Appendix H Logical Frame Matrix – Project Tranche 2 (Objectives, Outputs, Activities, and Outcomes)

Objectives/Purpose	Objectively Verifiable Indicators	Sources of Verification	Assumptions (A) and Risks (R)
1. Long-term development Objective: The long-term development objective of the proposed Black Sea Recovery Project is to contribute to sustainable human development in the Black Sea area through reinforcing the cooperation and the capacities of the Black Sea countries to take effective measures in reducing nutrients and other hazardous substances to such levels necessary to permit Black Sea ecosystems to recover to similar conditions as those observed in the 1960s.	Overall Project Objective: All Black Sea countries have taken concrete measures (including investment activities) in the eutrophication causing sectors to avoid that discharge of nitrogen and phosphorus (and hazardous substances) to the Black Sea exceed those levels as observed in 1997. The major findings and recommendations of the project have been incorporated in national policies, strategies and, where possible, in national legislation. This will lead to the improvement of the Black Sea ecosystem by decreasing of loads of nutrients and hazardous substances.	 5-year State of the Environment Reports, with a revised TDA as an annex, of the BSC as from 2004 onwards; Reports of Danube - Black Sea Joint Technical Working Group, available in 2004 and subsequent years. Indicator based State of Environment Report (2007) shows the reduction of nutrient and hazardous substances load ultimately reaching the levels not exceeding those observed in 1997, 	 R Low priority for environmental issues; R Unfavourable conditions in countries with transitional economies; R Political instability in the region; A The Black Sea countries will create favourable conditions for investment activities to mitigate nutrient emissions/discharges and pollution by hazardous substances,
2. Overall Objective: The overall objective of the Black Sea Recovery Project is to support participating countries in the development of national policies and legislation and the definition and implementation of priority actions to avoid that discharge of nitrogen and phosphorus to the Black Sea exceed those levels as observed in 1997. This will require countries to adopt strategies and measures that permit economic development whilst ensuring the rehabilitation of coastal and marine ecosystems through pollution control and reduction of nutrients and hazardous substances.	Objective 1: At the end of the Project Tranche II, the institutional mechanism of the Black Sea Commission are reinforced and fully operational ensuring cooperation between all Black Sea countries to efficiently implement joint policies and actions and operate common management and control mechanisms;	 Annual report of the BSC Secretariat; Organisation al and operational chart of the BSC Progress reports from Activity Centres and Advisory Groups. 	A All Contracting Parties provide financial contributions in time and support national and regional bodies cooperating under the BSC;

Objectives/Purpose	Objectively Verifiable Indicators	Sources of Verification	Assumptions (A) and Risks (R)
Specific Objective of Tranche II: To reinforce regional cooperation under the Black Sea Convention, to set up institutional and legal instruments and define the priority actions according to the BSSAP at regional and national levels to assure sustainable coastal zone management, the protection of coastal and marine ecosystems and habitats in order to secure sustainable use of coastal and marine resources. To do this, the project will build up on the results of Tranche I. 3. Purpose of the Project: To support and reinforce the structures and the activities of the Black Sea Commission as well as to reinforce at the national level the	Objective 2: Policies and legal and institutional instruments in all Black Sea countries are revised and reinforced to assure sustainable coastal zone and marine resource management while reducing nutrients and hazardous substances though the application and translation into concrete actions of revised policies and legislation in the agricultural, industrial, transport and municipal sectors.	 Revised Protocol for Land-based Activities adopted by BSC; Revised national policies and measures for compliance in the agricultural, industrial, transport and municipal sectors and introduction of BAP and BAT for reduction of nutrients and hazardous substances; Progress reports on implementation of Pilot Projects for ICZM; Revised Fisheries Protocol adopted by BSC and ratified by 2006; Resolution from BSC adopting the document on fisheries-free zones and marine protected areas as Annex to the Protocols of the Bucharest Convention; 	 A LBA Protocol recognised as a useful political tool; A Sufficient national support for implementation of pilot projects for ICZM provided; A Political commitment existing and financial means sufficient to revise and apply legislation; R Missing control and competition between fishermen leading to violation of fishing regulations and of fisheries-free zones.
development of legal and institutional instruments and investment programmes for pollution control, rehabilitation and sustainable management of coastal and marine ecosystems in providing a framework for coordination, dissemination and replication of successful measures for coastal zone management, protection of habitats and marine ecosystems and sustainable exploitation of resources.	Objective 3: Economic analysis in taking into account the principles of EU WFD guidelines is carried out in all Black Sea countries and most cost-effective measures for pollution control and water use are identified and control systems (incl. pollution charges, fines and incentives) are developed and accepted at the national level in the Black Sea counties.	 Summary report on socio-economic analysis in all Black Sea countries including evaluation of cost recovery mechanisms for water services; Effective system for socially acceptable pollution charges, fines and incentives proposed for all Black sea countries; DABLAS PPC donor conference organised and financial support for 1/3 of prioritised investment projects for municipal, industrial and transport sector obtained. 	 A Reports from DRP for BG, RO and UA available in time; A Cooperation from national level and provision of data and information assured; A Commitment of IFIs incl. GEF-WB and bilateral donors to support the implementations of investment projects with grants and soft loans.

Objectives/Purpose	Objectively Verifiable Indicators	Sources of Verification	Assumptions (A) and Risks (R)
	Objective 4: Institutional and organisational mechanisms for transboundary cooperation in water quality monitoring and information management including GIS are established and fully operational at the regional and national level by 2006 to assess water quality and nutrient reduction to the Black Sea; at the same time, results from scientific research on nutrient reduction and eutrophication are available to enhance reporting on the status of the Black Sea.	 Periodical reports on Black Sea status based on data and information provided by Black Sea Monitoring and Assessment Programme (BSIMAP) available to the public as a part of the BSC State of Environment Report; Results of Black Sea surveys and other scientific research projects taken into account to specify indicators for the Black Sea Monitoring Programme; Web site of Black Sea Information System including GIS and data bank user friendly designed (2005) and fully used by all Black Sea countries; 	 A Timely supply of reliable data from all national monitoring stations; A Support provided and Permissions granted by the countries in time to organise Black Sea surveys; A Support from all Black Sea countries to establish national information units linked to the Black Sea Information System;
	Objective 5: The civil society and in particular national NGOs in all Black Sea countries are at the end of the Project informed and proactively participating in national programmes for nutrient reduction, coastal zone management and protection of coastal and marine ecosystems.	 NGOs are trained and are participating as from 2005 onwards in pilot projects for coastal zone management; Environmental education is introduced as part of pilot programme in selected schools; The GEF Small Grants Programme is fully implemented in 2007 with at least 70% of all projects with sustainable results; Waste/litter disposal on beaches and shores is reduced through environmental awareness campaigns. 	 R Insufficient technical competence of NGOs; R Governments reluctance to work with NGOs; R Missing cooperation between NGOs; R "Umbrella" NGOs have not sufficient capacities to mobilize sufficient own financial resources.

Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 1.1: Operational structures and management tools of the Black Sea Commission further developed and functioning.	 BS Project Steering Committee continues its operation and meets on a regular basis to follow- up and evaluate BSERP performance; National Coordinating Mechanisms reinforced or set by 2005 in all BS countries; TDA is reviewed by 2005 end and attached as an annex to the State of Environment Report (due in 2007); BSSAP is reviewed by mid 2006. National SAPs are produced by national governments in-line with the revised BSSAP by 2006 end. Advisory Groups operational through logistic support from BSERP (continuous); Work programme of D-BS JTWG fully implemented in 2006 through joint support from BSERP and DRP; Contacts established with the GEF UNDP Dnipro Regional Project, 	 Progress reports of the Steering Committee; Final evaluation report on establishment of inter-ministerial coordinating mechanisms in all Black Sea countries; An annex containing the TDA will appear in the SoE report of the BSC in 2007; Minutes of the BSC Meeting approving the revised BSSAP The national documents containing approval of national SAPs; Expenditures on activities supporting the Permanent Secretariat; Annual Progress reports of the D-BS JTWG presented to both Commissions; Modalities of cooperation developed with the GEF/UNDP Dnipro Regional Project. 	 R Insufficient budgetary means of the BSC Secretariat through delayed or omitted payment of contributions and insufficient support from Contracting Parties to the work of national and regional bodies of the BSC; R Governments may rely on informal or not specialized coordinating mechanisms; A Needed information for TDA is provided and accepted by the countries. R Governments are unwilling to provide support/mechanisms for the implementation of national SAPs R Insufficient support from national level to the work of the D-BS JTWG.

Activities:

1.1.1 Continue supporting the BS Project Steering Committee to assure regional cooperation and efficient implementation of project activities,

1.1.2 Assist the Black Sea countries to establish or strengthen national coordinating mechanisms to assure nutrient reduction and sustainable management of coastal and marine ecosystems (for Bulgaria, Romania and Ukraine – cooperation with the GEF Danube Regional Project),

- 1.1.3 Renew the Trans-boundary Diagnostic Analysis on the basis of the activities initiated in Tranche 1,
- 1.1.4 Review and update the Black Sea Strategic Action Plan (BSSAP)
- 1.1.5 Provide logistic support to the Black Sea Commission, its Permanent Secretariat and the Advisory Groups (co-ordinated by Regional Activity Centres) to facilitate implementation of the Black Sea Strategic Action Plan (BSSAP) and the project activities,
- 1.1.6 Support the work of the Danube Black Sea Joint Working Group, to assure efficient implementation of the MoU and of the related Joint Work Program (Black Sea indicators to demonstrate changes over time in Black Sea ecosystems),
- 1.1.7 Support the cooperation with the GEF UNDP Dnipro Regional Project.

DutputsObjectively Verifiable Indicators / ResultsSources of VerificationAssumptions (A) and Risks (R)					
<u>Output 1.1:</u>					
Operational s	tructures and managemen	t tools of the Black Sea Commission fur	ther developed and functioning.		
Outcomes:					
	e closely linked to the rea	l needs of the riparian countries in the	implementation of the Bucharest Convention	through timely interventions of the Project	
Steering Committee est	tablished in Tranche 1				
2. Nutrient reduction st	trategies and sustainable	management of the marine ecosystems	in the counties are strengthened by effective	national coordination (inter-ministerial)	
mechanisms. Inter-Min	isterial Coordinating Me	chanisms are functioning in at least 2 I		d follow up national policies, legislation and	
nechanisms. Inter-Min projects for nutrient rec	nisterial Coordinating Me duction and pollution con	chanisms are functioning in at least 2 I trol.	Black Sea in order to develop, implement and	d follow up national policies, legislation and	
mechanisms. Inter-Min projects for nutrient rec 3. Revised TDA becom	nisterial Coordinating Me duction and pollution con nes the basis of developm	chanisms are functioning in at least 2 I attrol. aent of regional and national strategies	Black Sea in order to develop, implement and for reduction of nutrients and hazardous subs	d follow up national policies, legislation and stance until 2010,	
mechanisms. Inter-Min projects for nutrient rec 3. Revised TDA becom 4, Regional and Nation	nisterial Coordinating Me duction and pollution con nes the basis of developm	chanisms are functioning in at least 2 I attrol. aent of regional and national strategies	Black Sea in order to develop, implement and for reduction of nutrients and hazardous subs	d follow up national policies, legislation and	
mechanisms. Inter-Min projects for nutrient rec 3. Revised TDA becom 4, Regional and Nation a whole.	histerial Coordinating Me duction and pollution com- nes the basis of developm al SAPs provide for a co	chanisms are functioning in at least 2 I attrol. aent of regional and national strategies herent logistical implementation of the	Black Sea in order to develop, implement and for reduction of nutrients and hazardous subs management of nutrients and hazardous subs	d follow up national policies, legislation and stance until 2010, stance in riparian countries and the Black Sea a	
mechanisms. Inter-Min projects for nutrient rec 3. Revised TDA becom 4, Regional and Nation a whole. 5. Ability of 6 riparian	histerial Coordinating Me duction and pollution com- nes the basis of developm al SAPs provide for a co	chanisms are functioning in at least 2 I attrol. aent of regional and national strategies herent logistical implementation of the	Black Sea in order to develop, implement and for reduction of nutrients and hazardous subs	d follow up national policies, legislation and stance until 2010, stance in riparian countries and the Black Sea a	
mechanisms. Inter-Min projects for nutrient rec 3. Revised TDA becom 4, Regional and Nation a whole. 5. Ability of 6 riparian Permanent Secretariat.	histerial Coordinating Me duction and pollution com- nes the basis of developm al SAPs provide for a co- countries to jointly mana	chanisms are functioning in at least 2 I atrol. hent of regional and national strategies herent logistical implementation of the age the resources of the Black Sea throu	Black Sea in order to develop, implement and for reduction of nutrients and hazardous subs management of nutrients and hazardous subs igh measures to protect the marine ecosystem	d follow up national policies, legislation and stance until 2010, stance in riparian countries and the Black Sea a	

Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 1.2: Black Sea <u>Project</u> <u>Implementation Unit</u> of the BSERP (BSERP-PIU) fully operational for implementing Tranche II of the Project.	 Legal and institutional instruments for control of the nutrient and hazardous substances input to the Black Sea from agricultural and municipal sectors in all BS countries improved. Monitoring and coordinating mechanisms of the BSC fully operational by end 2006; Project Support Structures established in the countries and operational starting mid-2004. Activities between BSERP and DRP fully coordinated and jointly implemented where appropriate (continuous); Information exchange with other BS environmental projects and Agencies established and implementation of activities coordinated (continuous); Specific indicators (e.g. process indicators) to demonstrate efficient implementation of project activities applied in GEF project evaluation as from mid 2005 onwards; 	 Progress reports of the BSERP Steering Group; Progress reports in line with reporting requirements of the BSERP; Periodic activity reports from Project Support Structures; Agreements with DRP on joint project implementation and respective progress reports; GEF Project evaluation report using specific indicators developed; 	 R Insufficient support from Governments for project implementation due to political or financial constraints and insufficient human capacities; R Inadequate adaptation of project objectives and activities to national conditions; R Inadequate performance of sub-contractors and/or international consultants; R Inadequate professional performance of national consultants proposed by Government and/or no access to information; A Countries provide premises and logistical support to the Project Support Structure.
1	nentation of the UNDP-GEF Black Sea Recovery Project (BS	ERP) with the aim to reinforce and	support the activities of the Black Sea
support to the work of i	berate the Project Support Structure at national level to facilita nternational consultants, to supervise activities of national co with the DRP and the UNDP/GEF Dnepr Project to efficiently	nsultants and to facilitate gathering	of information at the national level,
1.2.4 Reinforce cooperation v	with other projects of technical assistance operating in the Bla , EU EuropeAid projects, etc.),	ack Sea region to assure coordination	on and complementary of measures (e.g. W.B.
	ors for project evaluation with particular attention to process	indicators for GEE project evaluati	02

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones			
Outputs Objectively Verifiable Indicators / Results S	Sources of Verification	Assumptions (A) and Risks (R)	
Protocol for Land-based for national negotiation by the end 2004.	 Resolution of the BSC Meeting on approval of LBA Protocol; Report from Contracting Parties on results of national negotiation. 	A Cooperation of all Contracting assured for approval in BSC and in following national negotiation (taking into account that accession countries adopt national legislation in line with EU requirements).	

Activities:

2.1.1 Finalise the revision of the LBA Protocol (follow-up activity from Tranche I) and submit to the BSC for approval,

2.1.2 Facilitating the process for national negotiation.

Outcomes:

1. Revised Protocol becomes a legally binding management document in 2005 used in the activities of the BSC and riparian countries in-line with the EU requirements.

	nent of Policy Guidelines, Legal and Institutional Instruments for ts Coastal Zones	Pollution Reduction from LBA, and P	rotection of Ecosystems of the Black Sea
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 2.2: Strengthen Integrated Coastal Zone Management in line with EU Directives and promotion of Best Practices for ICZM as developed by BSC/TACIS, to assure reduction of nutrients and hazardous substances from coastal areas into the Black Sea.	 Concepts and guidelines for coastal zone management reviewed by the end 2004 and concepts for national strategies developed for inclusion in the planning at the local level in all riparian countries; Outline and work program for Pilot Project for testing of ICZM concept developed by end-2004 and project successfully implemented by end-2006; final evaluation report available by March 2007; Preparation of a pilot project for marine protected area is Finalised by Dec 2004 and implementation successfully started demonstrating new concepts for the marine protection; Preparation of a pilot project for restoration and management of wetlands is Finalised by Dec 2004 and implementation successfully started demonstrating new concepts for wetland management; ICZM National Focal Points of the BSC are strengthened and supported throughout the Tranche II in all Black Sea countries. 	 Reviewed concept paper and guidelines for coastal zone management; Project outline and work program for ICZM Pilot Project; Progress reports on implementation of ICZM Pilot Project; Project outline and progress reports on restoration and management of wetlands; Progress reports on implementation of pilot project for marine protected areas; Reports of the Advisory Group on ICZM to the Black Sea Commission. 	 A All Black Sea countries will cooperate in adopting and introducing concept of ICZM; R Insufficient support from Government and local administration for implementation of Pilot Projects on ICZM, wetlands restoration and protection of marine ecosystems; R Insufficient interest and support from private stakeholders and NGOs to cooperate in the implementation of Pilot Projects; R Insufficient engagement (financial and human capacity constraints) from national and local Government to support activities of ICZM Centres.
 principal objectives 2.2.2 Develop pilot project 2.2.3 Conceptualise, design capacities (in association 2.2.4 Conceptualise, design 2.2.5 Strengthening of the 	concept and guidelines for coastal zone management (developed by TA of the EU WFD and other existing and emerging EU Directives for m et for testing concept and guidelines for ICZM as developed by BSC/T of and assist in implementing pilot project for restoration and manager ation with the WB project ²³ in Bulgaria); of and assist in implementing pilot project for marine protected areas (ICZM National Focal Points of the BSC to implement recommendati stal wetlands and transitional waters and support efficient management	anagement of marine ecosystems; ACIS, nent of wetlands and transitional waters e.g. Vama -Veche, in Bulgarian-Roman ons and guidelines prepared by pilot pro-	with the aim to enhance nutrient absorption ian trans-boundary zone); jects for coastal zone management and for

²³ The World Bank financed project on the wetlands is coordinated by the Ministry of Environment and Water in Bulgaria.

Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)			
Dutput 2.2:						
	Coastal Zone Management in line with EU Directives an	d in testing concept for Best Practices for ICZM as	s developed by BSC/TACIS, to assure reduction of			
	is substances from coastal areas into the Black Sea.					
Outcomes:						
The concepts and as	uidelines for ICZM are incorporated in the national strate					
	eveloped For Testing Concept And Guidelines For ICZN		implemented within the life-time of the project.			
2. A Pilot Project Is D	 A Pilot Project Is Developed For Testing Concept And Guidelines For ICZM As Developed By BSC/TACIS by mid-2005 and implemented within the life-time of the project. The capacity of the BSC to coordinate the ICZM planning process is strengthened through tools and mechanisms developed. 					
 A Pilot Project Is D The capacity of the 	BSC to coordinate the ICZM planning process is strength					
2. A Pilot Project Is De 3. The capacity of the 4. National FPs are tra	BSC to coordinate the ICZM planning process is strength ined to provide relevant information and indicator-based		Black Sea counties, which will contribute to the			
2. A Pilot Project Is De 3. The capacity of the 4. National FPs are tra	BSC to coordinate the ICZM planning process is strength		Black Sea counties, which will contribute to the			

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones			
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 2.3: Agricultural sector policy reviewed and concepts of BAP proposed for application at national level to assure reduction of nutrients and other hazardous substances from agricultural point and non point sources or pollution in coastal areas of the Black Sea.	 Emission Inventory for pollution from agriculture prepared for BG and RO by end 2004 (in cooperation with the DRP), for UA, RU, GE and TR by mid 2005; Report on agricultural policy review and programs for BAP for RU, GE and TR available by end 2005 based on common methodology developed by DRP; Inventory on important agrochemicals for RU, GE and TR available by end 2005, based on common methodology developed by DRP; Concepts for introduction of BAP for RU, GE and TR available by end 2005 based on common methodology developed by DRP; Concepts for introduction of BAP for RU, GE and TR available by end 2005 based on common methodology developed by DRP; identification of appropriate policy, legal and institutional country specific reforms and preparation for adoption into national policies. Practical application at least in coastal zones expected by end 2006; Concepts for nutrient reduction accepted and application of BAP by Government and stakeholders (farmers associations, NGOs) in the countries through information and training workshops in 2005. 	 Emission Inventory for agricultural point and non point sources of pollution; Report on agricultural policy review; Inventory on important agrochemicals; Evaluation report on adoption and application of BAT by the Governmental agencies and farmers at national level in 6 Black Sea countries. 	 A Cooperation of Governments in providing necessary information and data assured; A Cooperation with the DRP assured for activities in BG, RO and UA, extension of activities in RU, GE, and TR; A Preparedness of Government and local administration to revise agricultural policies and to introduce BAP though national extension services (limited financial means and human capacities); R Taking into account special know-how, financial and marketing considerations farmers might not adopt BAP without subsidies.
Activities: 2.3.1 Establish Coastal Zone /	Agricultural Emission Inventory (CAEI) on agricultural point and no	n point sources of pollution, taking into	account emissions of nutrients and

