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Third Meeting of the Scientific, Technical and Advisory
Committee (STAC) to the Protocol Concerning Pollution
from Land-Based Sources and Activities (LBS Protocol)
in the Wider Caribbean Region

Miami, USA, 31 October to 2 November 2016

**STATUS OF ACTIVITES OF THE ASSESSMENT AND MANAGEMENT OF
ENVIRONMENTAL POLLUTION (AMEP) SUB-PROGRAMME FOR 2015-2016**

[Covering the period January 1, 2015 – December 31, 2016]

For reasons of economy and the environment, Delegates are kindly requested to bring their copies of the Working and Information documents to the Meeting, and not to request additional copies.

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Programme Overview

1. This report presents the status of activities for the sub-programme on the Assessment and Management of Environmental Pollution (AMEP) in support of the Protocol Concerning Land-Based Sources of Marine Pollution (LBS Protocol) for the period 2015-2016. It also provides a summary of relevant recommendations and decisions of the Second Meeting of the Scientific, Technical and Advisory Committee to the LBS Protocol (2nd LBS STAC), Second Meeting of the Contracting Parties (2nd COP) to the LBS Protocol, and Sixteenth Intergovernmental Meeting on the Action Plan for the Caribbean Environment Programme (16th IGM) (Annex I of this report).
2. The overall goal of AMEP is to prevent, reduce, and control pollution of the coastal and marine environment from land and marine-based sources thereby enabling countries of the Wider Caribbean Region (WCR) to meet their obligations under the *Protocol Concerning Pollution from Land-based Sources and Activities* (LBS Protocol) and the *Protocol Concerning Co-Operation in Combating Oil Spills* (Oil Spills Protocol).
3. The objectives of the AMEP sub-programme are to:
 - a) Coordinate and oversee the day-to-day implementation of AMEP projects and activities within the framework of the Cartagena Convention;
 - b) Ensure that the formulation and implementation of projects and activities satisfy the obligations of the LBS and Oil Spills Protocols;
 - c) Promote ratification of, accession to, and effective implementation of the LBS and Oil Spills Protocols;
 - d) Enhance coordination, collaboration and communication with relevant regional and international organizations in the development and implementation of AMEP projects and activities; and
 - e) Enhance involvement of LBS and Oil Spills Regional Activity Centers (RACs) in the design and implementation of AMEP's projects and activities.
4. The AMEP Programme Officer continued to be responsible for the coordination and supervision for the implementation of the programme's activities for the biennium with support from the AMEP/CETA Team Assistant and the AMEP Programme Assistant in 2015 as well as two summer interns: Ms. Lowine Hill from Guadeloupe and Ms. Jody Kay Maxwell from Jamaica. The new Coordinator of CAR/RCU, who assumed duties November 16, 2015, played a supporting role in promoting ratification and implementation of the LBS Protocol. The Directors of the LBS RACs and the Regional Project Managers for the GEF Projects provided additional programming and technical support.
5. The AMEP sub-programme, through the AMEP Programme Officer and staff, supported national and regional activities regarding reduction of pollution in the WCR and safeguarding the coastal marine environment, through representation on several national, regional and global committees. Table 1 below reflects the committees on which staff of the AMEP sub-programme made contributions during the period.

Table 1: Representation of AMEP staff on National, Regional and Global Committees

No.	Committee	Scope	Relevance to Cartagena Convention/LBS Protocol	Nature of Meeting	Frequency
1	United Nations Project Coordinating Team	National	Ensured coordination of CEP projects implemented in Jamaica with other UN Initiatives	Face to Face	Monthly
2	United Nations Communications Group	National	Enabled sharing of communications resources and improved visibility of CEP projects in Jamaica and regionally	Face to Face	Monthly
3	United Nations Monitoring and Evaluation Group	National	Supported monitoring and evaluation of CEP projects in Jamaica	Face to Face	Quarterly

No.	Committee	Scope	Relevance to Cartagena Convention/LBS Protocol	Nature of Meeting	Frequency
4	UNDAF Specialized Group on Environment	National/Regional	Provided technical input on environment in support of the Sustainable Development Goals	Face to Face	Variable
5	Technical Advisory Committee (TAC) – Caribbean Public Health Agency (CARPHA)	Regional	Supported coordination on environmental health projects in the Caribbean and on the GEF IWeco project. Provided support to CARPHA's Environment Advisory Committee	Virtual	Semi-annually
6	Executive Board of Caribbean Public Health Agency	Regional	Observer Status – Promoted coordination between Environment and Health.	Virtual	Semi-annually
7	Global Water Partnership Caribbean Technical Committee	Regional	Supported coordination on water-related projects in the Caribbean	Virtual and Face to Face	Annually
8	Project Executive Group of the GEF CLME+ Project	Regional	Participated as partner executing agency for CLME+ project.	Face to Face	Annually
9	Strategic Action Programme (SAP) of the GEF CLME+	Regional	Participated as member of Interim Coordinating Mechanism for the SAP	Face to Face	Annually
10	Interagency Coordinating Group of GEF CReW	Regional	Provided updates as lead regional Executing Agency for the CReW Project	Face to Face and Videocon	As Required (Minimum Monthly)
11	Project Steering Committee of the GEF CReW	Regional	Participated as lead regional Executing Agency for GEF CReW	Face to Face	Annually
12	Interagency Coordinating Group for GEF IWeco	Regional	Provided updates as lead regional Executing Agency for GEF IWeco	Face to Face and Virtual	Quarterly
13	Project Steering Committee Meeting of the GEF IWeco Project	Regional	Provided reports as lead regional Executing Agency for the IWeco Project	Face to Face	Annually
14	Regional Technical and Advisory Group of the GEF IWeco Project	Regional	Provided technical advice for IWeco Project as lead regional Executing Agency	Face to Face	Annually
15	UNEP CEP Working Group for the State of Convention Area Report (SOCAR)	Regional	Supported development of the State of Convention Area Report (SOCAR) under the LBS Protocol	Virtual	As Required (Minimum Monthly)
16	CARICOM Technical Advisory Working Group on Water	Regional	Enhanced collaboration between CEP and CARICOM and promoted ratification of the Cartagena Convention and Protocols	Virtual	To be determined
17	Marine Protected Areas Group of Experts (GCFI)	Regional	Provided expert advice on marine litter and pollution-related issues	Virtual	Not required
18	Research Group on Pollution (GCFI & CLME+)	Regional	Provided input to development of research agenda for pollution	Virtual & Face to Face	As required

No.	Committee	Scope	Relevance to Cartagena Convention/LBS Protocol	Nature of Meeting	Frequency
19	Caribbean Node for Marine Litter Management	Regional	Host to Node along with the Gulf and Caribbean Fisheries Institute	Virtual and Face to Face	To be determined
20	Caribbean Platform for Nutrients Management	Regional	Host for Platform and directly supported LBS Protocol Obligations	Virtual and Face to Face	To be determined
21	Caribbean Platform for Wastewater Management	Regional	Provided technical support to platform hosted by CWWA	Virtual and Face to Face	To be determined
22	Working Group re: RAC REMPEITC	Regional	Identified options for secondments to Centre	Virtual	As required
23	UN Environment Ecosystem Branch – Communications Group	Global	Provided input on communication-related issues	Virtual	Monthly
24	Coordinating Meetings of UNEP Regional Seas	Global	Promoted sharing of experiences and harmonized approaches	Virtual	As required
25	Indicators Working Group of UNEP Regional Seas	Global	Promoted harmonized approach to development of indicators	Virtual	As required
26	Freshwaters Working Group of UNEP	Global	Promoted harmonized approach to UNEP Freshwater projects and activities	Virtual	As required

6. During the biennium the AMEP Programme Officer was also responsible for the CETA sub-programme and assisted in the supervision of the Computer/Information Assistant.
7. The AMEP Programme officer supervised the Communications Specialist and Administrative Assistant recruited to provide dedicated support for implementation of the GEF CRew Project.
8. During the reporting period, the AMEP sub-programme was represented at several regional and global meetings and conferences. AMEP representatives contributed with oral and poster presentations, exhibition booths with displays of videos, promotional material and posters of work relating to the LBS Protocol. A comprehensive list of these meetings is presented in Annex IV.
9. The AMEP Programme Officer took several steps throughout the biennium aimed at establishing and improving communication with various stakeholders as well as facilitate knowledge sharing. These steps, as outlined in Table 2, highlighted and promoted ideas and actions, and provided input on national and regional activities to spur interest and support towards national and regional pollution prevention and reduction efforts.

Table 2. Summary of Reports, Newsletters and Communication Activities Coordinated by AMEP

No.	Report	Frequency
1	Input to UN Environment (UNEP) Ecosystems Division Newsletter	Quarterly
2	Assessment and Management of Environmental Pollution Newsletter	Quarterly
3	Input to UN Environment Annual Reports	Annually
4	Input to UN Environment Reports on relevant UNEA Resolutions	As Required
5	Report on Implementation of Regional Seas Strategic Directions	Annually
6	Report on Implementation of UNEP Global Programme of Action (GPA)	Annually

No.	Report	Frequency
7	Input to Secretary-General's Report on the Ocean and Law of the Sea	Annually
	Report on measures taken in support of Resolution 67/205 adopted on 21 December 2012 "Towards the sustainable development of the Caribbean Sea for present and future generations".	Annually
8	Project Financial and Progress Reports to Donors, Project Coordinating Units, implementing agencies & UNEP HQ	As Required (Quarterly, Semi-annually & Annually)
9.	Website and Social Media updates	Daily
10.	Database updates – Focal Points and Lab Capacity	As Required
11.	Report to the United Nations Country Team on UNDAF	Annually
12.	Report to Planning Institute of Jamaica on Projects and Activities in Jamaica	Annually

10. During the biennium, confirmation was received from the Government of Colombia, as depository for the Cartagena Convention, of the ratification of the LBS Protocol by Jamaica in November 2015. This brought the number of countries that have ratified the LBS Protocol to 12.
11. The AMEP sub-programme continued to develop and strengthen relationships with relevant regional and international organizations. Coordination meetings were held with several collaborating agencies as reflected below:

United Nations Environment Programme Global Programme of Action (UNEP/GPA) ▪ UNEP Regional Office for Latin America and the Caribbean (ROLAC)	Caribbean Public Health Agency (CARPHA) ▪ International Atomic Energy Agency (IAEA)
Caribbean Community (CARICOM) ▪ Intergovernmental Oceanographic Commission Sub-commission for the Caribbean and adjacent regions (IOCARIBE)	Water Centre for the Humid Tropics of Latin America and the Caribbean [el Centro del Agua del Trópico Húmedo para América Latina y el Caribe (CATHALAC)]
Organization of Eastern Caribbean (OECS) ▪ National Oceanic and Atmospheric Association (NOAA) ▪ Caribbean Water and Sewage Association (CAWASA)	Marine and Coastal Research Institute [el Instituto de Investigaciones Marinas y Costeras (INVEMAR)] ▪ US Environmental Protection Agency (EPA)
UN Economic Commission for Latin America (UNECLAC) ▪ Pan American Health Organization (PAHO) ▪ Commission of the European Union (EU) ▪ Caribbean Water and Wastewater Association (CWWA) ▪ Inter-American Development Bank (IDB)	Association of Caribbean States (ACS) ▪ UN Development Programme (UNDP) ▪ United Nations University, Institute for Water, Environment and Health (UNU-INWEH) ▪ Caribbean Youth Environment Network (CYEN)

12. The working group on Environmental Monitoring and Assessment continued to work during the biennium towards the further development of the outline for the State of the Convention Area Report (SOCAR). The AMEP sub-programme convened a Regional Workshop of Experts on the SOCAR in Jamaica, August 2016, which resulted in an agreement to use the Driving Forces, Pressures, State, Impact, Responses (DPSIR) approach for the further development of the Report.
13. LBS RACs continued to play an important role in the development and implementation of AMEP projects. The Regional Activity Centre for Oil Spills, RAC-REMPEITC assisted countries to comply with the MARPOL Special Area Designation for Annex V, ship-generated waste for the Caribbean, which became effective in May 2011. A listing of technical/expert and other meetings the LBS RACs assisted in organizing and convening can be found in Annex IV.

