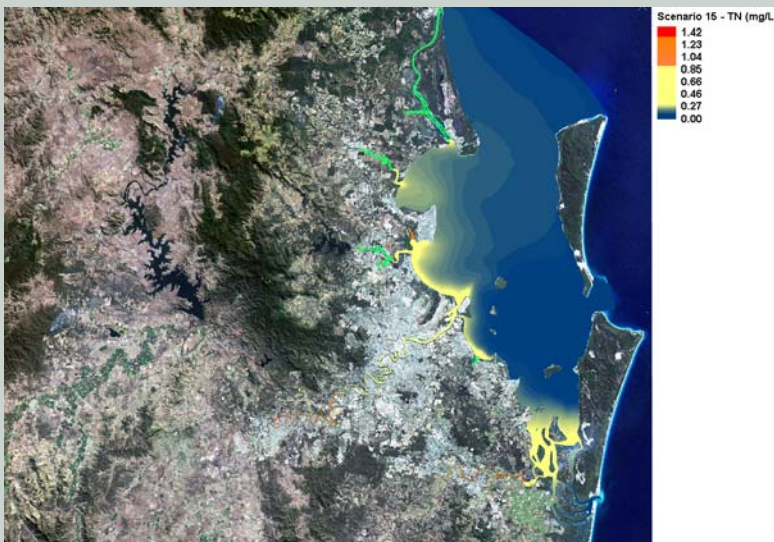


Water Quality Modelling to Support & Inform the SEQ Water Quality Improvement Plan 2006

A Water Quality Improvement Plan (WQIP) was developed for the South East Queensland (SEQ) region under the auspices and supervision of the Moreton Bay Waterways and Catchments Partnership (MBWCP). This plan very much 'set the scene' for what actions will be taken over the next 20-30 years in order to preserve, protect and enhance the significant environmental values of the region. Such actions will include wastewater treatment plant upgrades; urban and rural diffuse load reduction strategies and the determination of appropriate areas for future major land releases.

BMT WBM assisted this process by undertaking the development, calibration and validation of a number of Bay and Estuarine hydrodynamic and receiving water quality models. These models integrated load data from catchment pollutant export models and all relevant point source loads and accurately predicted local water quality levels. A range of scenarios was run to inform and direct the management recommendations of the WQIP.



Example Model Output for Moreton Bay

Client

Moreton Bay Waterways and Catchments Partnership

Date

2004 - 2006

Services & Expertise Provided

Catchment flow and pollutant export modelling;

Development, calibration and validation of hydrodynamic and water quality models of major waterways;

Performance of simulations to inform and support development of the SEQ Water Quality Improvement Plan; and

Awareness raising and model advocacy.