



Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

(Bénin, Burkina Faso, Côte d'Ivoire, Ghana, Mali Togo)

Project Number: 53885

2013 work plan and budget

December 2012





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List of abbreviations and acronyms

Abbreviation	Definition
ADB	African Development Bank
AMCOW	African Ministerial Conference on Water
ANBO	African Network of Basin Organisations
ASNP-VRB	Action Sheet for the National Part of the VRB
BOAD	Banque Ouest Africaine de Développement
DGEF	Division of Global Environment Facility
ECOWAS	Economic Community Of West African States
ECOWAS/WRCC	Economic Community Of West African States/Water Resources Coordination Centre
EPA	Environmental Protection Agency
EQO	Environmental Quality Objective
EU	European Union
GEF	Global Environment Facility
GLOWA	Globaler Wandel WAsserkreislaufes
GTZ	German Technical Cooperation
GWP	Global Water Partnership
GWP-WAWP	Global Water Partnership-West Africa Water Partnership
HYCOS	Hydrological Cycle Observation System
ICARM	Integrated Coastal Area and River Basin Management
IRB	International River Basin
IUCN	International Union for Conservation of Nature and Natural Resources
IW-LEARN	International Waters Learning Exchange and Resource Network
IWRM	Integrated Water Resources Management
M&E	Monitoring and Evaluation
MCA	Millennium Challenge Account
MOA	Memorandum Of Agreement
MOU	Memorandum Of Understanding
NBA	Niger Basin Authority
NFP	National Focal Point
OMVG	Organisation pour la Mise en Valeur du fleuve Gambie
OMVS	Organisation pour la Mise en Valeur du fleuve Sénégal
ORASECOM	Orange-Senqu River Commission
PAGEV	Projet d'Amélioration de la Gouvernance de l'Eau dans le Bassin de la Volta
PIR	Project Implementation Report
PMU	Project Management Unit
PSC	Project Steering Committee
PTF	Project Task Force
RBO	River Basin Organisation
SAP	Strategic Action Program
SIAAP	Syndicat Interdépartemental pour l'Assainissement de l'Agglomération de Paris
TDA	Transboundary Diagnostic Analysis
ToR	Terms of References
UDC	UNEP DHI Centre for Water and Environment
UNEP	United Nations Environment Program
UNEP/GEF	United Nations Environment Program/ Global Environment Facility
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNOPS	United Nations Office for Project Services
VBA	Volta River Authority
VB-ISS	Volta Basin Information Sharing System
VRB	Volta River Basin
WSSD	World Summit on Sustainable Development



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1. Background information

Project title: Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

Project number (if applicable): 53885 (UNOPS)

Responsible division(s)/unit(s) in UNEP: UNEP/GEF

Project starting date: 2nd January 2008

Project completion date: 31st December 2013

Reference to UNEP sub-programme(s) and expected accomplishment(s): UNEP/GEF International Waters

1.1 Overall objective(s) of the Project

1. The UNEP/GEF Volta River Basin Project is a regional initiative which has been designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin within the six riparian countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. It is developed specifically to address priority regional transboundary issues and problems as identified through a preliminary Transboundary Diagnostic Analysis (TDA). The Project has a primary focus on addressing some of the major environmental problems and issues of the basin leading to the degradation of the environment by human activities.
2. **Project's long-term goal:** equitable and sustainable management of water resources and other connected natural resources in the Volta River Basin and its downstream coastal area.
3. **The project's overall objective is to** enhance the ability of the riparian countries to plan and manage the Volta River Basin and its downstream coastal area (including aquatic resources and ecosystems) on a sustainable basis, by achieving sustainable capacity and establishing regional institutional frameworks for effective management; developing national and regional priorities; and effective legal, regulatory and institutional frameworks and management tools as a basis for action as well as initiating national and regional measures to achieve sustainable ecosystem management.
4. **The broad development objective** of this project is to address the perceived major transboundary problems and issues of the Volta Basin leading to the degradation of the environment as a result of human activities, by reducing those activities that lead to water scarcity, land and water degradation, and to integrate environmental concerns with present and future development of the basin. The broad development objectives are in line with the WSSD recommendations, national IWRM planning processes, and national development and poverty reduction strategies.
5. The three **Specific Objectives of the project** are as follows:
 - Specific Objective n° 1: Build capacity, improve knowledge and enhance stakeholders' involvement to support the effective management of the VRB
 - Specific Objective n° 2: Develop river basin legal, regulatory and institutional frameworks and management instruments for addressing transboundary concerns in the Volta River Basin and its downstream coastal area
 - Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin.

