



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

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List of abbreviations and acronyms

Abbreviation	Definition
APNP-VRB	Action Plan for the National Part of the VRB
DEWA	Division of Early Warning and Assessment
DGEF	Division of GEF Coordination
ECOWAS/WRCCC	Economic Community Of West African States/Water Resources Coordination Centre
EU	European Union
GEF	Global Environment Facility
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
ISS	Information Sharing System
IUCN	International Union for Conservation of Nature and Natural Resources
IW-LEARN	International Waters Learning Exchange and Resource Network
IWRM	Integrated Water Resources Management
KEOC	Kenya Operation Centre
M&E	Monitoring and Evaluation
MOA	Memorandum Of Agreement
MOU	Memorandum Of Understanding
NBA	Niger Basin Authority
NFP	National Focal Point
NOFP	National Operational Focal Point
OMVG	Organisation pour la Mise en Valeur du fleuve Gambie
OMVS	Organisation pour la Mise en Valeur du fleuve Sénégal
PAGEV	Projet d'Amélioration de la Gouvernance de l'Eau dans le Bassin de la Volta
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/DGEF	United Nations Environment Program/ Division of GEF Coordination
UNESCO	United Nations Educational, Scientific and Cultural Organisation
UNOPS	United Nations Office for Project Services
VBA	Volta Basin Authority
VRB	Volta River Basin
WEAP	Water Evaluation and Planning System
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

Reporting period: January-December 2011

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 designed to facilitate the integrated management, sustainable development and protection of natural resources of the Volta River Basin within the six riparian countries of 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) prepared during the project development phase. 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, through enhanced capacity building and established regional institutional frameworks for effective management; developing national and regional priorities and effective legal, regulatory and institutional frameworks including 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 causing 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 the UNEP DHI Centre for Water and Environment (UDC) as co-executing agency. The roles of these institutions are mentioned in the project inception reports 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 and GWP-WAWP on possible areas to collaborate. During the discussion with some of these partners (mainly SIAAP, VBA, IUCN-PAGEV) MOAs or collaboration agreements have been proposed towards the execution of key projects 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. However, during the reporting year, mobilising the co-financing from some of the national partners and other project partners as stated in the initial project brief have remained very difficult.

Table 1 – Project financial details (including anticipated co-financing)

Country/Partner	Initial pledge US\$	Revised pledge (2008) US\$
GEF Support		
Project	5,347,380	5,347,380
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	7,211	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 ¹	1,962,500	1,962,500
SIAAP ²	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 1,250,000 euros

² 300,000 euros

2. Project Status

2.1 Information on the delivery of the Project activities

2.1.1 Status of implementation activities corresponding to Specific Objective n° 1

10. During the reported period the Project Management Unit (PMU) was fully functional and has executed the project in close collaboration with the Volta Basin Authority and with the support of key institutions/partners (National Focal Points, UNEP/DGEF, UNOPS KEOC and UDC).
11. The 6 NOFPs appointed by national authorities have provided support to the National Project Coordinators to manage, on a day-to-day basis the project activities at the country level. The effectiveness of their contribution was monitored by the PMU through the submission of monthly reports approved by the National Project Coordinators. Support was provided to Togo Government for the celebration of the World water day. Also, several meetings organised at national levels by the NIC (TDA process, National coordination, Demo project, etc)
12. The project staff was regularly updated on UNOPS procedures, rules and regulations and trained on UNOPS project management methodology and implementation.
13. The 3rd Project Steering Committee Meeting was held in Lomé Togo, in April 2011 during which participants were briefed on the status of the implementation of planned project activities for 2010, the work plan and budget for 2011, status of the TDA process and challenges faced by the project since 2008. Key concerns raised by PSC members and discussed during the meeting were about the following issues:
 - better understanding of the project institutional framework and governance,
 - salary and motivation of national coordinators,
 - implementation of the demonstration projects,
 - institutional and operational challenges.
14. From the reports sent to PSC members before the meeting (2010 annual report, 2011 work plan and budget), the presentations by the PMU staff on key achievements and the discussions after each presentation, there was a consensus and the PSC members noted with appreciation the progress made during the last 3 years of the project implementation. The Steering Committee also approved the 2010 annual report, the 2011 work plan and budget and made some recommendations in order to complete project activities in a satisfactory way.
15. The M&E plan is used by the PMU to monitor the project work plan and achievement through the tracking of key indicators. The project monitoring and evaluation plan was implemented as per the approved inception report and 2011 work plan. The main mandatory reports (2011 annual report, quarterly narrative and financial reports, 2012 work plan & budget, PIR) were prepared by the PMU, shared and discussed with UNEP and VBA.
16. The project midterm evaluation completed as planned: draft midterm evaluation report submitted, reviewed by UNEP, PMU, VBA, UDC, and UNOPS. Comments were sent to the evaluator and report finalised. Management response to the consultant recommendations has been prepared by PMU in collaboration with UNEP Task Manager and VBA Executive Director. During the evaluation process, the consultant had the opportunity to discuss with PMU staff, key project partners in Benin, Burkina Faso, Ghana and Mali; these include VBA, national focal points, PAGEV, MCA, Kara Municipality, etc. Field visits were also organised to demo sites in Togo and Ghana.
17. As result of coordination discussions with the VBA and other projects partners, including the first findings of the Demo Projects inception phase, some of the projects indicators were reviewed and discussed during in the midterm evaluation. Final decision will be taken after validation of the midterm evaluation recommendations by UNEP and its approval by the PSC.

18. Support was provided to the VBA in/for the preparation of the abridged version of the VBA Strategic plan and its translation into French. A printing company has been selected on competitive basis and printing completed based on proposed design discussed and agreed upon with the VBA. The dissemination of the abridged VBA Strategic Plan is ongoing.
19. As described in Table 2, the GEF Volta Project has contributed to the preparation and/or participated in coordination discussions with VBA and various project partners (including IUCN, VB Observatory, GLOWA, MCA Burkina Faso, and SIAAP) and various meeting and workshops at national, regional and international levels mainly: i-) IW leadership Training workshop in Stockholm attended by the Regional Project Coordinator (6-10 May 2011), ii-) the Regional Workshop to strengthen AFO Environment Portfolio in Dakar (6-10 June 2011), iii-) IUCN PAGEV 11th and 12th steering committee meetings held in Ouagadougou (Burkina Faso in February and December 2011) and iv) the 6th GEF Biennial International Waters Conference held in Dubrovnik, Croatia in October 2011.
20. As part of the framework for cooperation of technical and financial partners' consultative group of the Volta Basin Authority, the GEF Volta Project has:
 - supported the VBA for the organisation of its second technical forum involving major VBA partners and stakeholders both at regional, national and local levels. This offered the basin organisation the opportunity to: i-) establish relationships between its various stakeholders in order to promote an understanding and the sustainable use of resources in the Volta River Basin, ii-) disseminate information on the Volta Basin and ongoing or planned initiatives, iii-) discuss with stakeholders their concerns, perceptions and reactions to emerging water resources and associated environmental resources issues within the Basin and iv-) discuss with stakeholders their priorities, potential constraints and areas where their involvement would be needed in VBA activities.
 - supported, in collaboration with IUCN/PAGEV, the VBA for the preparation and organisation of a Study and Exchange visit to ORASECOM (Orange-Senqu River Commission) in Pretoria (South Africa) in January 2011. The team first met with officials of UNOPS led by Mr. Marc Van Uytvanck, the Deputy Regional Director for Africa, who made a presentation on the organization's activities while the Regional Coordinator of the UNEP/GEF Volta River Basin Project presented a summary of current project activities for the information of the UNOPS officials. Discussions were held on possibilities of increased collaboration between UNOPS and riparian countries of the Volta. This visit offered the opportunity to VBA and its partners (including GEF Volta, IUCN/PAGEV, representatives of Ghana, Togo and Mali) to exchange with the hosting institutions on (during various meetings and visits to some infrastructures constructed for the sustainable development of the population in the Orange-Senqu River Basin riparian countries):
 - key water resources and associated environmental transboundary issues in the Orange-Senqu River Basin and ORASECOM's solutions,
 - the status of the IWRM process in Orange-Senqu River Basin countries' and coordination mechanism established by the ORASECOM,
 - the Orange-Senqu River Basin data and information sharing system,
 - good practices and governance issues.
 - Identification of collaboration opportunities, draft and if possible, sign a Collaboration Framework/Agreement between the Orange-Senqu River Commission and VBA.
 - contributed to the preparation and participated in: i-) the 3rd VBA ground water workshop and ii-) the first VBA workshop on water related diseases held in Benin in August 2011
 - contributed to 2 key studies on the assessment of the basin's socioeconomic and environmental situation and analysis of the problem areas and issues regarding sustainable management of water resources

- participated in the VB Observatory steering committee meeting held in Ouagadougou in February 2011.
21. In the framework of its collaboration plan with ongoing initiatives, the project has:
- after discussion with national partners, VBA and UNEP, signed MOA with SIAAP for the implementation of the Demo project 2 in Togo
 - contributed to the preparation of IUCN/PAGEV phase 3 document and agreed with the partner on way forward for the implementation of activities on river bank protection in the Pendjari Basin (Benin). Unfortunately, PAGEV staff agenda didn't allow the implementation of activities for the implementation on the Demo project 3 in the Pendjari basin.
 - provided support to IUCN/PAGEV for the review of its 2010 and 2011 annual reports, 2011 and first quarter of 2012 work plans and budgets and the preparation of its consultative forums of communities in Togo, Ghana and Burkina Faso.



Figure 1: Participants to study and exchange visit to ORASECOM

22. Upon VBA request, the budget allocated for awareness raising campaigns on IRB management for stakeholders has been reallocated to support the organisation of VBA 2nd Technical forum extended to discussions on stakeholders involvement. Nevertheless, sensitization and awareness creation activities were conducted during various field visits: implementation of Demo 3 in Ghana and Côte d'Ivoire, Demo 1 in Burkina Faso and Mali and Demo 2 in Togo, IUCN/PAGEV activities in Ghana, Burkina Faso and Togo. IWRM, IRB management, transboundary water and associated environmental issues, agricultural practices, land and river bank degradation were discussed with stakeholders at the local and grassroots levels.
23. Furthermore, ToRs for the recruitment of consultants for a regional training on IWRM and international river basin management was prepared and advertised on UNOPS website. In response to discussions held during the midterm evaluation process, the organisation of the training is on hold pending mobilisation of additional funds for the successful implementation of the project.
24. During the reported period, a briefing note on the GEF Volta Project has been prepared by the PMU in collaboration with the VBA and used as basis for discussion during visits paid to Kfw, World Bank and American EPA headquarters by the regional project coordinator and the VBA Executive Director. Key issues discussed during these visits are additional financial support

requested for the implementation of demo projects, capacity building activities and also for the finalisation of VBA establishment.

