

# The National Wetlands Action Plan for the Philippines 2011-2016



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## **PART III THE NATIONAL WETLAND ACTION PLAN FOR THE PHILIPPINES (2011-2016)**

### **1. Guiding Principles**

This NWAPP is the guiding document for the Philippines to promote and implement strategies and actions for the conservation and wise use of its wetlands, incorporating urgent concerns such as biodiversity conservation and climate change mitigation and adaptation. The document provides a framework of strategies and actions for all concerned sectors of the society including government agencies, non-government organizations, business sector, small communities and indigenous people, for the management and wise use of wetlands and their resources for the enjoyment of their benefits by the present and future generations.

Box 3 "Wise Use" Defined

*Wise use is the maintenance of ecological character of a wetland, achieved through the implementation of ecosystem approaches, within the context of sustainable development.*

### **Overall Vision for Philippine Wetlands**

***Philippine wetlands are ecologically healthy and are able to provide products, functions and services for the equal benefit of people and nature.***

### **Vision for the NWAPP (2011-2016)**

***By 2016, priority wetlands in the Philippines are sustainably managed by empowered stakeholders based on a Management Plan that was formulated and implemented through a participatory manner.***

### **Mission Statement**

To provide an effective framework and integrating tool for the conservation and wise use of Philippine wetlands in support of the overall sustainable goals of the country.

### **Aim**

The NWAPP 2009-2015 serves as an effective framework and integrating tool for the conservation and wise use of Philippine wetlands in support of the overall sustainable development goals of the country.

## Objectives

- To harmonize and strictly enforce existing policies affecting the use of wetlands.
- To increase the awareness of key stakeholders on the importance of wetlands and effect a change in their behavior towards these ecosystems.
- To enhance the capacity of stakeholders so that they are more capable of implementing wetland conservation measures.
- To promote collaboration among stakeholders for effective wetland management; and
- To establish comprehensive monitoring systems to ensure that wetlands are conserved, well managed, and wisely used

## Thematic Areas and Goals

Setting the overall direction of the NWAPP are the General Strategies and the four thematic areas, which are the primary focus of interventions, and their supporting goals. They are the following:

### *General Strategies*

Goal: Sustainable utilization of wetlands in the Philippines.

### *Thematic Area 1: Wetlands Policy*

Goal: Clear policy on wetlands conservation including its wise use.

### *Thematic Area 2: Freshwater Wetlands*

Goal: Sustainable utilization of freshwater wetlands ecosystem

### *Thematic Area 3: Coastal and Marine Wetlands*

Goal: Sustainable utilization of coastal and marine ecosystems

### *Thematic Area 4: Enabling Strategies*

Goal: Increased awareness of key stakeholders on the importance of wetlands and increased capacity to implement wetland conservation measures.

## Outcomes

The overall outcome of the successful implementation of the NWAPP 2009-2015 is that wetlands in the country are ecologically intact and thus are able to provide products, functions and services for the benefit of the people and nature.

Specific outcomes will include the following:

- Wetlands in the country are ecologically healthy and continuously provide products, functions and services.
- Resilient and stable coastal and marine wetland ecosystems
- Resilient and stable freshwater wetland ecosystems
- Priority wetlands in the country are managed well and used wisely.

## **Strategic Approach**

The NWAPP is anchored on the building of a strong sense of ownership by the country's stakeholders and the establishment of collaborative partnerships and inclusion of the private sector and civil society. It will employ localized approach to management and community-based participation.

## **Core Values**

### Philippine Culture

- Show and support a diversity of individuals and organizations
- Reflect a diversity of perspectives
- Promote fair and open exchange among stakeholders and others in the field of sustainable development
- Reflect and support and respect the diversity of cultures in the country

### NWAPP 2011-2016 Core Principles

- Practice open and transparent governance and decision-making arrangements
- Operate within the financial and organizational capacity of the government agencies, its implementing partners, and stakeholders
- Employ progressive organizational development schemes for the NWAPP management
- Carry out environmental stewardship and sustainable practices

### NWAPP Standards of Practice

- Promote high professional standards
- Encourage networking and knowledge management, i.e. exchange of information, experience, and best practice
- Promote action research
- Form respectful, collaborative partnerships and share leadership

## **Ownership**

Ownership of the NWAPP is critical in the success of its implementation. The document is primarily a blueprint for strategies and actions for the conservation and wise use of wetlands

in the country that each sector or stakeholder can implement as they see fit and within their capacities.

### **Collaborative Partnerships**

The success of the NWAPP 2009-2010 is also largely dependent on the effective collaboration with partners at the national, regional, and local levels. These partnerships are to be driven by the DENR with support from the other concerned government agencies. Since the NWAPP was formulated jointly by key stakeholders, champions from the private sector and civil society, as well as from international organizations shall be tapped for the successful implementation of the NWAPP 2009-2015. This will entail joint activities and require continuous and effective information, education and communication dissemination activities for its successful implementation.

### **Linkages to Regional and International Initiatives**

The NWAPP will form linkages with and support regional and international initiatives in line with its implementation, in particular the Global and National Agenda 21, Convention on Biological Diversity, Ramsar Convention, Convention on Migratory Species, UN Framework Convention on Climate Change, UN Convention to Combat Desertification and Land Degradation, Convention on International Transport of Endangered Species, ASEAN Working Group on Nature Conservation and Biodiversity, ASEAN Working Group on Coastal and Marine Environment, and the ASEAN Working Group on Water, among others.

### **Strategic Action**

Strategies have been developed for each Thematic Area and goal. These actions took into consideration the following factors:

1. Existing structures, measures or mechanisms in place;
2. Perceived importance of need;
3. Availability of resources to implement the identified action; and
4. Potential of collaboration and cooperation with partners.

Activities required to implement each strategy have been listed followed by a timetable, the implementing partner/s (agencies or organizations) and the expected outputs. Output indicators are likewise identified for each of the strategic action to facilitate the effective monitoring and evaluation of plan implementation, its overall performance and impact.

## **Proposed Implementation Mechanism**

The key to the success of the NWAPP 2011-2012 depends on the effectiveness of the mechanisms in place for implementing the plan's strategic actions. Without these, the goals of the NWAPP cannot be realized.

In general, wetland-related concerns cut across the jurisdiction of several government agencies at the national, provincial and local level. The ideal set-up is that a National Wetlands Committee or a similar body should provide oversight functions for the implementation of the NWAPP. However, existing institutional arrangements have to be reviewed so that an appropriate body that can function optimally within this milieu can be constituted.

Currently, the lead mechanism to implement the country's sustainable development agenda is the Philippine Council for Sustainable Development or the PCSD. The PCSD has four major Committees namely: 1) Committee on Social and Economic Dimensions; 2) Committee on Strengthening the Role of Major Groups; 3) Committee on Means of Implementation; and 4) Committee on Conservation and Management of Resources for Development (CCMRD). The CCMRD is Chaired by the Department of Environment and Natural Resources (DENR) and is further categorized into four major areas of concern: 1) Sub-Committee on Biodiversity; 2) Sub-Committee on Water Resources; 3) Sub-Committee on Land Resources; and 4) Sub-Committee on Atmosphere.

Given the above existing structures, interim measures such as the creation of a Task Force or a Technical Working Group under the Sub-Committee on Biodiversity which is Chaired by the DENR-PAWB have to be instituted to ensure that the implementation of the NWAPP will be coordinated. This group can further explore the configuration and functions/responsibilities of a multi-sectoral group that will compose the National Wetlands Committee for recommendation to the DENR Secretary. The DENR Secretary, being Chair of the CCMRD can endorse this to the PCSD Executive Committee through a draft Executive Order which in turn the PCSD can recommend to the President.

The NWAPP Action Plan already identifies implementation partners at different levels. The tasks assigned to these various partners have been agreed on during the consultations and thus, should have been integrated in their agency's or organization's work plan. However, funding for these activities may not be adequate especially for those new activities that are actually additional tasks to their regular functions. Thus, there is a need to institutionalize the NWAPP, define its implementing mechanism, identify sources of funds, and set a monitoring, evaluation and reporting framework to ensure that the activities are implemented and the outcomes achieved.

## **Overview of the General Strategies of the NWAPP**

The next Section indicates the Action Plan that was identified under the following general strategies of the NWAPP:

- Review of existing land-use and management of wetlands
- Development of management plans for each of the identified priority wetlands
- Implementation of existing policies and recommended interventions
- Integration of Climate change mitigation and adaptation measures in relevant plans and programs
- Rehabilitate priority wetlands
- Increase community participation and involvement in coastal and marine wetland management
- Capacity-building of stakeholders
- Intensify Research and Development (site-based, per wetland type) for inventory and updating of resources and monitoring
- Promote ecotourism as a conservation strategy for wetlands
- Sustain national resource inventory/assessment of priority wetlands
- Establish critical habitats for threatened/endangered species Implement Climate Change mitigation and adaptation strategies
- Implement sustainable aquaculture practices in priority wetlands
- Improve coastal and marine law enforcement
- Develop, maintain and update a database of wetlands and make it accessible to assist in monitoring and decision-making
- Strengthen existing partnerships and establish new ones for the implementation of the NWAPP
- Adopt a criteria/mechanism for selecting, removing or maintaining priority areas
- Compile and organize information on Philippine Wetlands, including best practices, and make these accessible to stakeholders
- Prepare, adopt and Implement a Communication, Education, Participation, and Awareness (CEPA) Action Plan
- Develop and/or implement of innovative methods, tools and technologies for wetland management
- Establish an implementation mechanism that will ensure the success of the NWAPP.