1.2 Partners and Financial details (budget)

6. The UNEP GEF Volta Project is implemented by the United Nations Environment Programme (UNEP). The executing agency is the United Nations Office for Project Services (UNOPS) with UNEP DHI Centre for Water and Environment (UDC) as co-executing agency. The VBA functions as policy guidance body and provide strategic orientation for the Project. The roles of these institutions are mentioned in the project inception report as approved by the Project Steering committee meeting held in Bamako, Mali on 15th May, 2008.
7. The project has discussed and negotiated partnership arrangements with several institutions and organisations. Specifically, discussions have been held with VBA, IUCN-PAGEV, SIAAP, IW-LEARN, GEF Niger River, GEF-Senegal River, ECOWAS/WRCC, OMVG, OMVS, NBA, MCA Burkina Faso and GWP-WAWP on possible areas to collaborate. During the discussions with some of these partners (mainly SIAAP, VBA, IUCN-PAGEV, MCA Burkina Faso) MOAs or collaboration agreements have been proposed towards the execution of key project activities.
8. The main financial partners are the Global Environment Facility (GEF) and the Governments of the riparian countries, contributing US\$ 5,844,880 and US\$ 3,424,739 respectively. Countries participating in the Project are Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. Project activities in these participating countries are coordinated by the National Focal Points.
9. Activities at national level are undertaken by the National partners from the six riparian countries, based upon the MOA signed with UNOPS and the agreed project work plan and budget.

Table 1: Project financial details

Country/Partner	Initial pledge US\$	Revised pledge (2008) US\$
GEF Support		
Project	5,347,380	5,347,380 ¹
PDF – B	472,500	472,500
PDF – A	25,000	25,000
Subtotal GEF	5,844,880	5,844,880
Co-financing		
Benin	418 200	418 200
Burkina Faso		267 353
Côte d'Ivoire	915 000	915 000
Ghana	3 888 270	690 000
Mali	7211	314 270
Togo	819 916	819 916
UNEP	60 000	60 000
Hungary	10 000	10 000
Czech Rep.	50 000	50 000
IUCN	620 000	620 000
ECOWAS/EU ²	1 962 500	1 962 500
SIAAP ³	471 000	471 000
MCA Burkina Faso		To be determined
Subtotal Co-financing	9 222 097	6 598 239
Total Project Budget	15 066 977	12 443 119

¹ 100,000 USD directly managed by UNEP as project evaluation costs

² 1,250,000 euros

³ 300,000 euros

2. Overview of the 2013 main events

10. The year 2012 was mainly dedicated to the finalisation of the Regional TDA document (including thematic reports on water resources, ecosystems, governance and economy), the preparation of the Volta Basin Strategic Action Program, the finalisation of the Volta Basin Information Sharing System and, the implementation of the 3 demo projects.
11. The year 2013 is the last year of the project implementation. It is therefore very significant in the project lifespan and the proposed work plan and its successful implementation are very critical to the project delivery. To that end, the main focus of the GEF Volta Project activities in 2013 consist of the following key processes and events:
 - Finalisation, validation and endorsement of the SAP document and its integration into VBA work plan
 - Implementation of the 3 demonstration projects as per their respective work plans and budgets and based on MOAs signed or with identified executing agencies,
 - Support to the Volta Basin Observatory for the implementation of the VBISS
 - Contribution to various studies, capacity building and knowledge development activities in the framework of the VBA Strategic Plan
 - Experience sharing and participation in key meetings and workshops (mainly VBA, GEF IW, UNEP, etc.)
 - Organisation of the 5th Project Steering Committee meeting
 - Initiation of the final evaluation of the project implementation.
12. Table 2 presents an overview of the main events planned for 2013. The detailed 2013 work plan is presented in Tables 3, 4 and 5. A summary of the main activities under each of the project specific objectives is presented in the following sections.

Table 2: Overview of the main events planned for 2013

Date	Place	Event
February 2013	Ouagadougou	SAP Regional meeting: presentation of Environmental Quality Objectives (EQOs) and draft SAP document
February 2013	Ouagadougou	VBA forum of parties
February 2013	Riparian countries	Discussions on national actions sheets and (EQOs)
March 2013	Abidjan	VBA Experts, ministers and head of states meetings
April/May 2013	Riparian countries	APNP-VRB & SAP national consultations
May-June 2013	To be determined	SAP validation workshop
October -November 2013	To be determined	SAP Endorsement by ministers
October -November 2013	To be determined	Project Steering Committee meeting

