

Antigua Workplan and Timeline

M = Meeting, **R**= Report (includes other publications), **W** = Workshop, **S** = Communication Strategy, **MR** = Mid-term Report, **TR** = Terminal Report, **I** = Project website (NOTE: the timing of the outputs are indicative; these will be finalized on project inception and subject to review during project implementation)

National Sub-project 1.1: Antigua & Barbuda	Year 1				Year 2				Year 3				Year 4			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
COMPONENT 1 : Implementation of targeted Innovative, climate-change resilient approaches to Sustainable Land Management (SLM) and enhanced management and maintenance of ecosystem services within the Cedar Grove / Five Isles Landscape in Antigua																
Component 1.1 Measurable stress reduction in land, soil and watershed quality through appropriate sustainable water, land and ecosystems management interventions that account for land degradation and climate change.																
Sub-component 1.1.1: Rapid SLM-related diagnostic analysis on the extent of land degradation related to wastewater and waste oil disposal																
Activity 1.1.1.1 - Baseline data collection (soil and water quality sampling to determine levels of nitrates / oil polluting soil and waterways) and hydrology assessment within the Cedar Grove Watershed Unit and formulation of a watershed management plan	R											R				
Activity 1.1.1.2 -Feasibility Assessment with stakeholder engagement for wastewater plant expansion (technical operations and financial capacities).		R														
Activity 1.1.1.3 -Presentation of lab report findings & feasibility assessments to stakeholders via consultations with government agencies, surrounding commercial entities and sewage handlers (to support connection to the McKinnon's Sewage treatment Plant)			M													
Activity 1.1.1.4 - Stakeholder consultation with Farmers & NGOs on use of treated greywater for irrigation purposes (begin developing PR strategy)		W										R				
Sub-component 1.1.2 : Sewage pre-treatment investment at McKinnons Wastewater Treatment Plant																
Activity 1.1.2.1 - Construction & Installation of a sewage pre-treatment facility based on guidance of feasibility assessment																
Activity 1.1.2.2 - Develop operations & training manual for operations of pre-treatment/ sorting facility							R									
Sub-component 1.1.3: Expanded capacity investment at McKinnon's Sewage Treatment plant (include energy efficiency and renewable energy installations)																

Activity 1.1.3.1 Procurement of materials and equipment needed for expansion as per feasibility assessments						R									
Activity 1.1.3.2 - Construction and installation of treatment compartments, solar panels and pumps to assist in electrical generation for lift stations and the transporting of sewage to main treatment compartments						R									
Activity 1.1.3.3 - Installation of pipeworks to the surrounding commercial entities and homes for the sale of sewage treatment services									R						
Sub-component 1.1.4: Installed land degradation control measures including reforestation within the Cedar Grove watershed (to include McKinnon's Pond and Cooks area) to reduce sedimentation and pollution															
Activity 1.1.4.1 - Assessment of areas conducive to reforestation activities within the McKinnon's Pond and also the Cooks Land fill site			R												
Activity 1.1.4.2 - Propagation of planting material and establishment of a green belt (mangrove plantings) around McKinnon's Pond as well as within the Cooks Landfill wetland								R							
Activity 1.1.4.3 - Establish runoff control measures within the Cedar Grove Watershed to increase filtration capacity of water courses flowing into the McKinnon's Salt Pond.									R						
Component 1.2 Enhanced livelihood opportunities and socio-economic co-benefits for targeted communities from improved ecosystem services functioning.															
Sub-component 1.2.1 – Community co-benefits assessment of IWeco investments (at local project site and national level) for support under the GEF-SGP															
Activity 1.2.1.1 – Conduct a feasibility study for a community-based livelihood initiative associated with the main project.			R												
Activity 1.2.1.2 – Conduct of a livelihoods support case study highlighting impact of improved water and land management practices on operations of sewage/liquid waste handlers and farmers													R		
COMPONENT 2: Strengthen Sustainable Land Management (SLM), Integrating Water Resources Management (IWRM) and ecosystems Monitoring and Indicators frameworks in Antigua & Barbuda.															
Sub-Component 2.1: Strengthened national and regional systems for monitoring of environmental status with respect to key international agreements.															
Sub-component 2.1.1: Monitoring protocol for assessment of environmental indicators at intervention sites															
Activity 2.1.1.1 - Compile all existing data and information pertaining to the environmental quality at target areas and their environs and complete gap analysis	R														
Activity 2.1.1.2 - Develop and institute a monitoring protocol for periodic assessment of identified environmental indicators at intervention sites with participatory engagement of stakeholders				R		R		R		R		R		R	R