### **2.0 Priority Wetlands in the NWAPP 2011-2016**

To optimize resources and achieve maximum impacts and outcomes from the activities in the NWAPP, priority wetlands for the period covered have been identified based on a set of criteria agreed upon during the TWG meetings and confirmed by the consultations. Annex A lists down priority coastal and marine wetlands as well as inland wetlands based on the criteria used for designating KBAs and the PBCP. Based on these criteria, the priority wetlands are:

### **Coastal and Marine Wetlands**

Candaba Swamp  
Lalaguna Marsh  
Naujan Lake  
Coron Lake  
Lake Maguao  
Puerto Princesa Subterranean River National Park  
Agusan Marsh Wildlife Sanctuary  
Lake Lanao  
Ligawasan Marsh

### **Inland/Freshwater Wetlands**

Batanes Islands Protected Landscape and Seascape  
Babuyan Islands  
Buguey Wetlands  
Manila Bay  
Pagbilao and Tayabas Bay  
Ragay Gulf  
Mactan, Kalawisan, Cansaga Bay  
Tubbataha Reef National Marine Park  
Polillo Island  
Caramoan Peninsula  
Puerto Galera  
Ursula Island  
Balabac Group of Islands  
Northwest Panay Peninsula Natural Park  
Olango Island  
Biliran and Maripipi Island  
Siargao Island Protected Land and Seascape  
Tawi –tawi Island  
Simunul and Manuk Manka Islands  
Sibutu and Tumindao Islands  
El Nido Managed Resource Protected Area  
Cabulao Bay  
Malampaya Sound  
Balayan Bay  
Talabong Island and Bais Bay  
Panguil Bay  
Ulugan Bay  
Inabanga Coast

During the Regional Consultations, additional wetland areas were recommended for inclusion in the priority list (*Annex B*). These, however, have to be subjected to a review using a set of criteria for a more rational setting of additional priorities. Moreover, during the integration workshop, another round of prioritization for the listing in *Annex A* was done based on the level of investment/attention being given to the wetland area. This is included in the report as *Annex C*.



### 3.0 The Action Plan (2011-2016)

#### Thematic Area 1: Wetlands Policy

**Outcome:** Wetlands in the country are ecologically intact and thus are able to provide products, functions and services.

**Overall Goal:** Clear policy on wetlands conservation including its wise use.

**Overall Objectives:** To streamline land use in wetlands based on strict enforcement of various laws affecting them.

**Indicators:** Maps produced, database created, policies revised/amended.

#### ACTION PLAN

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Strategy 1 Review of existing land use and management of wetlands</b>								
1.0 Inventory and Mapping of priority wetlands (PRS 92) – mapping to include watershed/river basin	3 High priority  Luzon-Candaba  V- Bais, N.O.  M –Agusan Marsh	Rest of the High and Medium priority	Remaining identified priority wetlands	PAWB, NAMRIA;	BSWM, BFAR, LMB, DENR ROs, NWRB, SCPW,	Inventory and Maps of Wetlands	Number of priority wetlands mapped	Copies of wetland maps
- Interagency formulation of mapping guidelines by DENR in consideration of seasonal	1 mapping guidelines formulated and approved		monitoring	PAWB, NAMRIA;	BSWM, BFAR, LMB, DENR ROs, SCPW	Mapping guidelines and institutionalization instrument, i.e. DAO	1 set of mapping guidelines	Copy of mapping guidelines and DAO

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
inundations to be classified as vulnerable, priority and intermittent wetlands, small islands, as well as tenure, claims of ownership and access issues								
- Prepare proposal indicating the cost and timetable	1 Proposal prepared, submitted and approved			PAWB, SCPW	TWG on Wetlands	1 Proposal submitted and approved	Number of proposals prepared and submitted	Copy of proposals and letters of submission, approval
- Create inventory oversight committee (to provide policy directions)	1 oversight Committee created			DENR-PAWB	DENR agencies	Oversight Committee	Number of Oversight Committee created	Directive on the creation of the Committee
- Establishment of a Unified and enhanced Geographical Information System maps and database for wetlands		1 GIS database created		PAWB, NAMRIA;	BSWM, BFAR, LMB, DENR ROs, SCPW	1 Unified and enhanced Geographical Information System maps and database established	Number of Unified and enhanced Geographical Information System maps and database established	Report; copies of maps

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
- Include in the unified database a sub-database of wetlands with tenurial instruments and fraudulent titles		Database on wetlands with tenurial instruments and fraudulent titles included in the Unified database		PAWB, NAMRIA;	BSWM, BFAR, LMB, DENR ROs, SCPW	Sub-database created in the Unified wetlands database	Number of sub-database established	Report
2.0 Review and Cancellation of fraudulent titles and inappropriate tenure instruments, and reversion of Fishpond Lease Agreements								
- Submission by BFAR of a listing of abandoned fishponds to DENR	List submitted by BFAR to DENR			BFAR, DENR		Listing of abandoned fishponds	Submission of List of abandoned fishponds	Communication transmitting the Listing with the actual listing.
- Implement moratorium on surveys until implementation of Joint DA DENR DILG AO No. 1 2008. (cancellation of fishponds AUU – abandoned, underdeveloped, undeveloped) ;	Moratorium implemented			DA, DENR, DILG	DENR-ICRMP Policy Study	Implementation of moratorium	Directive imposing the moratorium	Copy of the directive.

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
- Cancellation and/or reversion of fraudulent titles and lease agreements	20% of the list per region?	50% of the list per region?	30% of the list per region?	DA, DENR, LGU	BFAR, FMB, NWRB LMB/LMS, DILG/LGUs OSG	Fraudulent titles reviewed, cancelled or reversed.	Percentage of fraudulent titles reviewed, cancelled and/or reversed	Reports
- Prosecute those responsible for issuance of fraudulent titles		Filing of cases to (???)		DENR, DA, OSG		Cases filed against people who issued fraudulent titles.	Number of cases filed.	Reports and copies of cases filed.
- Formulate and adopt appropriate guidelines for tenurial instruments for mangrove areas declared as A&D both titled and untitled	1 set of guidelines formulated and approved.			DENR-ICRMP Policy Study		Guidelines formulated and adopted.	Set of guidelines formulated and approved.	Hard copy of guidelines and document approving them.
3.0 Strict implementation of water user's rules and regulations.				NWRB				
- Review and identify legal and illegal water users	All water users identified (legal or illegal)			NWRB		List of legal and illegal water users.	Listing of water users.	Report from NWRB with listing.
- Formulate and implement sanctions for illegal water user	Sanctions for illegal water users developed and	Sanctions for illegal water users implemented	Con't.	NWRB		Sanctions for illegal water users formulated, approved and	Approval of sanctions	DAO approving and implementing the sanctions;

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
	implemented.					implemented.		copy of the sanctions
4.0 Strict enforcement of Easement and buffer zone regulations								
- Implementation of PD705, Water Code, and other applicable laws, rules and regulations								
- Integrate easement and buffer prescriptions in the Building Permit process particularly in developments on or near wetlands	Easement and buffer prescriptions for developments in wetland areas integrated in the Building Permit process	Easement and buffer prescriptions for developments in wetland areas integrated in the Building Permit process		DENR, LGUs		Revised Building Permit procedure incorporating easement and buffer prescriptions for developments in wetland areas	Section on easement and buffer prescriptions integrated in the Building Permit procedure for developments in wetland areas	Copy of revised Building Permit procedure for developments in wetland areas
- Issuance of local ordinances on buffer zone for developments in wetland areas with	Local ordinances on buffer zone policies formulated and	Local ordinances on buffer zone policies formulated	Local ordinances on buffer zone policies formulated and	DENR-; DILG, LGUs through the	DENR- LMS; DENR – CMMD DPWH	Local ordinances and other directives on buffer zones for developments in	Number of Local ordinances issued per region.	Copy of ordinances and other directives.

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
sanctions for violations (at least 200 meters; 3 meters in urban areas, 20 meters in agricultural areas, 40 meters in forest areas and apply to new projects)	implemented in all cities in the country particularly for developments in wetland areas	and implemented in developments in wetland areas	implemented for developments in wetland areas	Leagues		wetland areas.		
- Formation of a Multisectoral team led by LGU for implementation of buffer ordinance (may tap existing ENR committees)	Multisectoral team formed			DILG/LGUs	DENR, DPWH	Multisectoral team formed	Multisectoral team formed	Directive forming the multisectoral team
- Create an online database of best practices on river bank easement/protection	Document and create an online database on best practices on river bank easement/protection.	Update and maintain online database	Update and maintain online database	DILG/LGUs	DPWH	Database on best practices on river bank/easement protection.  e.g. Napindan (Makati –Pasig)	Online database created and maintained	Project Report
- Give recognition/incentives to LGUs with documented best practice activities on river bank/easement protection	Formulate and implement an incentive system for LGUs with documented best practice			NWRB and the Leagues	DENR, DPWH	Incentive Scheme	Incentive Scheme formulated and approved	Directive approving the incentive scheme and copy of the incentive scheme

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
	policy/activities on river bank/easement protection							
5.0 Resolve reclamation issues								
- Identify areas reclaimed without permit and which have not been reclassified by Congress	All Regions have identified such areas .			PAWB-DENR thru Reclamation Committee; PRA	LGUs,	Inventory of illegally reclaimed areas.	Number of Regions that have identified areas reclaimed without permits and which have not been reclassified by Congress	Reports with inventory
- Revert for public use illegally reclaimed lands			Revert 30% of illegally reclaimed land			Illegally reclaimed lands reverted for public use.	Number of cases of reversion per Region	Reports, publications
- Amend and implement reclamation guidelines based on new EO 798 including sanctions and mechanism for penalizing violators	Guidelines amended and approved			DENR; PRA		Approved amended guidelines	1 set of guidelines amended and approved	Reports, copy of guidelines
<b>Strategy 2 Implement local</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>management and economic measures to conserve wetlands</b>								
1.0 Set user's and service fees/ PES/raw and annual water charges								
- Set user's and service fees/ PES/raw water charges in sites that are ready.	1 per region	1 per region	1 per region	Local Water Mgt.Bodies; DENR		User's fees set and implemented	Number of user's fees policy approved and implemented per region	Directive approving its implementation
2.0 Include resource valuation in determining IRA/Host Community				Congress; Academe LGU, DBM				
- Formulation and implementation of policy/guidelines	1 set of Guidelines formulated	1 set of guidelines approved and implemented	Continuing implementation of guidelines	DILG-LGU/DENR DBM		Policy and guidelines formulated and implemented	number of policy/guidelines formulated and implemented	Policy directive; copy dog policy/guidelines
<b>Strategy 3 Integrate Climate Change mitigation and adaptation measures in relevant plans and policies</b>								
1.0 Review and/or adoption of relevant								



Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
policies and legislations relevant to wetlands and climate change								
- Integrate green technology in the Building Code, Sanitation and Plumbing Code, Water Code)	Building, Sanitation and Plumbing Code reviewed and amended through Congressional Process.	Amendments approved and amended Codes disseminated to LGUs.	Amendments implemented	UAP, Congress;;	DILG; LGU SIBAT, other professional organizations	Amendments to the Building Code, Sanitation and Plumbing Code that are relevant to wetlands and climate change.	Number of legislations reviewed; amended.	Copies of amended laws.
- Include in the ECC conditions "Greenline and cistern requirement" for high rise buildings, condominiums, residential, commercial and industrial establishments ( <i>water conservation, green house gas emissions</i> );	Inventory of ECC issued with this Greenline and cistern requirement  Best practice example documented	Recognition and rewards	Continue the recognition and rewards	EMB, DILG/LGUs	PAWB		Number of ECCs issued with greenline and cistern requirements.	
- Include in local policy that that communities within or near wetlands								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
should have toilets								
2.0 Assessment of vulnerability of priority wetlands to climate change based on NAMRIA's 10 clusters of low lying areas	Vulnerability Assessment of 1 priority wetland per region	Vulnerability Assessment of 3 priority wetlands per region	Vulnerability Assessment of 5 priority wetland per region	DENR-PAWB, ERDB, NAMRIA, LMB	NGOs (SCPW), academe	Listing of wetlands that are highly vulnerable to climate change.	Number of priority wetlands assessed.	Reports.

## Thematic Area 2: Freshwater/Inland Wetlands

**Outcome :** Resilient and stable freshwater wetland ecosystems, reduced poverty among wetland-dependent communities

**Overall Goal :** Sustainable utilization of freshwater wetlands ecosystem; enhanced livelihood opportunities for wetland-dependent communities

**Overall Objectives:**

To improve the management and conservation of freshwater wetlands;

To provide alternative livelihood for wetland-dependent communities

**Indicator:** updated inventory and assessment of FW wetlands, policies developed and implemented, specific action plans in place, wider adoption of all stakeholders

### ACTION PLAN

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Strategy 1: Establish baseline data and conduct bio-physical and socio-cultural assessment and monitoring of freshwater wetlands (using ridge to reef framework)</b>								
1.0 Conduct an inventory, assessment and monitoring of priority freshwater wetlands:								
- Conduct of national	1 National			DENR-	NAMRIA,	Standard	Number of	Activity Report;

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
workshop to level off terminologies(i.e. major freshwater wetlands), methods and procedures for inventory, assessment and monitoring	Workshop conducted			PAWB	DENR-RBCO, DENR-ROs, LGUs, PCAMRD, academe	terminologies, methods and procedures for freshwater wetland inventory	workshops conducted	Compilation of Standard Terms, Methods and Procedures
- Prepare an inventory of freshwater wetlands with maps	1 inventory per Region			DENR-PAWB, NAMRIA	DENR-RBCO, DENR-Ros, LGUs, PCAMRD, academe, NGOs	Updated inventory of lakes, rivers, and swamps per Region	Number of Regions that submitted inventories	Report of inventories
- Conduct an assessment of the country's major lakes, rivers, and swamps (biological, _physic-chemical, socio-economic including tenurial status)	3 major wetlands (lakes, rivers swamp/mars h) assessed	3 major wetlands (lakes, rivers swamp/mars h) assessed	3 major wetlands (lakes, rivers swamp/mars h) assessed	DENR-PAWB, DENR-RBCO	DENR-Ros, LGUs, PCAMRD, academe, NGOs	Profiles of selected priority lakes, rivers, marshes/swamps (biological, physico-chemical, socio-economic, including tenurial status) using the Ramsar Information Sheet	Number of priority lakes, rivers, marshes/swamps assessed.	Assessment Reports; Profiles of wetlands that were assessed
- Monitor selected priority freshwater wetlands	3 priority lakes, rivers or swamp/mars h monitored	3 priority lakes, rivers or swamp/mars h monitored	3 priority lakes, rivers or swamp/mars h monitored	DENR-PAWB, DENR-RBCO	DENR-Ros, LGUs, PCAMRD, academe, NGOs	Monitoring data on selected freshwater wetlands	Number of wetlands monitored	Data on the state of priority wetlands

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
2.0 Review existing database on freshwater wetlands and recommend systematic access to these databases.	1 online database	Updating and maintenance of online databases	Updating and maintenance of online databases	DENR(PA WB,	ERDB, PCMARRD, ERDB ,LLDA, RBCO,NWRB), LGUs, academe, NGOs	Online databases on priority wetlands	online databases	Reports
- Create links to web-based databases (i.e. CHM)	Regional databases linked to CHM and other web-based databases			DENR-PAWB,	BFAR, LLDA, PCMARRD, LGUs, academe, NGOs,POs	Links established to other databases	Number of links established	Report; system test
<b>Strategy 2: Preparation and implementation of Management Plans for priority freshwater wetlands in the country</b>								
- Prepare a Management Planning Manual containing procedures with framework and templates that can be done by	Wetland Management Plan Preparation Manual prepared			DENR-PAWB	LGUs, SCPW, academe, NGOs, POs	Management Planning Manual for the Wetland Conservation	Number of Manuals prepared	Report; copy of document

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
communities								
- Conduct training on how to use the Management Planning Manual	One Training conducted at the national level	1 Training conducted per Region		DENR-PAWB	LGUs, SCPW, academe, NGOs, POs	Training on the use of the Management Planning Manual for the Wetland Conservation	Number of Trainings conducted	Activity Reports
- Conduct a carrying capacity study of selected priority freshwater wetlands	Carrying capacity studies conducted in 1 priority freshwater wetland per Region			DENR-PAWB, DENR-ERDB,	Academe	Carrying Capacity of selected priority freshwater wetlands	Number of Regions that conducted carrying capacity studies	Reports of the Study
- Prepare Management Plans for priority freshwater wetlands in the country	1 Management Plan for a priority freshwater wetland prepared per Region per year	1 Management Plan for a priority freshwater wetland prepared per Region per year	1 Management Plan for a priority freshwater wetland prepared per Region per year	DENR-PAWB	LGUs, SCPW, academe, NGOs, POs	Management Plans for priority freshwater wetlands prepared	Number of Management Plans prepared	Report; copy of Management Plans
- Implement Management Plans for priority freshwater	1 Management Plan for a priority freshwater	1 Management Plan for a priority	1 Management Plan for a priority	DENR-PAWB	LGUs, SCPW, academe, NGOs, POs	Management Plans for priority freshwater wetlands	Number of Management Plans implemented	Reports

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
wetlands in the country	wetland implemented per Region per year	freshwater wetland implemented per Region per year	freshwater wetland implemented per Region per year			implemented		
<b>Strategy 3: Rehabilitate Priority Freshwater Wetlands</b>								
1.0 Design a scheme to manage settlements in wetlands	Management scheme designed			DENR, LGUs	NGOs, Bayan ni Juan, Gawad Kalinga	Management Scheme design		Reports
2.0 Implement community-based reforestation in the watershed areas of priority wetlands (i.e. Treepreneurs)	(link to NGP targets)	(link to NGP targets)	(link to NGP targets)	DENR-FMB	PAWB, LGUs, NGOs	Watershed areas reforested	Number of hectares reforested	Reports, site visits
3.0 Implement bioremediation and/or phytoremediation technologies to address pollution on a pilot basis at selected priority wetlands								
- Conduct of seminar-workshop to assess	1 Seminar-workshop conducted			DENR-ERDB	DENR-EMB, NGOs, academe, LGUs	Seminar-workshop conducted	Number of seminar workshop	Documentation on appropriate bioremediation

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
appropriate bioremediation and phytoremediation technologies appropriate to types of wetlands							conducted	and phytoremediation technologies for various wetland types in the Philippines
- Pilot implementation of appropriate bioremediation and/or phytoremediation technologies at selected priority wetlands	Pilot implementation in 1 priority freshwater wetland			DENR-ERDB	DENR-EMB, NGOs, academe, LGUs	Bioremediation and/or Phytoremediation implemented in priority freshwater wetlands.	Number of bioremediation or phytoremediation projects implemented	Reports
4.0 Implement soil conservation technologies in priority wetlands								
- Conduct a seminar-workshop to compile soil conservation technologies that can be applied to wetland								



Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
5.0 Implement activities to address invasive alien species (i.e. golden kuhol, janitor fish, water hyacinth)	Activities implemented	Activities implemented	Activities implemented	DENR-PAWB	BFAR, FARMC, PAMBs PCMARD, LGUs, NGOs, POs	Projects to address IAS	Number of projects implemented	Reports, site visits
6. Launch and implement a project on "Adopt a Wetland"	Project launched and implemented in all Regions			DENR-PAWB	Private sector, LGU, DENR, NGOs stakeholders	Project launched and implemented in all Regions	Number of Regions that launched and are implementing the project	Reports; agreement instruments; site visit
<b>Strategy 4: Implement Climate Change mitigation and adaptation strategies</b>								
<b><u>Adaptation Activities/Measures:</u></b>  1.0 Conduct vulnerability assessment of wetlands and wetland species to climate change				DENR	PCMARD, DA-BFAR, academe, NGOs/POs, LGUs	List of vulnerable wetland species	Number of species assessed	Assessment Reports
- Conduct Workshop to develop a toolkit for vulnerability assessment of freshwater	1 National Workshop			DENR-PAWB	DENR-ERDB, LGUs, academe, NGOs, SCPW	Workshop(s) held; Toolkit	Number of workshops held	Activity Report; Toolkit

