

Summary of the August 18, 2004 Nutrient Work Group Meeting

On August 18, 2004, the Nutrient Work Group (NWG) met with HydroQual at the EPA NYC offices. HydroQual presented the results of the SWEM component runs and presented a revised unit response matrix for Long Island Sound.

Prior to the meeting, HydroQual provided the work group with pdf files that contained plots and charts showing the results of all the component runs and component comparisons in all the LIS response regions. The results of the component runs were presented for a midline transect running from the Battery to the Race. Total nitrogen, chlorophyll-a, total organic carbon and dissolved oxygen concentrations resulting from the removal of nitrogen and from the removal of carbon were presented for the following jurisdictional components: the six NYC East River STPs, the other NY STPs discharging to LIS, the CT STPs, the LIS coastal runoff including CSOs and the LIS tributaries. The concentration differences between the component runs and the baseline runs were also presented for each of the parameters.

Bar charts for each of the above parameters were presented for the critical cell in each of the regional response zones. The charts show the relative contribution of each component. In addition to the jurisdictional components above ocean, direct atmospheric and Harbor components were presented. HydroQual presented only a portion of this data at the meeting.

HydroQual also presented the revised unit response matrix and an audio tutorial for the matrix. The work group was given access to the matrix and tutorial through an internet download. The Matrix presentation led to a discussion of the nitrogen par values (DO improvement/ load removed) for management zones 4 and 5. The values for these zones are the highest in all the response regions.

The use of the USGS sparrow model to calculate loads for the pastoral scenario was also discussed.

The work group scheduled a meeting for September 29, 2004.

At that meeting, HydroQual will present

- a more detailed analysis to account for the high nitrogen par values for zones 4 and 5,
- the pastoral/pre-colonial scenario,
- the out of basin (Harbor and ocean) flux calculations.

In addition, the work group will discuss

- additional management scenarios to be run,
- a timeline for completing modeling work and for using the information in the TMDL framework.
- the application of the SWEM in New Jersey waters (update on the September 10, 2004 meeting),
- an EPA proposed framework for the assessment of nutrient management in the Harbor and management zones for the Harbor.

Attendees:

Marzooq Al-Ebus	NJDEP
Anne Carpenter	NYCSWCD
Mick DeGraeve	GLEC
Jim Fitzpatrick	HydroQual
John St. John	HydroQual
Keith Mahoney	NYCDEP
Robin Miller	HydroQual
Jagdish V. Mistry	Westchester Co. DEF
Brian J Mitchell	IEC
Bob Nyman	USEPA-HEP
Kevin O'Brien	Hazen & Sawyer
Philip O'Brien	NYSDEC
Morton Orentlicher	CAC
E. Jane Rebhuhn	Great Neck WPCD
Mathew Schoen	USEPA
Paul Stacy	CTDEP
Mark Tedesco	EPA-LIS
Anne Witt	NJDEP
Naji Yao	NYCDEP