25. Courtesy visits to Ghanaian Minister of Environment, Togo Ministers in charge of Water and Environment, Burkina Faso Water Director, Benin Water Director, Togo Water Director, Togo Environment Director and Benin Environment Policy Director. During these visits, key issues related to the Volta River Basin including the implementation of the GEF Volta Project and the operation of VBA were discussed and guidance provided by honourable ministers and national authorities met
26. In the framework of its communication strategy, radio and TV interviews were conducted during the PSC meeting in Togo and national TDA validation workshop in Côte d'Ivoire. The project information leaflets and brochures were distributed to countries, partners and during different meetings. Key project reports were translated into French/English and posted on the website and shared with partners. Terms of reference for the preparation of a documentary on the Volta River Basin was prepared and shared with identified/recommended producers and quotations received
27. The population of the VB-ISS is ongoing. This is currently being done in coordination with VB Observatory based on information and Meta data available at the observatory (including those received from countries). During a coordination mission undertaken at the VBA Office in September 2011 by the PMU with the support of UNEP DEWA, it was agreed to migrate the VB-ISS system that was previously installed and configured in UNEP-Nairobi directly to the French-hosted server, making it accessible on the Internet.
28. The VB ISS data set hosted by UNEP DEWA has therefore been migrated to the VBA server host and, the procurement of the ArcGIS software and associated accessories put on hold due to compatibility issues with the Clearinghouse Mechanism adopted. Also the Volta Basin data portal page was developed and linked with the VBA web page and this will be the point of access for all data portal related to Volta Basin.

Table 2 - Status of implementation activities corresponding to Specific Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
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, PTF, NFP, NIC, Inception report, etc³</i> ○ Training/update of PMU staff on UNOPS procedures, rules and regulation 	Completed	<ul style="list-style-type: none"> • The PMU is fully functional and executing the project in close collaboration with the Volta Basin Authority and with the support of key institutions/partners (National Focal Points, UNEP/DGEF, UNOPS KEOC) 	<ul style="list-style-type: none"> • N/A
	<ul style="list-style-type: none"> ○ Training/update of PMU staff on UNOPS procedures, rules and regulation 	Completed	<ul style="list-style-type: none"> • Project staff regularly updated on new/revised UNOPS procedures, rules and regulations 	<ul style="list-style-type: none"> • N/A
A1.1.2.	<ul style="list-style-type: none"> • <i>Develop and implement project monitoring and evaluation plan</i> ○ Update the M&E plan (including stress reduction indicators) and submit it to the PSC ○ Pay courtesy visits to national authorities (Ministers in charge of water and environment) and update them on the project implementation 	Ongoing	<ul style="list-style-type: none"> • Key project indicators discussed during in the midterm evaluation. Final decision will be taken after validation of the midterm evaluation recommendations by UNEP and its submission to the PSC for approval 	<ul style="list-style-type: none"> • N/A
	<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 	Continuous	<ul style="list-style-type: none"> • Courtesy visits to Ghanaian Minister of Environment, Togo Ministers in charge of Water and Environment, Burkina Faso Water Director, Benin Water Director, Togo Water Director, Togo Environment Director and Benin Environment Policy Director. During these visits key issues related to the Volta River Basin including the implementation of the GEF Volta Project and the operation of VBA were discussed and guidance provided by honourable ministers and national authorities met 	<ul style="list-style-type: none"> • 100% completed as per 2011 work plan

³ Front style for activities completed: italic

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> ○ Implement the M&E plan ○ Conduct the project mid-term evaluation and submit the report to the PSC ○ Organise the 3rd PSC meeting 	<p>Continuous</p> <p>Completed</p> <p>Completed</p>	<ul style="list-style-type: none"> • The M&E plan is used by the PMU to monitor the project work plan and achievement through the tracking of key indicators • Project midterm evaluation completed as planned. • 3rd PSC held in Lome Togo in April 2011 	<ul style="list-style-type: none"> • 100% completed as per 2011 work plan • N/A • N/A
A1.1.3.	<ul style="list-style-type: none"> • Identify linkages with other partners, develop and implement collaboration plan (including collaboration framework with the VBA) ○ Support VBA for the editing and dissemination of its Strategic plan ○ Contribute to VBA coordination meeting with ongoing/planned initiatives ○ Implement joint activities with IUCN/PAGEV in Togo; Burkina Faso, Benin and Ghana: river bank protection, regulation of fishery activities, trainings, etc ○ Prepare and sign a collaboration agreement with SIAAP for the implementation of the Demo Project 2 in Togo 	<p>Completed</p> <p>Continuous</p> <p>Continuous</p> <p>Completed</p>	<ul style="list-style-type: none"> • Abridged version of the VBA Strategic plan prepared and translated into French. Proposed design has been discussed and agreed upon with the VBA. Printing company selected on competitive basis and selection report approved by UNOPS KEOC. Printing completed • The project fully supported the VBA for the organisation of its second technical forum involving major VBA partners and stakeholders both at regional, national and local levels. • IUCN/PAGEV and PMU agreed on way forward for the implementation of activities on river bank protection in the Pendjari Basin (Benin). • Support provided to IUCN/PAGEV for the preparation of PAGEV 3 • MOA drafted by the PMU, reviewed by SIAAP and national partners (Togo), shared with UNEP for non-objection, signed by UNOPS KEOC and SIAAP and its implementation is ongoing as planned 	<ul style="list-style-type: none"> • 100% completed as per 2011 work plan • 100% completed as per 2011 work plan • Upon UNEP DGEF and PSC members decisions, activities were on hold until the completion of the midterm evaluation • N/A

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> ○ Participate in IUCN/PAGEV, MCA Burkina Faso, GWP West Africa steering committees meetings and other key workshops ○ Participate in VBA and Volta Basin Observatory meetings and workshops ○ <i>Support in collaboration with IUCN PAGEV, the VBA for a Study and Exchange visit to ORASECOM (Orange-Senqu River Commission) in Pretoria (South Africa)</i> ○ Establish 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. 	<p>Continuous</p> <p>Continuous</p> <p>Completed</p> <p>Continuous</p>	<ul style="list-style-type: none"> • Participation in: i-) IW leadership Training workshop in Stockholm attended by the Regional Project Coordinator (6-10 May 2011), ii-) the Regional Workshop to strengthen AFO Environment Portfolio in Dakar (6-10 June 2011), iii-) IUCN PAGEV 11th and 12th steering committee meetings held in Ouagadougou (Burkina Faso in February and December 2011) and, iv-) the 6th GEF Biennial International Waters Conference held in Dubrovnik, Croatia in October 2011 • Contribution to the preparation and participation in: i-) the 3rd VBA ground water workshop and ii-) the first VBA workshop on water related diseases held in Benin in August 2011 • Support provided by the GEF Volta Project and IUCN/PAGEV to VBA for the preparation and organisation of a Study and Exchange visit to ORASECOM (Orange-Senqu River Commission) in Pretoria (South Africa) • During the reported period, a briefing note on the GEF Volta Project has been prepared by the PMU in collaboration with the VBA and used as basis for discussion during visits paid to Kfw, World Bank and American EPA headquarters by the regional project coordinator and the VBA Executive Director. Key issues discussed during these visits are additional financial support requested for the implementation of demo projects, capacity building activities and also for the finalisation of VBA establishment. 	<ul style="list-style-type: none"> • 100% completed as per 2011 work plan • 100% completed as per 2011 work plan • N/A • Mission report prepared and shared with UNEP DGEF and UNOPS KEOC.
A1.1.4.	<ul style="list-style-type: none"> • Carry out project reports (PIR and annual report, monthly brief, study reports) 	Continuous	<ul style="list-style-type: none"> • Annual report (2011), quarterly reports, 2012 work plan & budget and financial reports (annual and quarterly), PIR completed as planned and approved by UNEP/DGEF • Côte d'Ivoire National TDA report finalized • Draft TDA thematic reports reviewed and updated by regional experts and regional TDA document drafter and under review 	<ul style="list-style-type: none"> • N/A
A1.1.5.	<ul style="list-style-type: none"> • Document project implementation and 			

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>communicate results through publications, regional and internal reports, project newsletter and project website: <i>(just for the record)</i></p> <ul style="list-style-type: none"> ○ Synthesize all documentations on the project and produce communication products for all events related to transboundary water and associated environment issues ○ Participate in and present the project's results at major regional and international water conferences (e.g. 2nd Istanbul International Water Forum, GWP, PAGEV, VBA, ANBO and ECOWAS meetings/workshops) ○ Prepare and disseminate project's brochures, leaflets, etc ○ Organise radio and TV broadcasts ○ Prepare a documentary on the Volta River Basin 	<p>Continuous</p> <p>Continuous</p> <p>Continuous</p> <p>Continuous</p>	<ul style="list-style-type: none"> • Key project reports were shared with partners • Participation in IW LEARN workshop in Stockholm and in UNOPS AFO workshop in Dakar Senegal • Contribution to the preparation and participation in: i-) the 3rd VBA ground water workshop and ii-) the first VBA workshop on water related diseases held in Benin in August 2011 • Project leaflet and brochures have been disseminated during the reported period as planned • Radio and TV interviews held during the PSC meeting in Togo, national TDA validation workshop in Côte d'Ivoire • ToRs for the documentary drafted and shared with identified/recommended producers and quotations received 	<ul style="list-style-type: none"> • N/A • N/A • N/A • N/A • N/A
R1.2: Capacity & participation of stakeholders in VRB management strengthened				
A1.2.1.	<ul style="list-style-type: none"> • <i>Conduct training on TDA/SAP process for NFPs</i> 	Completed	<ul style="list-style-type: none"> • Activity completed in 2008 	<ul style="list-style-type: none"> • N/A
A1.2.2.	<ul style="list-style-type: none"> • Analysis of national institutions and stakeholders and preparation of stakeholders involvement plan ○ <i>Prepare the matrix of national institutions concerned by the management of the Volta</i> 	Completed	<ul style="list-style-type: none"> • Dissemination still going on 	<ul style="list-style-type: none"> • N/A

