
Annual Performance Report

Project/Programme title: FP251 - Barbados Climate Resilient South Coast Water Reclamation Project (SCWRP)

Accredited Entity: Inter-American Development Bank

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RATIONALE

This report layout is designed to support the drafting of a structured report that assesses, evaluates, documents, and communicates the progress on Funding Proposal (FP) implementation and on its associated Funded Activity Agreement (FAA). The layout aims to provide a clear and comprehensive understanding of key objectives, progress, and risks, drawing on project implementation related data provided by Accredited Entities (AEs).

Considering the Green Climate Fund's (GCF) evolving strategic direction toward a Risk-Based Approach, the report is intended to:

- Track quantitative and qualitative progress of the project implementation.
- Highlight critical findings and emerging trends.
- Identify risks and propose actionable mitigation strategies.
- Support evidence-based decision-making.
- Promote transparency and accountability.
- Align with strategic and regulatory frameworks.
- Serve as a foundation for AE engagement on project performance

METHODOLOGY

The report's layout mirrors, to the extent possible, the structure of the Funding Proposal (FP) to maintain coherence with the presented information. However, the FP and the Report differ in scope and strategic intent; thus, while the FP serves a functional role in informing the Report, it does not dictate a strictly parallel structure.

A. PROJECT DATA (Prefilled where possible)				
Should any information/data prefilled from Section A.1 to Section A.12 be incorrect or require updating, please inform GCF's Project Lead of appropriate corrective action.				
A.1. Date of report submission		Click or tap to enter a date.		
A.2. Project or programme	Project	A.3. Sector	Public	
A.4. Total Financing (GCF + Cofinance)	GCF financing (total)		million USD (\$) 70	
	Grant		million USD (\$) 40	
	Co-financing (total)		million USD (\$) 40	
	Total Financing		million USD (\$) 110	
A.5. Total GCF funding disbursed to this date	million USD (\$) 2.628			
A.6. Implementation period	5 years			
A.7. ESS Category (Refers to <i>GCF revised Environmental and Social Policy</i> and <i>GCF ESS Standards</i> to assess your FP category.)			Category B	
A.8. Executing Entity Information				
Full legal name	Country of registration	Entity type	Role in project	Focal point(s) and email(s)
Barbados Water Authority	Barbados	Public sector – Government-controlled subnational, national or regional entity (including	Lead Executing Entity	N/A
A.9. Co-Financier information				
Full legal name	Country of registration	Focal point(s) and email(s)	Ownership entity type	Beneficial owner(s)
Inter-American Development Bank	United States of America	N/A	Multilateral Institution	N/A

A.10. Alignment with country NDCs & NAP <i>(NB Only populate if applicable, e.g., if your project/programme specifically contributes to a country's NDC or NAP target/s)</i>				
Country	Date of NDC/ NAP submission	NDC/ NAP objective	Brief description of project's alignment with NDC/ NAP objectives	Percentage of target met with proposed project. Beneficial owner(s)
NA	NA	NA	NA	NA
A.11. Estimated duration of impact			25 years (total project lifespan)	
A.12 Report to be shared with NDA			No ☐ (Justification, max. 100 words)	
N/A				

B. EXECUTIVE SUMMARY

Should any information/data prefilled in Section “B” be incorrect or require updating, please inform GCF’s Project Lead for appropriate corrective action.

B.1. Summary

The project aims to strengthen Barbados’ climate resilience by improving water security, enhancing food sovereignty, and restoring environmental quality through the transformation of the South Coast Sewage Treatment Plant into a modern Water Resource Recovery Facility. By enabling wastewater reuse, improving treatment efficiency, and integrating renewable energy, the project is expected to reduce climate vulnerability, enhance ecosystem health, and contribute to greenhouse gas (GHG) mitigation.

Following achievement of eligibility for IDB disbursement in September 2025, the project made strong progress toward operational readiness. The Barbados Water Authority (BWA) and the core Project Execution Unit (PEU) advanced preparations for the first disbursement. A key milestone was the advancement of the flagship water reclamation infrastructure, with procurement reaching an advanced stage, negotiations concluded in November 2025, and the contract and letter of award under finalization by legal and approval entities for anticipated signing in January 2026. In parallel, feasibility studies for solar energy generation with battery storage were completed in October 2025, supporting future renewable energy integration.

Progress was also made in strengthening implementation capacity. The PEU was largely staffed by September 2025, with remaining positions under recruitment and expected to be completed by January 2026. A contract management workshop held in November 2025, supported by Technical Cooperation BA-T1107, strengthened capacity in FIDIC-based procurement and contract management. Procurement strategies for reclaimed water reuse infrastructure and biodiversity interventions were initiated in December 2025.

As a new project, no physical outputs or direct climate impacts had yet been delivered by end-2025; however, implementation progressed in line with expectations. A key lesson learned is the importance of early and sustained investment in staffing and capacity building for both BWA and the PEU to manage complex FIDIC procurement and contract management processes. This was effectively mitigated through targeted training and expert advisory support, strengthening institutional readiness. The project kick-off is expected in early Q1 2026, including contract signing, commencement of design activities, and launch of key procurement processes.