2.3.1 Establish Coastal Zone Agricultural Emission Inventory (CAEI) on agricultural point and non point sources of pollution, taking into account emissions of nutrients and hazardous substances in the coastal zones of the Black Sea;

2.3.2 Review relevant agricultural policies, legal instruments and their actual state of enforcement, and identify existing programs for promotion of Best Agricultural Practices (BAP) in Black Sea countries; identification of appropriate policy, legal and institutional country specific reforms related to nutrient management and the implementation of BAP.

2.3.3 Undertake an inventory on important agrochemicals in terms of national production, import and their use (mode of application, misuse and its root causes, environmental impact) and potential for reduction;

2.3.4 Prepare or, where existing, further develop mechanisms for introduction of Best Agricultural Practices in all Black sea countries, taking into account country specific institutional, administrative and economic issues (e.g. incentives);

2.3.5 Organise workshops to disseminate information about best agricultural practices with participants from relevant ministries (e.g. outreach staff from agricultural ministries), agricultural associations (farmers' associations), financing institutions and international agencies (EC, UNDP, WB, bilateral donors, etc) on modalities for introduction of BAPs in Black Sea countries with particular attention to agriculture in coastal zones (Cooperation with GEF DRP in organising workshops in Bulgaria, Romania and Ukraine).

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones Outputs Sources of Verification **Objectively Verifiable Indicators / Results** Assumptions (A) and Risks (R) Output 2.3: Agricultural sector policy reviewed and concepts of BAP proposed for application at national level to assure reduction of nutrients and other hazardous substances from agricultural point and non point sources or pollution in coastal areas of the Black Sea. **Outcomes:** 1. The integration of water quality objectives related to agriculture nutrient pollution (i,e, N and P) into agriculture policies increased in 6 Black Sea countries. 2. New agricultural policies for controlling non-point sources of pollution from agriculture accepted by policy makers based on broadly disseminated nation-specific BAP concepts. 3. Identification of country-specific policy, legal and institutional reforms essential for nutrient reduction and the implementation of BAP in all riparian Black Sea countries and preparation for integration of measures into national policies; 4. Agricultural emission/load inventory will contribute to the updating/identifying of key areas for both pollution and biodiversity/sensitive areas as a part of TDA and SAP 5. BAP accepted by farmers in the field in the Black Sea riparian countries; appropriate application of country-specific measures demonstrated in coastal zones of each riparian country by 2006 end;. 6. 50 farmers in each riparian coastal region aware of and applying best agricultural practices by 2007.

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones			
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)

	OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones				
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)		
Output 2.4: Policies and legislation for application of BAT in the industrial and transport sectors reviewed and proposed for national adoption to assure reduction of nutrients (N and P) and dangerous substances, and adopted (at least in coastal zones by 2006)	 Industrial Emission Inventory prepared for coastal zone of all BS countries by the end 2004; Industrial and transport emission related "hot spots" for all BS countries in coastal zone identified and impact evaluated by mid 2005; Analytical report on industrial production involving N and P and hazardous substances in coastal areas of the BS finalised by end 2005; Analytical report on policies and legal and institutional instruments to control industrial pollution with focus on dangerous substances for RU, GE and TR available by end 2005 (BG, RO, and UA under DRP); identification of appropriate policy, legal and institutional country specific reforms related specifically to the management of nutrients and hazardous substances; identification of relevant BAT for management of industrial pollutants entering the Black Sea; Concepts for introduction of BAT for industrial and transport sector for RU, GE and TR available by mid 2005; Adoption of BAT in national policy and practical application at least in coastal zones expected by end 2006; Concepts for reduction of nutrients and dangerous substances and for application of BAT are known and accepted by Government officials and stakeholders (industrial and transport firms, NGOs) in RU, GE and TR through information and training workshops organised in 2005. 	 Report on emission inventory and hot spot analysis; Study on industrial sources and uses of N and P; Report on industrial policies and regulations for emissions and storage of waste; Concept paper for policy change and introduction of BAT; Evaluation report on introduction of BAT in the industrial sector in Black Sea countries; Workshop(s) documents. 	 A Cooperation of Governments and industrial private sector in providing necessary information and data; A Preparedness of Government and local administration to revise industrial emission standards and to introduce BAT though national advisory services for cleaner industrial technologies (limited financial means and human capacities); A Cooperation is established with the GEF DRP for Bulgaria, Romania and Ukraine; BSERP other BS countries. A Preparedness of public and private industrial sector to adopt BAT (technological know-how and financial considerations); 		

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones					
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)		
Activities:					
	2.4.1 Establish Coastal Zone Industrial Emission Inventory (CIEI) on industrial and transport (e.g. harbours) activities, taking into account emissions of nutrients and toxic substances in the coastal zones of the Black Sea;				
2.4.2 Develop criteria and revise industrial and transport related "hot spots" having a significant impact on coastal waters (recreation resorts, fish spawning areas, etc.); define Significant Impact Areas (SIA) of pollution from industrial and transport activities (analyze cause-effect relationship);					
 2.4.3 Review policies and relevant existing legislation for industrial pollution control and identify enforcement mechanisms at national level; identification of appropriate policy, legal and institutional reforms related to nutrient management and their implementation according to BAT in each of the Black Sea. Riparian countries; 					
2.4.4 Develop appropriate me	chanisms for step-by-step introduction of BAT, taking into account regu	latory and legal issues, awareness ra	aising, fines, economic incentives, etc.;		
	 2.4.4 Develop appropriate mechanisms for step-by-step introduction of BAT, taking into account regulatory and legal issues, awareness raising, fines, economic incentives, etc.; 2.4.5 Facilitate/ establish networking amongst technical and economic experts and decision makers to exchange information and to promote innovative and environment friendly technologies for reduction of nutrients and hazardous substances (see also Output 4.2); 				
	th participants from relevant ministries, industrial and transport manager port for innovative technologies.	s, banking institutions, to discuss me	odalities for introducing BAT, and for		