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p><i>Basin, analyse their mandates and capacities</i></p> <ul style="list-style-type: none"> ○ <i>Prepare and analyze the stakeholders matrix: main activities and mandates, links with the management of the Volta Basin, and capacities to address IRB issues</i> ○ <i>Identify training gaps and prioritise training needs of national institutions and stakeholders for IRB management</i> ○ <i>Develop national training plans for the training of personnel in the key institution</i> ○ Support the VBA for the development of stakeholders involvement plan in the framework of its Strategic Plan ○ Support in collaboration with PAGEV the establishment of pilot local committees in Benin and Togo, Ghana and Côte d'Ivoire (grassroots communities) in view of the establishment of national basin organisation ○ Support and co-organise the celebration of international water or environment events in riparian countries 	<p>Ongoing</p> <p>Ongoing</p> <p>Continuous</p>	<ul style="list-style-type: none"> • VBA regional, national and local stakeholders participated in its 2nd Technical forum fully supported by the GEF Volta Project. • TORs for the preparation of the VBA stakeholders' involvement plan finalised and consultant recruitment process completed. • IUCN/PAGEV and PMU agreed on way forward for the implementation of activities on river bank protection in the Pendjari Basin (Benin) • Establishment of local committee is ongoing through Demo project 3 in Côte d'Ivoire • Support provided to Togo Government for the celebration of the World water day 	<ul style="list-style-type: none"> • N/A • Delay due to political crisis in Cote d'Ivoire • 100% completed as per 2011 work plan
A1.2.3.	<ul style="list-style-type: none"> • Conduct training sessions and awareness raising campaigns for 			

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	national institutions and stakeholders on IWRM and IRB management <ul style="list-style-type: none"> ○ Prepare a training plan and raise additional funds through the GIZ division of Transboundary Water Management in Africa ○ Organise national training sessions on IRB management for personnel in the key institutions ○ Organise at national level, awareness raising campaigns on IRB management for stakeholders 	Completed On hold Completed	<ul style="list-style-type: none"> • Training issues discussed during courtesy visits paid to US EPA and World Bank and GEF IW headquarters • ToRs prepared for the recruitment of consultants for regional training on IWRM and international river basin management and advertised on UNOPS website. Based on the recommendations the training on hold • Upon VBA request, the budget allocated for this activity has been used to support the organisation of VBA 2nd Technical forum extended to discussions in stakeholders involvement. Nevertheless, sensitization and awareness creation activities were conducted during various field visits: implementation of Demo 3 in Ghana and Côte d'Ivoire, Demo 1 in Burkina Faso and Mali and Demo 2 in Togo, IUCN/PAGEV activities in Ghana, Burkina Faso and Togo 	<ul style="list-style-type: none"> • Outcomes of discussions summarized in the mission report prepared by the PMU • N/A • N/A
A1.2.4.	<ul style="list-style-type: none"> • <i>Conduct training sessions for national institutions on data management and monitoring and, clearinghouse system</i> 	Completed	<ul style="list-style-type: none"> • Training conducted in 2010 	<ul style="list-style-type: none"> • N/A
A1.2.5.	<ul style="list-style-type: none"> • Conduct training on SAP implementation at national and regional levels 		<ul style="list-style-type: none"> • Not planned for the reporting period. 	<ul style="list-style-type: none"> • N/A
R1.3: Knowledge based expanded & basin-wide communication mechanism in place				
A1.3.1.	<ul style="list-style-type: none"> • <i>Conduct study on data inventory and assessment, including data sharing mechanism, training gaps and training plan (Dissemination of studies reports)</i> 	Completed	<ul style="list-style-type: none"> • The reports (national and regional) of the study on data inventory and assessment, including data sharing mechanism, training gaps and training plan were disseminated during the reporting period and used as guideline/reference for the preparation of regional TDA reports and other studies conducted by various partners at national and regional levels 	<ul style="list-style-type: none"> • N/A
A1.3.2.	<ul style="list-style-type: none"> • Support and/or contribute to studies on the establishment of 			

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>the Volta Basin Observatory through database, data collection and data sharing protocol</p> <ul style="list-style-type: none"> ○ Contribute to thematic forums/trainings as per Volta Basin Observatory work plan ○ Contribute to the preparation of reference report on the VRB water and environmental resources status as per Volta Basin Observatory work plan ○ Participate to the Volta Basin Observatory steering committee meeting (and other key meetings if required) ○ <i>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</i> ○ Finalise and operate the Volta Basin Information Sharing System (VB-ISS) 	<p>Continuous</p> <p>Continuous</p> <p>Continuous</p> <p>Completed</p> <p>Continuous</p>	<ul style="list-style-type: none"> • Contribution to the preparation and participation in: i-) the 3rd VBA ground water workshop and ii-) the first VBA workshop on water related diseases held in Benin in August 2011 • Contribution to 2 key studies on the assessment of the basin's socioeconomic and environmental situation and analysis of the problem areas and issues regarding sustainable management of water resources • Participation in the VB Observatory steering committee meeting held in Ouagadougou in February 2011 • Completed in 2010 • The population of the VB-ISS is ongoing: the population is currently being done in coordination with VB Observatory based on information/Meta data available at the observatory (including those received from countries). The VB ISS data set hosted by UNEP DEWA has been migrated to the VBA server host. Also the Volta Basin data portal page was developed and linked with the VBA web page and this will be the point of access for all data portal related to Volta Basin. 	<ul style="list-style-type: none"> • 100% completed as per 2011 work plan • 100% completed as per 2011 work plan • 100% completed as per 2011 work plan • N/A • N/A
A1.3.3.	<ul style="list-style-type: none"> • Organize one scientific workshop in collaboration with key partners (UNESCO, GTZ, GLOWA, 		<ul style="list-style-type: none"> • Not planned for the reported period 	<ul style="list-style-type: none"> • N/A

Outputs / Results corresponding to Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	WASCAL, etc.)			
	<ul style="list-style-type: none"> ○ Prepare a concept note on the workshop, establish contact and share it with selected partners and potential donors 		<ul style="list-style-type: none"> ● Not planned for the reported period 	<ul style="list-style-type: none"> ● N/A
A1.3.4.	<ul style="list-style-type: none"> ● Develop and update project website 	Continuous	<ul style="list-style-type: none"> ● Project website regularly updated 	<ul style="list-style-type: none"> ● N/A

2.1.2 Status of implementation activities corresponding to Specific Objective n° 2

29. The specific objective 2 of the project aims to finalize and agree on a geographically specific, quantitative TDA and contribute to the development of Strategic Action Programme (SAP) and Action Plan for the National Part of the VRB (APNP-VRB) that address issues of priority transboundary concerns. A transboundary diagnostic analysis is an important tool/approach that GEF has adopted towards the development of a Strategic Action Programme.
30. TDA is a scientific-technical baseline document, which provides a foundation of common understanding for the development of future planning and prioritization processes, such as the Strategic Action Programme. The analysis is carried out in a cross sectoral manner, focusing on transboundary problems without ignoring national concerns and priorities. In order to make the analysis more effective and sustainable it should include a detailed 'governance analysis' which considers the local institutional, legal and policy environment.
31. The year 2011 was dedicated to the finalisation of the Transboundary Diagnostic Analysis document of the Volta River Basin both at national and regional level. Côte d'Ivoire National TDA report finalized and validated during the reported period and national TDA documents were edited by the PMU, used by TDA regional consultants for the preparation of their reports and also shared with major stakeholders involved in the sustainable management of water and associated environmental resources of the basin.
32. The Project Steering Committee was updated on the status on the TDA process during its 3rd meeting held in Lomé Togo in April 2011. As follow up on the outcomes of the causal chain analysis workshop, outlines and guidelines of regional TDA document (including thematic reports) and TDA process work plan were updated, shared with UNEP and VBA, and discussed with regional experts during a TDA regional experts meeting held in Ouagadougou Burkina Faso in April 2011. Other outputs of the meeting are:
 - Review priority transboundary problems identified during the CCA workshop based on UNEP comments
 - Data gaps and potential sources of additional information discussed
 - Discussion conducted on governance (policies, legislation, regulatory and institutional frameworks), socio-economic values
33. Thematic reports on basin water resources, ecosystems, governance analysis and economic status were prepared by TDA regional experts, reviewed and commented by the PMU and a TDA Team Leader hired in July 2011 after his induction mission. Thematic reports were updated with long delays affecting the overall process mainly the validation of the regional TDA and the launching of the SAP process both at national and regional level. The reasons for the delays vary from one consultant to another: non-existence and/or difficult access to relevant data and information, weak commitment, unavailability, etc. This has been addressed by the PMU strongly supported by UNEP Task Manager, VBA and UNOPS KEOC authorities.
34. The updated thematic reports as well as national TDA documents and other documents of interest gathered by the PMU have been used by the TDA Team Leader to produce the first draft of the regional Volta Basin TDA document which has been updated after its review by the PMU, VBA, UDC and UNEP. Due the long delay in TDA finalisation, budget constraints and as recommended by the project midterm evaluation consultants, TDA validation workshop will be organised by the end of 2012 first quarter together with the regional SAP planning workshop.
35. Although the delay in finalising the regional TDA has harmed the SAP process, transboundary issues to be addressed by the SAP were discussed during national/regional TDA meetings, workshops, and also by anticipation in regional TDA documents (including thematic reports) to be submitted to stakeholders for validation by end of March 2012.
36. Despite the unfortunate delay in TDA finalisation, which is beyond the control of the PMU, UNEP

and VBA as well, TORs for the recruitment for the developmental the SAP and APNP-VRB consultants and associated budget and work plan were reviewed/updated by the PMU and discussed during TDA experts meetings and various discussions with UNEP, PSC Members, UDC and also during the midterm evaluation.

37. The PMU also started by anticipation the fundraising process for SAP and APNP-VRB by establishing contact and involving some donors/partners (American EPA, World Bank, GEF International Waters and Kfw). GEF IW was visited by the PMU and VBA and indicated its willingness to continue supporting water resources management activities in the Volta Basin through an envisaged phase 2 of the ongoing GEF Volta Project and therefore recommended the preparation of a concept note for phase 2 alongside TDA finalization and SAP development. To avoid a gap between the two phases, GEF IW also recommended that GEF Volta submit a concept note for the formulation of the phase 2 by mid-2012. This will allow a transitional period for the completion of administrative procedures.
38. Support was also provided to the VBA to raise additional funds for the implementation of its strategic plan. To that end, a mission was initiated to the World Bank (WB) headquarters in Washington as follow up of previous discussions between VBA and WB leading to the submission of a concept note for WB support to the implementation of VBA's strategic plan. The WB also proposed, as a basis for supporting the implementation of VBA strategic plan, that there should be an institutional audit to be funded and conducted by the bank in collaboration with the VBA and other key partners (including GEF Volta, IUCN, etc.). This includes the development of sustainable and more relevant VBA institutional framework both at regional and national levels, administrative and financial procedures. The WB also accepted in principle to support the VBA in the development of its water charter and the ratification process. The VBA will therefore have to provide detailed proposals for raising funds through WB Trust Funds. It has been suggested that after discussion with UNEP DGEF, the VBA and GEF Volta project jointly develop the proposal to be officially submitted by the basin organization.