C. RESULTS AND IMPACTS

C.1. Overall Summary of the Project Progress

(This section provides a narrative report summarizing the overall progress of the implementation status of the funded activity progress during the reporting period. 1,500 words)

Background

Implementation activities in 2025 focused primarily on completing the steps required to operationalize the project. The Funded Activity Agreement became effective on 14 March 2025, and all conditions precedent to first disbursement were fulfilled by the Borrower on 3 September 2025. The first disbursement request was submitted on 9 September 2025, and the initial disbursement of USD 2,628,000 was received on 23 December 2025.

As the Borrower, via the EA, requested approval from the AE for advanced contracting retroactive financing in accordance with the AE's Core Procurement Principles, prohibited practices, and eligibility, procurement under Component 1 for the design and construction of the SCWRRF and upgrade of the SCSTP has been initiated and progressed.

Outcome 1

During the reporting period, progress toward this outcome focused on advancing procurement for the construction of the SCWRRF and the upgrading of the SCSTP. The procurement process for the design and construction works was completed during the reporting year, aligning with the implementation plan and representing a key milestone toward delivering the infrastructure required to increase the availability of reclaimed water. Procurement for construction supervision services also progressed. No physical construction had commenced by the end of the reporting period.

Output 1.1

Progress under this output focused on completing procurement processes required for the design and construction of the SCWRRF. With the conclusion of negotiations, the contract for the design and construction of the SCWRRF was drafted in November 2025. As of end December 2025, the legal agreement was under review by the Solicitor General's Office of the Government of Barbados for final validation, with contract signature expected Q1 2026.

Activity 1.1.1

As the EA requested advance contracting, the procurement process for the design and construction of the SCWRRF was initiated in February 2024 and the contract drafted in November 2025. As of end December 2025, the legal agreement was under review by the Solicitor General's Office of the Government of Barbados for final validation, with contract signature expected Q1 2026.

Activity 1.1.2

The EA initiated and progressed with the procurement process for supervision services for the design and construction of the SCWRRF. As of December 2025, the EA was in negotiations with the highest-ranked firm. Contract award and signature are anticipated in Q1 2026.

Output 1.2

Activities under this output are being implemented jointly with the design and construction for the SCWRRF, under a single contract.

Activity 1.2.1

As implemented jointly with Activity 1.1.1, refer to description above.

Activity 1.2.2

As implemented jointly with Activity 1.1.2, refer to description above.

Outcome 2

During the reporting period, progress toward this outcome remained at the preparatory stage. In alignment with the implementation plan, preparatory activities were undertaken to enable the launch of procurement processes for reclaimed water reuse infrastructure and aquifer recharge systems in 2026. No physical works had commenced by the end of the reporting period.

Outputs 2.1 & 2.2

Preparatory activities were undertaken to support the initiation of procurement processes for the irrigation pipeline and aquifer recharge infrastructure in 2026. The Request for Expressions of Interest is expected to be launched in Q1 2026 and contract expected to be finalized by Q4 2026.

Activities 2.1.1, 2.1.2, 2.2.1 & 2.2.2

Preparatory steps were undertaken during 2025 to support procurement processes for these activities in 2026. The Request for Expressions of Interest is expected to be launched in Q1 2026 and contract expected to be finalized by Q4 2026.

In parallel, the EA advanced feasibility work for the pipeline, including an irrigation demand assessment to support the reclaimed water reuse pipeline. The study quantified irrigation water requirements at River Plantation and assessed the potential to supply additional farmland along the proposed pipeline corridor during a future drought year under climate change scenarios. The study was completed in early January 2026 and fulfils Milestone 12 of the Water Resilience Commitments under the Debt for Climate Transaction.

Outcome 3

Activities under this outcome did not commence during the reporting period. Preparatory steps were undertaken to initiate procurement processes for baseline assessments, monitoring activities, and renewable energy infrastructure in 2026. Activities under this outcome are slightly behind the implementation timeline, but completion is expected within the overall project implementation timeline.

Output 3.1

The EA, in coordination with the Natural Heritage Department (NHD), has commenced development of the procurement strategy for the development of the natural heritage management plan. The GoB has enhanced capacity within the NHD, using internal resources, to support the EA in executing the activities under this output.

Activities 3.1.1 – 3.1.6

The EA, in coordination with the NHD, has commenced development of the procurement strategy for the development of the natural heritage management plan. The GoB has enhanced capacity within the NHD, using internal resources, to support the EA in executing the activities under this output.

Output 3.2

Through IDB Invest support, the EA hired a Consulting Firm to advance feasibility studies and preparation of bidding documents for the solar energy generation infrastructure, including battery storage. The feasibility studies were completed in Q4 2025 and the procurement documents expected to be delivered in Q1 2026.

Activity 3.2.1

Preparatory steps were undertaken during 2025 to support the procurement of the solar energy infrastructure. This includes the completion of feasibility studies and the preparation of tender documents for procurement.

Outcome 4

The EA has commenced development of the procurement strategy for the institutional strengthening activities, in coordination with key stakeholders to support execution. This includes the preparation of Terms of References for priority consultancies, expected to be launched Q2 2026. These activities remain on track to be completed within the overall project timeline.

