

PMR Operational Report

Operation Number	TT-L1026	Chief of Operations Validation Date	04/09/19
Year- PMR Cycle	Second period Jan-Dec 2018	Division Chief Validation Date	04/10/19
Last Update	04/08/19	Country Representative Validation Date	05/17/19
PMR Validation Stage	Validated by Representative		

Basic Data

Operation Profile

Operation Name	Multi-Phase Wastewater Rehabilitation Program- Phase I	Loan Number	2890/OC-TT
Executing Agency	WATER AND SEWERAGE AUTHORITY	Sector/Subsector	AS-SAR - WATER AND SANITATION-SANITATION RURAL AND PERI-URBAN
Team Leader	LEWIS, GILROY FRANCIS	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	TRINIDAD AND TOBAGO
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	TRINIDAD AND TOBAGO		

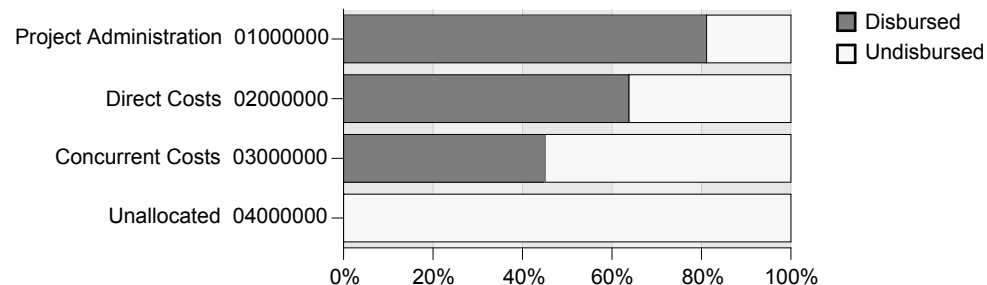
Environmental and Social Safeguards

Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating	Partially Satisfactory	Date of approval	
Safeguard Performance Rating - Rationale	Satisfactory enforcement of E&S measures at WWTP construction sites.		

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
TT-L1026	246,500,000	246,500,000	0	0	246,500,000	246,500,000	209,476,929.21	84.98%	37,023,070.79
Aggregated	246,500,000	246,500,000	0	0	246,500,000	246,500,000	209,476,929.21	84.98%	37,023,070.79

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.

PMR Operational Report

RESULTS MATRIX

IMPACTS

No information available for this section

PMR Operational Report

RESULTS MATRIX

OUTCOMES

Outcome Nbr. 1: New wastewater treatment plants in San Fernando and Malabar functioning according to design

Observation:

Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
1.1	Households with new connection to a sewerage network in pilot area (household)	Households (#)	0.00	2012	P	0.00	0.00	0.00	200.00	200.00			400.00	
					P(a)	0.00	0.00	0.00	0.00	101.00	172.00	75.00	87.00	172.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00

Details

Means of verification: Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.

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

	Afro-descendant	P												
		P(a)											65.00	
		A								0.00				
	Indigenous	P												
		P(a)												10.00
		A									0.00			

Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
1.2	Households connected to an improved sewerage network in Malabar and San Fernando (household)	Households (#)	0.00	2012	P	0.00	0.00	0.00	0.00	16,626.00	0.00		16,626.00	
					P(a)	0.00	0.00	0.00	0.00	0.00	16,626.00	75.00	9,126.00	16,626.00
					A	0.00	0.00	0.00	0.00	0.00	7,500.00			0.00

Details

Means of verification: Completion certificate signed by construction supervisor and WASA; Semi-annual reports to IDB.

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

	Afro-descendant	P												
		P(a)											16,126.00	
		A								0.00				
	Indigenous	P												
		P(a)												500.00
		A									0.00			

Indicator	Unit of	Baseline	Baseline		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
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PMR Operational Report

RESULTS MATRIX

OUTCOMES

		Measure	Baseline	Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.3	Malabar: Percentage of population in the catchment covered by the WWTP (percentage)	%	0.00	2012	P	0.00	0.00	0.00	0.00	100.00	0.00			100.00
					P(a)	0.00	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00
					A	0.00	0.00	0.00	0.00	0.00	100.00			0.00

Details

Means of verification: WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.

Pro-Gender	No	Pro-Ethnicity	No
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		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.4	San Fernando: Percentage of population in the catchment treated by the WWTP (percentage)	%	0.00	2012	P	0.00	0.00	0.00	0.00	100.00	0.00			100.00
					P(a)	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	100.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00

Details

Means of verification: WASA water quality monitoring reports (catchment area); Semi-annual reports to IDB.