Table 3 - Status of the implementation of activities corresponding to 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

Outputs / Results corresponding to 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				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
R2.1: VRB regional coordination mechanisms supported (Just for the record)				
A2.1.1.	<ul style="list-style-type: none"> Advocate at Ministerial level and through project meetings, workshops and reports, the importance of ratifying the basin convention (just for the record) 	Continuous	<ul style="list-style-type: none"> After ratification and deposition of Ratification Instruments by a total of four out of the six riparian countries (Benin, Burkina Faso, Ghana, Togo and Mali), the Convention on the Status of the Volta River and Establishment of the Volta Basin Authority came into force on 14 August 2009. 	<ul style="list-style-type: none"> Côte d'Ivoire is yet to ratify the convention
A2.1.2.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Review the preliminary TDA, identify gap and prepare detailed methodology for TDA finalisation and SAP/APNP-VRB development (Dissemination of study report) 	Completed	<ul style="list-style-type: none"> Completed in 2011. Report used by regional TDA team and other partners 	<ul style="list-style-type: none"> N/A
A2.2.2.	<ul style="list-style-type: none"> Organize starting regional/national workshops with national, regional and international institutions and stakeholders 	Completed	<ul style="list-style-type: none"> Completed in 2010 	<ul style="list-style-type: none"> N/A
A2.2.3.	<ul style="list-style-type: none"> Update and complete the TDA document including situation analysis and causal chain analysis <ul style="list-style-type: none"> Draft the regional TDA Document 	95% completed	<ul style="list-style-type: none"> Côte d'Ivoire National TDA report finalized Thematic reports drafted by the 4 regional TDA experts, reviewed by 	<ul style="list-style-type: none"> Delay in d in submission of updated thematic reports by the Water resources and Ecosystems

Outputs / Results corresponding to 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				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> ○ Translate national TDA reports into English/French ○ Organise 1or 2 regional experts meeting for the drafting the Volta Basin TDA ○ Finalise the regional TDA document and translate it into French 	<p>Completed</p> <p>Completed</p> <p>Pending</p>	<p>the PMU and TDA Team leaders and re-updated.</p> <ul style="list-style-type: none"> • Regional TDA document drafted, reviewed by VBA, PMU and UDC and updated by the TDA Team Leader • Online translation of national TDA documents carried out in view of their utilisation by regional TDA consultants <ul style="list-style-type: none"> • TDA regional experts meeting held in Ouagadougou Burkina Faso in April 2011. During the meeting, guidelines and outlines of regional reports were discussed with TDA regional experts and updated, thematic reports were reviewed and experts were supposed to update their reports by 30 April 2011, priority transboundary problems identified during the CCA workshop were also discussed. Induction mission was undertaken by the new TDA Team Leader • Pending TDA finalisation 	<p>experts.</p> <ul style="list-style-type: none"> • N/A • N/A • N/A
A2.2.4.	<ul style="list-style-type: none"> • Organize regional validation workshop with national, regional and international institutions and stakeholders 	Postponed	<ul style="list-style-type: none"> • National TDA Validation workshop organised in Côte d'Ivoire and national TDA report finalised by the consultants based on the discussions of the validation workshop • TDA Regional Validation workshop postponed to the 1st quarter of 2012 	<ul style="list-style-type: none"> • N/A
A2.2.5.	<ul style="list-style-type: none"> • Submit the TDA document to the PSC and VBA for approval 	Postponed	<ul style="list-style-type: none"> • Pending TDA regional validation 	<ul style="list-style-type: none"> • N/A
A2.2.6.	<ul style="list-style-type: none"> • Disseminate national/regional TDA reports and causal chain analysis workshop report 	Postponed	<ul style="list-style-type: none"> • Pending TDA finalisation 	<ul style="list-style-type: none"> • N/A
R2.3: Action Plans for the National Parts of the VRB (APNP-VRB) developed				
A2.3.1.	<ul style="list-style-type: none"> • Organize 6 workshops at country level (with national institutions and stakeholders) as input to the APNP-VRBs elaboration 		<ul style="list-style-type: none"> • Not planned for the reported period 	<ul style="list-style-type: none"> • N/A
A2.3.2.	<ul style="list-style-type: none"> • Prepare the National Action Plans documents, including 		<ul style="list-style-type: none"> • Not planned for the reported period 	<ul style="list-style-type: none"> • N/A

Outputs / Results corresponding to 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				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	APNP-VRBs implementation guideline, monitoring & evaluation system for APNP-VRBs implementation, long term financing strategy for the APNP-VRBs			
A2.3.3.	<ul style="list-style-type: none"> Organize APNP-VRB validation workshops in each riparian country 		<ul style="list-style-type: none"> Not planned for the reported period 	<ul style="list-style-type: none"> N/A
A2.3.4.	<ul style="list-style-type: none"> Submit APNP-VRB document to national authorities for endorsement 		<ul style="list-style-type: none"> Not planned for the reported period 	<ul style="list-style-type: none"> N/A
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 Update the work plan for SAP preparation Finalise TORs and contract the SAP team Organise SAP regional inception workshop 	<p>Completed</p> <p>Ongoing</p> <p>Postponed</p>	<ul style="list-style-type: none"> TORs and work plan discussed during TDA experts meetings and various discussions with UNEP, PSC Members, UDC and also during the midterm evaluation TORs finalised. SAP Team will be hired after TDA finalisation Pending TDA finalisation. This will be organised as back to back workshops with TDA validation 	<ul style="list-style-type: none"> N/A 40% of activities planned for 2011 completed N/A
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 	Ongoing	<ul style="list-style-type: none"> Transboundary issues to be addressed by the SAP discussed during TDA and other project meetings and workshops 	<ul style="list-style-type: none"> N/A

Outputs / Results corresponding to 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				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
A2.4.3.	<ul style="list-style-type: none"> Organize validation regional workshop with national, regional and international institutions and stakeholders 		<ul style="list-style-type: none"> Not planned for the reported period 	<ul style="list-style-type: none"> N/A
A2.4.4.	<ul style="list-style-type: none"> Submit the SAP document to: i-) the Steering Committee for approval and, ii-) the Ministers in charge of Water and Environment for the endorsement of the SAP document (ideally in conjunction with VBA Ministerial meeting) 		<ul style="list-style-type: none"> Not planned for the reported period 	<ul style="list-style-type: none"> N/A
A2.4.5.	<ul style="list-style-type: none"> Start the fundraising process by establishing contact and involving some donors/partners in the TDA/Sap process: American EPA, World Bank, African Water Facility, BOAD, etc 	Ongoing	<ul style="list-style-type: none"> SAP implementation discussed during fundraising meetings with potential donors mainly: US EPA, USAID, World Bank, GEF IW 	<ul style="list-style-type: none"> 100% of activities planned for 2011 completed

2.1.3 Status of the implementation of activities corresponding to Specific Objective n° 3

39. Three demo projects were selected and developed during the overall project preparation. The 3 demo project documents were updated in 2008 taking into account recent development in the proposed demo project areas, especially: i-) equipment 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-) restoring and protecting the river beds of the Black Volta River (Côte d'Ivoire & Ghana) and its tributaries through participative campaigns of reforestation (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.
40. The inception report (including revised budget) of the **Demo project 1** was prepared by National partners in Mali, reviewed by the PMU and validated by Demo project steering committee members. National Partners in Mali have installed hydro-meteorological equipments and collection of data needed to run the hydrological model is ongoing in the 2 countries as planned and agreed with Volta HYCOS and national partners.
41. According to MCA Burkina Faso partners, the adaptation of the hydrological HEC RAS model to the basin area for flood forecasting including management, rehabilitation and management of the Lery Dam has been completed. Testing of the model is ongoing and due to delay in the submission of the study report by the consultant appointed by the MCA, Burkina Faso government was not able share the first results with key partners and organise training for partners from Mali and Burkina Faso as planned. A coordination meeting involving the 2 national directorates, MCA Burkina Faso and the PMU was organised in Ouagadougou in September 2011.
42. MCA Burkina Faso seems reluctant to share information about the model and first results of its testing. Partners from Mali raised several concerns in that regard. During a support mission, the PMU and national partners in Mali agreed on the following:
 - conduct bathymetric measurements in the national part of the basin
 - carry out a study on the relation flooding, inundations, water level in the Lery Dam and water level in the lake depending on the period,
 - carry out a study on potential floods and inundations scenarios and management strategy.
43. Outcomes of these 2 studies will be combined with local stakeholders (mainly farmers and fishermen) knowledge to develop a basic but functional early warning system that could be used anticipate floods/inundations and mitigate their socio-economic consequences and environmental impacts.
44. In the meantime, the project will contribute to the establishment of the bilateral committee, including the preparation of protocol or accord for the joint management of the basin. Also, the 2 countries will pursue the collection and management of hydro-meteorological data in the framework of the Volta HYCOS Project.
45. **With regard to the Demo Project 2**, MOA was drafted by the PMU, reviewed by SIAAP and national partners (Togo), shared with UNEP for non-objection, and signed by UNOPS KEOC and SIAAP.
46. The construction of the wastewater network initially planned (about 5000 linear meters) in Ewawu area (Kara, Togo) and funded by the SIAAP has been completed during the reported period. Study for the construction of the additional collector linking the network to the treatment plant was launched and is ongoing as planned.
47. The report of the study on the appropriate technology for the construction of the small scale treatment plant and its connection to the network in Ewawu area has been reviewed and validated by SIAAP, the GEF Volta Project and Kara Municipality. This includes the review of scenarios and the selection of the appropriate scenario based on the specific context of Kara city.