Component 3 Objective: To strengthen policy, legislative and institutional reforms and capacity building to support Sustainable Land Management (SLM), Integrating Water Resources Management (IWRM) and ecosystem services management taking into consideration climate change resilience building in Antigua and Barbuda.																				
Sub-Component C3.1 Strengthened policy and legislation for the effective management of water, land and ecosystems resources that account for climate change.																				
Sub-component 3.1.1 Policy guidelines and legislation to support sustainable financing for land degradation and pollution control																				
Activity 3.1.1.1 - Establish appropriate policy guideline, support legislation and a pilot mechanism for the sustainable financing and management of land degradation and pollution control																				
Activity 3.1.1.2 - Develop and implement financial business plan to operationalize recommendations of the GEF-IWCAMP project in respect to viable operations of wastewater sector in the country																				
Sub-component 3.1.2 'Ridge-to-reef' management mechanism through partnership with the SIRF Fund, National Solid Waste Management Authority (NSMA) and the Central Board of Health.																				
Activity 3.1.2.1 - Support the establishment of SIRF Board for land and water pollution control services with approved by-laws and ordinances.																				
Component 3.2 Strengthened capacity of national and regional institutions and other stakeholders for water, land, and ecosystems management that accounts for climate change.																				
Sub-component 3.2.1 Compliance framework to support sustainable land management and pollution control																				
Activity 3.2.1.1 - Develop draft standards for sustainable land management, liquid waste collection and disposal, support policy and/or regulations																				
Activity 3.2.1.2 - Conduct sensitization workshops for land development practitioners/stakeholders, farmers, waste/sewage handlers on sustainable land management and pollution control policies																				
Activity 3.2.1.3 - Design a certification scheme and registration system for sustainable land management practice for land development practitioners/stakeholders and liquid waste collectors/haulers																				
Sub-component 3.2.2 Certified training programme on improved environmental practices for land and water resource protection																				
Activity 3.2.2.1 - Conduct an assessment of training needs																				
Activity 3.2.2.2 - Develop and implement training programme aligned with a tertiary academic institution (in sustainable land management practices and pollution control and remediation inclusive of operations and maintenance of the sewage treatment plant & waste oil separation) supported by field classroom training																				

Component 4 Objective: To enhance knowledge exchange, promotion of best-practices, replication and expanding stakeholder involvement in the Cedar Grove watershed area and at the national level.																	
Component 4.1 Improved engagement and information access for practitioners and other stakeholders through targeted knowledge sharing networks.																	
Sub-component 4.1.1. - Community and stakeholder consultations, technical exchanges and knowledge platforms																	
Activity 4.1.1.1 - Conduct KAP surveys of practitioners to guide design and development of outreach and awareness resources		R														R	
Activity 4.1.1.2 - Undertake stakeholder consultations including farmers, oil users (mechanics, yachting sector, etc) and community meetings	M			M					M						M		
Activity 4.1.1.3 - Establish an information platform for accessing information on certified liquid waste handlers, practitioners in land and water pollution remediation										I							
Activity 4.1.1.4 - Support technical exchanges, project visits amongst SIDS, and internships																	
Sub-component 4.1.2 – Awareness-raising resources to support sustainable land management practices and effective pollution control measures																	
Activity 4.1.2.1 - Develop and implement PR strategy targeting high officials, policy makers, private sector and other relevant stakeholders.		S															
Activity 4.1.2.2 - Develop and disseminate public service announcements, and a short feature documentary on addressing pollution and land degradation in the country																	
Activity 4.1.2.3 - Support information sharing via virtual regional and global knowledge sharing networks			R				R				R					R	