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones					
Outputs	Objectively Verifiable Indicators / ResultsSources of VerificationAssumptions (A) and Risks (R)				
Output 2.4: Policies and legislation for application of BAT in the industrial and transport sectors reviewed and proposed for national adoption to assure reduction of nutrients (N and P) and dangerous substances, and adopted (at least in coastal zones by 2006)					
framework according to EU I 2. Priorities for pollution redu to management of nutrients a 3. The adoption of BAT by na	tality objectives related to industrial pollution (priority substances ac Directive on Integrated Pollution and Prevention Control enhanced in action in National Action Programmes revised, based on the identifie nd hazardous substances; ational governments and industrialists for the management of industri iteria for "hot-spot" will contribute to the updating/identifying of key	1 6 Black Sea countries. cation of appropriate policy, legal and in rial discharged nutrient and hazardous su	istitutional country specific reforms related ibstance in each of the riparian countries		

OBJECTIVE 2: Development of Policy Guidelines, Legal and Institutional Instruments for Pollution Reduction from LBA, and Protection of Ecosystems of the Black Sea and its Coastal Zones				
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)	
Output 2.5: Policies and legal instruments for pollution reduction for the municipal sector assessed and affordable (cost recovery) technical solutions for municipal wastewater treatment provided for national/local implementation.	 Municipal Emission Inventory prepared for coastal zone of all BS countries by end 2004; Municipal "hot spots" in coastal zone for all BS countries reviewed and impact evaluated by mid 2005; Analytical report on existing legal and institutional instruments to control pollution from urban sources for RU, GE and TR available by end 2005 (based on methodology as applied in Danube countries) and concepts for harmonisation of national laws with EU requirements developed; identification of appropriate policy, legal and institutional reforms related to nutrient management from urban sources in each of the Black Sea. Riparian countries; Mechanisms for compliance with legislation developed and concepts for economic and technical solutions developed for RU, GE and TR by mid 2006 and proposed to Governments for application; Concepts for revision of legislation and practical solutions for municipal wastewater treatment are known and accepted by Government officials and stakeholders (municipalities, waterworks, NGOs) in RU, GE and TR though information and training in workshops organised in 2005. 	 Report on emission inventory and hot spot analysis; Report on existing legal and institutional instruments for pollution control from urban sources and proposed harmonization with EU legislation; Concept paper for introduction of economic and technical solution for compliance with legal requirements in urban wastewater management; Evaluation report on introduction of regulations and appropriate technologies for urban wastewater treatment in Black Sea countries. 	 A Governments, local administration and municipalities cooperate in providing necessary information and data; A ICPDR and EMIS EG provide assistance to develop methodology as applied in Danube countries - Bulgaria, Romania and Ukraine. R Limited financial resources and insufficient technological know how will not allow municipalities to introduce appropriate technologies for urban wastewater collection and treatment. 	
 substances and 2.5.2 Develop criteria (analyze the cau 2.5.3 Review relevan 	wide Coastal Zone Municipal Emission Inventory (CMEI) for agglomerations ov compiling information on existing or planned sewer or collector systems and exis a and identify in the coastal zones municipal "hot spots" having a significant impa- use-effect relationship); t existing legal and institutional mechanisms for pollution control from urban sou the EU Urban Wastewater Directive; identify appropriate policy, legal and instit	act on coastal waters, in particular recreation rces and propose measures for harmonizin	es of the Black Sea; on resorts, fish spawning areas, etc. g national legislation with the	
2.5.4 Review measure2.5.5 Organise works introduce afford	Riparian countries; es for compliance with national legislation and propose economic (incentives, fin hops in Black Sea countries with participants from relevant ministries, municipal lable technical solutions for municipal wastewater management.			
 Effective mechanism updating/identifying of Identification of apprintegration of specified Representatives from 	ted for national/local policy options to improve collection of water and wastewater as for identifying "hot-spots" based on the internationally accepted criteria, includ key hot-spots for both pollution and biodiversity/sensitive areas as a part of TDA copriate policy, legal and institutional reforms related to nutrient management from reforms into national legislation. relevant ministries, municipalities and local Government are trained in approach wastewater management.	ling the EU WFD, are developed by 2005 of and SAP. m urban sources in each of the Black Sea.	end. This will contribute to the Riparian countries and the	

OBJECTIVE 2:	Development of Policy Guidelines, Legal and Institutional Instrum and its Coastal Zones	nents for Pollution Reduction from LBA, and H	Protection of Ecosystems of the Black Sea
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 2.6 ²⁴ : <u>The Convention or</u> <u>Responsible</u> fisher finalised and propo fisheries-free zone developed, Prepara activities on transb fish stock assessme completed.	 reported and taken into account in the document Report on study on sensitive habitats and nursery grounds with recommendations for the establishment of fisheries-free zones and marine protected areas 	 Report with recommendations for the establishment of fisheries-free zones and marine protected areas; Resolution of the BSC meeting on the prepared Annexes on fisheries-free zones and marine protected areas; Resolution of the BSC meeting on the Concept paper on assessment of migrating fish population and nursery grounds Information materials on sustainable fishing practices and fisheries-free zones. A fishery free zone related section in the draft Fisheries Convention 	 A National negotiation process successful to develop legally binding document on Fisheries; A BSC reaches agreement in time on Annex for the establishment of fisheries free zones and marine protected areas; A Cooperation with GFCM and FAO assured to provide advice in migratory stock assessment; R Financial resources and technical cooperation not available to carry out full-scale stock assessment. R Ukraine is unable at the present stage to commit to further international conventions (by Decree)
Activities:			
	Black Sea Commission in developing a legally binding document on		
	tline and carry out study on sensitive habitats and nursery grounds as reas in the Black Sea with particular focus on the NW Shelf;	nd prepare recommendations for the establishmer	nt of fisheries-free zones and marine
	e preparation of annexes on fisheries-free zones and marine protected harest Convention;	areas to be introduced in the Protocol on Protec	tion of Biological and Landscape Diversity
	oncept paper and methodology to reinforce the implementation of the of fish species and their relationship with sensitive habitats and curr		5.1 for the assessment of migratory
	d implement training and information seminars for the fishermen con	• •	stainable exploitation of fish resources in the

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Working Plan to monitor observance of the fisheries-free zones, 2.6.6

²⁴ To carry out activities for Output 2.6, contacts shall be established with the General Fisheries Council for the Mediterranean (GFCM) and FAO to provide advice and to participate in relevant meetings and workshops.

Outputs	Objectively Verifiable	Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 2.6 ²⁵ :				
	ment on fisheries and proposals t	for fisheries-free zones developed	as well as preparatory activities on trai	nsboundary fish stock assessment completed.
rieguny omanig doe	inent on fisheries and proposals i	for fisheries free zones developed,	us went us preparatory derivities on that	isobuluary fish stock assessment completed.
<u>Dutcomes:</u>		Mara a sa sa s a sa		
		inalised and presented to riparian		
			and in the Rigels See are acconted by th	
		free zones and marine protected ar	eas in the black sea are accepted by th	e BSC and riparian countries and a working plan is
mplemented in nation	al strategies.	-		
implemented in nation	al strategies.	-		exploitation of stocks in-line with national strategie
mplemented in nation	al strategies.	-		
mplemented in nation	al strategies.	-		
implemented in nation	al strategies.	-		
implemented in nation	al strategies.	-		

²⁵ To carry out activities for Output 2.6, contacts shall be established with the General Fisheries Council for the Mediterranean (GFCM) and FAO to provide advice and to participate in relevant meetings and workshops.