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
wetlands to climate change								
- Using the toolkit, conduct vulnerability assessment of wetlands and wetlands species in priority freshwater wetlands	1 priority wetland assessed per Region per year	1 priority wetland assessed per Region per year	1 priority wetland assessed per Region per year	DENR-PAWB	DENR-ERDB, LGUs, academe, NGOs, SCPW	Report of the vulnerability assessment study	Number of freshwater wetlands assessed using the toolkit	Activity Report;
2.0 Conduct a study to identify vulnerable species for climate change effects on freshwater wetlands	1 Study conducted in major freshwater wetland types (lakes, rivers, marshes)			DENR-ERDB	DENR-PAWB Academe, NGOs, POs, LGUs	List of species sensitive to climatic changes in wetlands	Number of studies conducted	Study Reports
3.0 Conduct monitoring of migration patterns of birds vis-à-vis their established migration usage	Conduct monitoring of migratory birds in 3 wetland sites per major island groups (Luzon, Visayas, Mindanao)	Continue monitoring of migratory birds in 3 wetland sites per major island groups (Luzon, Visayas, Mindanao)	Continue monitoring of migratory birds in 3 wetland sites per major island groups (Luzon, Visayas, Mindanao)	DENR-PAWB	LGUs, academe, NGOs, Wildbird Club of the Philippines, POs	Monitoring results i.e. migration pattern; Schedule of migration monitoring of wetlands/ waterbirds	Number of sites monitored; number of monitoring activities conducted	Monitoring reports

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
4.0 Formalize and implement a Philippine Bird Banding Scheme	Bird Banding scheme formalized and implemented in the country	Bird banding conducted in the 3 sites identified in item 4.2	Bird banding conducted in the 3 sites identified in item 4.2	DENR-PAWB	DENR-ERDB, SCPW, LGUs, academe, NGOs	Philippine Bird Banding Scheme implemented	Number of sites where bird banding is being conducted	Reports
5.0 Hold a National Conference on Climate Change Adaptation. And Population, Health & Environment	One National Conference held; Proceedings and recommendations posted in the wetland website (CHM)			DENR-PAWB	DOH, DENR-ERDB, EMB,FMB, SCPW, LGUs, academe, NGOs	Compilation of Adaptation measures by local wetland communities	Number of Conference held	Activity Report
<b><u>Mitigation Activities/Measures</u></b> 6.0 Adoption of appropriate (wetland) watershed protection and (conservation) plantation management strategies				DENR		Reduction of GHG emission		
mainstreaming of native species in reforestation projects (priority wetlands:	Link targets to NGP	Link targets to NGP	Link targets to NGP	DENR-FMB	DENR-PAWB, LGUs, ERDB			

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
Agusan Marsh, Candaba Marsh) -								
7.0 Promote the conservation of peatlands	Please refer to the National Peatlands Action Plan for the Philippines which is an integral part of the National Wetlands Action Plan							
8.0 Conduct of R & D studies on specific climate change mitigation functions of wetlands								
- Conduct studies on carbon sequestration functions of specific wetlands (rate of sequestration, carbon stock, etc)	1 study per major freshwater wetland type (lake, river, marsh; include rice fields)			DOST, DENR	Academe	Data on carbon sequestration by selected wetland types	Number of studies conducted	Report of the study
9.0 Adoption of Green technology to promote sanitation in wetlands	Conduct of IEC on green sanitation technology in three pilot priority wetlands	Conduct of pilot green sanitation technology in three priority wetlands	Upscaling of green sanitation technology in three other priority wetlands	LGUs	DOH, NGOs, PCWS	Green sanitation technologies being implemented in priority wetlands	Number of priority wetlands implementing green sanitation technologies	Reports; site visits

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Strategy 5 Promote ecotourism as a conservation strategy for freshwater wetlands</b>								
1.0 Update list and profile of freshwater wetlands with ecotourism potential (hyperlink to item 1 of this matrix to include ecotourism potential in the assessment)	One List per Region updated			DENR-PAWB, DOT	DOT, Academe, Civil Society	Inventory and profile of freshwater wetlands with ecotourism potential	Number of Regions that submitted an updated listing and profile of wetlands with ecotourism potential	Report; copy of list
2.0 Conduct mapping of freshwater wetlands with eco-tourism potential <i>(for inclusion as a classification under mapping of the policy action plan; will indicate with a hyperlink to mapping under policy matrix)</i>	1 map prepared per Region			NAMRIA	DENR-PAWB, DOT, LGUs, NGOs	Maps of wetlands with ecotourism potential	Number of Regions that submitted maps	Report; Copies of maps
3.0 Develop Ecotourism Plans for priority wetlands	1 Master Plan developed	1 Master Plan developed for priority	1 Master Plan developed	DENR-PAWB, DOT	Academe, Civil Society	Ecotourism Master Plans for selected priority wetlands	Number of Regions that submitted Master	Copies of Master Plans

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
	for priority wetlands per Region per year	wetlands per Region per year	for priority wetlands per Region per year	LGUs,			Plans for Ecotourism for priority freshwater wetlands	
<b>Strategy 5</b>								
<b>Implement sustainable aquaculture practices in freshwater wetlands</b>								
1.0 Regulate aquaculture and stocking of exotic species in wetlands								
- Enforce zero introduction of exotic species for aquaculture in freshwater wetlands with reference to the Wildlife Act	LGU ordinance on zero introduction of exotic species for aquaculture in priority freshwater wetlands passed			DENR-PAWB, DA-BFAR	DENR-ROs, PCMARD, LGUs, SCPW, NGOs	LGU Ordinances passed	Number of LGU ordinances passed	Copy of the LGU ordinance
1.0 Promote policies that support sustainable aquaculture (i.e. FAO Code of Conduct for Responsible Fisheries	Include in the National CEPA Action Plan for Wetlands			DENR, DA-BFAR	SEAFDEC, LLDA, SCPW	Inclusion in the National CEPA Action Plan for Wetlands	Item in the National CEPA Action Plan for Wetlands	Copy of National CEPA Action Plan for Wetlands

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
and other Codes of Conduct for Sustainable Aquaculture, BFAR AO1-2008 (joint DA, DILG, DENR), Wildlife Act								
Conduct vulnerability study on the impacts of climate change on freshwater aquaculture		One study completed		DOST-PCMARD; DA-BFAR	DENR-ERDB, Academe			

### Thematic Area 3: Coastal and Marine Wetlands

**Outcome** : Resilient and stable coastal and marine wetland ecosystems, reduced poverty among coastal communities

**Overall Goal** : Sustainable utilization of coastal and marine ecosystems, enhanced livelihood of coastal communities

**Overall Objectives:**

To improve management and conservation of coastal and marine wetlands.

To provide alternative livelihood to wetland-dependent communities

**Indicators:**

Environment/ecological: coastal productivity (fish catch), quality and area of mangrove, beach forests estuaries, seagrass and coral reefs)

Socio-economic: income, equity; job or livelihood opportunities; access to common resources

#### ACTION PLAN

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Strategy 1: Enhance baseline data on and conduct assessment and monitoring of coastal and marine wetlands</b>								
1.0 Conduct an inventory, assessment and monitoring of priority coastal and marine wetlands								
- Conduct of national workshop to standardize terms (i.e. major marine and coastal	1 National Workshop conducted			DENR-PAWB	NAMRIA, DENR-RBCO, DENR-ROs, LGUs, PCAMRD,	Standard terminologies, methods and procedures for coastal and	Number of workshops conducted	Activity Report; Compilation of Standard Terms,



Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
wetlands), methods and procedures for inventory, assessment and monitoring					academe	marine wetland inventory		Methods and Procedures
- Prepare an inventory of major coastal and marine wetlands with maps	1 inventory per Region			DENR-PAWB, NAMRIA	DENR-RBCO, DENR-Ros, LGUs, PCAMRD, academe, NGOs	Updated inventory of major coastal and marine wetlands per Region	Number of Regions that submitted inventories	Report of inventories
- Conduct an assessment of the country's major coastal and marine wetlands (biological, _physic-chemical, socio-economic including tenurial status)	6 major coastal and marine wetlands assessed per Region	11 major coastal and marine wetlands assessed per Region	11 major coastal and marine wetlands assessed per Region	DENR-PAWB CMMO BFAR LGUs	PAWB ERDB, NAMRIA, PCMARRD, academe, NGOs	Profiles of selected priority coastal and marine wetlands (biological, physic-chemical, socio-economic, including tenurial status)	Number of priority coastal and marine wetlands assessed	Assessment Reports; Profiles of wetlands that were assessed
- Monitor selected priority coastal and marine wetlands	6 major coastal and marine wetlands monitored per Region	11 major coastal and marine wetlands monitored	11 major coastal and marine wetlands monitored	DENR-PAWB CMMO BFAR LGUs	PAWB ERDB, NAMRIA, PCMARRD, academe,	Monitoring data on selected priority coastal and marine	Number of coastal and marine wetlands monitored	Data on the state of priority coastal and marine wetlands