14. In accordance with Decision III of the 16th IGM and the 13th COP (see Annex I), a formal Host Country Agreement was signed between UNEP CEP and the Government of Curaçao for the hosting of LBS RAC REMPEITC-Caribe during the RAC's 8th Meeting of the Ordinary Steering Committee held in Willemstad, Curaçao from 19-20 May 2016. The host agreement with the RAC IMA Trinidad and Tobago is under revision.
15. A UNEP Sub-Regional Office for Caribbean SIDS was established in February 2016, with operations based at UNEP CEP in Kingston, Jamaica. The AMEP sub-programme will collaborate with this office to enable greater synergies and coordination between the work of UNEP in the Wider Caribbean and the implementation of the CEP Work Plan in support of the Cartagena Convention and its Protocols.
16. Wastewater management continued to be a key focus of the AMEP sub-programme with the implementation of the GEF funded project, "Testing a Prototype Caribbean Regional Fund for Wastewater Management" (GEF CReW) Project which will end in December 2016. UNEP CEP supported the CReW Project by showcasing some of the major project achievements at regional and international fora such as the 8th GEF Biennial International Water Conference, and the 24th Annual Conference and Exhibition of the Caribbean Water and Wastewater Association. The website (www.gefcrew.org) was also redesigned during the biennium.
17. The AMEP sub-programme made significant advances toward reducing the level of pollution in the WCR from land-based sources through the GEF CReW Project. Training was provided to over 600 persons in wastewater management including on selection of wastewater treatment technologies, water and wastewater management, governance and sanitation. These sessions were conducted in collaboration with several agencies including the Caribbean Development Bank (CDB), the Caribbean Association of Water Utilities (CAWASA), the World Bank, the IDB, Global Water Partnership Caribbean, UNITAR, University of Technology Jamaica and the Water Center (Mexico).
18. The further ratification of the LBS protocol was promoted by the AMEP sub-programme during the biennium with the development of new outreach products which included infographics, technical presentations/publications and fact sheets. A comprehensive though not exhaustive list of these outreach products are provided in Annex V.
19. In accordance with Decisions VII and VIII of the 16th IGM and 13th COP, the AMEP sub-programme worked with the SPAW sub-programme and the Project Management Unit of the GEF-funded Caribbean Large Marine Ecosystem Project (GEF CLME) during the biennium, to support the development of the Strategic Action Programme (SAP) and the Full-Sized Project Document (ProDoc) for the Caribbean and North Brazil Shelf Large Marine Ecosystems (CLME+) project. Several inputs were made as to how the CLME+ project would support the LBS Protocol and the development of the State of Convention Area Report. The First CLME+ Project Steering Committee Meeting and Inception Workshop took place in Cartagena, Colombia in January 2016 and the Second Meeting of the Project Executive Group took place September 2016 in Miami, Florida. The AMEP sub-programme will directly support work on ecosystem based management/an ecosystem approach to fisheries (EBM/EAF) within the CLME+ region, as well as on pollution reduction in particular from nutrients, habitat restoration and regional governance. An outline of the GEF CLME+ Project and its joint implementation with the AMEP and SPAW sub-programmes is presented as Information Document UNEP(DEPI)/CAR WG.37/INF.7.
20. Based on the achievements and lessons of the GEF IWCAM project, a follow up GEF proposal entitled, "Implementing Integrated Land, Water & Wastewater Management in Caribbean SIDS", (IWEco), was submitted and later approved by the GEF in March 2015. The project has completed its inception phase. The First Project Steering Committee Meeting and Inception workshop took place in Kingston, Jamaica, September 2016.
21. During the 2015-2016 biennium, efforts continued to increase the involvement of all national and technical focal points involved with AMEP projects and activities.

Programme Coordination Cost and Expenditure (in USD)

Project Period	Source of Funds	Projected Budget (2015-2016)	Expenditure (2015-2016)
2015-2016	CTF	1,092,000	754,861 ¹

22. Outlined in the table below is a summary of contracts undertaken in implementing the AMEP sub-programme during the 2015-2016 period:

Contract	Signed Date/Start Date	Expiry Date	Contracted Organizations/Person	Country	Total Cost (USD)
1.	28-May-14	30- Dec-15	World Resources Institute	USA	185,245
2.	13-Aug-15	31-Dec-15	Global Water Partnership Caribbean – GWP-C	Trinidad & Tobago	20,000
3.	20-Apr-15	30-Nov-16	Secretaria de Energía Recursos Naturales, Ambiente, y Minas	Honduras	55,000
4.	09-Apr-15	30- June-16	Ministerio de Ambiente y Energía	Costa Rica	55,000
5.	07-May-15	30-Nov-16	Ministry of Health and the Environment	Antigua & Barbuda	65,000
6.	22-Dec 15	30-June-16	National Environment and Planning Agency	Jamaica	48,948
7.	15-Mar-14	31-Oct-16	El Ministerio de Ambiente y Recursos Naturales	Guatemala	60,000
8.	11-May-16	31-Oct-16	El Centro del Agua Trópico Húmedo para América Latina	Panama	55,000
9.	05-Oct-16	31-Dec-16	The Caribbean Water and Wastewater Association	Trinidad & Tobago	60,000
10.	24-Aug-15	12-Feb-16	Pierluigi Rauco	Rome	9,000
11.	14-Mar-16	30-Apr-16	Peter Whalley	United Kingdom	10,500
12.	28-Mar-16	31-Aug-16	Elizabeth Emanuel	Jamaica	24,000
13.	29-Apr-16	29-Jul-16	Diego Bourdelle-Cazals	Switzerland	11,700
14.	22-Feb-16	30-Sep-16	Ashish Dashottar	USA	23,000
15.	1-Aug-16	31-Mar-17	Sherry Heileman	Trinidad & Tobago	60,000
16.	1-Aug-16	30-Nov-16	David Simmons	Trinidad & Tobago	32,000
17.	1-Dec-16	30-Jun-17	Carol Marie-Louise Felix	St. Lucian	45,000

¹ Programme Coordination cost includes staffing, travel, reporting, communication, equipment, administration. Office support costs including Communications, Equipment, & Administration for the AMEP sub-programme have been estimated up to the end of September 2016.

Status of the Protocol Concerning Pollution from Land-Based Sources and Activities (LBS Protocol)

23. Since the last reporting period, Jamaica became the twelfth country to ratify the LBS Protocol.

Contracting Party	Date of Signature	Date of Ratification	Entry into Force
Antigua and Barbuda		13 July 2010	13 August 2010
Bahamas		24 June 2010	13 August 2010
Belize		4 February 2008	13 August 2010
Republic of Colombia	2 October 2000		
Republic of Costa Rica	6 October 1999		
Dominican Republic	3 August 2000	6 September 2012	5 October 2012
France	6 October 1999	4 May 2007	13 August 2010
Grenada		5 March 2012	4 April 2012
Guyana		14 July 2010	13 August 2010
Jamaica		5 November 2015	4 December 2015
Kingdom of the Netherlands	6 October 1999		
Panama		9 July 2003	13 August 2010
Saint Lucia		30 January 2008	13 August 2010
Trinidad and Tobago		28 March 2003	13 August 2010
United States of America	6 October 1999	13 February 2009	13 August 2010

24. UNEP CEP continued to work with LBS focal points to promote and facilitate the ratification of the LBS Protocol in the Wider Caribbean Region.

Summary of Projects and Activities

25. The following provides a summary of the background, objectives, expected outputs/outcomes, beneficiary countries, expenditures and status for all projects and activities implemented under the AMEP sub-programme for the period 2015-2016. The expenditures are up to December 31, 2016 and are expressed in US Dollars (USD).

A. GEF Projects

(i) Testing a Prototype Caribbean Regional Fund for Wastewater Management (GEF CReW)

Background

26. GEF CReW Implementing Agencies, UNEP and the IDB, requested and received GEF assistance on behalf of the countries of the WCR to improve wastewater management capacity through the development of a Prototype Regional Fund as a possible modality for providing sustainable financing for wastewater management projects in the region while also addressing key capacity constraints within policy and legal frameworks for wastewater management. It was agreed by countries and the Implementing Agencies that UNEP CEP would be the regional executing agency for the project.

27. The CREW project addressed obstacles faced by WCR countries to meet their obligations under the LBS Protocol. Chief among these obstacles, as documented in the UNEP GPA 2006 Report, are the significant financial constraints that exist and the lack of adequate, affordable financing for investments in wastewater management in the WCR. Other obstacles include inadequate national policies, laws and regulations; limited enforcement of existing laws and regulations; poor communication and collaboration between various sectors and agencies which contribute to a fragmented approach to wastewater management; limited awareness, knowledge and understanding of appropriate, alternative and low-cost wastewater treatment technologies; and limited technical capacity in developing project proposals, operating and maintaining treatment systems, and monitoring and analyzing wastewater discharges and impacts.
28. The start date for the project was June 2011 and the expected completion date for UNEP CEP activities is August 2017 with formal project closure expected by June 2017.
29. The following are the project's beneficiary countries: Antigua and Barbuda, Barbados, Belize, Costa Rica, Guatemala, Guyana, Honduras, Jamaica, Panama, Saint Lucia, Saint Vincent and the Grenadines, Suriname and Trinidad and Tobago. The CREW project has four pilot countries - Jamaica, Belize, Guyana, and Trinidad and Tobago.
30. The full project consists of five components: Investment and Innovative Financing for Wastewater Management (IDB); Reforms for Wastewater Management (UNEP); Communications, Outreach and Information Exchange (UNEP); Monitoring and Evaluation (IDB/UNEP) and Project Management (IDB/UNEP).

Objective(s)

31. The project objectives are: (1) to establish innovative, financing mechanisms for cost-effective and sustainable financing of wastewater management in the WCR; (2) to facilitate policy discussions and strengthen legislative frameworks; and (3) to facilitate regional dialogue and knowledge exchange among key stakeholders in the WCR.

Expected Outcomes

32. The expected outcomes for this project are:
- Improved access to financing for wastewater management;
 - Successful development of pilot projects;
 - Improvements in technical capacity for project implementation;
 - Reduced land-based pollution to terrestrial and coastal waters from untreated wastewater in pilot projects locations;
 - Improved stakeholder awareness about acceptable, sustainable and cost-effective wastewater management solutions;
 - Increased interest and demands for Pilot Financing Mechanisms in the WCR; and
 - Increased knowledge, dissemination of information and use of participatory methods and practices by government agencies, private sector and civil society on wastewater management in the WCR.

Project Cost and Expenditure (in USD)

Project Period	Total Project Cost	Source of Funds	Total UNEP Budget	Projected Budget For Project (2015-16)	Actual Budget (2015-16)	Expenditure (2015-16)
2011-2016	20,000,000 ²	GEF	3,355,000	993,314.90	993,314.90	963,190.27 ³

² Does not include project preparation phase, indicates GEF funding only

³ UNEP expenditures only up to 30 September 2016

Beneficiary Countries

Regional: Antigua and Barbuda, Barbados, Belize, Costa Rica, Guatemala, Guyana, Honduras, Jamaica, Panama, Saint Lucia, St Vincent and the Grenadines, Suriname, and Trinidad and Tobago.