Pro-Gender	No	Pro-Ethnicity	No
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		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.5	Malabar: Percentage of wastewater treated by the WWTP meeting the Water Pollution Rules (percentage) and having a zero or positive net impact on downstream water quality (in relation to upstream water quality)	%	0.00	2012	P	0.00	0.00	0.00	90.00	90.00	90.00	90.00		90.00
					P(a)	0.00	0.00	0.00	0.00	90.00	90.00	0.00	0.00	90.00
					A	0.00	0.00	0.00	0.00	0.00	100.00			0.00

Details

Means of verification: WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.

Pro-Gender	No	Pro-Ethnicity	No
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		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.6	San Fernando: Percentage of wastewater treated by the WWTP meeting the Water Pollution Rules (percentage) and having a zero or positive net impact on downstream water quality (in relation to upstream water quality)	%	0.00	2012	P	0.00	0.00	0.00	90.00	90.00	90.00	90.00		90.00
					P(a)	0.00	0.00	0.00	0.00	0.00	90.00	0.00	100.00	90.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00

Details

Means of verification: WASA water quality monitoring reports (monitoring point at outfall site). The ESMP will specify the sampling points and the definition of a baseline.

Pro-Gender	No	Pro-Ethnicity	No
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PMR Operational Report

RESULTS MATRIX

OUTCOMES

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.7	Women trained in water quality monitoring	%	0.00	2013	P	0.00	50.00	0.00	0.00	0.00	0.00	0.00		50.00
					P(a)	0.00	50.00	50.00	21.00	17.00	0.00	0.00	0.00	51.00
					A	0.00	0.00	0.00	21.00	36.00	0.00			57.00

Details

Means of verification: WASA monitoring reports

Pro-Gender	Yes	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
1.8	Households with treated wastewater	Households (#)	0.00	2013	P	0.00	0.00	0.00	200.00	16,826.00	17,026.00	17,026.00		17,026.00
					P(a)	0.00	0.00	0.00	0.00	17,026.00	75.00	1,149.00	17,026.00	
					A	0.00	0.00	0.00	0.00	0.00	15,827.00			0.00

Details

Means of verification: WASA Semi Annual Report

Pro-Gender	No	Pro-Ethnicity	No
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Outcome Nbr. 2: WASA is reorganized, strengthened and operating more efficiently

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.1	Hours of preventative maintenance in the Malabar and San Fernando systems (hours/month)	Hours/month	200.00	2012	P	300.00	400.00	500.00	600.00	720.00	720.00	720.00		720.00
					P(a)	300.00	400.00	500.00	600.00	720.00	720.00	720.00	750.00	720.00
					A	200.00	297.00	1,284.00	2,750.00	4,200.00	2,500.00			4,434.00

Details

Means of verification: WASA internal reports, Semi-annual reports to IDB

Pro-Gender	No	Pro-Ethnicity	No
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Indicator		Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020
2.2	New systems (Malabar and San Fernando WWTP) operated and maintained according to design specifications (system)	System	0.00	2012	P	0.00	0.00	0.00	0.00	2.00	2.00	2.00		2.00
					P(a)	0.00	0.00	0.00	0.00	2.00	2.00	0.00	1.00	2.00
					A	0.00	0.00	0.00	0.00	0.00	1.00			0.00

PMR Operational Report

RESULTS MATRIX

OUTCOMES

Details														
Means of verification: WASA internal reports, Semi-annual reports to IDB														
Pro-Gender No				Pro-Ethnicity						No				
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
2.3	New systems (Malabar and San Fernando WWTP) designed, implemented, operating and maintained according to social and environmental specifications (system)	System	0.00	2012	P	0.00	0.00	0.00	0.00	2.00	2.00	2.00		2.00
					P(a)	0.00	0.00	0.00	0.00	2.00	2.00	0.00	1.00	2.00
					A	0.00	0.00	0.00	0.00	0.00	1.00			0.00
Details														
Means of verification: WASA internal reports, Semi-annual reports to IDB														
Pro-Gender No				Pro-Ethnicity						No				
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
2.4	WASA with new set of corporate governance policies (approved by the Board)	CG Policy	0.00	2012	P	0.00	0.00	1.00	0.00	0.00	0.00	0.00		1.00
					P(a)	0.00	0.00	1.00	1.00	0.00	0.00	0.00	0.00	1.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Details														
Means of verification: Copy of minutes of Board meeting when the approval was given.														
Pro-Gender No				Pro-Ethnicity						No				
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
2.5	Corporate governance policies and compliance report disclosure of WASA's web page	Disclosure	0.00	2012	P	0.00	0.00	1.00	0.00	0.00	0.00	0.00		1.00
					P(a)	0.00	0.00	1.00	1.00	1.00	1.00	0.00	0.00	1.00
					A	0.00	0.00	0.00	0.00	0.00	0.00			0.00
Details														
Means of verification: Copy of screen shot of webpage showing publication.														
Pro-Gender No				Pro-Ethnicity						No				
Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
2.6	WASA's audited financial statements available to the public	Disclosure	0.00	2012	P	0.00	1.00	1.00	1.00	1.00	0.00			4.00
					P(a)	0.00	1.00	1.00	2.00	1.00	1.00	0.00	0.00	7.00

