay Water; Michael Hancock, SWFWMD; Mark Barcelo, SWFWMD; Karen Lloyd, SWFWMD; Marty Kelly, SWFWMD; John Emery, SWFWMD; Clark Hull, SWFWMD; Ted Rochow, SWFWMD; Doug Leeper, SWFWMD, Jonathan Morales, SWFWMD; Adam Munson, SWFWMD; Robert Peterson, SWFWMD; Ken Weber, SWFWMD

Michael Hancock led a discussion of organizational topics concerning meeting times, frequency of meetings, and procedures. The group decided that the regular meeting day will be the first Wednesday of the month, with meetings to begin at 9:30 AM. We will try to limit meeting times to three hours. The TAC will meet every month for the next several months, but will eventually shift to meeting every other month. A list of current TAC members was distributed to the group for review (attached).

Mr. Hancock reminded the group that a Northern Tampa Bay Phase II web page has been established as part of the SWFWMD website. The web page is currently being expanded, and will include an area for meeting announcements, posted documents, meeting minutes, and a discussion board. The discussion board will allow TAC members to post questions and comments amongst themselves, and will allow the public to read the comments, but not add to them.

Mr. Hancock stated that the current NTB II Scope of Work is on the web page. The Scope of Work will be updated annually, with an update to be posted within the next several months. Comments on the Scope of Work can be sent through the web page, or mailed to the District.

A brief presentation of the proposed review process for minimum flows and levels and other topics of interest for the TAC was presented by Mr. Hancock. A document outlining this process will be posted on the web page.

The first technical discussion for the group concerned the Northern Tampa Bay monitoring network for aquifers, wetlands, and lakes. Mr. Hancock distributed a list of monitoring network issues (attached), and a brief discussion of the issue took place. These issues will be discussed during future meetings.

Dr. Ted Rochow presented the status of the SWFWMD's assessment and expansion of the wetlands monitoring network. Dr. Rochow presented maps showing the existing wetlands monitoring networks of the SWFWMD and Tampa Bay Water, including several new sites installed in the last several months. For many existing sites, surficial aquifer monitor wells have been installed in both the wetland and adjacent uplands. Future sites will be installed similarly. The District is interested in expanding wetland coverage spatially, and expanding monitoring to wetland types with little or no existing monitoring. A discussion occurred about whether to prioritize spatial coverage or wetland type coverage. District staff felt a balance between the two should be sought, but that this was a topic for further discussion in upcoming meetings. Dr. Rochow felt that some agreement was needed on a classification scheme for wetland types, as well as on several other issues listed on the handout (attached).

Dr. Sam Upchurch presented the status of his geostatistical analysis on Tampa Bay Water's monitoring network. Dr. Upchurch's stated that the results of his analysis will be published shortly. Dr. Upchurch reported that his study addressed an evaluation and optimization of the monitoring of ground-water level and quality, lakes, streams, rainfall, and evaporation pans. Ground-water quality monitoring included coastal salt-water intrusion, inland sulfate up-coning, and the effects of induced recharge. Dr. Upchurch's study found that grids of 3,100 feet, 12,000 feet, and 60,000 feet on a side were optimal for surficial aquifer, Floridan aquifer, and rainfall monitoring, respectively. He also concluded that the current network of lake monitoring is sufficient, and that stream flow monitoring needed to be increased outside of wellfield areas. He was not able to perform a geostatistical analysis on evaporation pans, although he recommends an east-west array and the movement of some pans away from lakes and wetlands. Finally, Dr. Upchurch recommends a ground-water quality monitoring grid of 21,000 feet on a side, as well as a random well network for status monitoring. A "before-after-control-impact", or BACI design was recommended for an assessment of induced recharge on water quality.

Mr. Hancock concluded the meeting by providing a brief overview of the assessment of SWFWMD's ground-water monitoring network. A report on the assessment is posted on the NTB II web page. Mr. Hancock stated that SWFWMD's lake and water quality monitoring networks will be discussed at a future meeting.

The next NTB II TAC will be held at 9:30 AM on October 4, 2000 in the Governing Board room of SWFWMD's Tampa Service Office.

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Agenda

1. Introduction 9:00-9:10
2. Discussion of TAC Meeting Procedures 9:10-9:30
 - members
 - meeting frequency
 - meeting day
 - communication
 - minutes
 - email
 - website (with discussion boards)
 - Scope of Work
3. Presentation of Proposed Review Process (SWFMWD staff) 9:30-10:00
4. Presentation on SWFWMD's Monitoring Network for Aquifers, Wetlands, and Lakes 10:00-11:30
 - General issues
 - Wetlands
 - Aquifers
 - Lakes
 - Water quality
5. Issues for the Next Meeting

Northern Tampa Bay Phase II Technical Advisory Committee

List of Members - September 6, 2000

SWFWMD Representatives	Michael Hancock Doug Leeper Ted Rochow
Tampa Bay Water	Warren Hogg Michael Coates
Hillsborough County	Andy Smith
Hillsborough County EPC	Gordon Leslie
Pinellas County	Dave Slonena Rich McLean
Pasco County	Bruce Kennedy
Hernando County	Kay Adams Dawn Durham
City of Tampa	Jeff Vilagos
City of St. Petersburg	Richard Voakes Ralph Craig
WRRWSA	Jack Sullivan

Northern Tampa Bay Phase II Technical Advisory Committee

Monitoring Network Issues

September 6, 2000

1. What are the classifications of wetlands? How many types should we monitor?
2. How many wetland, lake, and aquifer sites should be monitored?
3. Are both staff gauges and surficial wells needed in lakes and wetlands?
4. Where in the lakes and wetlands should the wells and gauges be placed?
5. Surficial well installation standards
 - a. construction standards, including grouting, sand packing, etc.
 - b. surveying
 - c. well protection from fire, etc.
6. What should be the frequency of data collection for wetlands, lakes, and aquifers?
7. What types of easements should be pursued? Since temporary easements may be terminated at any time by the landowner, with valuable data lost, should we pursue permanent easements? Should there be a mix of easement types?
8. Should we have a central data-base, accessible to all agencies? What should be in the data-base?
9. What is the status of Tampa Bay Water's database?
10. What is the status of data from other agencies?
11. What is the status of Sam Upchurch's work on the monitoring well networks?