Full Project Breakdown

Budget per Component - Summary Table - FULL SIZE PROJECT: Testing a Prototype Caribbean Regional Fund for Wastewater Management (CRw)			
Project Budget			
Project Components/Sub-projects/Activities	GEF Funding USD: \$20 Million	Co-Financing USD: \$253 Million	Total Project Cost USD: \$273 Million
Component 1: Investment and Innovative Financing for Waste Water Management (IDB)	15,073,000	244,392,000	259,465,000
Sub-project I.1: Investment and innovative financing for wastewater management (4 Pilots)	13,000,000	242,042,000	255,042,000
Sub-project I.2: Project Development Support	1,000,000	2,350,000	3,350,000
Sub-project I.3: Capacity Strengthening for Wastewater Pilots	1,073,000	0	1,073,000
Component II: Reforms for Waste Water Management (UNEP)	2,500,000	2,999,996	5,499,996
Sub-project II.1: Capacity Building - Policy and Institutional Strengthening	1,540,000	894,736	2,434,736
Sub-project II.2: Capacity Building - Legislative Reform	660,000	526,315	1,186,315
Sub-project II.3: Capacity Building - Awareness Raising	300,000	1,578,945	1,878,945
Component III: Communication, Outreach and Information Exchange (UNEP)	710,000	500,000	1,210,000
Sub-project III.1: Information Sharing and Dissemination	360,000	75,000	435,000
Subproject III.2: Integrated Information System	350,000	300,000	650,000
Component IV: Monitoring & Evaluation (UNEP/IDB) (UNEP – 90,000)	760,000	1,104,000	1,864,000
Sub-project IV.1: Monitoring & Evaluation	590,000	0	590,000
Sub-project IV.2: Financial & Operational Audits	170,000	0	170,000
Component V: Project Management (UNEP/IDB) (UNEP 35,000)	957,000	3,891,000	4,848,000
Sub-project V.1: Project Coordination	510,000	0	510,000
Sub-project V.2: Steering Committee	197,000	0	197,000
Sub-project V.2: Administrative Assistance	250,000	0	250,000
TOTAL PROJECT COST (\$)	20,000,000	252,886,996	272,886,996

Total Value of UNEP Executed Components: USD 3,335,000

Status

33. During the biennium, templates and toolkits for Wastewater Policy were developed to assist wastewater managers, chief technocrats and senior policy officers to develop and implement wastewater policies thus improving overall management of the sector. The toolkits will serve as a practical reference guide to stimulate change in how wastewater management policies are developed and revised in the future.
34. National capacity building in support of policy, institutional and legal reforms for wastewater management through Small Scale Funding Agreements (SSFAs) occurred in all of the participating countries. SSFAs were

developed specifically between UNEP CEP and the Governments of Antigua and Barbuda, Costa Rica, Guatemala, Honduras, Jamaica and Panama respectively during the biennium. The Secretariat faced some challenges in the disbursement of funds to partners following the implementation of the new administrative/accounting platform (UMOJA) which resulted in delayed payments. Contract extensions were therefore done to allow for project implementation.

35. One of the major capacity building activities conducted in 2015 included a Sanitation and Governance Workshop held in Antigua and Barbuda from 23-27 February 2015. UNEP CEP, through the GEF CReW project, partnered with the Caribbean Development Bank (CDB) and the Caribbean Water and Sewerage Association (CAWASA) to organize this workshop which delivered water utility reform training for water utilities and was successfully completed by thirty-eight professionals from water and sewerage companies and health ministries. The workshop also built capacity in areas such as gender; climate change, use of wastewater as a resource, and monitoring and evaluation. It was a follow-up to an eight-week online course in Governance and Urban Sanitation which was run by the United Nations Institute for Training and Research (UNITAR), also with support of UNEP CEP through the project.
36. Other capacity building activities included: ▪ Regional Training in Monitoring and Evaluation of Domestic Wastewater, conducted by LBS RAC CIMAB in Havana, Cuba from 13-17 April 2015; ▪ Regional Resource Valuation Workshop held in Miami from 23-24 August 2015; ▪ CARPHA Environmental Health Conference held in Saint Lucia from 18-20 November 2015; ▪ and a National Wastewater Management Workshop in Kingston, Jamaica from 23-24 November 2015. All of these national and regional capacity building activities were used to promote the importance of ratification and implementation of the LBS Protocol and in particular to assist countries in meeting their obligations under Annex III of the Protocol on domestic wastewater.
37. Under the project, UNEP CEP partnered with the World Resources Institute (WRI) to conduct Pilot Resource Valuation Studies at three sites in two participating countries – Panama and Trinidad and Tobago. Working with local agencies, the WRI-led studies examined the trade-offs between ecosystem and human health and the costs of investing in improved domestic wastewater management. The overall aim of the valuation studies was to improve the regional understanding of the connections between wastewater treatment and human and ecosystem health and to enhance the capacity within the WCR for conducting economic resource valuations related to wastewater management investments, and to use the findings to develop a general economic resource valuation approach which could be applied in any Caribbean country. The experiences from the development and application of this resource valuation methodology for use in wastewater management planning were shared with the GEF CReW participating countries at the Regional Resource Valuation Workshop referenced in Item 39.
38. UNEP CEP convened and/or participated in several other meetings during the biennium where the work of the GEF CReW Project, the Cartagena Convention and in particular the LBS Protocol and Wastewater Management were showcased. These included: ▪ the GEF CReW Replication Strategy Workshop in Kingston, Jamaica from 4-8 May 2015 where input was gathered for the development of the new Project Identification Form (PIF) for a Global Environment Facility (GEF) follow-on project – CReW+; ▪ the Fourth (and final) Project Steering Committee Meeting in Antigua, Guatemala from 7-9 July 2015 where an update on the progress of all project components was provided; ▪ TNC's Wastewater and Reefs Strategy Development Workshop in Miami from 23-25 March 2015; ▪ Caribbean Water and Wastewater Association's (CWWA's) 24th Exhibition and Conference in Miami, USA; ▪ the Regional Policy and Enforcement Workshop in Trinidad and Tobago from 15-19 February 2016 ▪ and the Third Meeting of the Scientific, Technical and Advisory Committee (STAC) to the LBS Protocol from October 31 to November 2, 2016. Several presentations relating to wastewater management, the LBS Protocol and the GEF CReW project were made at these events.
39. Through the CReW Project, UNEP CEP strengthened its partnership with many regional and international agencies and provided technical input on current and emerging pollution issues including: ▪ the First Waste-to-Energy Expo and Conference in Grenada from 20-23 January 2016; ▪ the First Steering Committee Meeting and Inception Workshop of the UNDP/GEF CLME+ project in Cartagena Columbia from 26-28 January 2016; ▪ Caribbean Platform for Nutrients Management Meeting in Trinidad and Tobago from 23-25 February 2016; ▪ and the Eighth Global Environment Facility Biennial International Waters Conference (IWC8) in Sri Lanka from 9-13 May 2016.

40. Several new publications were developed during the biennium and multiple items created to support greater public awareness about wastewater related issues and to enhance partnerships with the media. These included: ▪ six quarterly newsletters; ▪ four new poster series (Changing for Better); ▪ four media releases; ▪ and three briefing sheets. Four video documentaries were released during the period (▪ Wastewater Warning: Health Hazard; ▪ Wastewater Policy: A Caribbean Priority; ▪ The Belize Pilot; ▪ and The Value of Action (Resource Valuation). Three other videos were developed, with two planned for release by December 2016 (The Jamaica Pilot and CReW Lessons Learned and Wastewater as a Resource), and the third (The Guyana Pilot) on hold due to project changes in the participating country, Guyana.
41. All information materials produced were published on the redesigned website which was completed in February 2015. The Joomla platform of the redesigned site facilitates easier and faster information dissemination to stakeholders and is linked to the project's Facebook page which has attracted a steady growth of followers.
42. A Community of Practice (CoP) was established in December 2015 with input from UNEP CEP, to serve as a key project forum and mechanism for sharing knowledge and good practices, and capturing lessons learned from all project components. One lesson learned with regards to establishing a CoP is that such an initiative should be undertaken at an earlier phase in a project. The information expected to emanate from the CoP will help support decision making on wastewater management and related projects going forward. A link for the CoP is currently on the GEF CReW website (www.gefcrew.org) which connects to a member area on the IDB website as this aspect of the project was managed by the IDB.
43. A technical advisory group of country focal points was established to support the development of an implementation plan for a monitoring, evaluation and reporting system for wastewater management, including the design for a wastewater management M&E database. UNEP CEP used input from this group to inform the development of two documents: *Partnerships for Wastewater Management in the WCR* and *A Situation Analysis on Wastewater Management Platforms for the Wider Caribbean Region*. These efforts will form the basis for the further development of a Clearing House Mechanism (CHM) on Wastewater to serve as a database platform for the WCR. The existing GEF CReW project website is currently being incorporated within the existing UNEP CEP website (www.cep.unep.org) and will function as an initial CHM for wastewater management in the region. This will be further developed under future wastewater management projects and initiatives, including CReW+, subject to approval of the project proposal by the GEF.
44. As part of project completion activities, a summary document, *Charting a New Course for Wastewater Management in the Wider Caribbean Region: GEF CReW's Journey*, was completed in May 2016. The document captures the challenges, experiences and lessons learnt and can be found in the Publications section of the GEF CReW website (www.gefcrew.org/index.php/publications).
45. UNEP CEP provided inputs into annual project implementation reports (PIR) for the periods 1 July 2014-30 June 2015 and 1 July 2015 – 30 June 2016. Both reports were submitted to the GEF by the lead implementing agency, the IDB. The most recent PIR is available as Information Document UNEP(DEPI)/CAR WG.37/INF.18 Rev.1.
46. UNEP CEP provided support for the conduct of an external evaluation of the project. The terminal evaluation report is provided as an Information Document for the Meeting – UNEP(DEPI)/CAR IG.38/INF.4.

(ii) Implementing Integrated Land, Water & Ecosystem Management in Caribbean SIDS (GEF IWeco)

Background

47. Caribbean Small Island Developing States (SIDS) are facing multiple threats including degradation of land and water resources, depletion of biological resources and compromised ecosystem functioning due to intensive developmental pressures on very fragile environments.
48. Given the spatial and temporal scarcity of water resources in many countries of the Caribbean, in terms of supply reliability, several communities suffer from inadequate availability of clean drinking water and are faced with associated health problems due to unsanitary drinking water, lack of access to sustainable sanitation

services, and poor wastewater treatment.

49. Expanding development pressures have seen a dramatic increase in the generation of land-based sources of marine pollution from a wide range of point and non-point sources. The conversion of land, from forest to non-forest land cover, and unsustainable land management practices is the main trigger for accelerated erosion. The World Resources Institute (WRI) project, “Reefs at Risk”, noted that sediment loading presented a very significant risk to the health and productivity of reefs across the Caribbean region. Conversions of forest and coastal/aquatic ecosystems have triggered loss of species richness and diversity in all the countries of the Caribbean.
50. Climate change is a significant driver which may accelerate the rate of degradation of sensitive ecosystems in Caribbean SIDS. Under increased sea surface temperatures (SSTs), the frequency of high intensity hurricanes and rainfall events is a likely outcome that will worsen land degradation and ecosystem impairment, and further accelerate the deterioration of marine ecosystems through pollutant and sediment mobilization. Efforts to reduce negative environmental impacts, protect watersheds, and conserve endangered biodiversity while supporting traditional livelihoods have been frustrated by weak policy, regulatory and institutional environments. Human and financial resources availability within responsible state agencies remain constrained and compounded by limited economic incentives that will support private sector engagement to invest in greener, cleaner production processes.
51. The concept of “Ridge to Reef” management or the integrating watershed and coastal areas management (IWCAM) approach for natural resources in small islands provides an underpinning for addressing the multiple challenges of sustainable water, land (including forests) and biodiversity management and conservation, and pollution reduction, prevention and control.
52. UNEP CEP successfully developed and received funding from the GEF Secretariat for a new project on behalf of the Caribbean Small Island Developing States that participated in the GEF-IWCAM Project. This new project, titled Implementing Integrated Land, Water & Ecosystem Management in Caribbean SIDS (GEF IWEco), was approved in April 2015 and will run for a five year period from 2015-2020. UNEP and UNDP will be co-implementing partners of the project, with UNEP being the lead implementing agency. *UNEP CEP* will be the lead co-executing agency with CARPHA as the other executing agency.
53. The GEF IWEco project will contribute to improving the management and protection of the terrestrial, coastal and marine resources of the Caribbean Sea within the framework of the Cartagena Convention and the LBS and SPAW Protocols. It will promote the mainstreaming of IWRM and ecosystems management principles advanced under the GEF-IWCAM Project into national development frameworks. The project will also implement innovative solutions for reduced pollution and improved fresh and coastal water resources, taking into account the additional challenges imposed by climate change and climate variability.