48. As result of the coordination and planning meeting held in Ouagadougou during the first quarter of the year with SIAAP, Kara Municipality and the NGO Eau vive, the study for the construction of the treatment plant was launched and is ongoing based on the 2 options envisaged: i-) option A is for the construction of the plant at the confluence with Kara River, ii-) option B is for the construction of small scale treatments plants and the outlet of the 3 tertiary wastewater networks. Also, the environmental impacts assessment and the feasibility study for the connection of mosques, schools, restaurants and other major public/privates institutions to the network were completed and the reports are available.
49. Kara Municipality organised several sensitisation and awareness creation activities mainly in the framework of the resettlement and water and environmental sanitation issues were addressed during this exercise.
50. With regard to the development of a code of conduct on fishery activity on the Pendjari River, discussions are ongoing with key partners pending go ahead from UNEP and also based on the recommendations of the midterm evaluation. The GEF Volta Project had a working session with UNOPS WAP colleagues to prepare a concrete road map including roles and responsibilities and agree on way forward.
51. The joint field visit GEF Volta IUCN/PAGEV to the Pendjari river Basin in Benin and Burkina Faso was initially delayed due to unavailability of IUCN/PAGEV partners and cancelled as per comments and recommendations from the MTE. Nevertheless, several discussions were conducted with national partners in Benin to agree on specific expected outcomes, activities to be conducted and institutional framework. The logframe of the proposed Demo project and TORs for the recruitment of a national consultant in view of the development of the project proposal have been prepared.
52. As for the **Demo project 3**, the PMU is yet to receive updated project stress reduction indicators, work plan and budget but the other activities are ongoing as planned. Project Management Structures established in the 2 countries are functioning while administrative assistance/support appointment still pending in Cote d'Ivoire. A Joint Water Resources Commission/Ministry of Environment/GEF-Volta Project monitoring mission was organised to support project implementation in Ghana. Also Project implementation activities assigned to partners' are ongoing as per work plan following the community entry phase.
53. Support was provided to national institutions for a better understanding of key issues addressed by Demo 3. Several consultative meetings and discussions were organised in demo side (Ghana) and nurseries established in Ghana side for subsequent planting in view of river bank protection (about 15000 seedling of different species as at reporting period).
54. Discussions were held with Côte d'Ivoire partners on project implementation which is picking up following the resolution of the political crises in the country. Also, trainings, awareness creation and reforestation activities were conducted and according to information received from national partners 12 000 seedlings were raised during the reported period.



Figure 2 : Training of local stakeholders on how to conducting staking activities (Demo Project 3, Sangabili Côte d'Ivoire)



Figure 3: Awareness cration campaign (Demo Project 3, Bandolé Côte d'Ivoire)

55. A briefing note on the GEF Volta Project (including financial needs) was prepared by the PMU and shared with potential donors met during a fundraising campaign undertaken in collaboration with VBA.
56. From discussions with KfW, it appears that KfW is only interested in investment projects, mainly the Demo project on waste water treatment plant in Kara, the planned demo project in the downstream area between Ghana and Togo and reforestation project in Benin, Ghana and Côte d'Ivoire by linking it with climate change. One of its key requirements is the size of the investment. Small scale investments are not funded by Kfw and unlike other donors such as SIDA, CIDA and DANIDA. For investments of more than 5 million Euros, Kfw is ready to contribute to project investment activities during the ongoing phase or during the SAP implementation.
57. US EPA was particularly interested in the 3 demo projects but could not make any commitment due to ongoing financial crisis. Nevertheless, US Embassy in Ghana and USAID Regional Office for West Africa were contacted. The PMU had 2 working meetings with the representatives of these 2 institutions and discussions are ongoing mainly on demo 3 between Ghana and Côte d'Ivoire and its link with climate change and also Demo 1 between Burkina Faso and Mali.

Table 4 - Status of the implementation of activities corresponding to Specific Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
R3.1: 3 Demo project 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>) 	Completed	<ul style="list-style-type: none"> • Demo Project documents updated, validation workshops organised, final reports submitted by consultants and approved by the PMU and national partners and shared with the VBA and UNEP/DGEF • Final report for the review of the Demo Project 3 translated into French and shared with Côte d'Ivoire partners 	<ul style="list-style-type: none"> • N/A
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"> ○ Disseminate the DP inception report ○ Finalise the adaptation of the hydrological model (HEC RAS) to the project area and train national partners (activity funded by MCA Burkina Faso) ○ Reallocate the demo budget to allow bathymetric measurements in Mali 	Ongoing Completed Ongoing Completed	<ul style="list-style-type: none"> • Inception report prepared by National partners in Mali, reviewed by the PMU and dissemination ongoing • National Partners in Mali have installed hydro-meteorological equipments and collection of data needed to run the hydrological model is ongoing in the 2 countries • Adaptation of the hydrological HEC RAS model to the basin area has been completed. Testing of the model is ongoing. Due to delay in the submission of the study report by the consultant appointed by the MCA, Burkina Faso government was not able share the first results with key partners and organise training for partners from Mali and Burkina Faso as planned. A coordination meeting involving the 2 national directorates, MCA Burkina Faso and the PMU was organised in Ouagadougou in September. • Budget reallocated by national partners in Mali 	<ul style="list-style-type: none"> • N/A • Delay in testing the model by MCA Burkina Faso • MCA Burkina Faso seems reluctant to share information about the model and first results of its testing. • Delay in the submission the updated budget by national partners

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> ○ Implement the demo Project as per the 2011 work plan and budget 	Ongoing	<ul style="list-style-type: none"> • Despite the delays and challenges raised above, the Demo project activities are ongoing in the 2 countries as planned (see description in section 2.1.3). 	<ul style="list-style-type: none"> • N/A
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) ○ Validate the study on the appropriate technology for the construction of the small scale treatment plant and its connection to the network in Ewawu area ○ Prepare and sign MOA or collaboration agreement with SIAAP for the implementation of DP 2 in Togo ○ Finalise the construction of wastewater network in Ewawu area through SIAAP funding ○ Construct the small scale treatment plant ○ Connect mosques, schools, restaurants and other major public/privates institutions to the network 	<p>Completed</p> <p>Completed</p> <p>Completed</p> <p>Ongoing</p> <p>Ongoing</p>	<ul style="list-style-type: none"> • The report of the study on the appropriate technology for the construction of the small scale treatment plant and its connection to the network in Ewawu area has been reviewed and validated by SIAAP, the GEF Volta Project and Kara Municipality. • MOA drafted by the PMU, reviewed by SIAAP and national partners (Togo), shared with UNEP for non-objection, and signed by UNOPS KOEC and SIAAP. • The construction of the wastewater network initially planned (about 5000 linear meters) in Ewawu area (Kara, Togo) and funded by the SIAAP has been completed during the reported period. • Study for the construction of the additional collector linking the network to the treatment plant was launched and is ongoing as planned. • Environmental impacts assessment completed in April 2011 • Study for the construction of the treatment plant was launched and is ongoing based on the 2 options envisaged. Option A is for the construction of the plant at the confluence with Kara River. Option B is for the construction of small scale treatments plants and the outlet of the 3 tertiary wastewater networks • Feasibility study completed and report available 	<ul style="list-style-type: none"> • N/A • N/A • N/A • Kara Municipality is facing challenge to resettle inhabitants leaving along the river bank. As per results of the meeting held at SIAAP Office (Paris in May 2011) the option B will be envisaged if there is no solution by end of October/November 2011 • N/A

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<ul style="list-style-type: none"> ○ Organise awareness creation campaigns and sensitize Ewawu's inhabitants on Water and Environmental Sanitation issues ○ Organise a Joint field visit GEF Volta IUCN/PAGEV to the Pendjari river Basin in Benin and Burkina Faso ○ Support the governments of Benin and Burkina Faso for the development of a code of conduct on fishery activity on the Pendjari river ○ Prepare a new proposal for the extension of the IUCN/PAGEV activities on river bank protection to the upstream of the Pendjari river in Benin ○ Prepare and sign MOAs with Benin government and/or other implementing/executing agency ○ Organise starting workshop/discussion with national partners in Benin ○ Implement the demo Project as per the 2011 work plan and budget 	<ul style="list-style-type: none"> Continuous Cancelled Ongoing Ongoing Postponed Postponed Ongoing 	<ul style="list-style-type: none"> • Kara Municipality organised several sensitisation and awareness creation activities mainly in the framework of the resettlement and water and environmental sanitation issues were addressed during this exercise • Activity initially delayed due to unavailability of IUCN/PAGEV partners and cancelled as per comments and recommendations from the MTE • Discussions are ongoing with key partners pending go ahead from UNEP and also based on the recommendations of the midterm evaluation. The GEF Volta Project plans to have a working session with UNOPS WAP colleagues to prepare a concrete road map including role and responsibility and agree on way forward • Several discussions were conducted with national partners in Benin to agree on specific expected outcomes, activities to be conducted and institutional framework. The logframe (initial concept) of the proposed Demo project and TORs for the recruitment of a national consultant in view of the development of the project proposal have been prepared • Pending finalisation of Demo project brief • Pending finalisation of Demo project brief • Demo project activities in Togo are going as planned (see above) 	<ul style="list-style-type: none"> • N/A • N/A • N/A • Delay due to the fact that the PMU put this activity on hold pending UNEP go ahead, comments and recommendations from the MTE • N/A • N/A • See above
A3.1.4.	<ul style="list-style-type: none"> • 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 			

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	<p>reforestation</p> <ul style="list-style-type: none"> ○ Organise the 1st bilateral meeting (Ghana – Côte d'Ivoire) and officially launch the DP ○ Update the project stress reduction indicators, work plan and budget ○ Implement the demo Project as per the work plan 	<p>Postponed</p> <p>On hold</p> <p>Ongoing</p>	<ul style="list-style-type: none"> • Postponed due to the political situation in Cote d'Ivoire • PMU is yet to receive updated project stress reduction indicators, work plan and budget • Demo project activities are ongoing as planned. Project Management Structures established in the 2 countries are functioning. Administrative assistance/support appointment still pending. Joint Water Resources Commission/Ministry of Environment/GEf-Volta Project monitoring mission organised to support project implementation in Ghana. Project implementation partners' activities are ongoing as per work plan following the community entry phase. Support provided to national institutions for a better understanding of key issues addressed by Demo 3. Several consultative meetings and discussions were organised in demo side (Ghana) and nurseries established in Ghana side for subsequent planting in view of river bank protection (about 15000 seedling of different species as at reporting period). • Discussion held with Côte d'Ivoire partners on project implementation. Project implementation is picking up following the resolution of the political crises in Côte d'Ivoire. Also, reforestation activities were conducted and according to information received from national partners 12 000 seedlings were raised during the reported period 	<ul style="list-style-type: none"> • The political situation in Côte d'Ivoire didn't allow the organisation of the 1st bilateral meeting and key field visits as planned. N/A • Delay in submitting inception report by the Ghana partner. • Delay in organising Project Steering Committee meetings. • Cote d'Ivoire partners expected to submit progress report and inception report.
A3.1.5.	<ul style="list-style-type: none"> • Prepare a concept note for the construction of a wastewater network and treatment plan in Keta (coastal downstream area of the Volta Basin - Ghana) and negotiate financing issues with KfW, US EPA and ADB 	Pending	<ul style="list-style-type: none"> • On hold pending UNEP go ahead 	<ul style="list-style-type: none"> • N/A
A3.1.6.	<ul style="list-style-type: none"> • Update the Demo Project on: Fresh groundwater storage and 	Pending	<ul style="list-style-type: none"> • On hold pending UNEP go ahead 	<ul style="list-style-type: none"> • N/A