3. Main activities per specific objective

3.1 Main activities planned for the Specific objective 1

13. During the remaining 12 months of the project implementation, the PMU (including national focal points, consultants and other service providers) will be managed based on UNOPS procedures, rules and regulations and in collaboration with the VBA and UNEP. PMU staff meeting will be organised on monthly basis to ensure a good planning and prioritization of project activities.
14. The PMU will implement the project monitoring and evaluation plan and ensure the timely preparation, review and wide dissemination of key project reports (PIR and annual report, monthly briefs, TDA, SAP, and other study reports). The project closure plan will be prepared and implemented. Also, the project implementation report summarizing key project achievements, lessons learned, challenges and way forward will be prepared. Start the process for the project final evaluation and organize the 5th Project Steering Committee meeting which will be organized in the last quarter of the year preferably as back to back meeting with one of the VBA meetings (the PMU will discuss the venue with national partners in the course of the first quarter).
15. The VBA is the permanent regional body to facilitate the mandate for development of the basin; and as such, has long term objectives and responsibility, whereas the UNEP-GEF Volta Basin Project is a project which seeks to support and service the VBA in the implementation of its strategic priorities and as a project, promote and pursue its activities in a manner that would ensure that its outputs are integrated into the VBA's programme of work. Therefore, there is a need for a strong collaboration between the two partners. In view of this, the GEF Volta Basin Project will consolidate and intensify its collaboration with the VBA on the basis of the collaboration framework signed by the 2 partners in 2009 to achieve their common goals and objectives. The GEF Volta Basin Project will also support the VBA for the implementation of its Strategic Plan, the coordination of ongoing and planned initiatives within the Volta River Basin, the participation (including the presentation of the Volta Basin TDA and SAP documents) in key VBA meetings and workshops.
16. The project team will also facilitate and monitor the implementation and appropriation of the VB-ISS (Volta Basin Information Sharing System) by the Volta Basin Observatory and its national/regional partners. This will provide a mechanism for regional cooperation, coordination and collaborative actions, and enable the riparian partners to harness resources and expertise from a wide range of stakeholders and interest groups towards solving interlinked environment and water resources problems.
17. The PMU will also: i-) contribute to thematic forums/trainings as per VBA work plan (and other key meetings if required), ii-) contribute to the preparation, the review and validation of reference reports on the VRB water and associated environmental resources status as per Volta Basin Observatory work plan.
18. Furthermore, to ensure that local stakeholders are fully participating in the GEF Volta Project activities and in view of the establishment of VBA forum of parties, it is expected to contribute to the finalisation and implementation of VBA stakeholders' involvement plan in the framework of its Strategic Plan.
19. As part of its communication strategy, the PMU will: i-) disseminate project's brochures, leaflets, stickers, ii-) organise radio and TV broadcasts, iii-) finalise and disseminate the documentary on the Volta River Basin transboundary water and associated environmental resources issues, iv-) prepare the synthesis of all documentations on the project and produce communication products for all events related to transboundary concerns v-) participate and present the project's results at major regional and international water conferences: IWLEARN, GWP, VBA, ANBO, GCLME, IUCN/PAGEV and ECOWAS meetings/workshops, vi-) disseminate the project results and reports and regularly update the project website

20. Other key activities include: i-) courtesy visits to national authorities (Ministers in charge of water and environment) to update them on the project implementation: status, major challenges, national contributions, information on VBA activities, etc, ii-) contribution to the celebration of international water or environment events in Benin and Mali and iii-) establishment/maintenance of contact with key potential technical and financial partners: WASCAL, American Environmental Protection Agency, World Bank, ADB, AMCOW, African Water Facility, DANIDA, Kfw, etc.
21. One of the major sets of activities planned to achieve the Specific Objective 1 is awareness raising campaigns and training of national partners on IWRM and international river basins management (IRBM). Owing to budget limitations, and the fact that other projects and partners are undertaking work in this area, the project will not conduct training on IWRM and IRBM at the basin level, though this has happened at specific sites through some of the demonstration projects.
22. Table 3 presents the detailed activities and work plan corresponding to Specific Objective n° 1

Table 3: Detailed activities and work plan corresponding to Specific Objective n° 1

Code	Activities	2013			
		Q1	Q2	Q3	Q4
R1.1: Project Managed and coordinated to partners satisfaction					
A1.1.1.	<ul style="list-style-type: none"> • <i>Establish the Project Management Unit and governance system including: PMU, MOUs, PSC, NFP, NIC, Inception report, etc⁴</i> <ul style="list-style-type: none"> ○ Manage the PMU (including NIF, service providers) based on UNOPS procedures, rules and regulation ○ Organise PMU Staff monthly meetings ○ Develop and implement project closure plan 				
		X	X	X	X
		X	X	X	X
			X	X	X
A1.1.2.	<ul style="list-style-type: none"> • Develop and implement project monitoring and evaluation plan <ul style="list-style-type: none"> ○ Pay courtesy visits to national authorities (Ministers in charge of water and environment) and update them on the project implementation ○ Implement the M&E plan ○ Start the process for the project final evaluation ○ Prepare and disseminate project implementation report ○ Organise the 5th PSC meeting 				
		X		X	X
		X	X	X	X
			X	X	
					X
A1.1.3.	<ul style="list-style-type: none"> • Identify linkages with other partners, develop and implement collaboration plan <ul style="list-style-type: none"> ○ Participate in key VBA meetings: technical and financial partners meetings, VBA experts meetings, forum of parties, ministers and heads of states meetings, etc. ○ Contribute to VBA coordination meeting with ongoing/planned initiatives ○ Participate in the 7th GEF Biannual International Waters conference ○ Participate in WRCC/ECOWAS, IUCN/PAGEV, GWP West Africa key workshops/meetings and activities in line with the GEF Volta project objectives ○ Maintain contact with key potential technical and financial partners: GTZ division in Charge of Transboundary Water Management in Africa, American Environmental Protection Agency, World Bank, ADB, AMCAW, African Water Facility, etc. 				
		X		X	
			X		X
			X		X
		X	X	X	X
A1.1.4.	• Prepare project reports (PIR, annual reports, monthly briefs, study reports)	X	X	X	X
A1.1.5.	• Document project implementation and communicate results through publications, regional and internal reports, project newsletter and project website: <i>(just for the record)</i>				