Objective(s)

54. To realize the implementation of an integrated approach to water, land and ecosystems services management, supported by policy, institutional and legislative reforms, and implementation of effective appropriate technologies to accelerate contribution to global targets on access to safe and reliable water supplies and improved sanitation, and contributing to improved ecosystem functioning in the Caribbean.

Expected Outcomes

55. The expected outcomes of the project are:

- Outcome C1.1 Verifiable, evidence-based stress reduction at project sites through appropriate sustainable water, land and ecosystems management interventions that account for climate change;
- Outcome C1.2 Enhanced livelihood opportunities and socio-economic co-benefits for targeted communities from improved ecosystem services functioning;
- Outcome C2.1 Strengthened national and regional systems for monitoring of environmental status with respect to key international agreements;
- Outcome C3.1 Strengthened policy and legislation for the effective management of water, land and ecosystems resources that account for climate change;
- Outcome C3.2 Strengthened capacity of national and regional institutions and other stakeholders for water, land, and ecosystems management that accounts for climate change; and
- Outcome C4.1. Improved engagement and information access for practitioners and other stakeholders through targeted knowledge sharing networks.

Beneficiary Countries

Antigua & Barbuda, Barbados, *The Bahamas (under review by the GEF)*, Cuba, Dominican Republic, Grenada, Jamaica, Saint Kitts & Nevis, Saint Lucia, Saint Vincent & the Grenadines, and Trinidad & Tobago .

Project Cost and Expenditure (in USD)

Project Period	Total Project Cost	Source of Funds	Projected Budget (2015-16)	Actual Project Budget (2015-16)	Expenditure⁴ (2015-16)
2015-20	19,222,571	GEF	5,035,329	2,000,000	227,481.43

Status

56. UNEP CEP received a project preparation grant from the GEF Secretariat in 2013 to begin the development of the full sized project proposal for GEF IWeco with the assistance of the Caribbean Public Health Agency (CARPHA). The full-sized project proposal was submitted to the GEF Secretariat in June 2014 and project approval was received in April 2015. The project document is provided as Information Document UNEP (DEPI)/CAR WG.37/INF.9.
57. National focal points and country coordinators were identified for the development of national project proposals in eight participating countries (Antigua & Barbuda, Cuba, Dominican Republic, Jamaica, St Kitts & Nevis, Saint Lucia, St Vincent & the Grenadines, and Trinidad & Tobago) to allow each to undertake preliminary research, prepare the background, situational analysis and costed logical framework that provided the justification and formed the basis of the national project interventions. UNEP CEP is working with these countries to update their project documents, where required, including preparing revised work plans, budgets and time lines as well as providing justification on any changes made to their original project submission.
58. UNEP CEP successfully completed the development and submission of a medium-sized project (MSP) for The Bahamas which had expressed a desire to participate in the project after the PIF for the GEF IWeco project was submitted. Subject to approval from the GEF Secretariat, the MSP will be implemented within the framework of the IWeco project.

⁴ Expenditures up until 30 September 2016

59. For the national interventions, countries have committed a portion of their national STAR allocation. The STAR (acronym for the **S**ystem for the **T**ransparent **A**llocation of **R**esources, the financing modality of the GEF under the 5th replenishment) allocation are resources from the GEF assigned to countries under three focal areas; Climate Change, Biodiversity and Land Degradation. Cuba, the Dominican Republic and Jamaica have committed their resources toward the IWeco Project under their Biodiversity Focal Area, while Antigua & Barbuda, Saint Kitts & Nevis, Saint Lucia, Saint Vincent & the Grenadines and Trinidad & Tobago committed resources from their Land Degradation Focal Area. The Bahamas has also committed a portion of its GEF-STAR Allocation under its Biodiversity resource portfolio.
60. The delays in the startup of the IWeco project were initially due to delays in the approval process by the GEF. This was subsequently compounded by a changeover at UNEP to a new administrative and project management system – UMOJA which impacted many of UNEP CEP’s internal processes and projects.
61. The momentum has now picked up for the project, starting with multiple pre-meeting and meeting announcements as well as press releases. A series of project meetings were also hosted by project partners UNDP, CARPHA and the GEF Small Grants Programme in Kingston, Jamaica from 19-22 September 2016: Meeting of the Implementing and Executing Agencies; Inception Workshop; and Project Steering Committee Meeting. A dedicated project webpage is in development and is expected to be completed during the current biennium.
62. The Terms of Reference for the five project positions were completed and are in the process of being advertised. Staff recruitment is expected to be completed by the first quarter of 2017 for a Regional Project Coordinator, Technical Specialist, Communications Specialist, Finance Officer and Team Assistant. . The Regional Project Coordinating Unit will be based at the offices of UNEP CEP. An interim Project Manager, Mr. David Simmons, has already been recruited by UNEP CEP to assist in the development of Project Cooperation Agreements (PCAs) with our main co-executing partner CARPHA and with the participating countries.
63. While the project was officially launched in September 2016, the period August to December 31, 2016 will be considered the Inception Phase. The official start date for reporting from participating countries is 1 January 2017 when all PCAs between the participating countries and UNEP should be completed and first disbursement of funds made.

Other GEF Project

64. During the biennium, UNEP CEP also worked on the development of a new GEF project titled, “Reducing Marine Litter in the Caribbean Sea through the Sustainable Management of Plastics in the Wider Caribbean Region”. The broad objective of the proposed project will be to reduce marine litter pollution in the WCR. This is a critical emerging issue given the increasing production of plastic; the ability of plastic waste to accumulate in habitats far from its point of origin, and the slow rate of degradation. A PIF has been drafted and will be further developed for submission to the GEF Secretariat for consideration. The draft is presented as Information Document UNEP(DEPI)/CAR WG.37/INF.18. In the event that the project is not deemed eligible for GEF funding, financing from other potential funding sources will be sought

B. Monitoring and Assessment

(iii) State of the Convention Area Report in the Wider Caribbean Region (WCR)

Background

65. In 1994, CEP concluded the first regional overview of land-based sources of pollution in the WCR (CEP Technical Report No. 33). As such, the overview data was more than fifteen years old and had limited value to CEP Governments as a current information source. A second overview was required to confirm or reconfirm priority source pollutants in the Wider Caribbean Region. This second overview was completed in 2011 resulting in Technical Report No 52. The update of CEP Technical Report No. 33 was carried out during the

period 2005-2010 in two phases. The first phase involved the hosting of two workshops in Caracas and Havana in 2005 and 2006, respectively, dealing with Methodologies for Estimating Domestic and Industrial Pollutant Loads from land-based sources in WCR. The second phase entailed the assessment and analysis of National Technical Reports presented by Barbados, Belize, Colombia, Costa Rica, Cuba, French Guiana, Guadeloupe, Martinique, Guatemala, Jamaica, Nicaragua, Panama, Dominican Republic, Trinidad & Tobago, and Venezuela in addition to other information available up to 2009, to provide updates on the pollutant loads discharged in the WCR. This report provided an update of the domestic and industrial pollutant loads discharged in the WCR, sanitation coverage expansion and treatment, as well as the pollutant loading from watersheds inflows according to the available information in the WCR countries. It also presents the projected changes of pollutant loads for the years 2015 and 2020 in fulfilling UN Millennium Development Goals. During the previous biennium other reports from projects involving monitoring and assessment including Know Why Network, and Baseline Analysis of Domestic Wastewater were produced.

66. In 2011, the Secretariat established an Interim Working Group in accordance with Decision XI of the 14th IGM to continue work related to Environmental Monitoring and Assessment. The group used the new CEP Technical Report #52 (Updated Technical Report No. 33) and other relevant studies as a baseline for identifying new activities to improve effluent reporting and assessment of water quality conditions throughout the Convention Area. Based on Country nominations, the working group consisted of representatives from Jamaica (chair), The Bahamas, Columbia, Mexico, Barbados, USA, Trinidad and Tobago and France with technical support from the LBS RACs – IMA and CIMAB. Based on discussions of the Interim Working Group it was decided that the Group would work on developing an outline for the State of Convention Area Report (SOCAR) required under the LBS Protocol.
67. Subsequent Recommendations of the 2014 STAC Meetings of the LBS Protocol and Decisions of the Conference of Parties of both the Cartagena Convention and the LBS Protocol provided further guidance for the Working Group whose mandate was extended in 2014 under the Chair of the Government of the United States, to oversee the continued SOCAR development process.

Objective

68. This activity will result in the development of the first State of the Convention Area Report for the Wider Caribbean Region.

Expected Outputs

69. The expected outputs for this activity include:
- Development of a revised outline for SOCAR;
 - Identification and mobilization of funding to support the development of the SOCAR;
 - Establishment of agreed methodology, indicators and approaches to data collection; and
 - Convening of a regional expert workshop.

Beneficiary Countries

Costa Rica and Jamaica

Activity Cost and Expenditure (in USD)

Activity Period	Source of Funds	Projected Budget (2015-16)	Actual Budget (2015-16)	Expenditure (2015-16)
2015-2016	GEF CLME+ & GEF IWeco	200,000	90,000	83,144.27

Status

70. The Working Group (WG) on Environmental Monitoring and Assessment continued to work during 2015-2016 towards the development of the first State of the Convention Area Report (SOCAR) for the WCR. The mandate of the WG was extended to serve as a technical advisory body to the Secretariat throughout the development of SOCAR, in accordance with Decision IV of the 2nd LBS COP and Decision VI of the 16th IGM.
71. In accordance with Recommendation II of the 2nd LBS STAC, the report outline was reviewed, updated and is now completed. The revised outline is based on the DSPIR approach that was proposed and accepted at a regional workshop of experts convened by the Secretariat in Kingston, Jamaica, from 15-17 August 2016. A draft of the WG's report is provided as Information Document, UNEP(DEPI)/CAR WG.37/INF.6 Rev.1, while the first draft of the SOCAR is expected to be completed in March 2017 for submission to the 3rd LBS COP.
72. During the SOCAR workshop in August 2016, challenges and opportunities for sustaining data and information flows were identified and a data sub-group of the WG was established. In order to strengthen mechanisms needed to sustain the collection, analysis and use of environmental data at the regional and national levels, synergies have been established with the UNDP/GEF CLME+ and GEF IWeco projects that will support lab strengthening, capacity building for the development and use of indicators and data and information management. To date, laboratory needs assessments conducted under the GEF IWCAM and GEF RePCar Projects and also by UNEP CEP, will be used as the basis for identifying future capacity building and training needs. Country focal points have indicated an interest to further build laboratory capacity for national monitoring and assessment by expressing a desire to participate in upcoming projects such as the GEF CREW+.
73. UNEP CEP used several regional opportunities to promote the development of the SOCAR and identify opportunities for collaboration with other regional and global initiatives. The UNEP CEP website, currently features a searchable database on lab capacities for countries in the region which was updated during the biennium.
74. A consultant, Mrs. Sherry Heileman, was selected in the first quarter of 2016 to assist in the further development of the SOCAR and began work in July 2016.