Output 4.1

Progress under this output focused on initiating the AquaRating assessment for the BWA. Training was conducted and the EA is currently uploading the required information to the AquaRating platform. The assessment is expected to conclude in Q2 2026, after which an action plan will be developed to guide institutional improvements. Activities related to the implementation and training of a Groundwater Modeling System (GMS) had not yet commenced during the reporting period

Activity 4.1.1

The EA is in the process of administering the AquaRating assessment; training has been conducted and the EA is in the process of uploading on the platform. The assessment is expected to conclude in Q2 2026 after which, the implementation plan will be developed.

Activity 4.1.2

This activity is expected to commence in 2026.

Output 4.2

During the reporting period, preparatory steps were undertaken to support the implementation of gender equality and social inclusion activities. The EA initiated the procurement process to contract a Gender and Social Specialist and a Communications Specialist, as part of the Project Executing Unit (PEU), to lead the development and implementation of gender-responsive and stakeholder engagement activities under the project. These Specialists are expected to be contracted in January 2026.

Activities 4.2.1 – 4.2.6

The PEU has initiated the procurement process to contract a Gender and Social specialist as well as a Communications Specialist to lead gender and stakeholder engagement activities. These contracts are expected to be signed in early January 2026.

Outputs 4.3 & 4.4

Preparatory steps were undertaken during the reporting period to support the development of monitoring, reporting, and verification (MRV) system and platform to track water and climate-related parameters. The IDB initiated the process to contract a consultant, under separate resources, support the EA with the initial work required to develop the MRV system and support the project's monitoring and evaluation activities.

Activities 4.3.1 & 4.4.1

The IDB is contracting a consultant, under separate resources, to undertake the initial work required to develop the MRV system and platform and support the project's monitoring and evaluation (M&E) activities. The consultant is expected to be contracted in Q1 2026.

Outputs 4.5, 4.6 & 4.7

Activities under these outputs did not commence during the reporting period. They are expected to commence in 2026.

Activities 4.5.1, 4.6.1, 4.6.2, 4.7.1, 4.7.2

These activities are expected to commence in 2026.

Project Administration

The core Project Executing Unit (PEU) staff has been hired by the EA for the project, comprising the following positions: Project Coordinator, Project Engineer, Financial Specialist, Environmental Management Specialist, and Procurement Specialist. The Gender and Social Specialist as well as the Communications Specialist are expected to be contracted early January 2026.

C.2. Performance against the Funding Proposal Logical Framework Indicators

For each of the indicators please report only the 'annual value' for the reporting year; this means reporting solely the values achieved from January 1st, 2025, to December 31st, 2025. The "cumulative value" will automatically be updated by the system by aggregating reported annual values since project FAA effectiveness.

Please ensure that targets are clearly defined and reported using the following categories:

- *Midterm Target: The results to be achieved by the midpoint of implementation.*
- *Final Target: The results to be achieved by the conclusion of project or programme implementation.*
- *Lifetime Target: The total results expected over the entire operational period of the project or programme.*

Note that the baseline, midterm, final and lifetime targets will be prefilled based on your previous Annual Performance Report and/or Funding Proposal. It is imperative that you carefully review, verify and update where relevant.

Should the project be Multicountry, please report the achievement by Country.

Lastly, avoid using commas or periods as thousand separators. Periods should only be used as decimal separators.

For REDD+ Results-Based Payment (RBP) projects, you are only required to report on the progress of activities.

Should any prefilled information/data in the Logical Framework be incorrect or require updating, please inform GCF's Project Lead for appropriate corrective action.

GCF Outcome Level: Standardized Indicators

MITIGATION

**(IRMF) Core Indicator 1 Greenhouse gas (GHG) emissions reduced, avoided, or removed/sequestered.
(PMF) M1 Tonnes of carbon dioxide equivalent (t CO₂eq) reduced because of GCF-funded projects/programmes**

Total GHG emission reduced, avoided, or removed/sequestered (tCO₂eq) because of GCF support, disaggregated by result area.

Report on the GHG emissions reduction achieved during this reporting year only. This should include reduced, avoided, or sequestered through project activities such as renewable energy deployment, energy efficiency improvements, or carbon sequestration initiatives. You must also disaggregate this value by country and result area.

Baseline	Target			Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final	Lifetime			
0	0	2657	66430	N/A	0	0

MRA 4: Forestry and land use

**(IRMF) Core 4: Hectares of natural resource areas brought under improved low emission and/or climate resilient management practices (ha)
(PMF) M9.1 Hectares of land or forests under improved and effective management that contributes to CO₂ emission reductions (ha)**

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final			
0	0	33	N/A	0	0

(IRMF) Supplementary 4.1 Hectares of terrestrial-forest, terrestrial-non-forest, freshwater and coastal-marine areas brought under restoration and or improved ecosystems (ha)

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final			
0	0	33	N/A	0	0

ADAPTATION (CORE 2 and 3)

**(IRMF) CORE Indicator 2: Direct and indirect beneficiaries reached.
(PMF) A1 Direct Beneficiaries of GCF funded project/programme (disaggregated by sex)
(PMF) A2 Indirect Beneficiaries of GCF funded project/programme (disaggregated by sex)**

Total number of direct and indirect beneficiaries (female/male) receiving adaptation benefits from GCF-supported interventions.

Report the total number of direct and indirect beneficiaries receiving adaptation benefits during this reporting year. Beneficiaries are individuals who directly benefit from climate adaptation interventions supported by your project. You must disaggregate this value by country and gender.