Outputs / Results corresponding to Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin				
Code	Output/Service	Status	Description of work undertaken during the reporting period	Description of problems encountered; Issues that need to be addressed; Decisions/Actions taken or to be taken
	movement between SE Ghana and SW Togo and agronomic practices to safeguard the shallow freshwater lenses from salinisation			
A3.1.7.	<ul style="list-style-type: none"> Fundraising for the implementation of demo projects 	Ongoing	<ul style="list-style-type: none"> Potential donors contacted and discussions are ongoing. A briefing note on the Demo Projects has been prepared by the PMU in collaboration with the VBA and used as basis for discussion during visits paid to Kfw, World Bank and American EPA headquarters by the regional project coordinator and the VBA Executive Director. Additional financial support requested for the implementation of demo projects was largely discussed during the visits. 	<ul style="list-style-type: none"> N/A
A3.1.8.	<ul style="list-style-type: none"> Evaluate the implementation of the three Demo projects 	Completed	<ul style="list-style-type: none"> Midterm evaluation of the demo projects conducted during the midterm evaluation of the overall project. Report submitted by the consultant and comments provided by PMU, UNEP, UNOPS KEOC and VBA 	<ul style="list-style-type: none"> N/A
R3.2: Replication strategy for demonstration project developed and initiated				
A3.2.1.	<ul style="list-style-type: none"> Develop a plan for the replication of the Demo projects 		<ul style="list-style-type: none"> Not planned for the reporting period. 	N/A
A3.2.2.	<ul style="list-style-type: none"> Develop six national Demo projects based and TDA/SAP priorities 		<ul style="list-style-type: none"> Not planned for the reporting period. 	N/A
A3.2.3.	<ul style="list-style-type: none"> Submit the six national Demo projects to riparian countries for approval 		<ul style="list-style-type: none"> Not planned for the reporting period. 	N/A
A3.2.4.	<ul style="list-style-type: none"> Incorporate the replication plan in the SAP 		<ul style="list-style-type: none"> Not planned for the reporting period. 	N/A

2.2 Report on status of achievements of project objectives and outputs

58. Tables 5, 6 and 7 provide an overview of the status of achievement of the various project objectives and outputs as per the project logical framework.

Table 5 - Status of achievements of project outputs: Specific Objective 1

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB			
Outcome 1.1: Project Managed and coordinated to partners satisfaction	<ul style="list-style-type: none"> • Project management and co-ordination bodies established and functional 	<ul style="list-style-type: none"> • PMU and all project organs operational and effective 	<ul style="list-style-type: none"> • N/A
Outcome 1.2: Capacity & participation of stakeholders in VRB management strengthened	<ul style="list-style-type: none"> • Ministries of environment and water resources are both represented in the Project Steering Committee 	<ul style="list-style-type: none"> • For each riparian country, the ministries in charge of water and environment are participating in the project activities both at national and regional levels 	<ul style="list-style-type: none"> • N/A
	<ul style="list-style-type: none"> • All relevant stakeholders participate in project activities and have access to project reports, publications, database, etc 	<ul style="list-style-type: none"> • Key stakeholders identified, analysed and involvement plan drafted both at national and regional levels • Ongoing and planned initiatives reviewed and a collaboration plan proposed based on the links established with the UNEP/GEF Volta Project outputs. 	<ul style="list-style-type: none"> • Due to budget limitation for the implementation of its Strategic Plan, the VBA could not undertake the finalisation of the stakeholders plan as planned
	<ul style="list-style-type: none"> • Institutions have the capacity to manage and monitor data in support of the implementation of SAP and APNP-VRB, and provide coordinated data transfer to VBA observatory 	<ul style="list-style-type: none"> • Training needs identified and prioritised and training plans prepared both at the national and regional levels. • Inputs provided for the training of VBA National experts on IWRM process and International River Basin management • Local stakeholders in Burkina Faso, Ghana and Togo trained on IWRM process • Several trainings and workshops organised on IWRM and IRB management both at national level mainly by the VBA and other projects • Training needs of data hosting institutions identified and prioritised. National/Regional training plans prepared, shared with the Volta Basin Observatory, incorporated into its work plan for and national/regional partners trained on the Volta Basin Information Sharing system 	<ul style="list-style-type: none"> • N/A
	<ul style="list-style-type: none"> • Involvement of stakeholders in SAP and APNP-VRB process and roles detailed in SAP and APNP-VRB documents 	<ul style="list-style-type: none"> • Key stakeholders trained on TDA/SAP process • Plan for involving stakeholders in the TDA/SAP developed and incorporated in the methodology for TDA/SAP development • Stakeholders participated in national validation workshops for the foundational studies supporting the TDA/SAP process • Stakeholders participated in the regional/national TDA planning and national TDA validation workshops 	<ul style="list-style-type: none"> • N/A

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
Objective n° 1: Build capacity, improve knowledge, enhance stakeholders' involvement to support the effective management of the VRB			
	<ul style="list-style-type: none"> National institutions have the capacity to implement the SAP and APNP-VRB 	<ul style="list-style-type: none"> National institutions engaged in TDA and SAP processes and are positioned to implement the SAP (completed in 2008) National partners strongly involved in the TDA Process: finalisation of the TDA methodology and reports outlines, thematic meetings, planning and validation workshops 	<ul style="list-style-type: none"> N/A
Outcome 1.3: Knowledge base expanded & basin-wide communication mechanism in place	<ul style="list-style-type: none"> VBA database developed and updated at regional and national levels 	<ul style="list-style-type: none"> Volta Basin Information Sharing System (VB-ISS) developed with the support of UNEP/DEWA, discussed with VBA Observatory and used as reference for the training of national partners (March 2010) VB ISS migrated to the VBA server host and population ongoing as planned Procurement of server equipment to the VBA in support to the operation and population of the VB-ISS 	<ul style="list-style-type: none"> N/A
	<ul style="list-style-type: none"> Contributions to the establishment of regional Volta Basin Observatory completed and approved by the VBA 	<ul style="list-style-type: none"> Information related to existing Metadata categories & data hosting institutions updated during the TDA process, shared with VB Observatory and mechanism for the circulation of data and information at national and regional levels discussed with partners during the training on VB ISS. Different national and regional thematic maps of the Volta River Basin prepared and shared with project partners. The PMU has also participated in and contributed to different coordination meetings for the Observatory organised by the VBA 	<ul style="list-style-type: none"> N/A
	<ul style="list-style-type: none"> At least 2 thematic studies carried out 	<ul style="list-style-type: none"> As result of coordination discussions undertaken with the VBA and the EU Volta project, it has been decided to develop the hydrological model and carry out the thematic studies through the implementation of the EU Volta Project and also in framework of the Volta Basin Observatory activities 	<ul style="list-style-type: none"> This is no more part of project's expected outcomes

Table 6 - Status of achievements of project outputs: Specific Objective 2

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
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			
Outcome 2.1: VRB regional coordination mechanisms supported	<ul style="list-style-type: none"> • VRB Convention into force 	<ul style="list-style-type: none"> • 5 countries (Benin, Burkina Faso, Ghana, Mali and Togo) have signed and deposited the Ratification document • Côte d'Ivoire yet to ratify the convention • The Volta Basin Convention entered into force on 14 August 2009 	<ul style="list-style-type: none"> • Côte d'Ivoire is yet to ratify the convention
Outcome 2.2: Transboundary Diagnostic Analysis (TDA) updated and finalised	<ul style="list-style-type: none"> • TDA revised, finalized and endorsed by the Project Steering committee 	<ul style="list-style-type: none"> • Note for GEF Volta TDA and SAP Process Implementation prepared and used as basis for the implementation of TDA activities • Detailed methodology, work plan and guidelines for TDA development and reports (national/regional) outlines finalised and discussed with key stakeholders • TDA national/regional teams established and functional • Draft National TDA reports submitted and reviewed by regional consultants and national partners • TDA Regional and national starting workshops organised in December 2009 and March 2010 and TDA national Validation workshops held in the 6 countries and national TDA reports finalised • Causal Chain Analysis Workshop in view of the Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin held in Akosombo, Ghana (31st August – 2nd September 2010) • 4 Regional TDA thematic report prepared • Regional TDA Document drafted 	<ul style="list-style-type: none"> • Delay due to inexistence or difficult access to relevant data, unavailability and/or weak commitment of some consultants, resignation of the regional TDA Team Leader
Outcome 2.3: Action Plans for the National Parts of the VRB (APNP-VRB) developed	<ul style="list-style-type: none"> • APNP-VRB finalised and endorsed at country level 	<ul style="list-style-type: none"> • Detailed methodology and work plan for APNP-VRB development completed and discussed with project partners during various TDA workshops 	<ul style="list-style-type: none"> • This is no more part of project's expected outcomes
	<ul style="list-style-type: none"> • Key inter-sectoral transboundary issues identified and plan for sectoral harmonisation developed with relevant sectors and agreed for inclusion in IWRM process 	<ul style="list-style-type: none"> • Methodology developed and reflects IWRM principles and process • National IWRM issues analyse through governance analysis during the TDA process 	<ul style="list-style-type: none"> • N/A



Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
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			
Outcome 2.4: Strategic Action Programme (SAP) prepared	<ul style="list-style-type: none"> • SAP drafted, finalized and endorsed at ministerial level (Water and Environment Ministers) 	<ul style="list-style-type: none"> • Detailed methodology and work plan for SAP development completed and discussed with project partners during various TDA workshops 	<ul style="list-style-type: none"> • N/A
	<ul style="list-style-type: none"> • Volta Basin Authority (VBA) adopts SAP into their work plan 	<ul style="list-style-type: none"> • The VBA has been involved in the establishment of TDA regional team, the establishment of methodology for TDA finalisation and SAP/APNP-VRB development, including TDA programming and CCA workshops. 	<ul style="list-style-type: none"> • N/A