⁴ Font style for activities completed: italic

Code	Activities	2013			
	<ul style="list-style-type: none"> ○ Synthesize all documentation on the project (including TDA and SAP documents) and produce communication products for all events related to transboundary water and associated environment issues 	X	X	X	X
	<ul style="list-style-type: none"> ○ Participate in and present the project's results at major regional and international water conferences (e.g. GWP, UNEP, GEF, IW and ANBO meetings/workshops) 		X		X
	<ul style="list-style-type: none"> ○ Disseminate project's brochures, leaflets, etc 	X	X	X	X
	<ul style="list-style-type: none"> ○ Organise radio and TV broadcasts (Mainly during VBA and GEF Volta project meetings and workshops) 	X		X	
	<ul style="list-style-type: none"> ○ Finalise and disseminate the documentary on the Volta River Basin transboundary concerns 	X	X	X	X
R1.2: Capacity & participation of stakeholders in VRB management strengthened					
A1.2.1.	<ul style="list-style-type: none"> ● Conduct training on TDA/SAP process for NFPs 				
A1.2.2.	<ul style="list-style-type: none"> ● Analysis of national institutions and stakeholders and preparation of stakeholders involvement plan (dissemination of study reports) <ul style="list-style-type: none"> ○ Prepare the matrix of national institutions concerned by the management of the Volta Basin, analyse their mandates and capacities ○ Prepare and analyze the stakeholders matrix: main activities and mandates, links with the management of the Volta Basin, and capacities to address IRB issues ○ Identify training gaps and prioritise training needs of national institutions and stakeholders for IRB management ○ Develop national training plans for the training of personnel in the key institution ○ Contribute to the study on the development of VBA stakeholders involvement plan (review and dissemination of study report) ○ Support and co-organise the celebration of international water or environment events in riparian countries 	X			
A1.2.3.	<ul style="list-style-type: none"> ● Conduct training sessions and awareness raising campaigns for national institutions and stakeholders on IWRM and IRB management <ul style="list-style-type: none"> ○ Organise national training sessions on IRB management for personnel in the key institutions (cancelled, pending additional funds) ○ Organise at national level, awareness raising campaigns on IRB management for stakeholders 				
A1.2.4.	<ul style="list-style-type: none"> ● Conduct a training session for national institutions on data management and monitoring and, clearinghouse system 				
A1.2.5.	<ul style="list-style-type: none"> ● Conduct training on SAP implementation at national and regional levels (cancelled, pending additional funds) 				
R1.3: Knowledge based expanded & basin-wide communication mechanism in place					
A1.3.1.	<ul style="list-style-type: none"> ● Conduct study on data inventory and assessment, including data sharing mechanism, training gaps and training plan 				



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Code	Activities	2013			
A1.3.2.	• Support and/or contribute to studies on the establishment of the Volta Basin Observatory through database, data collection and data sharing protocol				
	○ Contribute to the preparation of reference reports/studies on the VRB water and environmental resources status as per Volta Basin Observatory work plan (Preparation of TORs and review of study reports)		X		X
	○ Participate in the Volta Basin Observatory steering committee meeting (and other key meetings/workshops)		X		X
	○ Support the installation of the Volta Basin data platform through the procurement and installation of: 1 Hardware Server, 1 UPS, the Software ArcGIS Server, the ArcGIS Desktop (if necessary) and the MS SQL Server 2005				
	○ Facilitate and monitor the implementation of the VB-ISS	X	X	X	X
A1.3.3.	• Organize one scientific workshop in collaboration with key partners (UNESCO, AMMA, GLOWA, WASCAL, etc.): Given funding constraints and the need to reallocate budget resources to ensure delivery of the TDA and SAP processes, this activity has been de-prioritized in the project.				
	○ Prepare a concept note on the workshop, establish contact and share it with selected partners and potential donors				
	○ Raise funds for the organisation of the event				
	○ Organise the scientific workshop on the Volta river basin (including announcement and review of articles/publication)				
A1.3.4.	• Develop and update project website				