Direct Beneficiaries Reached

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value <i>(Automatically calculated)</i>
	Mid-term	Final			
0	0	50707	N/A	0	0
		25313 (males)	N/A	0	0
		25312 (females)	N/A	0	0
Indirect Beneficiaries Reached					
Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value
	Mid-term	Final			
0	0	231293	N/A	0	0
		115646 (males)	N/A	0	0
		115647 (females)	N/A	0	0

ARA 2: Health and well-being, and food and water security

(IRMF) Supplementary 2.1 Beneficiaries (female/male) adopting improved and/or new climate-resilient livelihood options (# direct beneficiaries)

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final			
0	0	706	N/A	0	0
0	0	353 (females)	N/A	0	0
0	0	353 (males)	N/A	0	0

(IRMF) Supplementary 2.3 Beneficiaries (female/male) with more climate-resilient water security (# direct beneficiaries)

(PMF) A2.3 Number of males and females with year round access to reliable and safe water supply despite climate shocks and stresses (# direct beneficiaries)

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final			
0	0	40	N/A	0	0

ARA 3: Infrastructure and built environment

(IRMF) Core 3 Value of physical assets made more resilient to the effects of climate change and/or more able to reduce GHG emissions (USD)

(PMF) A3.1 Number and value of physical assets made more resilient to climate variability and change, considering human benefits (reported where applicable) (USD)

Baseline	Target		Previous Year Cumulative Value	Annual Value (Reporting Year)	Cumulative Value (Automatically calculated)
	Mid-term	Final			

USD 0	USD 0	USD 68.5 M	N/A	USD 0	USD 0
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Project/Programme Specific Indicators							
Indicator Name	Unit	Baseline	Mid-term Target	Final Target	Previous Year	Annual Value	Cumulative
Volume of reclaimed water utilized for aquifer recharge per year	m ³	0	0	0.44 million m ³ /year	N/A	0	0
Volume of reclaimed water utilized for agricultural irrigation per year	m ³	0	0	3.94 million m ³ /year	N/A	0	0
# of STPs that can treat water to tertiary water quality standard	#	0	0	1	N/A	0	0
% effluent toxicity levels	% of laboratory reports	0	0	100	N/A	0	0
Km of pipeline installed for transporting tertiary treated wastewater	km	0	10	25	N/A	0	0
Volume (m ³) tertiary treated wastewater made available per day	m ³	0	0	12,000	N/A	0	0
# of Monitoring Plans developed for the NHCA	#	0	0	1	N/A	0	0
# of Monitoring Plans implemented for the NHCA	#	0	0	1	N/A	0	0
% of electricity consumption offset by renewable energy	%	0	0	100	N/A	0	0
# of implementations of AquaRating system	#	0	0	1	N/A	0	0
# of monitoring systems implemented to track water quality, quantity, and climate-related parameters	#	0	0	1	N/A	0	0
# of public awareness and stakeholder engagement campaigns to promote the benefits of wastewater reuse and build community support developed	% expected campaigns implemented	0	20	100	N/A	0	0

# of persons trained on implementation, maintenance, operations and management of the SCWRRF who are directly involved in these activities (disaggregated by sex)	#	<u>0</u>	<u>10</u>	<u>50</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
# of persons trained on Gender Sensitivity (disaggregated by sex)	#	<u>0</u>	<u>200</u>	<u>500</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
# of customized trainings developed/ adopted	#	<u>0</u>	<u>4</u>	<u>10</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
# of documents related to regulation policies	#	<u>0</u>	<u>0</u>	<u>3</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
# of MW of PV installed	#	<u>0</u>	<u>0</u>	<u>7</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
Energy generation from PV	MWh/y	<u>0</u>	<u>0</u>	<u>4,088 MWh/y</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
tCO2 reduced	tOC2	<u>0</u>	<u>0</u>	<u>2,657 by 2029</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
# of EE technologies Implemented (disaggregate by type – DAF thickeners, aerobic digesters, etc.)	#	<u>0</u>	<u>0</u>	<u>1 (Sludge treatment installed)</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
Number of odor complaints from communities surrounding of the SCSTP and lift stations received per year	#	<u>tbd</u>	<u>No change</u>	<u>0</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
% of Water Quality Monitoring Analysis meeting regulatory requirements for wastewater discharge (BOD, COD, DO)	% of laboratory reports	<u>0</u>	<u>0</u>	<u>100</u>	<u>N/A</u>	<u>0</u>	<u>0</u>
Amount of wastewater discharged into marine environment	Million m ³	<u>2.2</u>	<u>0</u>	<u><0.11</u>	<u>N/A</u>	<u>0</u>	<u>0</u>

D. RISKS ASSESSMENT AND MANAGEMENT

D.1. Risk and mitigation measures

As stated in the Board-approved "Risk Appetite Statement," a cornerstone of the GCF's Risk Framework is proactive risk management. This includes risk identification, assessment, monitoring, reporting and appropriate mitigation to minimize and respond to risks, both directly and through partners implementing GCF's projects and programmes.

Risk Management Matrix

A risk is the probability of an event to adversely affect the achievement of the project Impact (its objectives, outcomes, and results). "Inherent risk" refers to the level of risk present before any of the mitigating measures are applied. "Residual risk" represents the level of risk after mitigating measures have been implemented.