Table 7 - Status of achievements of project outputs: Specific Objective 3

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin			
Outcome 3.1: 3 Demo Project successfully implemented	<ul style="list-style-type: none"> MOUs on Demo projects implementation signed with riparian countries by year 1 	<ul style="list-style-type: none"> MOA prepared and signed with the Government of Mali for the implementation of Demo 1 MOAs prepared and signed with the Governments of Côte d'Ivoire and for the implementation of Demo 3 Discussions finalised with MCA Burkina Faso for the implementation of the Demo 1 in Burkina Faso MOA prepared and signed with SIAAP for the implementation of the Demo 2 in Togo 	<ul style="list-style-type: none"> Protracted political situation in Côte d'Ivoire Difficult access to Demo 1 and Demo 3 sites
	<ul style="list-style-type: none"> Three Demo projects executed resulting in stress reduction (see demo logframe) by year 3 	<ul style="list-style-type: none"> Demo project activities launched in Mali (DP1) and, Côte d'Ivoire/Ghana (DP3): project bodies established and functional and inception phase ongoing Demo 1: <ul style="list-style-type: none"> Hydrometeorologic equipment installed in Mali and data collection ongoing in the 2 countries HEC-RAS model has been chosen as hydrological model for flood forecasting including management, rehabilitation and management of the Lery Dam Adaptation of the HEC RAS model to project area completed and testing in ongoing (delay in the submission of the study report by the consultant appointed by the MCA) Establishment of the bilateral committee: ongoing (IUCN) 	

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin			
		<ul style="list-style-type: none"> • Demo 2: <ul style="list-style-type: none"> ○ Construction of the wastewater network initially planned (about 5000 linear meter) in Ewawu area (Kara, Togo) completed ○ Study for the construction of the additional collector linking the network to the treatment plant was launched and is ongoing as planned. ○ Study on the appropriate technology for the construction of the small scale treatment plant and its connection to the network in Ewawu completed ○ Study for the construction of the treatment plant launched ○ Feasibility study for the connection of mosques, schools, restaurants and other major public/privates institutions to the network completed ○ Sensitisation and awareness creation activities conducted ○ Priority problems in the national part of the basin (Benin) identified and way forward discussed with stakeholders ○ Logframe and Tor for the development of a demo project in Benin prepared 	

Intervention logic	Objectively verifiable indicators	Status	Problems encountered, including action taken
Objective n° 3: Demonstrate national and regional measures to combat transboundary environmental degradation in the Volta Basin			
		<ul style="list-style-type: none"> • Demo 3: <ul style="list-style-type: none"> ○ Coordination meetings organised with national partners in Ghana and Côte d'Ivoire ○ Project Management Structures established in the 2 countries are functioning ○ Support provided to national institutions for a better understanding of key issues addressed by the Demo ○ Several consultative meetings and discussions organised in demo side (Ghana) ○ Inception phase launched in Ghana and Côte d'Ivoire and project partners mobilised for activities' implementation ○ Nurseries established in Ghana side for subsequent planting in view of river bank protection (about 15000 seedling of different species). ○ Reforestation activities conducted in Cote d'Ivoire (12 000 seedlings raised) 	
	<ul style="list-style-type: none"> • Lessons learned from the 3 Demo projects documented and incorporated in SAP and APNP-VRB documents by year 4 	<ul style="list-style-type: none"> • Not planned for the reporting period. 	<ul style="list-style-type: none"> • N/A
Outcome 3.2: Replication strategy for demonstration project developed and initiated	<ul style="list-style-type: none"> • Six national Demo projects are prepared to be submitted to co-funding partners 	<ul style="list-style-type: none"> • Not planned for the reporting period. 	<ul style="list-style-type: none"> • N/A

3. Report on changes/delays in project delivery and remedial action

59. Several coordination discussions were conducted with key project partners (VBA, IUCN/PAGEV, VB Observatory, MCA Burkina Faso, SIAAP and UNEP/DGEF mainly). Based upon these discussions, a number of responses to the coordination/harmonisation issues raised were agreed upon and recommendations made where applicable, including:

- Support edit, print and disseminate the abridged VBA strategic plan
- Development of hydrological model and thematic studies through the Volta Basin Observatory
- Implementation of the Demo Project 1 in Burkina Faso in the framework of the agreement signed by the Burkina Faso Government with the MCA
- Implementation of the Demo Project 2 in Togo through an MOA to be signed with SIAAP
- Adaptation of the Demo 2 to the stakeholders needs in Benin
- Additional resources to be sought for implementing the joint demonstration project Ghana-Togo on the preservation of coastal aquifers from salinisation, which was not included in the final project document

60. Further details on specific problems encountered, and action taken to solve them have been presented in sections 2.1 and 2.2. Nevertheless, the main bottleneck of the reporting period are due to:

- delay in the submission of reports by consultants and lack of coordination/ feedback from national partners on specific issues as presented in Section 2.1 and Tables 2, 3 and 4,
- Resignation of the TDA Team Leader: the PMU recruited a new Team Leader with the support of UNEP DGEF and VBA
- 2 TDA regional experts (water resources and ecosystems experts) could not complete their assignment. After several months' delay, a new ecosystems expert has been hired and the water resources thematic report prepared by the Regional Project Coordinator
- non mobilisation of national co-finance contribution (cash contribution) as pledged by Governments of riparian countries during the PDF-B phase and confirmed during the inception period,
- impacts of the political crisis in Côte d'Ivoire on the project's activities, mainly the TDA process and the Demo Project 3.

4. Financial report

61. The project budget has been reviewed and revised in June 2011 as follow up to discussion during the project midterm evaluation and the preparation of the PIR. The 2011 summary financial report is presented in Table 8. A detailed financial report has been prepared in EXCEL by the project and submitted in a separate report to UNEP/DGEF. The total amount spent during the year 2011 is 837 771.00\$ while the total revised budget for the same year was estimated at 1 123 122.00\$. The expenditure rate is therefore 74%; which is relatively acceptable
62. Salaries for project staff (personnel and administrative support) has exceeded the budget for 2 major reasons: i-) change in UN staff salaries scale during the course of the year, ii-) part of the following year salaries is captured in the last quarter of 2011 and will be reconciled during the first quarter of 2012.
63. Key points of concern are:
 - regional TDA consultants payment could not be fully captured in 2011 expenditures report: this is due to the delay in the finalisation of regional TDA reports and its implication on the validation process
 - the delay in TDA finalization has affected the overall financial planning and led to the postponement of other major activities: regional TDA validation, national/regional SAP workshops and payment of SAP and APNP-VRB consultants, etc.
 - delay in the submission of periodic financial reports by some national partners in the framework of the MOAs signed with riparian countries for the implementation of the project activities at the national level (including Demo Projects): UNOPS could therefore not make subsequent transfers as per the schedule
64. Also some expenditures like, consultant fee (including travel expenses) for the midterm evaluation are not captured in our financial report. This is due to the fact that the project midterm evaluation consultant has been hired and paid directly by implementing agency.
65. According to statistics presented in Table 9, countries have contributed during the reported period to project's activities for a total amount of 437 611 \$ of which 98% constitutes the in kind contribution. Also, co-finance contributions to project's activities up to 31 December 2011 are presented in Table 10:
 - 53% of the total amount pledged by Volta Basin countries has been mobilised during the last 4 years of the project implementation. This relatively low rate is due to challenges faced by national partners in honouring cash contributions
 - apart from the ECOWAS/EU project, the other project partners have shown high level of commitment
 - about 80% of the pledged contributions has been mobilised since the beginning of the project implementation.

Table 8 – Summary of project expenditures (2011 activities)

UNEP BUDGET LINE/OBJECT OF EXPENDITURE		2011 Budget (USD)	2011 Expenditures		Balance (USD)
			USD	%	
10	PROJECT PERSONNEL COMPONENT				
	1100 Project Personnel	311 377	312 198	100,26	-822
	1200 Consultants	201 250	145 364	72,23	55 886
	1300 Administrative support	21 795	27 083	124,26	-5 288
	1400 Volunteers	0	0		0
	1600 Travel on official business (PMU+Consultants)	50 357	36 048	71,58	14 309
	1999 Component Total	584 778	520 693	89,04	64 085
20	SUB-CONTRACT COMPONENT				
	2100 Sub-contracts (MoU's/LA's for UN agencies)	0	0		0
	2200 Sub-contracts (MoU's/LA's for non-profit organisations)	171 250	64 734	37,80	106 516
	2399 Sub-contracts (commercial purposes)	0	0		0
	2999 Component Total	171 250	64 734	37,80	106 516
30	TRAINING COMPONENT				
	3100 Fellowships	0	0		0
	3200 Group training	50 000	45 317	90,63	4 683
	3300 Meetings/conferences	156 000	79 333	50,85	76 667
	3999 Component Total	206 000	124 651	60,51	81 349
40	EQUIPMENT & PREMISES COMPONENT				
	4100 Expendable equipment	4 000	3 138	78,44	862
	4200 Non-expendable equipment	6 000	5 801	96,69	199
	4300 Premises	1 200	3 291	274,29	-2 091
	4999 Component Total	11 200	12 230	109,20	-1 030
50	MISCELLANEOUS COMPONENT				
	5100 Operation and maintenance of equip.	4 200	4 188	99,70	12
	5200 Reporting costs	30 000	21 371	71,24	8 629
	5300 Sundry (communications, postage,	7 500	9 723	129,64	-2 223
	5400 Hospitality and entertainment	0	0		0
	5500 Evaluation	25 000	12 569	50,28	12 431
	5999 Component Total	66 700	47 851	71,74	18 849
	TOTAL COSTS	1 039 928	770 159	74,06	269 770
	Project Execution Costs -UNOPS (8%)	83 194	61 613	74,06	21 582
	GRAND TOTAL COSTS	1 123 122	831 771	74,06	291 351

Table 9 – Summary of countries contribution to 2011 activities

Country	Amount pledged for the project (\$)	2011 contribution (\$)		
		Cash	In kind	Total
Benin	418 200	5 075	38 880	43 955
Burkina Faso	267 353	0	48 290	48 290
Côte d'Ivoire	915 000	4 000	123 320	123 320
Ghana	690 000	0	99 000	99 000
Mali	314 270	825	40 850	41 675
Togo	819 916	1 006	80 365	81 371
Total	3 424 739	10 906	430 705	437 611