Outputs	ent of economic instruments and promotion of investment op stems Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)		
Output 3.1 Overall <u>economic analysis</u> carried out to derive a set of socio-economic (performance) indicators linked to cost-effective measures in respect to reduction of nutrients and hazardous substances	 Guidelines and templates for socio-economic analysis prepared by end 2004 in line with existing methodologies²⁶; First national reports on socio-economic analysis available by mid-2005; Consultation and information workshops organised end 2005 to amend and endorse national reports; Second draft of national reports available after workshop; Summary report on socio economic analysis, focusing on coastal zones, including programme of measures for agriculture, industry and urban sectors with cost estimation and selection of most cost-effective solutions available by beginning 2006 and endorsed by BSC Expert Group; 	 Guidelines and templates for socio- economic analysis; National reports on socio-economic analysis on the current status of water supply/wastewater legislation; Summary report on socio economic analysis for costal zones of BS countries including programme of measures with cost estimation and selection of most cost-effective solutions. 	 A Cooperation of Governments, in providing necessary information and data; A Preparedness of the Governments and local administrations to implement proposed programme of measures (limited financial means and human capacities); A Required information is accessible for international and national experts deployed by the project. 		
Activities:		I	1		
	nd templates for the socio-economic analysis for Black Sea coun n building on results from Tranche I on root cause analysis of env		ch developed for economic analysis under		
3.1.2 Carry our socio-eco	Carry our socio-economic analysis at national level and identify significant deficiencies regarding water supply and wastewater legislation, including water pollution harges, fines and incentives);				
3.1.3 Organise consultation water services;	on and information meeting with Government officials, national c	onsultants and other holders of information	to explore possibilities for cost recovery for		
3.1.4 Summarise results of	f socio-economic analysis at national level and evaluate the mech	nanisms for cost recovery for water services	in line with EU WFD guidelines;		
	port on socio-economic situation in Black Sea coastal countries a ts and hazardous substances ²⁷ .	nd make judgment about the most cost-effe	ctive combination of measures in respect to		

²⁶ Most activities for Bulgaria, Romania and Ukraine accomplished in Phase I of the GEF DRP; same methodology can be applied by the BSERP for Georgia, Russia and Turkey. ²⁷ This activity can only be carried out when Outputs 2.3, 2.4 and 2.5 as well as 3.2 are available.

of nutrients and hazardous substances,	puts	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)		
	Overall economic analysis for the Black Sea countries carried out to derive a set of socio-economic (performance) indicators linked to cost-effective measures in respect to reduction					
. Socio-economic (performance) indicators linked to cost-effective measures in respect to reduction of nutrients and hazardous substances by mid-2005.	Outcomes:					
	ocio-economic (perforr	nance) indicators linked to cost-effective measures in resp	pect to reduction of nutrients and hazardous subs	tances by mid-2005.		
	ocio-economic (perforr	nance) indicators linked to cost-effective measures in resp	pect to reduction of nutrients and hazardous subs	tances by mid-2005.		
	ocio-economic (perfori	nance) indicators linked to cost-effective measures in resp	pect to reduction of nutrients and hazardous subs	tances by mid-2005.		

OBJECTIVE 3: Development of economic instruments and promotion of investment opportunities in coastal zones for pollution control and protection of Black Sea ecosystems				
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)	
Output 3.2: Investment programme for industrial and municipal wastewater treatment and other infrastructural measures in Black Sea coastal zones submitted to IFIs.	 – 2. Investment programmes developed in line with templates set up for DABLAS data base (ICPDR) by mid 2005 for municipal, industrial and other infrastructural projects for all Black Sea countries (coastal zones) and priorities identified; Potential of local and/or regional financing institutions or intermediaries in RU, GE and TR are actively engaged by mid 2005; Pilot projects related to Public Private Partnerships in RU, GE and TR for agricultural, industrial or municipal sectors are developed by mid 2005 (implementation of the pilot projects is envisaged within a new GEF regional initiative); A Donor Conference for Black Sea coastal zones organised in 2005 in one of the Black Sea countries jointly with the IFIs.(i.e. EBRD/WB/EIB) 	 Programme with investment projects for the municipal, industrial and transport sectors available in database for consultation and defining of priorities according to chosen indicators; Report and listing of regional and local banking institutions having capacities to function as intermediaries for project financing; Report on the Donor Conference. 	 R Necessary information and data might not be obtained from central an local Governments and public and private banking sector R Uncertain legal conditions and administrative stumbling block discourage foreign investors to enter private-public partnerships; A Cooperation of risk friendly financing institutions and donors to support implementation of investment projects²⁸; 	
Activities: 3.2.1 Prepare investment pros	grammes for municipal, industrial and other infrastructural project	cts in coastal zones of the Black Sea to redu	ce nutrients and hazardous substances	
	ers and coastal ecosystems (in line with guidelines established by			
3.2.2 Prioritise investment proprioritisation methodolo	pjects at national and regional level in taking into account enviro gy;	nmental, economic and financial (bankabili	ty) considerations in applying DABLAS	
	f the local and/or regional financial intermediaries (e.g. Black Se Black Sea coastal zone;	ea Regional Development Bank) as a means	of channelling funds to small/medium sized	
	for public-private partnership for investment projects in the Black mental friendly industrial production, e.g. production of phospha			
	n with DABLAS PPC donor conference (IFI and bilateral donors other infrastructural measures to protect coastal waters and ecosy		ementation of industrial pollution reduction,	

 $^{^{28}}$ Activities to be carried out in line with the DABLAS-PPC requirements.

Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)	
Output 3.2:				
	industrial and municipal wastewater treatment and other inf	rastructural measures in Black Sea coastal zo	ones prepared for submission to international	
funding agencies.				
0.0				
Outcomes:				
	prepared in line with templates set up for DABLAS data bas	se (ICPDR) by mid 2005 for municipal indu	strial and other infrastructural projects for all	
	al zones) and priorities identified	se (ref DR) by find 2005 for municipal, find	istitut and other initiastructural projects for an	
	Black Sea coastal zones organised in 2005 in one of the Bla	ick Sea countries presenting at least 20 small	to medium sized priority projects for donor	
support.				
3. Involvement of interaction between the private sector and GEF is further developed in the Black Sea countries (in-line with evolving GEF strategy).				
			8 - 8,7	