Please update the project risk matrix by reviewing and revising information for all previously identified risks, and adding any new risks identified during implementation by selecting the adequate Risk Area in the drop-down menu. For each risk, ensure you provide a clear risk description, outline the potential negative consequences, specify the mitigating measures in place, and complete the severity scoring as required.

For the Integrity Risk Area, an annual reporting (and more frequent and prompt reporting if stated in the legal agreements with the GCF) is required for each of its 3 Risk Sub-areas, as GCF has zero tolerance for Prohibited Practices, for SEAH in Fund-related Activities, and for working with parties and engaging in activities subject to sanctions imposed by the United Nations Security Council. The AE reporting obligations under GCF's policies and in the legal agreement(s) with the GCF include but are not limited to requiring AEs to take action to identify, mitigate and promptly disclose to the GCF any real or perceived Conflict of Interest, any alleged or suspected Prohibited Practice, promptly notify the Fund of any material risks or other indications of money laundering and/or financing of terrorism in relation to the Project and promptly take remedial steps in consultation with the GCF.

The AE shall also provide updates on the risks and mitigating measures under the other Risk Areas when changes to already identified risks or new risks have been identified.

Risk scoring:

For likelihood, please rate on a scale from 1 to 5: 1. Unlikely, 2. Possible, 3. Likely, 4. Almost certain, 5. Certain

For impact, please rate on a scale from 1 to 5: 1. Close to none, 2. Low, 3. Medium, 4. High, 5. Catastrophic

The severity of each risk is automatically computed based on the likelihood and impact of the risk.

Risk name	Origin	Area	Sub-area (The drop-down list is only applicable for Integrity, Legal and E&S risks)	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Service Interruptions	Project related	Design and Implementation	<u>Choose an item.</u>	low		low

Description

Wastewater treatment is an essential public service that should be consistently accessible. However, the implementation of new infrastructure for wastewater treatment comes with potential challenges, including interruptions during construction, the initiation of new procedures, and staff adaptation.

Consequences

Disruption to wastewater services, which could lead to reduced treatment efficiency and potential environmental or public health risks.

Mitigation measures

To ensure staff adaptation, EA staff will actively participate in the planning of installation works from the start and will be thoroughly consulted and involved throughout the implementation process. The suppliers responsible for the new facilities must not only install and initiate operations but also fine-tune the installations during the initial operating period. Additionally, the suppliers are required to provide training for EA staff. To minimize the disruption to the system, infrastructure enhancements will be carried out during periods of low flow in the system. The system's inherent capacity will be leveraged to manage flows during planned disruptions, ensuring the overall functionality of the system. Since the planned investments involve adding new modules to existing facilities, the expectation is that such disruptions will be

infrequent. In the rare event of unexpected disruptions, resorting to ocean outfall of raw sewage may be considered as a last-resort solution. However, it is not anticipated that this measure will be necessary.			
Comments			
N/A			
	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	2 - Possible	1 - Unlikely	2 - Possible
Impact	2 - Low	1 - Close to none	2 - Low
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

Risk name	Origin	Area	Sub-area <i>(The drop-down list is only applicable for Integrity, Legal and E&S risks)</i>	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Wastewater Treatment Overwhelming	External factors	Natural hazard	<u>Choose an item.</u>	low		low
Description						
The sewerage system in Barbados is designed to only convey wastewater nonetheless stormwater enters the sewerage system during episodes of high rainfall. Two main sources of stormwater entry have been identified: (1) manhole covers of the sewerage system are lifted by local neighbors to alleviate surface flooding; and (2) contrary to the building code, several larger residential buildings have connected downspouts to the sewerage connection. Climate change forecasts indicate a reduction of rainfall of about 9% by 2050 compared to current rainfall. The incidence of severe storms with high rainfall events, however, is expected to increase.						
Consequences						
Stormwater has the potential to overwhelm the wastewater treatment, as a result of surface run-off of rain entering the sewerage system.						
Mitigation measures						
<i>Please describe how the identified risk will be mitigated or managed. Do mitigation measures lower the likelihood and/or impact of risk occurring? If so, evaluate the residual risk using a score of 1 to 5. 150-word limit</i> - Identification of areas where excessively large inflows generate from and to notify non-compliant building owners of their violation of the building code with an instruction to remediate the situation; - Restriction to the operating access to the manhole covers. If ocean outfall of raw sewage occurs, the impacts are mitigated due to the fact that the concentration of waste is strongly reduced by the large volume of stormwater in the effluent.						
Comments						
. N/A						
	Inherent risk			Residual risk		Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>			<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>		<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	3 - Likely			2 - Possible		3 - Likely

Impact	2 - Low	1 - Close to none	2 - Low
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

Risk name	Origin	Area	Sub-area <i>(The drop-down list is only applicable for Integrity, Legal and E&S risks)</i>	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Impacts on proposed BWRO plant (Wilcox Ridge/Providence)	External factors	Design and Implementation	<u>Choose an item.</u>	low		low

Description

Please briefly describe the risk and its root causes to the best of your knowledge. - 150-word limit

There is a proposed Brackish Water Reverse Osmosis (BWRO) plant being considered in the Wilcox Ridge/Providence area. The plant is planned to be supplied with water from the Christ Church aquifer, which will be recharged with reclaimed water.