Table 10 – Summary of countries and other partners' contribution up to 31 December 2011

Country/Partner	Amount pledged for the project (\$)	Total contribution (2008-2011)	
		\$	%
Country			
Benin	418 200	173 343	41
Burkina Faso	267 353	169 315	63
Côte d'Ivoire	915 000	472 130	52
Ghana	690 000	405 045	59
Mali	314 270	90 500	29
Togo	819 916	501 425	61
Total	3 424 739	1 811 757	53
Partner			
UNEP	60 000	60 000	100
Hungary	10 000	Not available	
Czech Rep.	50 000	Not available	
IUCN	620 000	2 160 591	348
ECOWAS/EU	1 962 500	276 226	14
SIAAP	471 000	911 256	193
MCA Burkina Faso		Not available	
Total	3 173 500	3 408 074	107
Grand Total	6 598 239	5 219 831	79



5. Annexes

5.1 Annex 1: Regional meetings held during the reporting period

N.	Meeting Type	Title	Venue	Date	Convened by	Organized by	No. of Participants	Report Issued as doc. No.	Language	Dated
1.	Project Steering Committee Meeting	Second Steering Committee Meeting of the UNEP/GEF Volta River Basin Project	Lomé Togo	7-8 April 2011	Minister in charge of water & Env.	GEF Volta Project/PMU	35	UNEP/GEF/Volta /PSC.3/2011	French and English	April 2011
2.	Coordination workshop	Demo 2 coordination discussions: SIAAP, PMU, Kara Municipality and Eau vive	Ouagadougou Burkina Faso	28-31 March 2011	SIAAP	SIAAP	11	Workshop report	French	April 2011
3.	Technical meeting	2 nd TDA regional experts meeting	Ouagadougou Burkina Faso	11-15 April 2011	PMU	GEF Volta Project/PMU	6	Mission report	French and English	April 2011
4.	Coordination meeting	Demo2 coordination meeting SIAAP, PMU and Eau vive	Paris France	May 2011	SIAAP	SIAAP	6	meeting report	French	May 2011
5.	Regional workshop	2 nd VBA Technical Forum	Ouagadougou Burkina Faso	26_28 July 2011	VBA	VBA/PMU	43	Workshop report	French and English	
6.	Validation workshop	Development of the Transboundary Diagnostic Analysis (TDA) of the Volta River Basin: National validation workshop Côte d'Ivoire	Abidjan Côte d'Ivoire	15 September 2011	PMU	National Partners	26	N/A	French	September 2011
7.	Coordination meeting	Coordination meeting with MCA Burkina Faso, DNH, DGRE (Implementation of Demo 1)	Ouagadougou Burkina Faso	September 2011	PMU	National Partners	8	Meeting report	French	September 2011
8.	Demo SC Meeting	Demo 3 SC meeting	Bole, Ghana	16 December 2011	National partners	National partners	30	Meeting report	French	December 2011

5.2 Annex 2: Publications/Reports of meetings produced during the reporting period

No	Type	Title	Author(s) / Editor(s)	Publisher	Publication Date
1.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: 2010 Annual report	Hubert Onibon	UNEP GEF Volta Project	janv-11
2.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Plan de travail et budget annuels (2011) – Traduction Française-	Hubert Onibon	UNEP GEF Volta Project	janv-11
3.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Rapport Annuel 2010 (traduit en Français)	Hubert Onibon	UNEP GEF Volta Project	janv-11
4.	Inception report	Projet de Démonstration 1 : Mécanisme d’alerte précoce d’annonce des crues fondé sur une meilleure connaissance du milieu physique du complexe Mouhoun-Sourou (BF-Mali) : Rapport de démarrage	Chaka Traoré	UNEP GEF Volta Project	janv-11
5.	Meeting report	Report of the 3rd Steering Committee Meeting of the UNEP/GEF Volta River Basin Project: Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area	Hubert Onibon and Olumide Akinsola	UNEP GEF Volta Project	avr-11
6.	Consultancy report	Analyse diagnostique transfrontalière du bassin versant de la Volta : Rapport thématique sur l’analyse du cadre économique	Oumar Fall	UNEP GEF Volta Project	sept-11
7.	Consultancy report	Analyse diagnostique transfrontalière du bassin versant de la Volta : Rapport thématique sur l’analyse de la gouvernance	Ousmane Diallo	UNEP GEF Volta Project	sept-11
8.	Fundraising	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Project’s presentation & financial needs	Hubert Onibon	UNEP GEF Volta Project	sept-11
9.	Consultancy report	Analyse Diagnostique Transfrontalière du bassin versant de la Volta : Rapport National Côte d’Ivoire (Rapport final)	GOULA Bi Tié Albert & EGNANKOU Wadja Mathieu	UNEP GEF Volta Project	Oct-11
10.	Consultancy report	Volta Basin Transboundary Diagnostic Analysis: Thematic report on the Water Resources Framework	Hubert Onibon and Yaw Opoku-Ankomah	UNEP GEF Volta Project	nov-11
11.	Consultancy report	Analyse diagnostique transfrontalière du bassin versant de la Volta : Rapport thématique sur l’analyse de l’écosystème du bassin	GUELLY Kudzo Atsu	UNEP GEF Volta Project	nov-11
12.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Revised work plan and budget (2012-2013)	Hubert Onibon	UNEP GEF Volta Project	déc-11
13.	PMU report	Addressing Transboundary Concerns in the Volta River Basin and its Downstream Coastal Area: Annual report (2011)	Hubert Onibon	UNEP GEF Volta Project	déc-11



No	Type	Title	Author(s) / Editor(s)	Publisher	Publication Date
14.	Consultancy report	Volta Basin Trans-boundary Diagnostic Analysis	Dennis Fenton	UNEP GEF Volta Project	déc-11

5.3 Annex 3: Other Key Outputs/Activities during the reporting period

No	Description
1.	Study and Exchange visit to ORASECOM (Orange-Senqu River Commission) in Pretoria (South Africa): 29 Jan – 6 Feb 2011
2.	Participation in IUCN PAGEV 11 th steering committee meeting held in Ouagadougou (Burkina Faso in February 2011)
3.	Participation in Volta Basin Observatory steering committee meeting held in Ouagadougou (Burkina Faso in February 2011)
4.	Participation in IW leadership Training workshop in Stockholm attended by the Regional Project Coordinator (6-10 May 2011)
5.	Participation in the Regional Workshop to strengthen AFO Environment Portfolio in Dakar (6-10 June 2011)
6.	Participation in the 3 rd VBA ground water workshop held in Benin in August 2011
7.	Participation in the first VBA workshop on water related diseases held in Benin in August 2011
8.	Participation in the 6 th GEF Biennial International Waters Conference held in Dubrovnik, Croatia in October 2011
9.	Participation in IUCN PAGEV 12 th steering committee meeting held in Ouagadougou (Burkina Faso in December 2011)

5.4 Annex 4: Sub-contracts issued during the reporting period

No.	Name of sub-contractors	Country	Objective of the contract
1.	Golden Beach Hotel	Togo	Provision of Lodging and Conference facilities for the 3 rd Steering Committee Meeting.
2.	COMMUNICATION 2000	Togo	Simultaneous French – English Interpretation and Equipment hire for the 3 rd Steering Committee Meeting.
3.	RANNANS translation services Ltd	Ghana	Translation of GEF Volta Basin Project 2010 Annual report and 3 rd PSC meeting report
4.	Tassie &Co.	Ghana	Translation of 2011 Workplan and Budget
5.	Mahamadou Sani Tapsoba	Burkina Faso	Simultaneous French – English Interpretation and Equipment hire for the VBA 2 nd Technical Forum.
6.	Joly Hotel	Burkina Faso	Provision of Lodging and Conference facilities for the the VBA 2 nd Technical Forum.
7.	Combert Impression	Ghana	Printing of Project Folders (English and French versions)
8.	Hallel Ventures	Ghana	Printing of VBA Strategic Plan (English version)
9.	Youlink ventures	Ghana	Provision of Toners for the PMU printers

5.5 Annex 5: Staffing details (personnel, experts, consultants)

No.	Name of expert	Nationality	Functional title
1.	Hubert Onibon	Benin	Regional Project Coordinator
2.	Olumide Akinsola	Nigeria	Science and Information Officer
3.	Abigail Sackar	Ghana	Administrative Assistant
4.	Angelika Quaye	Togo	Bilingual Secretary
5.	Daniel Malzbender	Germany	Regional Consultant for TDA development (Team Leader)
6.	Durphey Moses	Ghana	Regional Consultant for TDA development (Ecosystems Expert)
7.	Opoku Ankomah Yaw	Ghana	Regional Consultant for TDA development (Water Resources Expert)
8.	Ousmane Diallo	Burkina Faso	Regional Consultant for TDA development (Governance Expert)
9.	Fall Oumar	Mauritania	Regional Consultant for TDA development (Economist)
10.	Fatogoma Bamba	Mali	National Consultant for TDA
11.	Amadou Maiga	Mali	National TDA Ecosystem Expert
12.	Abdrahamane Deme	Mali	National TDA Governance Expert
13.	Albert Tonouhewa	Benin	National Consultant for TDA
14.	Ferdinand Claude Kidjo	Benin	National TDA Ecosystem Expert
15.	Abel Afouda	Benin	National TDA Governance Expert
16.	Jerôme Thiombiano	Burkina Faso	National TDA Consultant
17.	Rayaisson Louis Ouedraogo	Burkina Faso	National TDA Governance Expert
18.	Christian Armand Bere	Burkina Faso	National TDA Ecosystem Expert
19.	Wilson Agyei Agyare	Ghana	National TDA Consultant
20.	Bernadette Araba Adjei	Ghana	National TDA Ecosystem Expert
21.	Abrahams Ronald K	Ghana	National TDA Governance Expert
22.	Goué Appolinaire Iritié	Côte d'Ivoire	National TDA Consultant
23.	Albert Goula	Côte d'Ivoire	National TDA Governance Expert
24.	Wadja Mathieu Egnankou	Côte d'Ivoire	National TDA Ecosystem Expert
25.	Komla Sanda	Togo	National TDA Consultant
26.	Derman Assouma	Togo	National TDA Governance Expert
27.	Dennis William Fenton		Regional Consultant for TDA development (Team Leader)
28.	Atsu Kudzo Guelly	Togo	National TDA Ecosystem Expert