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
		per Region	per Region		NGOs NFRDI, Intl research orgs	wetlands		
1.0 Develop a Database on the country's coastal and marine wetlands -								
- Review existing databases on coastal and marine wetlands	Review conducted and recommendations for systematic access to database			DENR-PAWB, CMMO	PAWB,ERDB, NAMRIA, BFAR, PCAMRD, LGUs, NGOs, academe	Recommendations	Review conducted	Reports
- Develop a system for the easy access to coastal and marine databases	1 online database	Updating and maintenance of online databases	Updating and maintenance of online databases	DENR-PAWB, CMMO	PAWB,ERDB, NAMRIA, BFAR, PCAMRD, LGUs, NGOs, academe	Online databases on coastal and marine wetlands	Number of system developed	Reports
- Link to national and regional databases e.g. CHM, NSAP, MSN, MIDAS, Reef Base	Regional databases linked to CHM and other web-based databases			DENR-PAWB, CMMO	BFAR, PCAMRD, LGUs, academe, NGOs,POs NFRDI, Intl research orgs	Links established to other databases	Number of links established	Report; system test
<b>Strategy 2 Rehabilitation of degraded coastal and marine wetlands</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
1.0 Conduct workshops to review protocol on the rehabilitation, restoration of mangroves and beach areas to include history of vegetative cover –	2 workshops conducted			PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	Amended protocol on the rehabilitation, restoration of mangroves and beach forest	Number of workshops conducted	Activity Report; copy of revised protocol
2.0 Issuance of a directive to adopt and dissemination the revised protocol	Directive issues			PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	DAO or similar directive issued	Issuance of DAO or similar directive	Copy of DAO or similar directive
3.0 Following the amended protocol, conduct mangrove and beach rehabilitation activities in selected priority sites	5% of the total denuded areas reforested	20% of the total denuded areas	25% of the total denuded areas	PAWB-CMMO, LGUs	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	Improved and expanded mangrove and beach forest – including abandoned fishponds within the beach areas, returned to the natural state	Number of hectares reforested	Report and site visit
4.0 Establishment of Marine Protected Areas	Establishment of 3 MPAs	Establishment of 6 MPAs	Establishment of 11 MPAs	PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	Marine Protected Areas established	Number of MPAs established	Reports; Site visit
5.0 Conduct re-stocking								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
and sea ranching activities								
- Conduct a workshop to develop protocols for re-stocking and sea-ranching	Workshop conducted			PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	Protocols developed	Workshop conducted	Activity Report; copy of protocol
- Identify species for re-stocking and sea ranching	Species identified			PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	List of species for re-stocking and sea-ranching	Number of species identified	Reports
- Conduct re-stocking and sea-ranching activities in selected coastal and marine wetlands	How many re-stocking, sea-ranching projects per year and where?	How many re-stocking, sea-ranching projects per year and where?	How many re-stocking, sea-ranching projects per year and where?	PAWB-CMMO, ERDB	POs, NGOs, LGUs, DENR ROs, FARMCs, BFAR, Academe	Areas re-stocked; areas of sea-ranching activities established	Number of re-stocking and/or sea ranching projects per Region per year	Reports; site visits
6.0 Launch and implement a project on 'ADOPT-A WETLAND'	Project launched and implemented in all Regions			DENR-PAWB	Private sector, LGU, DENR, NGOs stakeholders	Project launched and implemented in all Regions	Number of Regions that launched and are implementing the project	Reports; agreement instruments; site visit
<b>Strategy 3 Promote ecotourism as a conservation strategy for coastal and marine wetlands</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
1.0 Updating of the list of coastal and marine wetlands with ecotourism potential (hyperlinke to strategy 1 and to policy matrix on mapping)	One List per Region updated			DENR-PAWB, DOT	academe, NGOs/POs, LGUs	Inventory and profile of coastal and marine wetlands with ecotourism potential	Number of Regions that submitted an updated listing and profile of wetlands with ecotourism potential	Report; copy of list
2.0 Conduct mapping of coastal and marine wetlands with ecotourism potential (hyperlink to policy matrix on mapping)	1 map per Region prepared			NAMRIA	DENR-PAWB, DOT, LGUs, NGOs	Maps of wetlands with ecotourism potential	Number of Regions that submitted maps	Report; Copies of maps
3.0 Develop ecotourism Master Plans in selected priority wetland sites	1 Master Plan developed for priority wetlands per Region per year	1 Master Plan developed for priority wetlands per Region per year	1 Master Plan developed for priority wetlands per Region per year	DENR-PAWB, DOT	academe, NGOs/POs, LGUs, resort owners	Ecotourism Master Plans for selected priority wetlands	Number of Regions that submitted Master Plans for Ecotourism for priority freshwater wetlands	Copies of Master Plans
4.0 Conduct piloting ecotourism activities in selected sites to include key habitat types of coastal and	2 pilot ecotourism activities implemented	2 pilot ecotourism activities implemented	2 pilot ecotourism activities implemented	DENR-PAWB, DOT	academe, NGOs/POs, LGUs, resort owners,	Pilot ecotourism activities implemented	Number of pilot activities implemented	Reports; site visit

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
marine wetlands					communities			
6.0 Conduct IEC on the role of coastal and marine ecotourism in wetland conservation								
- Produce an AVP in English, Filipino, Cebuano and Ilocano)	1 AVP in 4 languages produced and shown in local events; exposure on radio and TV	Exposure of AVP on radio and television		DENR-PAWB, DOT	PAO, LGUs, resort owners, communities	AVP produced and shown in local events, on radio and on TV	Number of AVP produced  Number of exposures in local events, on radio and on TV	Copy of the AVP; reports
- Produce community bulletins (poster type) in vernacular	Community Bulletins produced in vernacular			DENR-PAWB, DOT	PAO, LGUs, resort owners, communities	Community Bulletins produced	Number of Community Bulletins produced	Reports; copy of the Community Bulletins
7.0 Implement marketing activities to promote ecotourism sites				DENR-PAWB, DOT, LGU		IEC materials developed and disseminated	Types and numbers of IEC materials/ collaterals	Sample collaterals
- Develop websites for pilot ecotourism activities/sites	1 Website developed per pilot site			DENR-PAWB, DOT	PAO, LGUs, resort owners, communities	Website developed	Number of websites developed; number of hits	Report and URL of website
<b>Strategy 4</b> <b>Implement sustainable</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>aquaculture practices</b>								
1.0 Promote appropriate aquaculture in coastal and marine areas								
- Development of management plans for coastal and marine aquaculture sites/parks	Management Plans developed for aquaculture sites/parks (1 per Region)	Management Plans developed for aquaculture sites/parks (1 per Region)	Management Plans developed for aquaculture sites/parks (1 per Region)	DENR DA-BFAR	PCAMRD, NFRDI, LGUs, POs, FARMCs, Academe, SEAFDEC/AQD, World Fish, Funding Institutions	Management Plans	Number of Regions who submitted Management Plans	Reports; copy of management plans
- Identification of appropriate aquaculture systems in coastal and marine areas and suitable mariculture sites	List of appropriate aquaculture systems			DENR DA-BFAR	PCAMRD, NFRDI, LGUs, POs, FARMCs, Academe, SEAFDEC/AQD, World Fish	Listing of appropriate aquaculture systems	Number of Listing	Copy of List
2.0 Conduct monitoring of aquaculture parks		1 aquaculture park monitored per Region	1 aquaculture park monitored per Region	DENR DA-BFAR	PCAMRD, NFRDI, LGUs, POs, FARMCs, Academe, SEAFDEC/AQD, World Fish	Monitoring of aquaculture parks	Number of parks monitored	Monitoring Reports

Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
3.0 Compile documentation of Best Practices in marine and coastal aquaculture	1 Best Practice documented per Region per year	1 Best Practice documented per Region per year	1 Best Practice documented per Region per year	DENR DA-BFAR	PCAMRD, NFRDI, LGUs, POs, FARMCs, Academe, SEAFDEC/AQD, World Fish	Best Practice Documentation	Number of best Practices documented	Reports; copies of best practice documentation
<b>Strategy 5 Research and Development</b>								
1.0 Conduct studies on carrying capacity of small islands and other coastal and marine ecosystems (e.g. ecotourism)Conduct carrying capacity for Ecotourism		1 study per Region conducted	1 study per Region conducted	DENR-ERDB, PAWB	Academe, PCAMRD, NFRDI, LGUs, NGOs	Carrying Capacity of selected small islands and other coastal and marine wetlands	Number of Regions submitting results of study ----study conducted; carrying capacity models/prescriptions	Research Report
2.0 Conduct vulnerability study study on flora and fauna to sea level rise	1 study conducted			DENR-ERDB, PAWB	Academe, PCAMRD, NFRDI, LGUs	Study conducted	Completion of study	Research Report
<b>Strategy 6 Establishment of Critical habitat for Threatened/endangered spp (i.e. pawikan)</b>								
1.0 In coordination with	Areas identified,	Areas	Areas	DENR-	LGUs, POs,	Areas declared	Number and size or	Reports



Project/Activities	Targets and Timetable			Implementing Agencies/Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
concerned LGUs and communities, identify, assess, and declare as critical habitats areas where endangered species are found	assessed and declared as critical habitats	identified, assessed and declared as critical habitats	identified, assessed and declared as critical habitats	PAWB	NGOs, Private sector	and managed critical habitats	areas declared as critical habitats	
2.0 Develop and implement Management Plans of established critical habitats	Critical habitats with Management Plans	Management Plans implemented		DENR-PAWB	LGUs, POs, NGOs, Private sector	Management Plans of Critical Habitats	Number of Critical Habitats with Management Plans	Reports; copy of Management Plans
<b>Strategy 7</b> <b>Coastal and Marine Law Enforcement</b>								
1.0 Deputize Wetland Enforcement Officers								
- Organize citizen brigades to be deputized as Wetland Enforcement Officers		Wetland Enforcement Officers organized (1 per priority wetland)		DENR-PAWB	LGUs, POs, NGOs, Communities	Wetland enforcement officers organized and deputized	Number of Wetland Enforcement Officers deputized	Reports
- Conduct training on coastal and marine law enforcement		Training conducted		DENR-PAWB	LGUs, POs, NGOs, Communities	Wetland enforcement officers trained	Number of trainings conducted	Activity Report; Training module