C. Waste Management

(iv) Implementation of Regional Action Plan on Marine Litter (RAPMaLi)

Background

75. The increase in pollution from marine litter in the WCR is a threat to the environment and health across the region due to its deleterious impact on coastal communities, the tourism and fishing sectors.
76. Marine litter is a priority activity for UNEP CEP, UNEP GPA and the Regional Seas Programmes in general. UNEP's Regional Seas Coordinating Office and the Global Programme of Action (GPA) embarked on the development of a "Global Initiative on Marine Litter" for the establishment and development of pilot regional activities in regions that are most affected. This initiative provides a global platform for the establishment of partnerships, co-operation and co-ordination of activities for the control and sustainable management of marine litter.
77. During the biennium, UNEP CEP continued to source funding and technical assistance to assist with the update and implementation of the "RAPMaLi". In its capacity as co-host of the Caribbean Node for Marine Litter, which it shares with the Gulf and Caribbean Fisheries Institute (GCFI), the CEP engaged in several activities to reduce the degradation of the Caribbean Sea caused by marine litter during the period under review.

Objective(s)

78. The objective of this activity is to assist in the environmental protection and sustainable development of the WCR and to support the implementation of the Honolulu Strategy and the UNEP Global Partnerships on Waste

and Marine Litter; through the continued implementation of the “Regional Action Plan on Marine Litter Management” (RAPMaLi), developed in 2007 and updated in 2014.

Expected Outcomes

79. The expected outputs of the project are:

- Expanded marine litter educational and awareness material that includes habitat and wildlife interactions.
- Contribution to UNEP’s Resource Efficiency efforts in the region to reduce waste generation in key sectors and promote use of sound waste management tools with government agencies;
- Promotion of synergies and coordination between various ongoing solid waste and marine litter projects and activities in the pilot countries;
- Development of a more integrated and cohesive approach to solid waste and marine litter management with a particular emphasis on local communities;
- Support provided to education-based activities as part of the implementation of the Honolulu Strategy.
- Creation and promotion of a more consistent message to stakeholders and the general public concerning solid waste management; and
- Partners identified for developing joint projects on marine litter management as part of integrated solid waste management with particular focus on recycling and management of sanitary landfills/waste disposal sites.

Beneficiary Countries

Regional – Wider Caribbean Region

Project Cost and Expenditure (in USD)

Activity Period	Projected Budget (2015-16)	Actual Budget (2015-16)	Expenditure (2015-16)
2015-2016	50,000	0	0

Status

80. During the period under review, five project concepts on marine litter were developed in collaboration with GCFI and the GPA that focus on: (1) Piloting marine litter reduction strategies for major Caribbean cultural/musical/sporting events – Carnival in Trinidad and Tobago; (2) Links between marine litter and the prevalence of mosquito-borne public health concerns; (3) The occurrence of micro-plastic in the intestinal tract of commercially exploited fish from Grenada; (4) Innovations and cost analysis of options for marine litter action; and (5) Regional assessment of marine litter initiatives in the Caribbean. The project proposal concepts are available as Information Document UNEP(DEPI)/CAR WG.37/INF.13.
81. As part of activities pursued in the last biennium towards the implementation of the RAPMaLi, UNEP CEP identified partners with which to collaborate and support the development and implementation of national and regional pilot projects for improving marine litter management in the WCR, with particular focus on solid waste and plastic reduction. A partnership was established with the United States Environmental Protection Agency (US EPA) and the United States Peace Corps, to facilitate the implementation of a Trash Free Waters (TFW) Initiative in two pilot countries, Jamaica and Panama.
82. The TFW in the Caribbean Initiative was announced at the Our Ocean II Conference in October 2015 in Chile. The project in Jamaica was officially launched in Kingston in August 2016 and is expected to be launched in Panama before the end of 2016.
83. Initial meetings were held with national governments and the Peace Corps in Panama (November 2015) and in Jamaica (January 2016). During these meetings, points of contact were identified; the roles of UNEP CEP and

the governments were defined.

84. A PowerPoint-based training tool on marine litter and TFW in the Caribbean was developed for use as part of the pre-service training (PST) of Peace Corps Volunteers. These initial training sessions were held in February and March 2016 in Jamaica.

D. National Programmes of Action (NPAs)

(vi) Implementation of Pilot National Programmes of Action (NPAs) for Nutrients Management

Background

85. Nutrients are essential for sustainable development and represent a nexus that unites many of our concerns concerning areas such as energy, water and food security, human health, and the environment. Improved management of nutrients would simultaneously make contributions toward meeting existing global commitments for improving/protecting water, air, soil, climate and biodiversity, with consequent contribution to food and energy security, and net social and economic benefits.
86. During the last biennium, UNEP CEP and the GPA initiated a programme to strengthen the development and implementation of National Programmes of Action (NPAs) for the protection of the marine environment from land-based activities in the Wider Caribbean Region. Through collaboration with the LBS RACs and under the Global Partnership for Nutrient Management (GPNM), the Caribbean Platform for Nutrient Management (CPNM) was launched.
87. The key priorities established for the CPNM in the previous biennium to support the strategic priorities of the GPNM include: (1) Policy development, policy advocacy and support to policy reform; (2) Development of toolbox to support policy choices and investment decisions; (3) Defining nutrient performance indicator and nutrient use efficiency; and (4) Strengthening of the partnership.

Objective

88. The overall objective of this activity is to build capacity in countries of the WCR for the development and implementation of NPAs to assist in the protection of the Caribbean marine environment from pollution entering from land-based sources and activities.

Expected Outcomes

89. The expected outcomes of the activity include support provided for:
- Development of pilot to test innovative approaches and technologies for improving nutrients management;
 - Continued development and implementation of NPAs within the framework of LBS Protocol implementation;
 - Review and update of NPAs in at least two LBS Parties; and
 - Pilot assessments on the levels of nutrient loading from selected sources including (a) domestic wastewater and (b) agricultural run-off.

Beneficiary countries

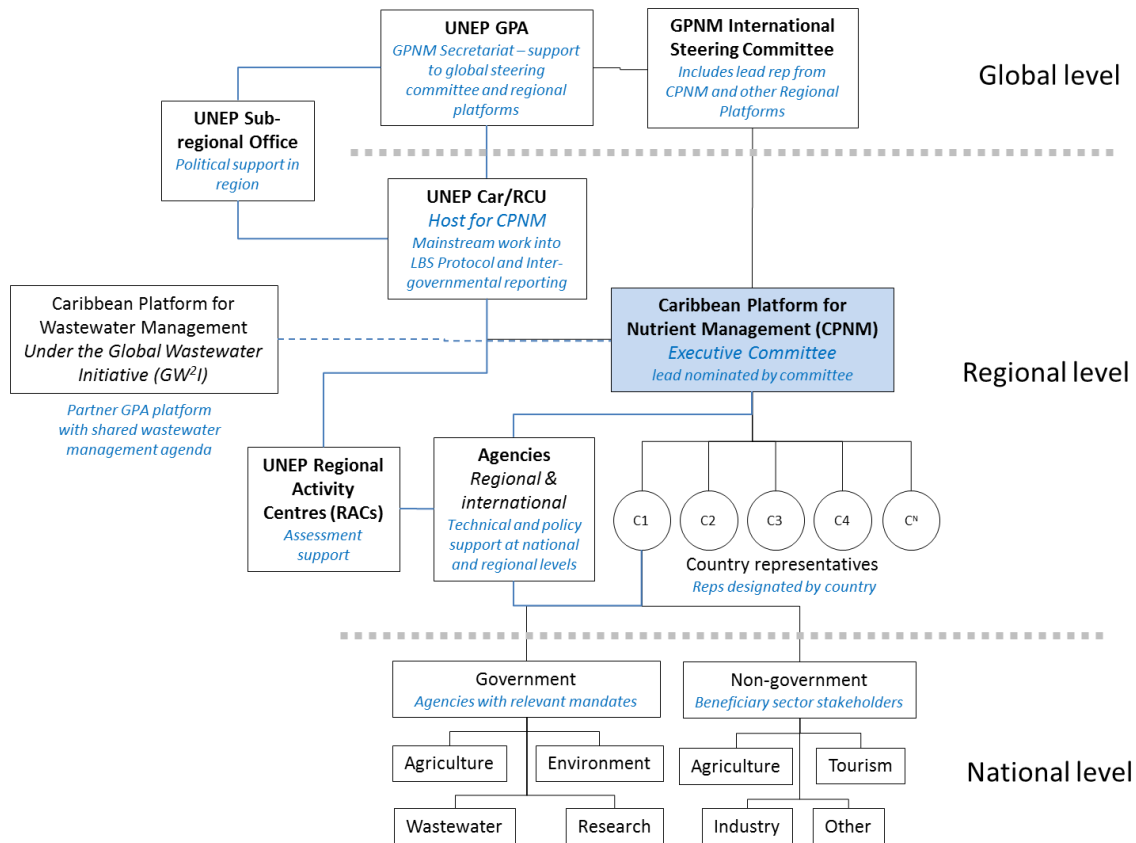
The WCR with focus on countries that have completed and/or commenced the development of NPAs.

Activity Cost and Expenditure (in USD)

Activity Period	Projected Budget	Actual Budget	Expenditure
2016-2018	110,000	0	0

Status

90. During the period under review, UNEP CEP was able to successfully mobilize funding from the UNDP GEF CLME+ Project to undertake specific activities in support of nutrients in the region. This included two unfunded activities from the previous biennium, namely (1) developing small-scale projects with LBS Parties to pilot test innovative approaches and technologies for improving nutrients management including monitoring, nutrient recovery and nutrient-use efficiency and to support required national policy and legal reforms; and (2) conducting pilot assessments on the levels of nutrient loading from selected sources including domestic wastewater and agricultural run-off.
91. The Second Regional Planning Meeting for the CPNM was held in Trinidad and Tobago from 24–25 February 2016 with financial support of the UNEP GPA. Further details on the activities are available in the 2-year workplan included in Information Document UNEP(DEPI)/CAR WG.37/INF.8. The proposed structure and organizational relationships of the platform is outlined below.



92. During the biennium, UNEP CEP collaborated with the GPA, GPNM and the GW²I to develop and submit a project proposal to the US Department of State to secure funding to implement and demonstrate cost-effective, innovative solutions in Jamaica and Costa Rica that can be upscaled and replicated to contribute to mitigation of

nutrient loading to the Caribbean's coastal waters. The project, "Applying innovation to reduce nutrient pollution from wastewater and agricultural discharges in waterways, coastal and marine environments of the Caribbean Sea", will seek to catalyze efforts at the regional level to significantly reduce nutrient pollution from land based sources to the marine environment in the Caribbean through investment in innovative wastewater treatment technologies and demonstration of best practice for agricultural runoff diversion. An initial list of NGO's/civil society groups, government agencies and other relevant organizations was created and tentative locations have been identified in both countries. The project proposal is presented as Information Document UNEP(DEPI)/CAR WG.37/INF.15 and will be implemented within the framework of the CPNM during the 2017-2018 biennium.

ANNEX 1: Summary of the Recommendations of the 3rd LBS STAC, 2nd LBS STAC; the Decisions of the 2nd LBS COP and Relevant Decisions of the 16th IGM of the Cartagena Convention.

