

# PMR Operational Report

<b>Operation Number</b>	BH-L1043	<b>Chief of Operations Validation Date</b>	11/07/19
<b>Year- PMR Cycle</b>	First period Jan-Jun 2019	<b>Division Chief Validation Date</b>	11/07/19
<b>Last Update</b>	11/05/19	<b>Country Representative Validation Date</b>	11/19/19
<b>PMR Validation Stage</b>	Validated by Representative		

## Basic Data

### Operation Profile

<b>Operation Name</b>	Climate Resilient Coastal Mangement and Infrastructure Program	<b>Loan Number</b>	4363/OC-BH
<b>Executing Agency</b>	MINISTRY OF PUBLIC WORKS AND TRANSPORTATION	<b>Sector/Subsector</b>	PA-COS - ENVIRONMENT AND NATURAL DISASTERS-COASTAL ZONE MANAGEMENT
<b>Team Leader</b>	CHAKALALL, YURI	<b>Overall Stage</b>	Disbursing (From eligibility until all the Operations are closed)
<b>Operation Type</b>	Loan Operation	<b>Country</b>	BAHAMAS
<b>Lending Instrument</b>	Investment Loan	<b>Convergence related Operation(s)</b>	
<b>Borrower</b>	THE COMMONWEALTH OF THE BAHAMAS		

## Environmental and Social Safeguards

<b>Impacts Category</b>	B	<b>Was/Were the objective(s) of this operation reformulated?</b>	NO
<b>Safeguard Performance Rating</b>		<b>Date of approval</b>	
<b>Safeguard Performance Rating - Rationale</b>			

## Financial Data

Item	Total Cost and Source					Available Funds (US\$)			
	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disb	Undisbursed Amount
BH-L1043	35,000,000	35,000,000	0	0	35,000,000	35,000,000	0	0.00%	35,000,000
Aggregated	35,000,000	35,000,000	0	0	35,000,000	35,000,000	0	0.00%	35,000,000

## Expense Categories by Loan Contract (cumulative values)

Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

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### RESULTS MATRIX

#### IMPACTS

**Impact Nbr.** 1: Social resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros increased

**Observation:** 1.1. This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available. 1.2. This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.1	People injured, evacuated, relocated, with houses being damaged or destroyed, or requiring emergency assistance due to storms and floods over a three-year period.	People (#)	6,710.00	2014	P							6,370.00	6,370.00
					P(a)						6,370.00	6,370.00	
					A								

#### Details

**Means of verification:** DesInventar

**Observations:** This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.1	Economic losses caused by storms and floods over a three-year period.	USD millions of 2015	543.00	2018	P							516.00	516.00
					P(a)						516.00	516.00	
					A								

#### Details

**Means of verification:** DesInventar

**Observations:** This is a lower-bound 2014-2016 estimate as it currently includes data from large-scale disasters only. It will be updated yearly through new DesInventar records as they become available

**Pro-Gender** No **Pro-Ethnicity** No

## PMR Operational Report

### RESULTS MATRIX

#### IMPACTS

**Impact Nbr. 2:** Environmental resilience to coastal hazard events in New Providence, Eastern Grand Bahama, Central Long Island and Andros maintained or increased

**Observation:** Baseline is the share of people residing on Andros coastline where coastal habitats reduce risk in 2015. National estimates will be provided for both baseline and end-of-project years in the ex-post impact evaluation

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.1	People exposed to reduced coastal risk due to attenuation of waves, erosion and flooding by coral reefs, mangroves and seagrasses.	People (#)	4,610.00	2015	P							4,953.00	4,953.00
					P(a)						4,953.00	4,953.00	
					A								

#### Details

**Means of verification:** InVEST Coastal Vulnerability Model

**Pro-Gender** No **Pro-Ethnicity** No

**Impact Nbr. 3:** Economic resilience to coastal hazard events in New Providence increased

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
3.1	Total cruise ship tourism expenditures in Nassau and Paradise Island	USD millions of 2015	1,109.00	2015	P							1,192.00	1,192.00
					P(a)						1,192.00	1,192.00	
					A								

#### Details

**Means of verification:** Department of Statistics, GOBH

**Pro-Gender** No **Pro-Ethnicity** No

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## RESULTS MATRIX

### OUTCOMES

**Outcome Nbr. 1:** Component 1. Sustainable coastal protection infrastructure

**Observation:**

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.1	Terrestrial and marine protected areas with improved coastal zone management in EGB	Area (ha)	0.00	2017	P							48,764.62	48,764.62
					P(a)						48,764.62	48,764.62	
					A								