OBJECTIVE 4: Developm	nent of operational systems for monitoring, information management and	l research under the Black Sea Conve	ention
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 4.1: Black Sea Integrated Monitoring and Assessment Programme (BSIMAP) functioning/ operational for coastal zones and marine ecosystems in creating and introducing operational tools and indicators to evaluate changes over time in the coastal and marine environment.	 - 2. Black Sea Monitoring Programme based on relevant chemical and biological indicators, fully operational by mid 2005 with full cooperation of national institutions (laboratories) taking into account EU requirements for marine and costal zone monitoring and applying QA/QC procedures; - 4. Monitoring institutions in all BS countries operational, handbook for operation of BSIMAP prepared, staff trained as needed and basic equipment (where necessary) supplied by mid 2005; Pilot project to test monitoring program set up by mid 2005, running test program up to end 2006; Laboratory technicians are familiar with application of SOPs Pilot project to test Black Sea Vessel Traffic Oil Pollution Information System developed by mid-2004 and results available by end 2005. 	 Indicator based annual reports on Black Sea status including harmonized data from all national monitoring stations; 5-year State of Environment reports reflecting the load of nutrient (hazardous substance) entering the Black Sea relative to 1997 levels. Report on monitoring test program and with recommendations to set up full scale monitoring system; Test results of the VTOPIS. 	 R National monitoring institutions may lack necessary financial means and equipment for sampling and laboratory work; R Certain national monitoring institutions may not supply reliable data in time; R Financial support might not be available to produce annual summary reports on Black Sea status; A Relevant national units of the BSC support the pilot project in their respective countries.
 the EU WFD for coast 4.1.2 Establish and implement Operating Procedures 4.1.3 Strengthen the capacit monitoring equipment 4.1.4 Prepare a complete set the TACIS project; 	ates of identified monitoring institutions through staff training as needed for ; ; ; of technical documents for the implementation for the operation of the BSIN	rine monitoring programs currently in the hemical and ecological monitoring and improved ecological monitoring, and p	use; I the development of the Standard rovide, where necessary, basic ts of the corresponding activities from
scopes; 4.1.6 Organise workshops o	and carry out testing of the monitoring programme with emphasis on environ n application of modern assessment techniques and SOPs; ementing a pilot project within the development of a Black Sea Vessel Traffi		
Outcomes: 1. BSIMAP becomes an effe 2, BSIMAP provides indicat	ctive tool for the monitoring and indicator-based assessment of the status and or based reporting of the state and trend of the nutrient (and hazardous substa bed to demonstrate the effectiveness of VTOPIS in the Black Sea through a p	d dynamics (including forecasts) of the ances) loading to the Black Sea.	· · · · · · · · · · · · · · · · · · ·

OBJECTIVE 4: Developme	OBJECTIVE 4: Development of operational systems for monitoring, information management and research under the Black Sea Convention				
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)		
Output 4.2: Black Sea Information System including tools for GIS, mapping and remote sensing developed to support the activities of the BSC and implementation of the BSSAP.	 State of the Environment Report (5-year), – 6. Black Sea Information system fully established and operational by mid 2005 within intranet area and for the public access (Internet) and operational units established at national level in all BS countries to facilitate exchange of information and emergency messages; – 8. Black Sea GIS including mapping tools and download of satellite data operational by end 2005 and accessible by all contracting parties and public users; All members of BSC bodies and staff of national operational units or information centres as well as NGO representatives have received training by 2005 to make fully use of the BS Information System. 	 State of the Environment Reports (5-year); Web site: <u>www.bserp.org</u>; Overview maps of Black Sea Basin used for planning purposes by all Black Sea countries; Reports from the ICZM Centres to the BSC with all information required for the development of State of the Environment Report. 	 R Black Sea Contracting Parties do not provide in time and quality information needed to compile the Annual status report; R Governments may not provide in time required information for production of regional Black Sea maps and other data and information for GIS; R BSC might not have sufficient funds to assure sustainable operation and maintenance of the information system; 		
used by all Black Sea en	nt and the operation of the Black Sea Information System (BSIS) xpert bodies, activity centres and other operational bodies under required technical capacity to use the system).				
	ats with user friendly interface to assure coherent and analytical	presentation of data and information;			
	 4.2.3 Link all Contracting Parties of the Black Sea Commission to the BSIS, which implies the establishment of operational units at the national level to communicate also in case o accidental emergency situations, 				
4.2.4 Assure links with region	nal and global information systems (e.g. SeaSearch, Black Sea G	OOS, DANUBIS, Black Sea Database ²⁹ , IW	V:LEARN etc),		
	ive web sites for public information and response with particular vastewater treatment, coastal zone management, etc;	attention to new technologies in the agricul	tural and in the industrial sectors		
4.2.6 Develop and operate the	e Black Sea GIS including textual, numerical and digital mappin	g information, appropriate data base and rep	orting formats,		
_	Joint Research Centre (JRC) download, interpret and distribute	-	lite data, and assure extended use of GIS,		
1 1 0	erent outline and drafting of the State of the Environment Report				
4.2.9 Launch training at the n	ational level and organise a series of workshops to train users in	the best use of the tools made available by t	he system (interactive web site, update of		

database, etc).

²⁹ This database was developed under the NATO TU-Black Sea Project. It is operated by the METU Institute in Erdemli (Turkey).

Project Document for Phase II (Tranche 2) April 2004

OBJECTIVE 4: Development of operational systems for monitoring, information management and research under the Black Sea Convention					
Outputs	Objectively Verifiable Indicators / Results Sources of Verification Assumptions (A) and Risks (R)				
Outcomes: 1. Management of informat etc.) by the improvement o 2. The data exchange and re 3. Increased public awarene	ion System including tools for GIS, mapping and remote sens toon for the BSC on work to manage the Black Sea basin enh f the BSIS as evidenced by an expansion of the information porting procedures within the implementation of the Bucha ss of Black Sea problems, issues and solutions (including in ctively as evidenced by an increase in hits to the web pages	anced for 50 experts involved in the BSC (S available as well as the use of the system. rest Convention (RACs, FPs, BSC/PS), as w itiatives of the BSC, NGOs etc.) due to an in	vell as with the EEA is supported by the BSIS. mproved, more user-friendly and interactive BSC		

RER/01/G33/A/1G/31: Control of eutrophication, hazardous substances and related measures for rehabilitating the Black Sea ecosystem: Tranche 2

	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
and identify sources fo 4.3.2 Prepare and carry out s 4.3.3 Further develop/adapt	 Results of first survey cruises available during 2005; Funds requested for additional extension of survey cruises to other recognized impact areas; Scientific study on nutrient inputs by atmospheric deposition is concluded by end 2006; Models adapted and tested building up on the results of regional pilot project(s); Report on baseline data on phosphorus in detergents and estimation of transaction costs available end 2004 Preparatory documents prepared and Black Sea Conference organised in 2006. 	ized impact areas of the Black Sea; sition; a basin (taking into account DANUBS mod ne information and evaluation of transaction	els), a cost for the Black sea riparian countries;

Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 5.1: NGOs structures and activities reinforced though support for institutional development and community actions in awareness raising, training and education ³⁰ on the issues related to the management of nutrients and hazardous substances.	 Set of criteria to evaluate the efficiency of NGO activities in relation to supporting the management of nutrients and hazardous substances developed by end 2004; Optimal operation of Black Sea NGO umbrella organisations is achieved by 2006; Knowledge and awareness on coastal zone management, reduction of nutrients and hazardous substances are improved by mid 2005; NGO publications related to nutrient and hazardous substances, in national languages, are regularly published. 	 Evaluation report on NGO activities; Numbers of NGOs and members registered in Umbrella Organisations having observer status in the BSC; Number of NGOs and members participating in ICZM Pilot Project; NGO publications, web-sites. 	 R Insufficient professional capacities in NGOs; R Low capacities and experience in fund raising; R Cooperation between Government and NGOs not productive.
(on the basis of Tranche 5.1.2 Provide support to the " management (NGO wel 5.1.3 Organise stakeholder tra	aining in environmental protection of coastal areas (with emphas	lementation of 5.1.2 - 5.1.4, consultation meetings and reinforcement of	of communication and information
of the Train Sea Coast p			
Outcomes:	and distribution of NGO publications in national languages on n	urrent reduction and nazardous substance	8.
 Community involvement in awareness raising and pollution Sustainable operation of the Active involvement of the activities to involve the public 	acreased through an expanded and strengthened network (5 time on reduction activities in 6 Black Sea countries; e "Umbrella NGOs" achieved, leading the further expansion an 'Umbrella NGOs" members in policy development and pollution e in the Management/Planning process in the frame of the EU Wa ntinue to be an annual event and a platform to raise awareness or	d effectiveness of the network; n reduction activities assured through partr ater Framework Directive etc.)	nerships with the national governments (e.

_	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 5.2: <u>Community actions</u> for awareness raising and environmental protection implemented with funding from GEF "Small Grants Programme" targeted specifically at the support/participation in the management of nutrients and hazardous substances	 Evaluation report on results of 1st tranche of SGM is available in mid 2004 and recommendations are taken into account for implementing 2nd tranche of SGP; - 3. Based on experience of 1st tranche, methodology and procedures are prepared and selection of projects for implementing 2nd tranche of SGP is achieved by end 2004; Efficient and effective NGO involvement in coastal zone management and pollution control is assured through good organisation and careful follow up of SGP implementation (end 2004 to end 2006) according the set of criteria developed in Output 5,1. Evaluation report on implementation of 2nd tranche of SGP is available beginning 2007. 	 Evaluation report on 1st tranche of SGP; Developed methodology and list of approved projects for financial support in 2nd tranche; Final evaluation report on performance in project implementation and efficiency of results produced. 	 R Insufficient professional capacities in NGOs to reach expected results; R Inefficient management and use of funds; R Insufficient reporting skills, R Missing cooperation from local administration or Government;
Activities:			
5.2.2 Define type of projects evaluation of results,	irst tranche of community based projects financed in the frame o eligible for GEF SGP support and develop methodology and pro	cedures for selection of projects, follow up	of programme implementation and final
	ntify, in line with above methodology, projects for reduction of n		ame of coastal zone management and
	osystems (The Black Sea Environmental Education Programme,	DOLLI,	
protection of marine ec	osystems (The Black Sea Environmental Education Programme, nentation and follow up of GEF SGP in Black Sea coastal areas the		organisation;

2. NGOs play a significant role at the national/local level to ensure effective consultative mechanisms between the local/national governments and a wider public.

OBJECTIVE 5: Strengthening of public participation in environmental protection through access to information, stakeholder training and awareness raining and implementation of community actions (Small Grants Programme)			
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)
Output 5.3: Public information on reduction of nutrients and hazardous substances, their effect on the Black Sea ecosystem, and the recovery measures are disseminated to the public at large (i.e., by means of the Communication Strategy, Educational Programme, Public awareness campaigns, media coverage),	 Decision makers of public and private sector, opinion leaders and the general public are better informed and sensitised on issues related to coastal zone management and protection of coastal and marine ecosystems (continuous until end of the BSERP); Sufficient and reliable information for mass media purposes are prepared and published (continuous until end of the BSERP); Environmental education in schools is introduced through BSC/BSERP initiative by mid 2006; Funding sources for the documentary film are identified by end 2005 and it is produced by 2007. - 6. Basin-wide information material on management of coastal zones and marine ecosystems, reduction of nutrients and toxics, sustainable fisheries, etc., are periodically published and presented on interactive web site for public information and response (continuous until end of BSERP); Evaluation of communication strategy and awareness raising activities is completed by 3/2007. 	 Mid term evaluation in Project Progress report; response in interactive web site; Articles from newspapers, journals, broadcasts etc, School education curriculum Documentary film on environmental protection of the Black Sea; Posters, leaflets, film clips etc. produced; Evaluation report on communication strategy based on regional questionnaire. 	 R Weak or non existing Government response to translate messages in national languages and to participate in awareness raising campaigns; A The script developed in Tranche I is supported by the potential sponsors of the film production; A NGOs may play an important role if financial incentives will be provided.

Activities:

- 5.3.1 Conceptualise and implement in line with Communication Strategy developed in Tranche I, public information and awareness raising campaigns on sustainable sectoral management for control of nutrients and hazardous substance in the coastal zone for protection of coastal and marine ecosystems in all Black Sea countries (to be translated in national languages by Governmental department or NGO concerned),
- 5.3.2 Develop and produce, in line with Communication Strategy, materials for public press and mass media on subjects related to management of coastal zones and marine ecosystems (with focus on eutrophication and sustainable fisheries),
- 5.3.3 Support environmental education in schools through the development and introduction of specific messages for nutrient reduction and sustainable management of the coastal zone and marine ecosystems (through the Black Sea Environmental Education Programme, BSEEP),
- 5.3.4 Encourage the production of a popular documentary film on the Black Sea environmental protection with a positive message on eutrophication (based on the script developed in Tranche I and identify relevant sources for financial support),
- 5.3.5 Assist in developing and producing information material on management of coastal zones and marine ecosystems (with focus on eutrophication), reduction of nutrients and hazardous substances, recovery of Black Sea ecosystems, sustainable fisheries, etc.
- 5.3.6 Prepare interactive web site for public information and response (see also Activity 4.2.5);
- 5.3.7 Evaluate at the end of the GEF BSERP the effects and impact of public information and awareness raising campaigns.

OBJECTIVE 5: Strengthening of public participation in environmental protection through access to information, stakeholder training and awareness raining and implementation of community actions (Small Grants Programme)				
Outputs	Objectively Verifiable Indicators / Results	Sources of Verification	Assumptions (A) and Risks (R)	
Output 5.3: Public information and awareness for environmental issues reinforced through special publications and cooperation with mass media to disseminate information on nutrient reduction and sustainable coastal zone management and protection of marine ecosystems.				
Outcomes: 1 Awareness of public in overall Black Sea on the importance of pollution reduction and environmental challenges has been enhanced through targeted communication activities and campaigns (farmers, municipalities, wetland mangers, environmental NGOs, etc.)				