Recommendations of the Third Meeting of the Scientific, Technical and Advisory Committee to the Protocol Concerning Pollution from Land-based Sources and Activities (3rd LBS STAC)

**Recommendation I
WORKPLAN AND BUDGET**

1. Contracting Parties submit additional comments including new activities to be included in the draft Work Plan and Budget for the biennium 2016-2017 by December 31, 2016 to enable an updated draft Work Plan and Budget to be prepared by the Secretariat for submission to the 3rd LBS COP for approval and the Sixteenth Intergovernmental Meeting on the Action Plan for the Caribbean Environment Programme and Thirteenth Meeting of the Contracting Parties to the Cartagena Convention for information and endorsement.
2. Contracting Parties endorse the 2017-2018 Draft Work Plan & Budget included recommendations made during the third LBS STAC and those submitted leading up to the third LBS COP.
3. Contracting Parties endorse the Secretariat's efforts to develop new project proposals for submission to the Global Environment Facility (GEF) including for the CReW+ & Marine Litter Projects & encourage Governments to seek support from their national GEF Focal Points for endorsement of these project proposals.
4. The Secretariat, the Contracting Parties or any other stakeholder join the "Plastic Bag Coalition" and make themselves known to the Office of the Minister, Ségolène Royal, President of the Climate Change COP21. The "Plastic Bag Coalition" will be officially launched at the Climate Change COP22 in Marrakech, during which a special side event will be held on November 14, 2016 from 4:45pm to 6.00pm.
5. The Secretariat include an additional activity in the draft work plan and budget WG.37/3, to carry out an inventory of solid waste generation in each of the countries of the Wider Caribbean region as well as an assessment of the systems for collection, transportation and disposal and identification of opportunities and challenges for improving these systems including re-use and recycling.
6. Contracting Parties should explore experiences of the Society of Environmental Toxicology and Chemistry (SETAC) for identifying technologies and best practices to deal with emerging contaminants of concern.
7. The Secretariat, subject to availability of resources, convene joint LBS-SPAW STACs in the future, including progressive integration of efforts under LBS and SPAW Protocols in capacity building activities and projects such as integrated "Ecosystem Based Management (EBM)" as part of efforts to develop a road map for LBS/SPAW integration.
8. The Secretariat, in collaboration with Contracting Parties, mobilise technical and financial resources to aid in the control of marine pollution caused by plastic and micro-plastics waste as well as agricultural, livestock and mining waste.
9. The Secretariat, in collaboration with Contracting Parties, mobilise funds for the monitoring of land-based sources of pollution in particular in urban areas.

**Recommendation II
ENVIRONMENTAL MONITORING AND ASSESSMENT**

1. The Parties support inclusion of land-based sources of marine litter as a priority pollutant in addition to wastewater and nutrients based on the associated Caribbean Platforms and the increased impact of these pollutants on coastal and marine ecosystems and human health.

2. The Parties strengthen laboratory capacity within their own countries to monitor LBS parameters and to maximize on the financial support provided from projects such as GEF IWeco and potentially GEF CReW+.
3. The Parties agree that there may be human health and ecosystem effects from microplastics, created upon degradation of plastic material, and to support efforts by the Secretariat to share information and research efforts aimed at developing monitoring methodologies for microplastics that should be incorporated into future water quality monitoring programmes.
4. In relation to the further development and finalization of the SOCAR, the Parties accept good-fair-poor ranges currently under development by the data sub-group, and agree to submit raw national water quality data, on the understanding that these data will not be made public without prior written consent by the countries.
5. The Secretariat work with Contracting Parties and other Countries to mobilize financial resources from existing projects and/or develop new project proposals to respond to the new priorities identified under SOCAR.
6. The Interim Working Group on Monitoring and Assessment continue its work intersessionally prior to the LBS COP3 Meeting in 2017 and beyond, as necessary, taking into account submissions and information provided by the Contracting Parties.
7. The existing Interim Working Group finalize the draft State of Convention Area Report (SOCAR) including : (1) proposing data values of the assessment ranges, based on information provided in previous discussions; and (2) presenting this report to the 3rd LBS COP for further consideration.
8. Encourage all Contracting Parties to provide data and information required for completion of the draft SOCAR by November 15, 2016 noting that some countries may require a longer period for provision of such information.
9. The Secretariat conduct a validation exercise with national focal points and relevant stakeholders of the data used in the development of the SOCAR.
10. The Secretariat continue to explore opportunities to support the further development of the SOCAR through the GEF IWECO and UNDP/GEF CLME+ projects and other related initiatives.
11. The Interim Working Group on Monitoring and Assessment review the existing classification of marine waters according to the LBS Protocol taking into account the political sensitivity of the classification process as well as the methodology used in such classification.
12. Contracting Parties are encouraged to classify their waters with support as needed from the Working Group and the Secretariat.
13. The Secretariat progressively develop an integrated assessment of the State of the Marine Environment (SOME) of Convention Area Report, as required under the Cartagena Convention, including the use of economic valuation, for consideration at LBS STAC 4 and SPAW STAC 9. In this regard, the LBS COP 3 and SPAW COP 9 may consider expanding the Monitoring and Assessment Working Group to include biodiversity interests, and furthermore also consider the use of the draft UNDP/GEF CLME+ State of Marine Environment (SOME) outline as the basis for further development of this integrated pollution and habitat report for reporting under the Cartagena Convention. The Secretariat should therefore work in collaboration with the UNDP/GEF CLME+ Project Coordinating Unit on the proposed SOME outline, to be presented to LBS COP3 and SPAW COP9 for endorsement.
14. Given that the Driver Pressure State Impact Response Methodology (DPSIR) is being used for the development of national and regional State of Environment Reports including the SOCAR and the SOME, the Secretariat should identify opportunities and possible funding to provide training to Contracting Parties in the use of this DPSIR Methodology for developing State of Environment Reports.

Recommendation III
GEF PROJECTS

1. The Secretariat continue to facilitate the progressive integration of pollution and habitat/biodiversity issues as part of a SPAW/LBS Roadmap and to promote greater collaboration with, and involvement of Brazil in actions leading to reduced LBS pollution inputs to the Convention Area and in support of the UNDP/GEF CLME+ Project and the broader CLME+ Strategic Action Programme (SAP).
2. Support activities of the UNDP/GEF CLME+ project aimed at strengthening cooperation and integration of pollution reduction and prevention actions at regional and national levels with sustainable fisheries, habitat protection and rehabilitation within the context of the ecosystem approach to marine environmental protection.
3. The Secretariat continue to participate in the development of the GEF CReW+ project proposal.
4. Encourage countries to request support by the GEF during GEF Constituency/Council meetings and other interactions with the GEF Secretariat to finance pollution priorities in the Wider Caribbean Region such as the need for further baseline data and research on pollution sources and impacts including wastewater.
5. Contracting Parties use every effort to influence, through national processes, the funding of on-the-ground projects by the GEF.

Recommendation IV
LBS Protocol Ratification

1. The Secretariat and Contracting Parties should continue to encourage Non-Parties to ratify the LBS Protocol and for Contracting Parties to raise the profile of the LBS at both national and regional levels.
2. The Secretariat to request Non-Contracting Parties to the LBS Protocol to provide an update of the status of LBS Protocol Ratification in their respective countries including difficulties being faced in their national ratification process. These non-contracting party countries should further identify opportunities to raise the issue of LBS Protocol ratification at high level political fora and other appropriate intergovernmental mechanisms.
3. In light of the common issues addressed by the Caribbean Regional Fisheries Mechanism (CRFM) and the Cartagena Convention Secretariat, (support the development of) a Memorandum of Understanding between CRFM and the Secretariat.
4. The Secretariat work with Contracting and other Parties to identify and facilitate the transfer of knowledge, best practices and appropriate technology aimed at pollution prevention and reduction in the Wider Caribbean Region.

Recommendations of the Second Meeting of the Scientific, Technical and Advisory Committee to the Protocol Concerning Pollution from Land-based Sources and Activities (2nd LBS STAC)

**Recommendation I
Work Plan and Budget**

1. **Recommended** that Contracting Parties submit additional comments on the draft Work Plan and Budget for the biennium 2015-2016 by July 30 to enable an updated draft to be prepared for further endorsement and submission to the 2nd LBS COP; for approval at the Fifteenth Intergovernmental Meeting on the Action Plan for the Caribbean Environment Programme; and at the Twelfth Meeting of the Contracting Parties to the Cartagena Convention for information.
2. **Recommended** that the Secretariat continue its efforts, in collaboration with interested Governments and Partners, to develop a follow-up proposal to GEF REPCar for submission to the GEF.
3. **Recommended** that the Secretariat, in collaboration with regional and international agencies, explore opportunities to implement activities that support the implementation of Article 5 on pollution from ships and Article 9 on airborne pollution for the LBS Protocol. These should include activities for the pre-treatment of industrial effluent in accordance with Annex III of the LBS Protocol.
4. **Recommended** that the Secretariat, in collaboration with the LBS and Oil Spills RACs, facilitate technical support to countries in the area of oil pollution, including the use of dispersants and the rehabilitation of oil-contaminated areas.
5. **Recommended** that the Secretariat explore opportunities to have joint meetings of technical experts from the SPAW and LBS Protocols, including the consideration of a joint LBS/SPAW STAC in the future.
6. **Recommended** that the Secretariat explore mechanisms for providing information relating to the development of future Draft Work Plans and Budgets and the SOCAR in advance of the STAC to enable adequate input by Contracting Parties into the development of the Work Plan and Budget.
7. **Recommended** that the Secretariat include activities within the Work Plan and Budget for 2015-2016 that focus on the management of non-point sources of marine pollution.

**Recommendation II
Environmental Monitoring and Assessment**

1. **Recommended** that the Secretariat, jointly with the LBS RACs, continue to build capacity in the use of decision-making tools and to use these tools to bring added value to the outputs of existing environmental monitoring data being generated by AMEP projects and activities.
2. **Recommended** that the Interim Working Group on Monitoring and Assessment (IWGMA) continue its work intersessionally, prior to the LBS COP 2 Meeting in November 2014 and beyond, as necessary.
3. **Recommended** that the IWGMA continue under the chair of the USA for the period leading up to the LBS COP2 Meeting as the current Chair's term ends after the STAC 2 Meeting.
4. **Recommended** that the existing IWGMA finalize the outline of the proposed State of the Convention Area Report (SOCAR) to (1) propose and agree on the data values of the assessment ranges, based on information provided in previous discussions; and (2) present this report to the 2nd LBS COP.
5. **Recommended** that the Secretariat continue to explore opportunities to support implementation of the LBS Protocol and the development of the SOCAR through participation in discussions relating to the Caribbean Marine Atlas (CMA2), CLME+ Component 5, the World Ocean Assessment and other related initiatives.
6. **Recommended** that the Secretariat prepare a short concept document showing potential linkages and synergies with these other initiatives to be presented with the SOCAR Outline for consideration at the 2nd LBS COP.
7. **Recommended** that the Secretariat prepare and submit to the Working Group, additional input and methodologies that could be considered to enhance the current SOCAR Outline and its subsequent development.

Recommendation III GEF Projects

1. **Recommended** that the Secretariat continue to participate in the development of the GEF CLME+ project proposal, giving special attention to the progressive integration of pollution/biodiversity issues and the exploration of means for the collaboration with, and the involvement of Brazil, in actions leading to reduced LBS pollution inputs in the Convention Area.
2. **Recommended** that the Secretariat participate in the GEF Meso-American Barrier Reef project development process, providing input in particular on proposed activities for managing non-point run off.

Recommendation IV Global Programme of Action

1. **Recommended** that the Secretariat mobilize funding to support an assessment of nutrient loadings to the Caribbean Sea in order to prioritize future interventions in relation to pollution load reduction, and in order to guide future activities of the Caribbean Platform for Nutrients Management.
2. **Recommended** that the Secretariat and Contracting Parties strengthen collaboration with the GPNM in order to improve overall nutrient management.
3. **Recommended** that the Secretariat collaborate with the GPA and the GPNM in the testing of innovative approaches and technologies for improving nutrient management including monitoring, nutrient recovery and nutrient use efficiency
4. **Recommended** that the Secretariat continue to ensure close cooperation between the GEF CReW Project in the future and the Global Wastewater Initiative, with the development of concrete joint activities in priority areas.
5. **Recommended** that the Secretariat explore the possibilities of establishing a Caribbean Node for the Global Partnership on Marine Litter, to assist with the implementation of the revised Regional Action Plan for Marine Litter.
6. **Recommended** that the Secretariat, in collaboration with the GPA, explore opportunities to support the review and update of National Programmes of Action developed by Contracting Parties to the LBS Protocol.