#### Details

**Means of verification:** Data from The Bahamas National Trust (BNT)

**Observations:** The definition of this indicator is total terrestrial and marine area that is designated as a protected area and is managed systematically with effective measures by the government. See M&E plan for details

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.2	# of households with improved road access to Freeport due to flood reduction in EGB	Households (#)	0.00	2017	P							77.00	77.00
					P(a)						77.00	77.00	
					A								

#### Details

**Means of verification:** Data from the Department of Statistics (statistical office in Freeport)

**Observations:** See M&E plan for details

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.3	# of people visiting the beaches and harbor area in New Providence	Visitors (#)	3,266,353.00	2017	P							3,985,280.00	3,985,280.00
					P(a)						3,985,280.00	3,985,280.00	
					A								

#### Details

**Means of verification:** Data from The Bahamas Ministry of Tourism

**Observations:** See M&E plan and Economic Assessment Report for details

**Pro-Gender** No **Pro-Ethnicity** No

Indicator		Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
1.4	Households protected from flood risk (#) in Central	Households	0.00	2017	P							328.00	328.00

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

1.4	Long Island	(#)	0.00	2017	P(a)								328.00	328.00
					A									
<b>Details</b>														
<b>Means of verification:</b> Data from the Department of Statistics														
<b>Observations:</b> See M&E plan for details														
<b>Pro-Gender</b> No					<b>Pro-Ethnicity</b> No									

**Outcome Nbr. 2:** Component 2. Natural infrastructure for hazard resilience in Andros

**Observation:**

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.1	# of people in the local communities participating in the designing, monitoring and maintenance of the nature based solution	People (#)	0.00	2017	P						220.00	220.00
					P(a)					220.00	220.00	
					A							
<b>Details</b>												
<b>Means of verification:</b> Community workshop reports												
<b>Observations:</b> See M&E plan for details												
<b>Pro-Gender</b> No					<b>Pro-Ethnicity</b> No							

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.2	Coastline where coastal risk is reduced based on the protection provided by natural habitat	Shoreline coverage (%)	71.00	2018	P						71.00	71.00
					P(a)					71.00	71.00	
					A							
<b>Details</b>												
<b>Means of verification:</b> InVEST Coastal Vulnerability Model												
<b>Observations:</b> Baseline is the share of Andros coastline where coastal habitats reduce risks from waves, flooding and erosion in 2015. National estimates will be provided for both baseline and end-of-project years in the ex-post impact evaluation												
<b>Pro-Gender</b> No					<b>Pro-Ethnicity</b> No							

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.3	% of women participating in the designing, monitoring and maintenance of the nature based solution.	Women (%)	51.00	2018	P						61.00	61.00
					P(a)					61.00	61.00	
					A							

## PMR Operational Report

### RESULTS MATRIX

#### OUTCOMES

##### Details

**Means of verification:** Community workshop reports

**Observations:** Gender tracking See M&E plan for the EOI value calculation used for this indicator

**Pro-Gender** No **Pro-Ethnicity** No

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.4	Amount of CO2 captured by restored mangrove	Volume (tons)	0.00	2018	P						28,800.00	28,800.00
					P(a)						28,800.00	28,800.00
					A							

##### Details

**Means of verification:** Data (Mangrove restoration area) from BNT

**Observations:** See M&E plan for the CO2 calculation model used for this indicator

**Pro-Gender** No **Pro-Ethnicity** No

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
2.5	Beneficiaries of improved management and sustainable use of natural capital	People (#)	0.00	2018	P						9,221.00	9,221.00
					P(a)						9,221.00	9,221.00
					A							

##### Details

**Means of verification:** Data from the Department of Statistics

**Observations:** See M&E plan for the EOI value calculation used for this indicator

**Pro-Gender** No **Pro-Ethnicity** No

**Outcome Nbr. 3:** Component 3. Institutional strengthening for coastal risk management

**Observation:**

Indicator	Unit of Measure	Baseline	Baseline Year		2018	2019	2020	2021	2022	2023	2024	EOP 2024
3.1	Government agencies benefited by projects that strengthen technological and managerial tools to improve public service delivery (#)	Government agencies (#)	0.00	2017	P						1.00	1.00
					P(a)						1.00	1.00
					A							

##### Details

**Means of verification:** Semiannual progress reports

**Observations:** MOWUD as the government agency will be the target agency. "strengthen technological and managerial tools to improve public service delivery" refers to the accomplishment of: -

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### RESULTS MATRIX

#### OUTCOMES

Coastal Program Management Unit (CPU) in operation (output 3.1) - Coastal Hazard monitoring in operation (output 3.2) - Sustainable finance study developed and approved (output 3.3) See M&E plan for details