3.2 Main activities planned for the Specific objective 2

23. The production of a Transboundary Diagnostic Analysis (TDA) followed by a Strategic Programme of Action (SAP) is a requirement for most projects proposed for financing in the GEF International Waters Focal Area.
24. The TDA is a scientific and technical fact-finding analysis used to scale the relative importance of sources, causes and impact of transboundary waters problems. It is an objective technical assessment and not a negotiated document. It is recommended for most of the projects in the GEF International Waters projects.
25. On the other hand, the SAP is a negotiated policy document that establishes clear priorities for action and identifies policy, legal and institutional reforms as well as investments needed to address and resolve priority problems of the transboundary waters. Endorsed by relevant authorities, it establishes clear priorities for action to resolve the priority transboundary problems which are identified in the TDA. The SAP sets out specific actions for each country that can be adopted nationally but harmonised with the other concerned countries.
26. National TDA documents have been prepared and validated in 2010 while in 2011, 4 thematic reports have been prepared at the regional level on the basin water resources, basin ecosystems, basin economic status and governance analysis. These reports served as reference for the preparation of the Volta Basin TDA document validated by national stakeholders in August 2012.
27. During the 1st quarter of 2013, the PMU will undertake the rereading/review of the validated TDA document (French version), proceed to its final update, officially submitted to the Volta Basin Authority and presented during various stakeholders meetings/workshops (VBA forum of parties, VBA experts meetings, Volta Basin Observatory meetings and other VBA and regional partners workshops and meetings). The final TDA will also be edited, printed and widely disseminated.
28. For the GEF Volta Project, 2013 is the year of the basin SAP finalisation. TDA documents prepared in 2010, 2011 and 2012 will be used as the basis for the finalisation of the Volta Basin SAP document and its associated national and regional action sheets. To that end, the project will conduct discussions (in February 2013) with national/regional partners on Environmental Quality Objectives (EQOs). These discussions will lead to the update of the draft SAP documents (including national and regional actions sheets) which will be reviewed, finalised and submitted to national/regional stakeholders for validation by the end of the 2nd Quarter.
29. During the third or fourth quarter of 2013, the SAP document will be submitted to:
 - The VBA Executive Directorate and its technical experts
 - the Steering Committee for approval and,
 - the Ministers in charge of Water and Environment for endorsement (ideally in conjunction with VBA Ministerial meeting)
30. The PMU will pursue in collaboration with UNEP and the VBA, the fundraising process for SAP implementation by establishing and/or reinforcing contact and involving some donors/partners in the TDA/SAP process: American EPA, World Bank, African Water Facility, BOAD, Kfw, DANIDA, CIDA, SIDA, USAID, etc. Also, UNEP and the PMU will prepare in collaboration with VBA a Project Identification Form (PIF) document for a project to support the implementation of the Volta Basin SAP.
31. Table 4 presents the detailed activities and work plan corresponding to Specific Objective n° 2

Table 4: Detailed activities and work plan corresponding to Specific Objective n° 2

Code	Activities	2013			
		Q1	Q2	Q3	Q4
R2.1: VRB regional coordination mechanisms supported (Just for the record)					
A2.1.1.	• Advocate at Ministerial level and through project meetings, workshops and reports, the importance of ratifying the basin convention (just for the record)				
A2.1.2.	• Insert and mainstream the TDA, SAP and APNP-VRB into the VBA policies, strategies and plans (just for the record)				
R2.2: Transboundary Diagnostic Analysis (TDA) updated and finalised					
A2.2.1.	• Review the preliminary TDA, identify gaps and prepare detailed methodology for TDA finalisation and SAP/APNP-VRB development				
A2.2.2.	• Organize starting regional/national workshops with national, regional and international institutions and stakeholders <ul style="list-style-type: none"> ○ Organize regional starting workshop with national, regional and international institutions and stakeholders (Dissemination of the workshop report) ○ Organize national starting workshops with national institutions and stakeholders 				
A2.2.3.	• Update and complete the TDA document including situation analysis and causal chain analysis <ul style="list-style-type: none"> ○ Finalize and edit the 4 TDA thematic reports ○ Translate the draft regional TDA document into French 				
A2.2.4.	• Organize regional validation workshop with national, regional and international institutions and stakeholders, including PSC and VBA				
A2.2.5.	• Finalise the regional TDA document (including thematic reports) based of the validation workshop recommendations <ul style="list-style-type: none"> ○ Rereading/review of the French version of the TDA document ○ Final update of the TDA document based on comments received from reviewers ○ Official submission of the final TDA to the VBA 	X			
A2.2.6.	• Edit, print and the regional TDA document	X	X		
A2.2.7.	• Disseminate TDA document (including regional/national TDA)		X	X	X
R2.3: Action Sheets for the National Parts of the VRB (ASNP-VRB) developed					
A2.3.1.	• Prepare the National Action Sheets <ul style="list-style-type: none"> ○ Finalize/update draft national action sheets 	X			
A2.3.2.	• Submit ASNP-VRB to PMU & regional SAP team for validation and integration into the SAP document as annex	X			
A2.3.3.	• Submit ASNP-VRB to national authorities for endorsement	X	X		
A2.3.4.	• Edit, print and disseminate ASNP-VRB	X	X		