Recommendation V Global Partnership for Oceans

1. **Recommended** that the Secretariat continue collaboration with the World Bank GPO with the view to establishing linkages with the development of the SOCAR and by providing relevant information on previous studies on the state of the marine environment in the Wider Caribbean, and in particular, information relating to the impacts of pollution.
2. **Recommended** that the Secretariat facilitate sharing of outputs and methodologies used to develop the Regional Water Quality Assessment Report under the GPO with all Contracting Parties.

Recommendation VI

1. **Recommended** that the Secretariat request Contracting Parties to the LBS Protocol that members of the STAC have the competence and continuity to ensure effective contribution to the development of the activities undertaken by the STAC.

Decisions of the Second Meeting of the Contracting Parties (COP) to the Protocol Concerning Pollution from Land-based Sources and Activities in the WCR

Workplan and Budget, Monitoring and Assessment, RACs, LBS Protocol

1. **Endorse** the recommendations of the LBS STAC 2.
2. **Endorse** for final approval by the Sixteenth Intergovernmental Meeting and the Thirteenth Meeting of the Contracting Parties, the revised Work Plan and Budget for the AMEP sub-programme for the 2015-2016 Biennium, with modifications and priorities introduced by the Meeting, and **note** that the AMEP sub-programme of work should give priority to Contracting Parties to the LBS Protocol, taking into consideration regional pollution prevention needs, as well as donor partnerships that may, on occasion, necessitate the participation of non-Parties.
3. **Urge** the governments of the region, which have not yet done so, to become Contracting Parties to the Cartagena Convention and its Protocols, including the LBS Protocol.
4. **Extend** the mandate of the Monitoring and Assessment Working Group (WG) to serve as a technical advisory body to the Secretariat throughout the development of the State of Convention Area Report (SOCAR).
5. **Consider** the amended list of marine water quality parameters in the SOCAR outline and **instruct** the WG to further refine acceptable ranges for the defined parameters and the methodologies for monitoring and assessment.
6. **Request** Contracting Parties to provide information to the WG on the particular indicators and methodologies used in their respective countries, to develop guidelines for the classification of coastal water bodies into Class I and Class II waters and their monitoring.
7. **Request** the Secretariat to develop an outreach strategy as well as an information management and dissemination plan for the SOCAR that will ensure its usefulness as a tool for making informed technical and financial decisions with regards to appropriate interventions that reduce land-based sources of pollution.
8. **Request** the Secretariat to identify other regional and global marine assessments and platforms such as CLME+, the Meso-American Partnership, World Bank GPO, Red Mesoamericana de Calidad del Agua (REMECA) and UNEP Live, and how they could support the further development of the SOCAR as well as including information about these initiatives in the first SOCAR.
9. **Request** the WG to present a report on progress achieved to the third LBS STAC and COP meetings and **request** that the Secretariat, together with LBS RACs, coordinate and support the work of the WG.
10. **Recommend** to the 16th IGM that they endorse the continued work by the WG to further develop the State of SOCAR, including using information provided by countries in their reporting on the implementation of the Cartagena Convention.
11. **Request** governments of the region and others interested in the development of the SOCAR, as well as chairing the group, to inform the Secretariat by March 1st, 2015.
12. **Request** the Secretariat to continue close collaboration with the UNEP GPA and other UNEP offices on the further development and implementation of global and regional partnerships relating to nutrients, wastewater, solid waste and marine litter as well as the further implementation of NPAs and the Regional Action Plan on Marine Litter (RAPMaLi).
13. **Encourage** the Secretariat to consider including activities related to awareness raising and capacity building for ocean acidification monitoring in future work plans, noting the recommendations and actions arising from the workshop on ocean acidification that took place as a parallel event to the September 2014 Small Island Developing States Conference in Samoa.

14. **Recommend** to the 16th IGM that they endorse the participation of the Secretariat in the GEF CLME+ project in particular on aspects relating to a more integrated approach to LBS and SPAW activities, including a possible joint LBS/SPAW STAC Meeting, and the development of the SOCAR.
15. **Encourage** greater collaboration between the SPAW, LBS and Oil Spills RACS in execution of activities that support their respective work plans and priorities.
16. **Encourage** active participation of Contracting Parties and other countries within the WCR in AMEP projects so as to better take advantage of the opportunities afforded for supporting their ratification and implementation of the LBS Protocol.
17. **Request** the Secretariat to continue efforts to mobilize funding for unfunded projects and activities within the 2015-2016 Work Plan

Relevant Decisions of the Sixteenth Intergovernmental Meeting on the Action Plan for the Caribbean Environment Programme (16th IGM) and Thirteenth Meeting of Contracting Parties to the Cartagena Convention.

Decision I

Workplan and Budget for the Caribbean Environment Programme

Approve the Workplan and Budget for the Caribbean Environment Programme for the biennium 2015-2016 with modifications approved by the Meeting.

Request the Secretariat continue to seek additional funds to meet the full requirements of the approved Work Plan and **urge** governments to support the Secretariat in this regard.

Request the Secretariat to continue its efforts to collect and to explore innovative financial mechanisms with Member States to facilitate payment of their outstanding contributions for example through support to meetings, workshops, etc.

Request that the Executive Director of UNEP make the necessary provisions to extend the Caribbean Trust Fund until 2017.

Decision II

Reports, Recommendations, and Decisions of the Meetings of CEP convened since the 15th IGM

Endorse the Decisions of the Second Meeting of the Contracting Parties (COP) to the Protocol Concerning Pollution from Land-Based Sources and Activities (LBS Protocol) in the Wider Caribbean Region.

Decision III

RAC- REMPEITC

Endorse the Recommendations of the 7th Ordinary Meeting of the Steering Committee.

Approve the Workplan and Budget for the biennium 2014-2015.

Request the Secretariat to work with UNEP and the Government of Curacao to finalize and sign the MoU for the hosting of RAC/REMPEITC-Caribe.

Encourage Contracting Parties to continue to develop and finalize oil/HNS spill national contingency plans and to provide input for the update of the Caribbean Island OPRC plan through the establishment of a working group.

Decision IV

Regional Activity Centres (RACs)

Request the Secretariat, in coordination with the Regional Activity Centres, to continue work to finalize outstanding Host Agreements with RAC Host Governments as soon as possible.

Decision V

Caribbean Environment Programme and Cartagena Convention and Protocols

Request the Secretariat to prepare and periodically review reporting guidelines that will enable governments to fulfill their reporting obligations under the Convention.

Request the Secretariat to continue its efforts to strengthen collaboration with regional agencies and relevant Convention Secretariats to enable more effective implementation of the Caribbean Environment Programme work plan.

Decision VI
Working Group on Environmental Monitoring and Assessment

Endorse the specific recommendation of the 2nd LBS COP to enable the continued work of the Working Group on Monitoring and Assessment for the 2015/2016 biennium.

Request that the Working Group continue as an open-ended working group of experts from Contracting Parties to the Cartagena Convention and Regional Activity Centres.

Request that the Chair of the Working Group reports to the 3rd LBS STAC and as appropriate, to the 3rd LBS COP.

Request the Secretariat to continue its efforts to mobilize resources that will assist countries to conduct national coastal and marine monitoring and assessments and in the further development of the State of Convention Area Report.

Decision VII
Caribbean Large Marine Ecosystem Strategic Action Programme (CLME+ SAP)

Request that the Secretariat explore opportunities for entering into a formal agreement with Brazil regarding mutual collaboration on activities relevant to the Cartagena Convention and its Protocols.

Urge the Secretariat to take advantage of resources to be provided through CLME+ to facilitate enhanced coordination among the AMEP and SPAW Programme Areas, including through the development of a roadmap for collaborative action and the convening of joint technical meetings and workshops.

Request that the Secretariat participate in the interim coordination mechanism for the implementation of the CLME+ SAP, and to participate in the process to identify a coordination mechanism to support Ecosystem-Based Management/Ecosystem Approach for Fisheries (EBM/EAF) implementation within the CLME+.

Request the Secretariat to facilitate the collaboration and coordination between the CLME+ Project and other related Projects being executed by the Secretariat in particular GEF Projects such as the GEF IWEco

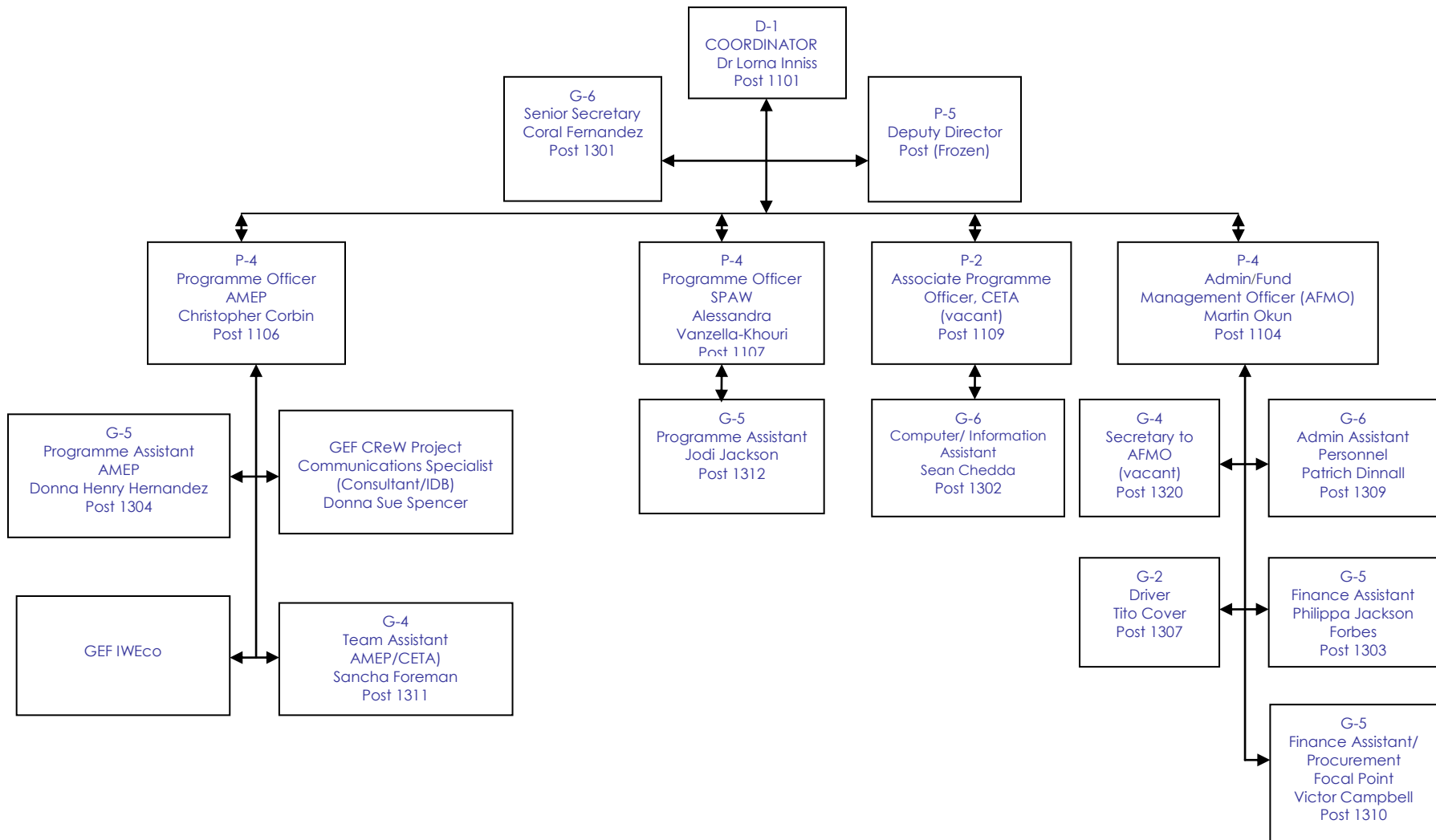
Decision VIII
Caribbean Large Marine Ecosystem Project (CLME+)