## Thematic Area 4: Enabling Activities

### Goals :

- Increased awareness, understanding and appreciation of key stakeholders on the functions and importance of wetlands.
- Increased capacity of key stakeholders to implement wetland conservation measures

### Overall Objectives:

- To increase the awareness, understanding and appreciation of key stakeholders on the functions and importance of wetlands
- To enhance the capacity of stakeholders so that they are more capable of implementing wetland conservation and sustainable and equitable measures. (improve)
- To promote collaboration among stakeholders for effective wetland management; and

### Indicators :

- Number of trained stakeholder groups applying learning (e.g, monitoring, etc.).
- Comprehensive educational program for in-school and out-of-school youth, communities, and decision-makers on wetlands functioning, values and management;
- Functional institutional structure to manage priority wetlands; and

### ACTION PLAN

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Strategy 1: Compiling and organizing information on Philippine Wetlands and making these accessible to stakeholders</b>								
1.0 Establishment of a	Create a	Database	Database	DENR-	DENR-	Database and	Section on wetlands	Functional

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
metadatabase and information clearinghouse on Philippine wetlands (Resource Center)	section in the CHM on Philippine wetlands	maintained and enhanced	maintained and enhanced	PAWB	FMB, DA-BFAR, ERDB, PCMARD, academe, NGOs and POs, private sector, other partners	clearinghouse on wetlands established as part of the CHM, maintained and enhanced periodically	created in the CHM	electronic database as a section in the CHM
2.0 Disseminate information and support CDM, REDD+ and other carbon financing mechanisms for mitigation and adaptation	Include information on CDM, REDD+ and other carbon financing mechanism in the wetland section of the CHM			DENR; DILG; KLIMA; Leagues (Cities, Municipalities Climate Change	FMB, PAWB, EMB, ERDB, etc.	Information on CDM, REDD+ and other carbon financing mechanism included in the wetland section of the CHM	Wetlands section of the CHM contains information on CDM, REDD+ and other carbon financing mechanism; number of hits	Copy of the information on the website
<b>Strategy 2: Knowledge Management</b>								
1.0 Replication of best practices in wetland						Compilation of best	Number of best practices	Reports; URL of website

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
conservation						practices published on the website every 2 years.	documented; number of hits	
- develop criteria for selection of best practices	1 set of criteria formulated			DENR-PAWB	TWG on Wetlands	Criteria for selection of best practices in wetland conservation	Set of criteria formulated.	Copy of approved criteria
- Identify, document, compile, and include in the CHM, best practice/ working models of wetland management	1 best practice documented and included in the CHM (per Region)	1 best practice documented and included in the CHM (per Region)	1 best practice documented and included in the CHM (per Region)	DENR-PAWB; DENR-PAWDs	TWG on Wetlands DILG LGU, Galing-Pook	Compilation of best practices published on the website every 2 years.	Number of best practices/working models documented and included in the wetland section of the CHM	Copies of write-up/ case studies; wetland section in the CHM website
- Present the CHM/wetland section to the Leagues (Cities, Municipalities, etc)	1 Presentation each in the Annual Conferences of the various Leagues	1 Presentation each in the Annual Conferences of the various Leagues	1 Presentation each in the Annual Conferences of the various Leagues	DENR-PAWB	TWG on Wetlands DILG LGU	Presentations at the Annual Conferences of the various Leagues	Number of presentations made per year to the various Leagues	Activity Report with photo-documentation
<b>Strategy 3: Preparing,</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>adopting and Implementing the Communication, Education, Participation, and Awareness (CEPA) Action Plan</b>								
1.0 Conduct CEPA Action Planning and integrated them into Regional and local plans	One National CEPA Action Plan formulated	Regional CEPA Action Plan per Region formulated and implemented (1 per Region)	National and Regional CEPA Plan reviewed	DENR-PAWB, SCPW	SCPW, DA-BFAR, ERDB, PCMARD, academe, NGOs and POs, private sector	National CEPA Action Plan for Philippine Wetlands	Number of CEPA Action Plan prepared	Copy of document
- Conduct small group workshop to revisit/update Draft Wetlands Communications Plan	Conduct one small group workshop to finalize the CEPA Action Plan	Conduct annual evaluation and assessment of the implementation of the CEPA Action Plan	Conduct annual evaluation and assessment of the implementation of the CEPA Action Plan	DENR SCPW	DA-BFAR, ERDB, academe, NGOs and POs, private sector, other partners	Workshop conducted; CEPA Plan updated	Number of workshops conducted	Activity Report; copy of updated CEPA Action Plan
- Adoption and	National	CEPA Action	CEPA Action	DENR	SCPW,	Adopted	Number of Regions	Document

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
integration of National CEPA Action Plan into Regional and Local Plans	CEPA Action Plan adopted and implemented at all levels by integrating them into Regional and local plans	Plan integrated into Regional and Local Plans implemented at all levels	Plan integrated into Regional and Local Plans implemented at all levels		DA-BFAR, ERDB, academe, NGOs and POs, private sector, other partners	National CEPA Action Plan; integration of national CEPA Action Plan into Regional and other local plans; implementation at all levels	that have integrated the national CEPA Action Plan into their Regional Plans; Number of local plans that have integrated the CEPA Action Plan; Number of partner organizations implementing the CEPA Plan	adopting the Plan; Reports
2.0 Upscale existing CEPA activities								
- Mainstream Dalaw-Turo in public and private schools through local resolutions	1 Resolution either at the Regional, Provincial, or Local level (per Region)	1 Resolution either at the Regional, Provincial, or Local level (per Region)	1 Resolution either at the Regional, Provincial, or Local level (per Region)	DENR, LGU, DepEd		Resolutions mainstreaming Dalaw-Turo in public and private schools in specific localities	Number or Resolutions passed	Copies of Resolutions
- Translate CEPA	Prepare	Prepare	Prepare	DENR-	NGOs,	Primers	Number of	Copy of translated

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
materials into vernacular	primer on wetlands in Filipino, Cebuano and Ilocano	primer on wetlands in 3 other vernacular languages	primer on wetlands in 3 other vernacular languages	PAWB	Academe	translated into major Philippine languages/dialects	languages/dialects used in translating the primers	primers
- Expand the conduct of Wetlands Caravan in priority wetlands	2 Wetlands Caravan conducted per year	2 Wetlands Caravan conducted per year	2 Wetlands Caravan conducted per year	SCPW, DENR	LGUs, DepEd, academe, NGOs	Wetlands Caravan conducted	Number of Wetlands Caravan conducted	Activity Report with photo-documentation
3.0 Establish Wetlands Information Centres in priority wetlands	3 wetland centres established and operational	3 wetland centres established and operational	3 wetland centres established and operational	DENR-PAWB	LGUs, SCPW, NGOs, academe	Wetlands Information Centres established and operational	Number of Wetlands Information Centres established and operational	Reports
4.0 Develop a framework for stakeholder participation	Framework development and piloting in selected priority wetlands	Documentation and replication	Documentation and replication	DENR-PAWB	Other DENR agencies, SCPW and other partners	Framework for Stakeholder Participation (Defined level of participation for each key stakeholder)	Number of framework developed	Copy of document
5.0 Hold a National Wetlands	1 Conference	1	1	DENR-	PCMARD,	National	Number of	Conference Report

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
Conference every three years –	held 2012	Conference held	Conference held	PAWB, SCPW	ERDB,	Wetlands Conference held every 3 years	Conference held	
6.0 Providing incentives for wetland conservation								
- Implement "Philippine Wetlands Conservation Award" every 4 years	Bi-annual search and awarding implemented	Bi-annual search and awarding implemented	Bi-annual search and awarding implemented	DENR-PAWB	DENR-ROs, other partners (GAs, NGOs, POs, Academe)	Search and awarding of winners for Philippine Wetland Conservation Award	Number of Awarding events implemented	Names of awardees, Activity Report
- Implement Eco-certification or similar incentive/recognition scheme in priority wetlands with ecotourism potential	Develop and adopt guidelines for Eco-Certification of wetland activities;	implement eco-certification (1 site per region/year)	implement eco-certification (1 site per region/year)	DENR-PAWB	DOT, LGUs, other Gas	Eco-Certification Guidelines developed and adopted; Eco-certificates issued	Eco-Certification guidelines formulated and adopted; Number of eco-certificates issued	Copy of guidelines and endorsement; Reports
- Search for a local, (popular term) and icon (champion) for wetland to be implemented at	Hold a contest among the youth to			DENR-PAWB	SCPW, business	Contest to choose local wetland champion	Number of contest held	Name of local wetland champion; Activity Report



Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
the local or site level –	choose a local wetland champion					held		
<b>Strategy 4: Capacity Development and Enhancement</b>								
1.0 Preparation of a Capacity Development Plan for wetlands management								
- Conduct of capacity needs assessment for wetlands conservation in priority wetland areas with recommendations for the Capacity Development Plan	Conduct capacity needs assessment study			DENR-PAWB	DENR-ROs, ERDB, EMB, MGB, LLDA, other partners	Capacity needs assessment report	Number of assessment study conducted	Report of the Study
- Preparation of the Capacity Development Plan	Conduct of National and Regional Conference to validate Plan			DENR-PAWB	DENR-ROs, ERDB, EMB, MGB, LLDA, other partners	Capacity Development Plan for Wetland Management	Number of Conference conducted	Activity Report with photo-documentation; copy of the Capacity Development Plan for Wetland Management

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
- Adoption and dissemination of the Capacity Development Plan for Wetland Management	Adoption and virtual publication in the wetland section of the CHM			DENR-PAWB	DENR-ROs, ERDB, EMB, MGB, LLDA, other partners	Capacity Development Plan for Wetland Management adopted through an endorsement or directive	Endorsement or directive issued by DENR adopting the Plan; Plan uploaded/published in the wetland section of the CHM	Endorsement or directive; publication on the website
- Implementation and monitoring of the Capacity Development Plan for Wetlands Conservation in the Philippines	Implementation monitored and assessed annually	Implementation monitored and assessed annually	Implementation monitored and assessed annually	DENR-PAWB	DENR-Regional Offices; other partners	Assessment and Monitoring Conducted	Number of assessment and monitoring evaluations conducted annually.	Monitoring Reports
2.0 Enhance human capacity for management of wetlands (i.e. formal and non formal education)								
- Conduct training on specific topics	Training on water quality monitoring	Training on bio-monitoring				Training conducted	Number of trainings conducted; number of people trained; tracking of impact of training on the participant's work	Activity Report; Training curricula; training aids developed for the course