Code	Activities	2013			
		Q1	Q2	Q3	Q4
R2.4: Strategic Action Programme (SAP) prepared					
A2.4.1.	<ul style="list-style-type: none"> • Organize starting regional/national workshops with national, regional and international institutions and stakeholders <ul style="list-style-type: none"> ○ Update the work plan for SAP preparation ○ Finalise TORs and contract the SAP team ○ Organise SAP regional/national inception workshops ○ Organise SAP regional/national thematic meetings/discussion 				
A2.4.2.	<ul style="list-style-type: none"> • Prepare the Strategic Action Programme document, including SAP implementation guideline, monitoring & evaluation system for SAP implementation, long term financing strategy for the SAP <ul style="list-style-type: none"> ○ Discussions on EQOs with key partners ○ Finalise regional and national action sheets ○ Update the draft SAP document ○ Present SAP outcomes at key regional meetings/workshops ○ Review and finalize the SAP document 				
A2.4.3.	<ul style="list-style-type: none"> • Organize validation regional workshop with national, regional and international institutions and stakeholders 		X		
A2.4.4.	<ul style="list-style-type: none"> • Translate, edit, print and disseminate the SAP document 	X	X	X	X
A2.4.5.	<ul style="list-style-type: none"> • Submit the SAP document to: i-) VBA Executive Directorate and its technical experts , ii-)the Steering Committee for approval and, iii-) the Ministers in charge of Water and Environment for the endorsement of the SAP document (ideally in conjunction with VBA Ministerial meeting) 			X	X
A2.4.6.	<ul style="list-style-type: none"> • Start developing partnerships for SAP implementation by establishing contact and involving some donors/partners in the TDA/SAP process: American EPA, World Bank, African Water Facility, BOAD, KfW, etc 	X	X	X	X

3.3 Main activities planned for the Specific objective 3

32. Three demo projects were selected and developed during the overall project preparation. The 3 demo project documents have been updated in 2008 taking into account recent developments in the proposed demo project areas, especially: i-) equipping of the Sourou river with hydrometric and rain gauge station through the implementation of the Volta HYCOS Project (Demo Project 1), ii-) the construction of wastewater network in the City of Kara with the support of SIAAP (Demo Project 2) and, iii-) the construction of the hydroelectric dam at Bui in Ghana (Demo Project 3). The review of the demo projects has led to more detailed and elaborate project documents submitted to the PMU and national partners.
33. Based on the revised Demo Project documents and discussions with national partners, MOAs were signed with the Government of Mali for the implementation of the Demo Project 1, the Governments of Côte d'Ivoire and Ghana for the implementation of the Demo Project 3, the Government of Benin for the implementation of Demo 2 in the Pendjari and SIAAP for the implementation of Demo 2 in Kara (Togo). The PMU will therefore pursue the implementation of these 3 Demo Projects in the framework of the MOAs and as per the agreed Demo Projects work plans and budgets for 2012 and 2013.
34. Funded by MCA Burkina Faso, the adaptation of the hydrological model (HEC RAS) to the Demo 1 project area has been delayed the past 2 years and could be completed during the 1st quarter of 2013 and national partners trained on how to use the model for the prediction of floods and inundations in the Sourou River Basin. Also, national partners in Mali will use an empiric approach to develop an early warning system based on the relation between flooding, inundation water level in the lake and water level in the Lerry Dam depending on the period. This will lead to the definition of potential floods and inundation scenarios and management strategy. In the meantime the project will contribute to the operation of the bilateral committee, including the protocol for the joint management of the basin. The 2 countries will pursue the collection and management of hydro-meteorological data in the framework of the Volta HYCOS Project.
35. With regard to Demo 2 in Togo, the PMU will implement the following activities in collaboration with SIAAP and Kara:
 - construction of a small scale wastewater treatment plant in Ewawu area, including its connection to the wastewater network (Kara city)
 - connection of houses, Kara Market, hotels, restaurants, schools, Kara Municipality and other major public/private institutions to the network by September-October 2013
 - awareness creation campaigns and sensitization of Ewawu inhabitants on Water and Environmental Sanitation issues
 - training of national partners on how to operate and maintain the treatment plant and wastewater network.
36. In Benin, Demo 2 activities will be focused on river bank protection in identified hotspots areas of the Pendjari River Basin, mainly: restoration of 7 km of river bank, production of seedlings (at least 20 000), reforestation of at least 10 ha in selected hotspots and, training sessions, awareness creation activities and radio discussions on river bank protection, forest resources and transboundary concerns
37. In the framework of the ongoing Demo 3 implementation, the PMU will continue to work with the national partners to implement the following during the year 2013: Establishment of Demo project bilateral committee; preparation of baseline socio-economic study as a basis for Project monitoring and evaluation; training local stakeholders on IWRM and conflict resolution involving forest and natural resources. Specifically, the project planned to develop posters on degradation, efficient charcoal production and bush fire issues for awareness campaign in order to sensitize communities on impact of buffer zones, use of chemicals in fishing and mining. Planned work for the restoration of riverbank, the dredging of hot spots of selected river beds and the establishment

of firewalls initially put on hold due to the raining season will also be launched along with studies for flow and sediment monitoring on areas to be dredged.