Consequences

Please briefly describe the consequences of the risk to the best of your knowledge. 150-word limit

According to the Groundwater Modeling conducted by AECOM on the Christ Church Aquifer, there is a notable probability of recharged water migrating to the plant. This has the potential to impact the quality of treated water as well as the operational efficiency of the BWRO. The study also indicates that the combination of the treated wastewater recharge and BWRO withdrawals may also cause migration of the existing nitrate distribution. The interplay of recharge and withdrawal will alter the aquifer gradients, so both nitrate impact to the coastline and/or nitrate capture by BWRO are reasonably expected.

Mitigation measures

Please describe how the identified risk will be mitigated or managed. Do mitigation measures lower the likelihood and/or impact of risk occurring? If so, evaluate the residual risk using a score of 1 to 5. 150-word limit

The effluent from the SCWRRF will be regularly tested to ensure compliance with regulations to guarantee the proper quality for recharge. The filtration zones for the treated wastewater will be selected on the basis of expert knowledge of the limestone formation in BWA and other relevant government agencies. It is recommended that the feasibility study for the BWRO (Brackish Water Reverse Osmosis) project includes a thorough analysis, encompassing detailed Groundwater Modelling (quantitative assessments, numerical modelling).

Comments

The RO plant is no longer planned for the area, and therefore, the risk no longer exists,

	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	2 - PossibleChoose an item.	1 - Unlikely	1 - Unlikely
Impact	3 - Medium	1 - Close to none	1 - Close to none
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

Risk name	Origin	Area	Sub-area (The drop-down list is only applicable for Integrity, Legal and E&S risks)	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Impacts of recharged water on adjacent potable aquifers	Project related	Design and Implementation	<u>Choose an item.</u>	low		low
Description						
Reclaimed water recharge to the aquifer could migrate and impact potable water aquifers.						
Consequences						
Groundwater modelling conducted by AECOM indicates that reclaimed water recharged at location will not travel north and will not impact potable aquifers to the north, particularly if BWRO is pumping. The recharge location is definitively on the south side of the simulated groundwater divide and additional groundwater will not raise groundwater elevation enough to change that divide.						
Mitigation measures						
Regular monitoring of water quality of wells						
Comments						
N/A						
	Inherent risk		Residual risk		Current residual risk	
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>		<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>		<i>Please rate the current risk's likelihood and impact.</i>	
Likelihood	1 - Unlikely		1 - Unlikely		1 - Unlikely	
Impact	2 - Low		1 - Close to none		2 - Low	
Severity	<i>Likelihood x Impact, auto populated by the system</i>		<i>Likelihood x Impact, auto populated by the system</i>		<i>Likelihood x Impact, auto populated by the system</i>	

Risk name	Origin	Area	Sub-area <i>(The drop-down list is only applicable for Integrity, Legal and E&S risks)</i>	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Impacts of recharged water on downstream private wells currently used for irrigation	Project related	Design and Implementation	<u>Choose an item.</u>	low		low
Description						

[illegible]

N/A			
	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	3 - Likely	2 - Possible	3 - Likely
Impact	2 - Low	1 - Close to none	2 - Low
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

Risk name	Origin	Area	Sub-area (The drop-down list is only applicable for Integrity, Legal and E&S risks)	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Poor Integration of Gender and ESS in Proposed Activities	Project related	Environmental and Social (ESS)	<u>Choose an item.</u> Environmental & Social Safeguards	Low		low

Description

The deficiency in integrating gender, environmental, and social safeguard (ESS) considerations within the execution and oversight of the project presents a critical challenge. The oversight not only hampers the projects' effectiveness but also undermines their long-term sustainability

Consequences

Without a robust incorporation of gender perspectives, there is a risk of perpetuating existing inequalities, while neglecting environmental and social safeguards may lead to adverse impacts on local communities and ecosystems.

Mitigation measures

The project underwent a thorough evaluation in accordance with both the GCF's environmental and social protection standards and the IDB Environmental and Social Performance Standards. This assessment identified potential risks and proposed corresponding mitigation measures.

To address gender equality, a Gender Action Plan has been formulated. This plan will be actively implemented to integrate gender considerations into all project interventions. Additionally, an Environmental and Social Management Plan (ESMP) serves as a robust framework, ensuring that the project activities uphold environmental sustainability and do not adversely affect women or marginalized groups.

Comments

N/A

	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	3 - Likely	Choose an item.1 - Unlikely	3 - Likely
Impact	2 - Low	1 - Close to none	2 - Low

Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>
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Risk name	Origin	Area	Sub-area (The drop-down list is only applicable for Integrity, Legal and E&S risks)	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Procurement Compromise	Project related	Fiduciary	<u>Choose an item.</u>	Close to none		Close to none

Description

Procurement process may be compromised by application of sanctioned entities to tenders.

Consequences

Potential reputational, legal, and compliance risks to the project if sanctioned entities are inadvertently engaged in procurement processes.

Mitigation measures

Procurement of goods and services for the project will be monitored by IDB. Barbados is a participant in Financial Action Task Force (FATF) Caribbean Financial Action Task Force (CFATF). There are no United Nations Security Council (UNSC) sanction regimes currently under implementation for Barbados. In addition, no individual, entity or other group listed on the UNSC sanctions list, including the consolidated list, will be involved in any manner with the project or its activities, either as a counterparty, implementer or beneficiary.