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
	Orientation on the National Ecotourism Strategy	Training on stock/ species assessment					-do-	Activity Report; Training curricula; training aids developed for the course
	Training in natural resources management for key decision makers;	Training on appropriate sustainable livelihood technologies					-do-	Activity Report; Training curricula; training aids developed for the course
	Training on bird banding	Training of community and school-based monitoring, e.g., river watch, CLMN					-do-	Activity Report; Training curricula; training aids developed for the course
	Training on liquid and solid waste management						-do-	

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
	Participatory resource assessment and monitoring							
		Conduct eco-tourism capacity-building activities for local communities						
		Conduct training on tour-guiding and home-stay						
		Conduct learning visits to other developed ecotourism						

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
		sites						
3.0 Strengthen Institutional Capacity for wetlands conservation								
Formation of National Wetlands Committee or a similar entity to provide policy direction and oversee the implementation of the National Wetlands Action Plan	National Wetlands Committee or a similar body reconstituted	National Wetlands Committee or a similar body operational	National Wetlands Committee or a similar body operational	DENR-PAWB	PCSD-Sub-Committee on Biodiversity	National Wetlands Committee or a similar body formed		
4.0 Build Financial Capacity (internal resource mobilization) - Prepare and implement a Resource Mobilization Plan for Wetlands Conservation	Resource Mobilization Plan prepared	Resource Mobilization Plan implemented	Resource Mobilization Plan implemented	DENR-PAWB	SCPW and other partners	Resource Mobilization Plan	Resource Mobilization Plan prepared and implemented	Copy of the Resource Mobilization Plan
- Conduct of Partners Meeting	One partners meeting conducted			DENR-PAWB SCPW		Meeting conducted	Conduct of meeting	Minutes of Meeting; pledges from partners
<b>Strategy 5: Development and/or Implementation of Innovative Methods, Tools and Technologies for</b>								

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
<b>Wetland Management</b>								
1.0 Development of (an integrated) wetland management framework for wetland management at the local level consistent with the CLUP and investment plan	(Integrated) wetland management framework for local wetlands developed	(Integrated) wetland management framework integrated into local plans		DENR-PAWB	DILG, LGUs,	Framework for local (integrated) management of wetlands developed and integrated into local plans	Number of local plans that have integrated the wetland management framework	Copy of the wetland management framework
2.0 Develop appropriate and cost-effective monitoring tools that take into consideration biophysical and socio cultural aspects	Monitoring tools developed (1 for inland wetlands; 1 for coastal and marine wetlands)	Implement monitoring tools in pilot sites (6 sites – Luzon, Visayas, Mindanao; 3 inland/3 coastal and marine per major island group)		DENR-PAWB		Monitoring Tool	Number of monitoring tools developed	Copy of document/report
- Identification of important indicators for	Wetland indicators			DENR-PAWB	ERDB, Academe	Wetland indicators	Number of indicators identified	Report

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
monitoring wetland conditions;	identified and included in the monitoring system					identified		
3.0 Apply management effectiveness assessment method for areas with existing management plans	Application of management effectiveness assessment method in one pilot site			DENR		Assessment Method applied		
4.0 Implement pilot rainwater harvesting facilities in households near or on priority wetlands	1 pilot project per region	Upscaling to 3 project sites per region	Replication (1 per province in each region)	DENR, NWRB, PCWS	PCWS, SCPW NGOs, academe and other partners	Rainwater harvesting pilot projects.	Number of rainwater harvesting pilot projects in priority wetlands.	Reports; documentation.
5.0 Conduct a study to come up with a scheme for the phase-out of aquaculture in NIPAS sites that existed before RA 7086		Study conducted		DENR-PAWB; DA-BFAR		Phase-out Plan of aquaculture in wetlands that are in KBAs and NIPAS sites formulated and	Number of studies conducted	Report of the Study

Project/Activities	Targets and Timetable			Implementing Agencies/ Organizations		Expected Outputs	Indicators	Means of Verification
	Short Term (2010-2012)	Medium Term (2010-2014)	Long Term (2010-2016)	Lead	Support			
						implemented		



**Annex A Priority Wetlands for the NWAPP 2011-2016**

<b>(Based on conservation priorities of the PBCP and the KBAs (terrestrial and marine))</b>			
<b>CONSERVATION PRIORITIES</b>	<b>MUNICIPALITIES</b>	<b>BIOGRAPHIC REGION</b>	<b>PROVINCE/ REGION</b>
<b>COASTAL / MARINE</b>			
1. Batanes Islands Protected Landscape and Seascape	Basco, Ivana, Mahatao, Uyugan, Sabtang, Itbayat	Batanes	Batanes (II)
2. Babuyan Islands	Babuyan, Calayan, Dalupiri, Fuga, Camiguin Norte	Babuyan	Cagayan (II)
3. Buguey Wetlands	Aparri, Camalaniugan, Buguey, Santa Teresita	Greater Luzon	Cagayan (II)
4. Manila Bay	Orani, Hermosa, Lubao, Guagua, Bacolor, San Fernando, Minalin, Apalit, Macabebe, Masantol, Santa Maria, Sasmuan, Lubao, Hagonoy, Calumpit, Malolos, Paombong, Plaridel, Bulacan, Guiguinto, Balagtas, Pandi, Bocaue, Obando, Meycauayan, Marilao, San Jose del Monte, Caloocan, Malabon, Valenzuela	Greater Luzon	Pampanga, Manila, Rizal, & Bulacan (NCR, IV, III)
5. Pagbilao and Tayabas Bay	Pagbilao	Greater Luzon	Quezon (IV)
6. Ragay Gulf	San Narciso, Buenavista, Guinayangan, Tagkawayan, Del Gallego, Ragay	Greater Luzon	Camarines Sur & Quezon (V, IV)
7. Mactan, Kalawisan, Cansaga Bay	Mandaue City, Lapu-lapu, Cebu City, Consolacion	Greater Negros-Panay	Cebu (VII)
8. Tubbataha Reef National Marine Park	Cagayancillo	Greater Palawan	Palawan (IV)
9. Polillo Island	Bordeos, Polillo, Panukulan, Patnanungan	Greater Luzon	Quezon (IV)
10. Caramoan Peninsula	Lagonoy, Presentacion, Garchitorena	Greater Luzon	Camarines Sur (V)
11. Puerto Galera	Abra de Ilog, Puerto Galera, San Teodoro, Santa Cruz	Greater Mindoro	Mindoro Occidental (IV)
12. Ursula Island	Bataraza	Greater Palawan	Palawan (IV)
13. Balabac Group of Islands	Balabac	Greater Palawan	Palawan (IV)
14. Northwest Panay Peninsula Natural Park	Pandan, Libertad, Nabas, Buruanga, Malay	Greater Negros-Panay	Aklan & Antique (VI)
15. Olango Island	Lapu-lapu	Greater Negros-Panay	Cebu (VII)
16. Biliran and Maripipi Islands	Almeria, Biliran, Cabucgayan, Caibiran, Caluba, Kawayan	Greater Mindanao	Biliran (VIII)
17. Siargao Island Protected Land and Seascape	Santa Monica, Burgos, San Isidro, Pilar, General Luna, Dapa, Del Carmen, San Benito, Socorro	Greater Mindanao	Surigao del Norte (CARAGA)

18. Tawi-tawi Island	Languyan, Bungao	Greater Sulu	Tawi-tawi (ARMM)
19. Simunul and Manuk Manka Islands	Simunul	Greater Sulu	Tawi-tawi (ARMM)
20. Sibutu and Tumindao Islands	Sitankai	Sibutu	Tawi-tawi (ARMM)
21. El Nido Managed Resource Protected Area	El Nido, Taytay	Greater Palawan	Palawan (IV)
22. Cabulao Bay	Tagbilaran City	Greater Mindanao	Bohol (VII)
23. Malampaya Sound	San Vicente, Taytay	Greater Palawan	Palawan (IV)
24. Balayan Bay	Batangas	Greater Luzon	Batangas (IV)
25. Talabong Island and Bais Bay	Dumaguete City	Greater Negros-Panay	Negros Oriental (VII)
26. Panguil Bay	Ozamis and Tangub Aurora, Tambulay, and Ramon Magsaysay, Zamboaga Sur and Kapatagan, Kulambugan, Lanao Norte and Ozamis City and Tangub City, Bonifacio, Misamis Occ.	Greater Mindanao	Zamboanga del Sur (IX)
27. Ulugan Bay	Puerto Princesa City	Greater Palawan	Palawan (IV)
28. Inabanga Coast	Inabanga	Greater Mindanao	Bohol (VII)
<b>INLAND/FRESHWATER</b>			
1. Candaba Swamp	Arayat, Candaba, Cabiao	Greater Luzon	Nueva Ecija, Pampanga & Bulacan (III)
2. Lalaguna Marsh	Lopez	Greater Luzon	Quezon (IV)
3. Naujan Lake	Naujan, Pola, Socorro, Victoria	Greater Mindoro	Mindoro Oriental (IV)
4. Coron Lakes	Coron	Greater Palawan	Palawan (IV)
5. Lake Manguao	Taytay	Greater Palawan	Palawan (IV)
6. Puerto Princesa Subterranean River National Park	Puerto Princesa	Greater Palawan	Palawan (IV)
7. Agusan Marsh	Veruela, Loreto, Bunawan, La Paz, Talacogon, San Francisco, Rosario	Greater Mindanao	Agusan del Sur (CARAGA)