Request the Secretariat to initiate consultations with relevant initiatives and organizations in the region conducting coral restoration with a view to develop mechanisms to share information, research and best practices on this issue and enhance collaboration and coordination among these and other relevant initiatives

Encourage the Secretariat to include the mechanisms within the context of the CLME+ Project which also aim to integrate and facilitate actions and investments on the restoration of key habitats and pollution reduction

ANNEX II: Organizational chart of the Secretariat of the Cartagena Convention and Caribbean Environment Programme

UNITED NATIONS ENVIRONMENT PROGRAMME (UNEP)
 CARIBBEAN REGIONAL COORDINATING UNIT (CAR/RCU)



ANNEX III: Status of the Ratification of the Cartagena Convention and its Protocols

<i>State</i>	Cartagena Convention		Oil Spill		SPA W		LBS	
	Date of Signature	Ratified / Acceeded	Date of Signature	Ratified / Acceeded	Date of Signature	Ratified / Acceeded	Date of Signature	Ratified / Acceeded
<i>Antigua and Barbuda</i>		11-Sep-86		11-Sep-86	18-Jan-90			13-July - 10
<i>Bahamas</i>		24-Jun-10		24-Jun-10		8-Mar-12		24-Jun-10
<i>Barbados</i>	5-Mar-84	28-May-85	5-Mar-84	28-May-85		14-Oct-02		
<i>Belize</i>		22-Sep-99		22-Sep-99		4-Jan-08		4-Feb-08
<i>Colombia</i>	24-Mar-83	3-Mar-88	24-Mar-83	3-Mar-88	18-Jan-90	5-Jan-98	2-Oct-00	
<i>Costa Rica</i>		2-Aug-91		2-Aug-91			6-Oct-99	
<i>Cuba</i>		15-Sep-88		15-Sep-88	18-Jan-90	4-Aug-98		
<i>Dominica</i>		5-Oct-90		5-Oct-90				
<i>Dominican Republic</i>		24-Nov-98		24-Nov-98		24-Nov-98	3-Aug-00	6-Sep-12
<i>France</i>	24-Mar-83	13-Nov-85	24-Mar-83	13-Nov-85	18-Jan-90	5-Apr-02	6-Oct-99	4-May-07
<i>Grenada</i>	24-Mar-83	17-Aug-87	24-Mar-83	17-Aug-87		5-Mar-12		5-Mar-12
<i>Guatemala</i>	5-Dec-83	18-Dec-89	5-Dec-83	18-Dec-89	18-Jan-90			
<i>Guyana</i>		14-Jul-10		14-Jul-10		14-Jul-10		14-Jul-10
<i>Haiti</i>								
<i>Honduras</i>	24-Mar-83		24-Mar-83					
<i>Jamaica</i>	24-Mar-83	1-Apr-87	24-Mar-83	1-Apr-87	18-Jan-90			5-Nov-15
<i>Mexico</i>	24-Mar-83	11-Apr-85	24-Mar-83	11-Apr-85	18-Jan-90			
<i>Netherlands</i>	24-Mar-83	16-Apr-84	24-Mar-83	16-Apr-84	18-Jan-90	2-Mar-92	6-Oct-99	
<i>Nicaragua</i>	24-Mar-83	25-Aug-05	24-Mar-83	25-Aug-05				
<i>Panama</i>	24-Mar-83	7-Oct-87	24-Mar-83	7-Oct-87	16-Jan-91	27-Sep-96		9-Jul-03
<i>St. Kitts and Nevis</i>		15-Jun-99		15-Jun-99				
<i>Saint Lucia</i>	24-Mar-83	30-Nov-84	24-Mar-83	30-Nov-84	18-Jan-90	18-May-00		30-Jan-08
<i>St. Vincent and the Grenadines</i>		11-Jul-90		11-Jul-90	26-Jul-91	26-Jul-91		
<i>Suriname</i>								
<i>Trinidad and Tobago</i>		24-Jan-86		24-Jan-86	18-Jan-90	10-Aug-99		28-Mar-03
<i>United Kingdom</i>	24-Mar-83	28-Feb-86	24-Mar-83	28-Feb-86	18-Jan-90			
<i>United States of America</i>	24-Mar-83	31-Oct-84	24-Mar-83	31-Oct-84	18-Jan-90	16-Apr-03	6-Oct-99	13-Feb-09
<i>Venezuela</i>	24-Mar-83	18-Dec-86	24-Mar-83	18-Dec-86	18-Jan-90	28-Jan-97		
<i>European Economic Commission</i>	24-Mar-83							

Annex IV: Intergovernmental, Technical /Expert and Other Major Meetings convened by UNEP CEP, RACs and GEF Project (October 2014-October 2016)

Event Number	Programme Area	Title	Venue	Date
1.	GEF CReW	Governance and Sanitation Workshop	St. John's, Antigua and Barbuda	23-27 January 2015
2.	AMEP	Caribbean Implementation Meeting on Decision 5 of the XIX Meeting of the Forum of Ministers of Environment for Latin America and the Caribbean	Bridgetown, Barbados	27-29 January 2015
3.	AMEP/CEP	Caribbean Green Economy Conference 2015, "Implementing SAMOA Pathway and Advancing Sustainable Development Goals in the Caribbean"	Kingston, Jamaica	23-24 February 2015
4.	GEF IWeco	The GEF Small Grants Programme (SGP) Latin America and the Caribbean Regional Workshop	Santo Domingo, Dominican Republic	8-13 March 2015
5.	GEF CReW	Wastewater and Reefs Workshop.	Florida, USA	23-25 March 2015
6.	GEF CReW	Lab Capacity Training Workshop for participants from Costa Rica, Guatemala, Honduras and Panama under the GEF CReW project - Regional Training in Monitoring and Evaluation of Domestic Wastewater.	Havana, Cuba	13-17 April 2015
7.	GEF CReW	Regional and Replication Strategy Development Workshops	Kingston, Jamaica	4-8 May 2015
8.	AMEP	Caribbean Public Health Agency (CARPHA) Technical Advisory Committee (TAC) Meeting.	St. George's, Grenada	21 June 2015
9.	GEF CReW	Fourth Meeting the Project Steering Committee (PSC 4)	Antigua, Guatemala	7-9 July 2015
10.	AMEP	Second Meeting of the LBS Scientific, Technical and Advisory Committee (STAC).	Antigua, Guatemala	7-9 July 2015
11.	GEF CReW	Caribbean Water and Wastewater Association's 24th Annual Conference and Exhibition, "Improving the Quality of Life through Water and Waste Management Solutions.	Miami, Florida	24-28 August 2015
12.	GEF CReW	11th Annual High Level Session (HLS) Ministerial Forum	Miami, Florida	27-28 August 2015
13.	AMEP	Expert Group Meeting on "Integrated Approaches for the Implementation of the SAMOA Pathway and the Post-2015 Development Agenda: Linkages between SIDS, Climate Change, and Oceans and Seas	United Nations Headquarters, New York	2-3 September 2015

Event Number	Programme Area	Title	Venue	Date
14.	AMEP	The Second Organization of Eastern Caribbean States (OECS) Council of Ministers for Environmental Sustainability	St John's, Antigua and Barbuda	7-9 September 2015
15.	AMEP	First Caribbean Waste-to-Energy (WtE) Technology Expo and Conference	St. Georges, Grenada	20-23 January 2016
16.	GEF CLME+	First CLME Project Steering Committee Meeting and Inception Workshop	Cartagena, Colombia	26-28 January, 2016
17.	AMEP	Caribbean Node for Marine Litter Meeting	Kingston, Jamaica	3 February 2016
18.	GEF CReW	Final Regional Capacity Building Workshop	Port of Spain, Trinidad and Tobago	15-19 February 2016
19.	AMEP	Second Regional Planning Meeting of the Caribbean Platform for Nutrient Management	Trinidad and Tobago	24-25 February 2016
20.	GEF CReW	GEF-UNDP-IMO GloBallast Partnerships Programme R&D Forum and Exhibition on Ballast Water Management	Montreal, Canada	16-18 March 2016
21.	GEF CReW	Eighth GEF Biennial International Waters Conference (GEF IWC 8)	Sri Lanka	9-13 May 2016
22.	AMEP	State of the Convention Area Report (SOCAR)	Kingston, Jamaica	15-17 August 2016
23.	AMEP	Launch of Trash Free Waters Partnership Initiative for Jamaica	Kingston, Jamaica	18 August 2016
24.	GEF CLME+	Communications Workshop	Miami, Florida	5-7 July 2016
25.	GEF CLME+	Second Meeting of the CLME+ Project Executive Group (PEG)	Miami, Florida	6-7 September 2016
26.	GEF CLME+	Second Meeting of the CLME+ Strategic Action Programme (SAP) Interim Coordination Mechanism	Miami, Florida	8-9 September 2016
27.	GEF IWeco	GEF IWeco - First Project Steering Committee Meeting and Inception Workshop	Kingston, Jamaica	20-22 September 2016
28.	AMEP	Third Meeting of the LBS Scientific, Technical and Advisory Committee (STAC).	Miami, Florida, USA	October 31 to November 2, 2016

ANNEX V: Internal publications by AMEP and GEF CReW Project (2015-2016)

1. GEF CReW Baseline Assessment Study on Wastewater Management for:

- i. Belize (First Edition 2013, Revised 2015) – English
- ii. Costa Rica (First Edition 2013, Revised 2015) – Spanish
- iii. Guatemala (First Edition 2013, Revised 2015) – Spanish
- iv. Honduras (First Edition 2013, Revised 2015) – Spanish
- v. Jamaica (First Edition 2013, Revised 2015) – English
- vi. Panama (First Edition 2014, Revised 2015) – Spanish

2. GEF CReW Publications

- i. Charting a New Course for Wastewater Management in the Wider Caribbean Region: GEF CReW's Journey
- ii. Partnerships for Wastewater Management in the WCR
- iii. A Situation Analysis on Wastewater Management Platforms for the Wider Caribbean Region.

GEF CReW Documents are available at: <http://www.gefcrew.org/index.php/publications>

3. AMEP Fact Sheets (www.cep.unep.org/factsheets/)

- i. AMEP Sub-Programme
- ii. LBS Protocol
- iii. Wastewater
- iv. Solid Waste and Marine Litter
- v. Plastics and Microplastics
- vi. Ocean Acidification
- vii. Oil Spills

ANNEX VI: Formal Papers and Technical Presentations by the AMEP Sub-programme

Christopher Corbin, 2015. “Wastewater Management Plans: Can we improve the sector without them?” Presented at the Caribbean Water and Wastewater Association 24th Conference and Exhibition, August 24-28, 2015, Miami, Florida.

Marlon Daniels and Angela Franklin, 2015. “Improving the water quality in the waterways of Guyana: The lasting legacy of the GEF CReW Project”.

Marlon Daniels, 2015. “Innovative wastewater financing mechanisms – Why the CReW is not only about constructing wastewater treatment plants”. Presented at the Caribbean Water and Wastewater Association 24th Conference and Exhibition, August 24-28, 2015, Miami, Florida

Rensforde Joseph and Darren Shako, 2015. “The enemy within – Development without treatment: Making a case for improved wastewater management in Guyana”. Presented at the Caribbean Water and Wastewater Association 24th Conference and Exhibition, August 24-28, 2015, Miami, Florida.

Elizabeth Bradford, Christopher Corbin, Aaron Hutchins, Mary Jo Kealy, Elizabeth C. Smith and Jonathon Weier, 2015. “Making the case for increasing public and private investments in wastewater treatment: The importance of integrating effects on natural capital”.

Lauretta Burke, 2015. “Economic valuation and the benefits of improved wastewater treatment in the Caribbean”. Presented at the Caribbean Water and Wastewater Association 24th Conference and Exhibition, August 24-28, 2015, Miami, Florida.