Comments

In the advance procurement of works and services in Component 1, IDB ensured that core procurement practices and procedures were adhered to in the process.

	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	1 - Unlikely	1 - Unlikely	1 - Unlikely
Impact	3 - Medium	1 - Close to none	1 - Close to none
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

Risk name	Origin	Area	Sub-area (The drop-down list is only applicable for Integrity, Legal and E&S risks)	Residual Risk at entry	Current Residual Risk (previous update)	Current Residual Risk (latest update)
Currency fluctuation	External factors	Financial	<u>Choose an item.</u>	Close to none		Close to none

Description

Currency fluctuations may impact the budget of the project.

Consequences

Currency fluctuations could lead to cost variations in procured goods, potentially affecting the project budget.			
Mitigation measures			
All global services will be obtained in USD, eliminating any foreign exchange risks. The Barbadian Dollar is fixed to the USD at a constant rate of 1USD = 2BBD and has demonstrated stability for a minimum of 10 years. Consequently, locally sourced services also carry no exposure to currency exchange risks. Nevertheless, the procurement of goods for the SCSTPs upgrades and SCWRRF will undergo an international bidding process and could be susceptible to price variations if specified in a currency other than USD. The bidding documents will mandate that bidders provide quotes for the goods in both USD and the relevant local currency, if applicable. This ensures transparency for both parties by highlighting the impact of currency fluctuations.			
Comments			
N/A			
	Inherent risk	Residual risk	Current residual risk
	<i>Please rate the risk's likelihood and impact before any mitigation measures are applied.</i>	<i>Please rate the risk's likelihood and impact after the proposed mitigation measures are applied.</i>	<i>Please rate the current risk's likelihood and impact.</i>
Likelihood	1 - Unlikely	1 - Unlikely	1 - Unlikely
Impact	3 - Medium	1 - Close to none	1 - Close to none
Severity	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>	<i>Likelihood x Impact, auto populated by the system</i>

D.2. Report risk incidents					
<i>If any risk (previously identified or not) has materialized, please capture it here as a risk incident.</i>					
Incident Name	Date of Occurrence	Date of Discovery	Incident Severity	Risk Type	Related Risk
<i>Provide descriptive name for the incident.</i>	<i>When did the incident actually happen?</i>	<i>When was the incident first identified or reported?</i>	<i>Select severity.</i>	<i>For new incidents, leave the related risk field blank.</i>	<i>If it is an existing risk, please select a related risk.</i>
N/A	N/A	N/A	N/A	N/A	N/A
Description					
N/A					
Root cause analysis					
N/A					

E. ENVIRONMENTAL & SOCIAL SAFEGUARDS, GENDER, and INDIGENOUS PEOPLES	
<i>This section provides an update against the ESS standards agreed as part of the Environmental and Social Action Plan (ESAP) and Environmental and Social Management Framework (ESMF), as well as Environmental and Social Management System (ESMS), Environmental and Social Impact Assessment (ESIA), Environmental and Social Management Plan (ESMP), Indigenous Peoples Plan (IPP), Indigenous Peoples Plan Framework (IPPF), Resettlement Action Plan (RAP), Resettlement Policy Framework (RPF) when applicable.</i>	
F.1. progress on key challenges and updates regarding Environmental and Social Safeguards	
Key Environmental and Social Changes <i>Have there been any changes in the key environmental and social risks and impacts? If you tick 'Yes,' please provide further information.</i>	Yes ☐ (Description) No ☒
Environmental and Social Safeguarding Updates <i>Have there been any change/update on environmental and social safeguarding? you tick 'Yes,' please provide further information.</i>	Yes ☐ (Description) No ☒
There have been no environmental and social changes to the project at this time.	
F.2. Compliance with laws and regulations applicable to ESS. Gender and Indigenous Peoples.	
Have there been any changes or updates regarding compliance with applicable laws and regulations of the country, as well as the relevant conditions or covenants under the FAA?	Yes ☐ (Description) No ☒
N/A	
F.3. ESS standards implementation progress	
Does this reporting period include any ESS standards-related activities or updates?	Yes ☐ (Description) No ☒
There are no updates at this time, the project is moving forward with procurement but works have not started, design phase for the wastewater treatment plant is be worked on and this includes the geotechnical survey.	
Activities implemented during the reporting period, including monitoring	
Geotechnical surveys No construction has begun	
Outputs during the reporting period	
N/A	
Key environmental, social and gender issues, risks and impacts addressed during implementation	
The project is starting development, the final ESA/ESMPs based on the final design is being finalised, no works have started	
Any pending key environmental, social and gender issues needing accredited entity's actions and GCF attention	
N/A	
Remarks/Notes	
N/A	
F.4. Sub-projects information	
Have any subprojects been implemented?	Yes ☐ (Description) No ☒
Title of the sub-project	N/A
ESS management plan/instrument in place	
N/A	
Stakeholder engagement plan in place	
The SEP was prepared as part of the Program's ESA/ESMP. It includes guidelines and a strategy for stakeholder engagement during project execution. Due to the context of incidents in sewage management in Barbados (overflow of	

