

## 2007 Black Sea Strategic Action Programme – Technical Draft

Proposed management targets to tackle **EcoQO 3: Reduce eutrophication in order to restore the ecological balance within the Black Sea**

Overall target	Short-term target	Mid-term target	Long-term target	Priority
Implement integrated river basin management and integrated coastal zone management approaches as stated in draft LBSA protocol	✓	✓	✓	High
Cost efficiency approach to nutrient management adopted in all BS Countries	✓			Medium
All WWTPs serving populations > 200,000 p.e. within the BS basin upgraded to include N&P removal	✓		✓	Medium
Ensure all tourist resorts are connected to sewerage systems with WWTPs of adequate capacity to address seasonal loads	✓		✓	Medium
Ensure that all industrial plants have adequate wastewater treatment to reduce N&P emissions from direct discharge to coastal waters	✓		✓	Medium
Eliminate the use of high P-containing laundry detergents	✓	✓		High
Introduce P and N standards for all WWTPs serving >100,000 p.e. Ensuring compliance with standards	✓		✓	Medium
Reduce atmospheric emissions of N from municipal, agricultural and industrial sources, though the introduction of BAT, BAP, IPPC principles etc.			✓	High
Harmonise the monitoring and assessment of N & P in major rivers	✓	✓		High
Improve network of atmospheric deposition monitoring stations around the Black Sea coast	✓		✓	Medium
Develop a nutrient modelling tool to enable source apportionment estimates to be made	✓	✓		Medium
Improve the use of regulatory instruments for reducing point and diffuse source pollution from agriculture	✓	✓		High
Where financial resources are available, introduce appropriate economic incentives to reduce nutrient losses from agriculture	✓	✓		High
Develop and expand the capacity of national agricultural extension services for promoting the control of agricultural pollution	✓			High
Promote organic farming and other low input farming systems	✓	✓		Medium
Develop/define BAT for the design and operation of large-scale agro-industrial livestock production units, including pig and poultry farms with no land	✓	✓		High

- Ecological Quality Objectives (EcoQOs) established for each of the 4 environmental problems included in the 2007 Transboundary Diagnostic Analysis (TDA):
  1. Preserve commercial marine living resources (fish and invertebrates) to ensure sustainable reproduction levels of their stocks
  2. Conservation of Black Sea Biodiversity and Habitats
  3. Reduce eutrophication in order to restore the ecological balance within the Black Sea
  4. Improved Environmental Condition to Ensure Good Water Quality for Human Health, Recreational Use and Aquatic Biota
- Four main information sources used for the development of management targets:
  1. 1996 BS SAP
  2. 1996 BS SAP Regional Gap Analysis (2007)
  3. 2007 TDA
  4. Consultation with BSC Permanent Secretariat & Advisory Groups
- Causal chain analyses from the 2007 TDA proved particularly useful
- Short-, mid- and long-term targets proposed to successfully achieve each EcoQO

Management targets proposed for fishing sector to tackle EcoQOs 1 and 2



Management targets proposed for all major sources of pollution

### Current status

- The Technical Draft represents a wish list to combat the 4 TDA major transboundary problems
- It takes no account of national environmental budgets
- Regional (Black Sea Commission) costs of implementing proposed targets have been estimated

### Next steps

- Identify national costs to implement each target
- Undertake negotiations to reduce the number of targets and adjust their relative importance within available budgets
- Amend, sign and implement the SAP within National Action Plans

Causal chain analysis for nutrient over-enrichment (2007 TDA)