Wildlife Sanctuary			
8. Lake Lanao	Marawi City, Ditsaan Ragain, Buadipuso Buntong, Molundo, Taraka, Tamparan, Poona Bayabao, Masui, Lumbayanague, Lumbatan, Bayang, Binidayan, Pagawayan, Ganassi, Madamba, Madalum, Bacolod-Kalawi, Tugaya, Balindong, Marantao	Greater Mindanao	Lanao del Sur (ARMM)
9. Liguasan Marsh	Pikit, M' Lang, Tulunan; Pagalungan, Gen. S.K. Pendatun, Sultan sa Barongis; Don Mariano Marcos	Greater Mindanao	North Cotabato, Maguindanao, South Cotabato, & Sultan Kudarat (XII, XI, ARMM)

**Annex B Recommended Additional Priority Wetlands  
(from Regional Consultations)**

<b>CONSERVATION PRIORITIES</b>	<b>MUNICIPALITIES</b>	<b>BIOGRAPHIC REGION</b>	<b>PROVINCE/ REGION</b>
<b>Coastal/Marine Wetlands – Luzon</b>			
Taytay Bay	Taytay,		Palawan
Cabusao Wetland	Cabusao,		Camarines Sur
Prieto Diaz Mangroves	Prieto Diaz,		Sorsogon
Tambac Bay	Lingayen Gulf,		Pangasinan
<b>Coastal/Marine Wetlands - VisMin</b>			
Ormoc Bay, Leyte			
Small islands between Olango island, Cebu, and Jatafe, Bohol			
Sarangani Bay Protected Seascape	General Santos City, Alabel, Malapatan, Glan, Maasim, Maitum, and Kiamba		Sarangani
Sangay-Paril	Lebak and Kalamansig,		Sultan Kudarat
Pujada Bay Protected Landscape/ Seascape			
BAGanga Bay Protected Landscape/ Seascape			
Malalag-Sulop sandflats			
Carmen-			

Panabo sandflats			
Sagay Marine Reserve	(Migratory site)		
Taklong Island Marine Reserve	(presence of dugong, pawikan, tabon bird, phil. Duck)		
Baganga Mangrove Area (1,200 has.)	Baganga,		Davao Oriental
Pujada Bay	Mati,		Davao Oriental
Malalag Bay	Malalag		Davao del Sur Davao del Sur
Siasi Island			Sulu
Sitangkay Island	Sitangkay,		Tawi-tawi
Illana Bay	Cotabato City, Panang, Mag; Datu Blah Sunsuat, Mag; Kapatagan, Lanao Sur; Bungo Island		Maguindanao, Lanao del Sur
<b>Freshwater Wetlands - Luzon</b>			
Lake Tagbunsaing	Quezon, Palawan (brackish water lake) (WWF to provide details)		
RINCONADA LAKES(Buhi, Bato, Baao-Bula)	(including lakelets Manapao, Katugday, Makuao)		
Manoytoy	(WWF to provide details)		
Babuyan River	(WWF)		
Lake Malasi	(PAWB)		
Cagayan River	(CSU to provide details)		
Magat Reservoir			
Abra River			
<b>Freshwater Wetlands – Vismin Group</b>			
Lake Danao,	Camotes Islands		
Lake Danao,	Buac watershed,		Southern Leyte
Lake Bito			Leyte
Lake Mahagnaw,	Burawan,		Leyte
Lake Maragang			Zamboanga Sibugay
Cave-sourced river systems	(to be determined, e.g., Wahig-Inabanga river system, Bohol)		So. Cotabato
Lake Sebu,			

Lake Maughan	Tiboli		South Cotabato
Lake Buluan	Lutayan, Sultan Kudarat, Buluan, and Mangodadato Buluan,		Maguindanao, Sultan Kudarat
Lake Dapao	Kalanogas,		Lanao del Sur
Aliwagwag Protected Landscape	Cateel		
Davao River			
Sibulan River			
Tamugan River			
Allah River			South Cotabato
Lake Mainit	Agusan del Norte		
Vitali Watershed			
TalonTalo,	Mampang,Tugbungayan Greater Mindanao-Zamboanga City		
Cagayan de Oro River Basin	Bukidnon,(Libona,Talakag&Baungon), Cagayan de Oro (Socio-economic important) and Cagayan de Oro City		
Budatu Lake	Jolo,		Sulu
Languyan River	Languyan		Tawi-tawi
Lake Pinamaloy	Don Carlos		Bukidnon
Lake Napalit	Pangantukan, Bukidnon		Pangantukan, Bukidnon
Magsaysay coastal area			Magsaysay, Misamis Occidental
Mantigue island			Camiguin Island
Baliangao PLS	Baligao,		Misamis Occidental
Lake Duminagat	(inside MMRNP)		
Carmen wetlands	Carmen		Davao del Norte

## **Annex C Prioritization Based on Conservation Investments**

### **Category (in terms conservation investment) (investment→management programs)**

LOW – with management plan and with investment

MEDIUM – with management plan and minimum investment

HIGH - NO management plan and no investment

<b>LOW</b>	<b>MEDIUM</b>	<b>HIGH</b>	<b>INSUFFICIENT INFORMATION</b>	<b>BASIS</b>
Batanes island				Protected area, high investment, remote area,
Babuyan Island				Protected area, high investment, remote area,
	Buguey Wetlands			Research station of BFAR, included in ICRMP,
Manila Bay				supreme court ruling to clean up
PAgbilao and Tayabas Bay				Study of ARCB
	Ragay Gulf			Study of ARCB
	Mactan, Kalawisan, cansaga bay			Urban area
Tubbataha reef				
		Polillo island		
	Caramoan island			Catching up for tourism;
Puerto Galera				LGU manage
		Ursula island		Bird sanctuary
	Balabac Group of Islands			Research only; ongoing project on seaweeds by BFAR; no management plan
	Northwest Panay Peninsula Natural Park			No more existing project, high threat because of mining
Olango Island				
		Biliran and MArhipipi		mining
Siargao Island Protected Land and Seascape				
	Tawi-tawi island			BFAR programs; Haribon
		Simunul and Manuk Manka islands		Threats Peace and order
		Sibutu		
El Nido				
Cabulao Bay				

	Malampaya Sound			
		Balayan Bay		
		Talabong island and Bais Bay		
	Panguil Bay			Proposing for Ramsar site
		Ulugan Bay		
Inabanga Coast				Awardee of good governance (pwca)
		Candaba Swamp		Included in River basin management plan;
		Lalaguna Marsh		Probable peatland
	Naujan Lake			Probable peatland
Coron Lakes				
	Lake Manguao			
Puerto Princesa Subterranean River NationalPark				
	Agusan Marsh Wildlife Sanctuary			
	Lake Lanao			
	Liguasan Marsh			



## Bibliography

Department of Environment and Natural Resources-Protected Areas and Wildlife Bureau, 2005. UNEP/GEF Project: Reversing Environmental Degradation Trends in the South China Sea and Gulf of Thailand – Philippines National Report on Wetlands. Quezon City, Philippines, 104p.

Fortes, M. 2008. Seagrass map of the Philippines.

Gonzales, R.O, M.R. Deocadez, and P.M. Aliño. Reefs Through Time: State of the Coasts 2008. In Coral Reef Information Network of the Philippines (Philreefs) 2008. Reefs Through Time 2008: Initiating the state of the coasts report. Philreefs, MPA Support Network (MSN) Marine Environment and Resources Foundation, Inc. (MERF, Inc.) and the Marine Science Institute, University of the Philippines (MSI-UP), Diliman, Quezon City, Philippines.

Luna, Ma. Paz G. 2005. *Review of Legislation and Policies on Philippine Wetlands*. UNEP/GEF Project: Reversing Environmental Degradation Trends in the South China Sea and Gulf of Thailand. Department of Environment and Natural Resources - Protected Areas and Wildlife Bureau, Quezon City, Philippines, 24 pp.

Nañola, C.L., Jr., P.M. Aliño, H.O. Arceo, W.Y. Licuanan, A.J. Uychiaco, M. Quiblan, W. Quiblan, W. Campos, A. Alcala, A. White and E. Gomez. Status Report on Coral Reefs of the Philippines-2004. Proceedings of 10<sup>th</sup> International Coral Reef Symposium, 1055-1061 (2006).

Ong, P.S., L.E. Afuang, and R.G. Rossell-Amkbal (eds.)2002. Philippine Biodiversity Conservation Priorities: A Second Iteration of the National Biodiversity Strategy and Action Plan. DENRPAWB, CI-Philippines, Biodiversity Conservation Program (BCP) \_ University of the Philippines Center for Integrative and Development Studies (UPCIDS) and Foundation for the Philippine Environment (FPE), Quezon City, Philippines.

Protected Areas and Wildlife Bureau – Department of Environment and Natural Resources, 2009. The Verde Framework.

The Ramsar Convention on Wetlands

Tuddao, Vicente B. Jr., Framework Planning for River Basin Management – the Philippine Approach. CRBOM Small Publication Series No. 12, Indonesia, November 2009.

### Internet Sources

(<http://taal-lake-blag.blogspot.com/2009/12/taal-volcano-protected-landscape.html>).  
(<http://taal-lake-blag.blogspot.com/2009/12/taal-volcano-protected-landscape.html>).  
[http://sc.judiciary.gov.ph/news/courtnews%20flash/2008/12/12180801.php /](http://sc.judiciary.gov.ph/news/courtnews%20flash/2008/12/12180801.php/)  
(<http://www.worldweatherpost.com/2011/05/29/floods-feared-from-reclamation-project-in-las-pinas-paranaque-lagoon/>)  
(<http://www.earthislandph.org/content/article/coastal-clean-911-freedom-island-las-pinas-paranaque-critical-habitat-eco-tourism>).