raw sewage in 2018, which caused a national crisis) and the lack of public knowledge about the water treatment process, the SEP includes communication and stakeholder engagement strategies that address concerns and negative sentiments regarding the use of reclaimed water for agricultural irrigation. The updated ESA/ESMP includes a Grievance Redress Mechanism (GRM) to channel stakeholder questions, concerns, or claims, aligned with ESPS-10 requirements.	
Activities/engagement conducted with Indigenous peoples	
N/A	
Key environmental, social and gender issues, risks and impacts addressed during this reporting period	
No works have begun – therefore no impacts to be addressed	
Any pending key environmental, social and gender issues needing accredited entity's actions and GCF attention	
N/A	
F.5. Implementation of the stakeholder engagement plan	
Were any actions undertaken to increase engagement of relevant stakeholders in the project, particularly regarding environmental, social, and gender elements?	Yes ☐ No ☒ (Description)
The ESIA/ESMP, including the SEP, is being finalized. This will be done before increasing stakeholder engagement.	
Title of the sub-project	N/A
Activities implemented during the reporting period	
N/A	
Dates and venues of engagement activities	
N/A	
Sex-disaggregated data on stakeholder engagement participants (male + female =) Sex-disaggregated data on stakeholder engagement participants (male + female =)	
No stakeholder engagements have happened since the preparation.	
Information shared with stakeholders	
Under-developed.	
Outputs including issues raised and addressed during the reporting period	
N/A	
Remarks/Notes	
N/A	
F.6. ESS forward planning and lessons learned	
Are there any planned ESS activities for the next reporting period or lessons learned to share from this period?	Yes ☒ (Description) No ☐
Provide planned activities on environmental and social safeguards for the next reporting period	
Stakeholder engagement will start in the next reporting period as well as updating the ESA/ESMP	
Provide any success stories, good practices, or challenges, including those related to the engagement of Indigenous peoples and local communities, promoting Indigenous knowledge and benefits to Indigenous peoples and local communities	
N/A	
F.7. Grievance Redress Mechanism - confirmation & grievances	
<i>Please indicate whether the project can confirm the following statement:</i>	
Fully functional and operational Grievance Redress Mechanisms are in place, have been communicated to and are accessible by all stakeholders applicable to this project	

☐ The accredited entity confirms the statement above at project-level, AE-level, and GCF-level grievance mechanisms.	
☒ The accredited entity does not confirm the statement above	
The GRM is currently being developed.	
Have there been any grievances received during the reporting period?	Yes ☐ (Description) No ☒
N/A	
F.8. Implementation of activities and actions agreed in the Gender Action Plan	
<i>This section includes an update on the activities and actions agreed in the Gender Action Plan (GAP). Please review your GAP and include all GAP activities in the table below with an update of progress made during the reporting period as well as cumulatively. Each activity should be aligned with its own indicator, target, budget, and updates. If no progress was made on an activity during the reporting period, please include an explanation in the remarks section of the activity.</i> <i>Summary on Activities and Actions agreed in the Gender Action Plan (max. 200 words)</i>	
Are there GAP implementation activities or progress to report for this period?	Yes ☐ (Description) No ☒
F.9. Gender Action Plan implementation review	
Is the gender expert for the project/programme engaged to support the implementation of the gender action plan? If engaged previously, please advise if the gender expert has been retained by the project/programme, including plans to engage another expert if a previously engaged expert has left the project/programme.	Yes ☐ (Description) No ☒
The PEU is in the process of contracting a social management specialist. The role will include management of gender considerations for the project.	
Has the implementation of gender action plan/s being implemented according to Funding Activity Agreements and GCF's Updated Gender Policy? Please ensure that the budget is included in the reporting above if it was indicated in the approved or updated gender action plan.	Yes ☒ (Description) No ☐
As activities are still at an early stage, no specific gender-related actions or measurable outcomes have yet taken place during this reporting period. Upcoming activities will fully integrate gender considerations as outlined in the approved gender action plan.	
Are the planned activities, targets, indicators, timelines, etc. on track during the reporting period?	Yes ☒ (Description) No ☐
N/A	
Were there any revisions of the approved GAP during the reporting period? Please submit the updated GAP in Annex section of this APR and ensure the updated GAP has details on each change.	Yes ☐ (Description) No ☒
N/A	
Are the reported results on track to contribute to meeting the sex-disaggregated targets for the direct beneficiaries in the funding proposal, if applicable?	Yes ☒ (Description) No ☐
Yes, these are on track.	
Has the project/programme experienced any implementation challenges that affect gender-related activities? If yes, please include lessons learnt and how they are informing ongoing actions.	Yes ☐ (Description) No ☒

N/A	
Were there any best practices identified, or case studies prepared on benefits/activities undertaken as agents of action by women and the female heads of households during the reporting period? Please share any case studies in the text boxes or in the Annex section of the APR.	Yes ☐ (Description) No ☒
N/A	
Provide planned activities on gender elements for the next reporting period	
The PEU will contract a specialist to coordinate the gender activities of the project. The Specialist will coordinate the 1. Development and implementation of the Grievance Redress Mechanism. 2. SEA/SH/GBV training and awareness for contractors, and PEU team. 3. Development of the Gender and PwD Action Plan. 4. Institutional Strengthening of BWA and other relevant institutions. 5. Other gender considerations and mainstreaming of project activities e.g. ESIA/ESMP documents. TORs etc.	