



INTERNATIONAL WATERS RESULTS NOTES

<http://www.iwlearn.net/results>

26/09/2011

Addressing Land-Based Activities in the Western Indian Ocean (WIO-LaB)

GEFID#: 1247 GFL/QGL-2328-2731-4792, [[GEF Agency Project ID#]]: GF/XG-6030-04-11

Project Status: Completed



1. The development, negotiation and adoption of the Protocol for the Protection of the Marine and Coastal Environment of the Western Indian Ocean from Land- Based Sources and Activities (LBSA Protocol); and the Amended Convention for the Protection, Management and Development of the Marine and Coastal Environment of the Western Indian Ocean (Amended Nairobi Convention), by all Contracting Parties to the Nairobi Convention.
2. Successful completion of six demonstration projects. Two of the projects namely: Municipal Waste Water Management at Shimo La Tewa Prison using wetland-lagoon system in Kenya, and Stormwater/Wastewater drainage and treatment using a lagoon/constructed wetland system on Pemba Island in Tanzania, have introduced very successful cost effective approaches in the management of municipal wastewater for urban population of up to 5,000 and 20,000 respectively at an affordable cost.
3. Revision and production of the Second Edition of the School Teacher's Guide to Marine Environmental Education in the Western Indian Ocean region. 500 copies have been disseminated to schools in the WIO region and the demand is very high.

Dixon Waruinge

Dixon.waruinge@unep.org

**Addressing Land-Based Sources and Activities in the Western Indian Ocean,
Nairobi Convention, United Nations Environment Programme**

PROJECT OBJECTIVE

The broad development goal of the project was to contribute to the environmentally sustainable management and development of the Western Indian Ocean region by reducing impacts of land-based activities on rivers, estuaries and marine and coastal waters as well as their biological resources.

RESULTS: PROCESS

INDICATOR#1: *Revised Transboundary Diagnostic Analysis on Land Based Activities and Sources of pollution degrading the coastal and marine environment of the Western Indian Ocean (TDA) available and agreed by the end of year 4.*

RESULT: *The completion of a country endorsed TDA which was published in 2009 and broadly disseminated. The TDA contributed to the formulation of the Strategic Action Programme for the WIO region.*

INDICATOR#2: *Revised Strategic Action Programme for the Protection of the Coastal and Marine Environment of the Western Indian Ocean from Land Based Sources and Activities (WIO-SAP) available and endorsed at Ministerial level by middle of year 4.*

RESULT: *Completion of the WIO-SAP which was endorsed by all Contracting Parties to the Nairobi Convention in April 2010. In response to issues and strategic actions identified on physical alteration and destruction of habitats the WIO-SAP has catalysed the negotiation for a protocol concerning integrated coastal zone management.*

INDICATOR#3: *Protocol for the Protection of the Marine and Coastal Environment of the Western Indian Ocean from Land Based Sources and Activities (LBSA Protocol) with annexes available by middle of year 1.*

RESULT: *Development and negotiation of the LBSA Protocol by December 2009. The protocol was adopted by all Contracting Parties to the Nairobi Convention in April 2010.*

RESULT: *Development and negotiation of the Amended Convention for the Protection, Management and Development of the Marine and Coastal Environment of the Western Indian Ocean (Amended Nairobi Convention) in by December 2009. April 2010. The Amended Nairobi Convention was adopted by all Contracting Parties to the Nairobi Convention in April 2010.*

INDICATOR#5: *National Action Plans for the protection of the marine environment from land based activities for four countries available by the end of the project.*

RESULT: *Preparation of National Action Plans for Comoros, Kenya, Madagascar, Seychelles, South Africa and Tanzania completed. The National Plan for Kenya has led to the drafting of a coastal management policy.*

RESULTS: STRESS REDUCTION

INDICATOR#1: *At least six demonstration projects addressing issues related to Municipal Waste Water (MWW), and physical alteration and destruction of habitats (PADH) successively implemented by the end of the project.*

RESULT: *Seven demonstration projects on Municipal Waste Water and Physical Alteration and Destruction of Habitats completed. Two demonstration projects on Municipal Waste Water Management at Shimo La Tewa Prison using wetland-lagoon system in Kenya and Stormwater/wastewater drainage and treatment using a lagoon/constructed wetland system on Pemba Island in Tanzania have introduced very successful approaches in the management of municipal wastewater for urban population of upto 5,000 and 20,000 respectively .*

INDICATOR#2: *Common regional monitoring methods established and pilot monitoring programme implemented by the end of 2007.*

RESULT: *Common regional water and sediment quality monitoring approaches and methods were agreed upon and training and standard sampling equipment provided. A regional water and sediment Monitoring Programme designed and successfully implemented.*

RESULTS: WATER RESOURCE AND ENVIRONMENTAL STATUS

INDICATOR#1: *Regional guidelines for Environmental Impact Assessment (EIA) developed by the end of 2007.*

RESULT: *Regional EIA guidelines were developed, finalized and launched in 2007. An additional CD based EA toolkit was also developed.*

INDICATOR#2: *Regional Environmental Quality Objectives (EQO)/Environmental Quality Standards (EQS) defined and approved by the end of 2007.*

RESULT: *EQO/EQSs prepared and approved by the Regional Water and Sediment Quality Working Group.*

INDICATOR#3: *Long-term monitoring protocol developed by the end of 2007.*

RESULT: *A long term monitoring Protocol completed and endorsed by the Regional Water and Sediment Quality Working Group.*

The Global Environment Facility (GEF) **International Waters Results Notes** series helps the transboundary water management (TWM) community share its practical experiences to promote better TWM. To obtain current *IW Results Notes* or to contribute your own, please visit <http://www.iwlearn.net/results> or email info@iwlearn.org.