

Summary of the September 29, 2004 Nutrient Work Group Meeting

On September 29, 2004, the Nutrient Work Group (NWG) met with HydroQual at the Hudson River Foundation office. The meeting began with a presentation by HydroQual showing the annual average fluxes of nitrogen and carbon in the Sound. Besides showing the fluxes across a boundary interfaces at the Race, the Battery and the Harlem River confluence with the Hudson River, the diagrams also showed fluxes across the bottom sediment and atmospheric interfaces.

HydroQual said the data will be developed to show the flows and concentrations associated with the fluxes. They also agreed to develop the information on a monthly basis to see if there are seasonal differences.

The next presentation by HydroQual was a response to the workgroup's concerns about the nitrogen par values (DO improvement/ load removed) for management zones 4 and 5. The reason given is that the zones discharge to central LIS which is strongly nitrogen limited. Because it is strongly nitrogen limited reductions in this area have greater algal and DO impacts. The loads entering the eastern or western Sound where there is less of a limitation and more transport out of the basin have a lower par values. Mark Tedesco pointed out that the sum of the management zone components in this area was greater than the base case simulation and that may have some effect on the par values for zones 4& 5. As a result of these discussions HydroQual was asked to provide a proposal for running component runs based on 50% removal in the management zones. These components would be closer to the actual loads being removed than the 100 % removal components used to develop the response matrix.

The group then discussed the SPARROW model input information USGS supplied for the pastoral simulations and compared the input concentrations to current concentrations used in the base run simulation. The did not come to any conclusions but HydroQual promised to look at the information and make recommendations.

Next, Bob Nyman presented a proposed Framework for Assessment of Nutrient Management Options for the New York-New Jersey Harbor Estuary. The work group discussed the frame work the pros and cons of the frame work but came to no conclusion. During these discussions HydroQual proposed four zones to be used in the management zone approach laid out in the frame work and proposed 24 SWEM runs (six scenarios for each zone) that would allow the development of cost response curves. Bob Nyman requested that anyone wishing to submit written comments on the framework do so on within ten days.

The September 10th meeting between NJ, EPA and HydroQual was summarized and discussed. HydroQual presented SWEM enhancement options that were identified at that meeting in terms of level of effort and gave cost estimates and possible outcomes for each level.

Attendees:

Marzooq Al-Ebus

NJDEP

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| Anne Carpenter | NYCSWCD |
| Veronica Craw | PVSC |
| Mick DeGraeve | GLEC |
| John St. John | HydroQual |
| Keith Mahoney | NYCDEP |
| Robin Miller | HydroQual |
| Jagdish V. Mistry | Westchester Co. DEF |
| Brian J Mitchell | IEC |
| Bob Nyman | USEPA-HEP |
| Philip O'Brien | NYSDEC |
| E. Jane Rebhuhn | Great Neck WPCD |
| Paul Stacy | CTDEP |
| Mark Tedesco | EPA-LIS |
| Anthony Tseng | USEPA |
| Anne Witt | NJDEP |