<b>Pro-Gender</b>	No	<b>Pro-Ethnicity</b>	No
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**RESULTS MATRIX**

**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

**Component Nbr. 1 Component # 1: Sustainable coastal protection infrastructure**

Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
			2019	EOP 2024	2019	EOP 2024
1.1 Output 1.1.1: Baseline study at East Grand Bahama completed	Studies (#)	P		1		447,000
		P(a)		1		447,000
		A		0		0
1.2 Output 1.1.2: Detailed infrastructure design at East Grand Bahama completed	Design work document (#)	P		1		50,000
		P(a)		1		50,000
		A		0		0
1.3 Output 1.1.3: Coastal protection natural infrastructure at EGB implemented	Project sites (#)	P		2		60,000
		P(a)		2		60,000
		A		0		0
1.4 Output 1.1.4: Coastal protection (structural solutions) infrastructure at EGB implemented	Households (#)	P		2		1,943,000
		P(a)		2		1,943,000
		A		0		0
1.5 Output 1.2.1: Baseline study in New Providence completed	Project sites (#)	P		1		1,172,400
		P(a)		1		1,172,400
		A		0		0
1.6 Output 1.2.2: Detailed Infrastructure design in New Providence completed	Design work Document (#)	P		1		400,000
		P(a)		1		400,000
		A		0		0
1.7 Output 1.2.3: Coastal protection hard infrastructure in New Providence implemented	Types of Structure measures (#)	P		2		6,427,600
		P(a)		2		6,427,600
		A		0		0
1.8 Output 1.2.4: Harbor protection measures in New Providence implemented	Structure measures (#)	P		2		10,000,000
		P(a)		2		10,000,000
		A		0		0
1.9 Output 1.3.1: Baseline study in Central Long Island completed	Studies (#)	P		1		700,000
		P(a)		1		700,000
		A		0		0
1.10 Output 1.3.2: Detailed infrastructure design in Central Long Island completed	Design work document (#)	P		1		150,000
		P(a)		1		150,000
		A		0		0
1.11 Output 1.3.3: Coastal flood reduction infrastructure in Central Long Island implemented	Project sites (#)	P		4		2,150,000
		P(a)		4		2,150,000
		A		0		0

**RESULTS MATRIX**

**OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS**

**Component Nbr. 2 Component # 2: Natural infrastructure for hazard resilience in Andros**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2024	2019	EOP 2024
2.1	Output 2.1: Baseline study to inform selection of priority sites for demonstration projects in Andros completed	Studies (#)	P		1		200,000
			P(a)		1		200,000
			A		0		0
2.2	Output 2.2: Stakeholder validation workshops in each district executed	Workshops (#)	P		4		10,000
			P(a)		4		10,000
			A		0		0
2.3	Output 2.3: Site specific assessment for nature-based intervention completed	Assessment document (#)	P		4		700,000
			P(a)		4		700,000
			A		0		0
2.4	Output 2.4: Coastal ecosystems restoration implemented	Area (ha)	P		200		2,050,000
			P(a)		200		2,050,000
			A		0		0
2.5	Output 2.5: Communication and community participation plan for project sustainability completed	Planning document (#)	P		1		40,000
			P(a)		1		40,000
			A		0		0

**Component Nbr. 3 Component III: Institutional strengthening for coastal risk management**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2024	2019	EOP 2024
3.1	Output 3.1: Coastal Program Management Unit (CPU) in operation	Accomplishment of milestone (#)	P		6		1,600,000
			P(a)		6		1,600,000
			A		0		0
3.2	Output 3.2: Coastal Hazard monitoring in operation	Accomplishment of milestone (#)	P		3		980,000
			P(a)		3		980,000
			A		0		0
3.3	Output 3.3: Sustainable finance study developed and approved	Study document (#)	P		1		920,000
			P(a)		1		920,000
			A		0		0

**Component Nbr. 4 Administration**

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2019	EOP 2024	2019	EOP 2024
4.1	Program Implementation Unit	Teams (#)	P	1	1		1,500,000
			P(a)	1	1		1,500,000
			A	1	1		0
4.2	Financial Audits	Financial Statements (#)	P		3		200,000
			P(a)		3		200,000
			A		0		0
4.3	Evaluation and Monitoring	Evaluation Reports (#)	P		2		300,000
			P(a)		2		300,000
			A		0		0

**Other Cost**

	Contingencies	P				3,000,000
		P(a)				3,000,000
		A				0

**Total Cost**

Total Cost	P				35,000,000
	P(a)				35,000,000
	A				0

## CHANGES TO THE MATRIX

No information available for this section

## IMPLEMENTATION STATUS AND LEARNING

No information available for this section