38. Due to budget constraint which could harm the successful implementation of the demonstration projects, the PMU envisages to i-) finalise the comprehensive project document on the restoration/protection of river banks in the national parts of the basin mainly in Benin, Côte d'Ivoire, Ghana and Togo, ii-) update the Demo Project on: Fresh groundwater storage and movement between SE Ghana and SW Togo and agronomic practices to safeguard the shallow freshwater lenses from salinisation. Fundraising activities could therefore be conducted in collaboration with VBA and national partners.
39. Table 5 presents the detailed activities and work plan corresponding to Specific Objective n° 3

Table 5: Detailed activities and work plan corresponding to Specific Objective n° 3

Code	Activities	2013			
		Q1	Q2	Q3	Q4
R3.1: 3 Demo projects successfully implemented					
A3.1.1.	<ul style="list-style-type: none"> • Review demo project documents (logframe, activities, budget, M&E plan and work plan) and prepare inception report (<i>Dissemination of studies reports and preparation of inception reports</i>) 				
A3.1.2.	<ul style="list-style-type: none"> • Implement the Demo project no 1: Joint management by Burkina Faso and Mali of a flow release warning system in the Sourou river valley (tributary of Black Volta River or Mouhoun) <ul style="list-style-type: none"> ○ Finalise the adaptation of the hydrological model (HEC RAS) to the project area and train national partners (activity funded by MCA Burkina Faso): Depending on progress made by MCA Burkina Faso ○ Training of national partners on the HEC-RAS model (Depending on progress made by MCA Burkina Faso) ○ Floods and inundations predictions (early warning): Depending on progress made by MCA Burkina Faso ○ Data collection ○ Develop and implement (Malian side) an early warning system based on relation flooding, inundation water level in the lake and water level in the Lerry Dam depending of the period ○ Floods and inundations scenarios and management strategy ○ Contribution to the operation of the bilateral committee, including protocol for the joint management of the basin ○ Implement the demo Project as per the 2013 work plan and budget ○ Prepare demo implementation narrative and financial reports 				
		X			
		X			
		X	X	X	
		X	X	X	X
		X			
		X	X		
		X	X	X	
				X	X
A3.1.3.	<ul style="list-style-type: none"> • Implement the Demo project no 2: Installing and comparing technological models of waste water treatment in the Cities of Kara (Togo) and Natitingou (Benin) <ul style="list-style-type: none"> ○ Demo Project in Togo <ul style="list-style-type: none"> ▪ Construct the small scale treatment plant ▪ Connect mosques, schools, restaurants and other major public/privates institutions to the network and operate the small scale treatment plant ▪ Monitor key water quality parameters ▪ Organise awareness creation campaigns and sensitize Ewawu's inhabitants on Water and Environmental Sanitation issues ○ Demo Project in Benin <ul style="list-style-type: none"> ▪ Training sessions, awareness creation activities and radio discussions on river bank protection, forest resources and transboundary concerns 				
		X			
		X	X	X	X
		X	X	X	X
			X	X	X
		X	X		

Code	Activities	2013			
		Q1	Q2	Q3	Q4
	▪ Restore 7 km of river bank	X	X		
	▪ Produce at least 20 000 seedlings	X			
	▪ Reforest at least 10 hectares in selected hotspots	X	X		
	▪ Maintain and protect the new parcels of forest		X	X	
	▪ Organise Demo steering committee meeting			X	
	○ Implement the demo Project as per the 2013 work plan and budget	X	X	X	
	○ Prepare demo implementation narrative and financial reports			X	X
A3.1.4.	• Implement the Demo project no 3: Restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire & Ghana) and its tributaries through participative campaigns of reforestation				
	○ Organise bilateral meetings (Ghana – Côte d'Ivoire)			X	
	○ Training sessions, awareness creation activities and radio discussions on river bank protection, forest resources and transboundary concerns	X		X	
	○ Dredge hot spots of selected river beds	X			
	○ Restore 10 km of river embankment	X			
	○ Reforest 20 hectares usable for fuel wood, construction	X	X		
	○ Maintain and protect the new parcels of forest		X	X	
	○ Develop plan for the management of the new parcels of forest		X	X	
	○ Make firewalls around the plot of yards reforested and around gallery forests in selected area in agreement with local population		X		
	○ Establish local committees of bush fires control	X			
	○ Implement the demo Project as per the 2013 work plan and budget	X	X	X	
	○ Prepare demo implementation narrative and financial reports			X	X
A3.1.5.	• Carry out the followings (on hold, could be part of the SAP and ASNP VRB process)				
	○ Update the Demo Project on: Fresh groundwater storage and movement between SE Ghana and SW Togo and agronomic practices to safeguard the shallow freshwater lenses from salinisation				
	○ <i>Comprehensive project document of the restoration/protection of river banks in the national parts of the basin mainly in Benin, Côte d'Ivoire, Ghana and Togo: Finalise proposal and undertake fundraising</i>				
A3.1.6.	• Evaluate the implementation of the three Demo projects			X	X
R3.2: Replication strategy for demonstration project developed and initiated (on hold, could be part of the SAP and ASNP VRB process)					
A3.2.1.	• Develop six national Demo projects based and TDA/SAP priorities, including financial plan and replication plan				



Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area

Code	Activities	2013			
		Q1	Q2	Q3	Q4
A3.2.2.	• Submit the six national Demo projects to riparian countries for approval				
A3.2.3.	• Incorporate the replication plan in the SAP				

4. Proposed budget for the calendar year 2013

40. The proposed budget for 2013 is presented in the Table 6 below. This table is the summary of a detailed budget prepared in EXCEL by PMU and discussed with UNEP and VBA before its integration into this report.
41. Due to the delay in the implementation of some project activities, it has been recommended to UNEP during the midterm evaluation process, to extend the project implementation period to 2013. This therefore has cost implications mainly in terms of salary for the project staffs; the implementation of the Demo Projects and the PMU running cost and project budget has been revised accordingly.
42. The total budget for 2013 is 1,113,694.00 \$. Some key activities planned for 2012 have been postponed to 2013 such as:
 - SAP environmental quality objective meeting
 - Validation of the regional SAP document and payment of SAP regional experts
 - Finalisation of the documentary on the Volta Basin.
43. As for MOAs signed with national partners for the implementation of the Demo projects, it is recommended to extend them to September 2013.

Table 6: Project budget for year 2013 (USD)

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2007/08 Expenditures	2009 Expenditures	2010 Expenditures	2011 Expenditures	2012 Expenditures	2013 Budget	Total Revised 2013
10	PROJECT PERSONNEL COMPONENT							
	1100 Project Personnel	167 663	155 633	204 650	390 248	387 344	247 305	1 552 842
	1200 Consultants	318 619	111 755	151 376	67 315	86 964	107 577	843 605
	1300 Administrative support	14 732	18 921	27 729	27 083	21 580	24 500	134 544
	1400 Volunteers	0	0	0	0	0	0	0
	1600 Travel on official business (PMU+Consultants)	44 347	59 363	35 790	36 048	31 644	88 415	295 606
	1999 Component Total	545 361	345 672	419 544	520 693	527 532	467 796	2 826 598
20	SUB-CONTRACT COMPONENT							
	2100 Sub-contracts (MoU's/LA's for UN agencies)	0	0	0	0	0	0	0
	2200 Sub-contracts (MoU's/LA's for non-profit organisations)	47 745	34 649	161 755	71 914	226 003	215 708	757 774
	2399 Sub-contracts (commercial purposes)	0	0	0	0	0	0	0
	2999 Component Total	47 745	34 649	161 755	71 914	226 003	215 708	757 774
30	TRAINING COMPONENT							
	3100 Fellowships	0	0	0	0	0	0	0
	3200 Group training	52 118	42 130	74 022	45 317	10 784	6 354	230 726
	3300 Meetings/conferences	39 000	49 426	166 278	79 333	94 335	145 000	573 372
	3999 Component Total	91 118	91 556	240 300	124 651	105 119	151 354	804 098
40	EQUIPMENT & PREMISES COMPONENT							
	4100 Expendable equipment	5 340	10 806	3 059	3 138	26 154	6 000	54 496
	4200 Non-expendable equipment	9 562	4 880	42 493	5 801	278	750	63 764
	4300 Premises	0	1 739	849	3 291	4 930	6 500	17 310
	4999 Component Total	14 902	17 425	46 401	12 230	31 362	13 250	135 569
50	MISCELLANEOUS COMPONENT							

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2007/08 Expenditures	2009 Expenditures	2010 Expenditures	2011 Expenditures	2012 Expenditures	2013 Budget	Total Revised 2013
5100	Operation and maintenance of equip.	0	1 828	109	4 188	1 626	10 145	17 894
5200	Reporting costs	2 950	22 391	23 249	21 371	14 167	104 759	188 887
5300	Sundry (communications, postage,	6 450	13 045	11 304	9 723	6 588	43 186	90 295
5400	Hospitality and entertainment	0	0	0	0	0	0	0
5500	Evaluation	0	0	0	12 569	0	25 000	37 569
5999	Component Total	9 400	37 263	34 662	47 851	22 381	183 090	334 646
TOTAL COSTS		708 526	526 564	902 662	777 339	912 397	1 031 198	4 858 685
Project Execution Costs -UNOPS (8%)		56 682	64 014	72 213	62 187	72 992	82 496	388 695
GRAND TOTAL COSTS		765 208	590 577	974 875	839 526	985 388	1 113 693	5 247 380