PMR Operational Report

RESULTS MATRIX

OUTCOMES

2.6	WASA's audited financial statements available to the public	Disclosure	0.00	2012	A	0.00	0.00	0.00	0.00	0.00	0.00			0.00
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Details

Means of verification: Copy of screen shot of webpage showing docuemnts and copy of minutes where the Board approved the disclosure.

Pro-Gender	No	Pro-Ethnicity	No
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Indicator	Unit of Measure	Baseline	Baseline Year		2013	2014	2015	2016	2017	2018	2019	2020	EOP 2020	
2.7	Percentage of WASA costumers served with new billing system	%	0.00	2012	P	0.00	0.00	0.00	100.00	100.00	0.00	0.00	100.00	
					P(a)	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00
					A	0.00	0.00	0.00	0.00	100.00	100.00			0.00

Details

Means of verification: WASA Financial Planning and Management report; Semi-annual reports to IDB.

Pro-Gender	No	Pro-Ethnicity	No
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RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 New wastewater treatment plants in San Fernando and Malabar functioning according to design

	Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
				2018	EOP 2020	2018	EOP 2020
1.1	Equipment for operation and maintenance acquired (equipment)	Equipment	P		4		150,000
			P(a)	2	2	700,000	1,277,413.42
			A	0	0	178,530.95	178,530.95
1.2	Malabar Waste Water Treatment Plants built (includes commissioned)	Plant	P		1		63,716,869
			P(a)	0	1	12,000,000	97,645,284
			A	0	1	15,673,694.2	79,371,757.62
1.3	Old Malabar Waste Water Treatment Plants decommissioned (plants)	Plant	P		1		1,000,000
			P(a)	1	1	1,000,000	1,000,000
			A	1	1	0	0
1.4	San Fernando Waste Water Treatment Plants built (includes commissioned)	Plant	P		1		77,150,469
			P(a)	0	1	13,030,133.32	101,259,673.7
			A	0	0	15,842,904.01	63,963,239.75
1.5	Old San Fernando Waste Water Treatment Plants decommissioned	Plant	P		1		1,000,000
			P(a)	0	1	0	0
			A	0	0	0	0
1.6	Sewage pumping stations built	Station	P		4		11,004,785
			P(a)	0	3	0	0
			A	3	3	0	0
1.7	Sewerage network built	Km	P		26		58,029,930
			P(a)	2.7	25.5	0	0
			A	4.6	22.5	0	0
1.8	Intra-domiciliary sanitary connections built in pilot area	Connection	P		400		2,812,500
			P(a)	0	75	812,500	2,812,500
			A	0	0	0	0
1.9	Access Road/Bridge to San Fernando WWTP built	Road	P		1		2,489,228.93
			P(a)	0	1		2,232,804.97
			A	0	1	0	2,239,851.25

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 2 WASA is reorganized, strengthened and operating more efficiently

Output	Unit of Measure		PHYSICAL PROGRESS		FINANCIAL PROGRESS	
			2018	EOP 2020	2018	EOP 2020
2.1 Training activities on preventative maintenance (including training on use of new equipment) implemented	Training	P		2		200,000
		P(a)	1	1	100,000	0
		A	1	1	0	0
2.2 Training activities in water quality monitoring, including water quality assessment guidelines in line with best international practice, implemented (program)	Training	P		4		50,000
		P(a)	1	4	25,000	0
		A	0	3	0	0
2.3 Environmental education campaigns implemented	Campaign	P		2		50,500
		P(a)	0	2	10,000	8,459.55
		A	0	2	0	8,459.55
2.4 Action plan for corporate governance implemented	Plan implemented	P		4		818,448
		P(a)	0	3	226,162.02	560,000
		A	0	3	228,465.95	562,303.93
2.5 Action plan for commercial management implemented	Plan implemented	P		1		2,600,000
		P(a)	0	2	0	7,150,318.8
		A	1	2	911,095.92	6,389,447.81

Other Cost

Project Management and Supervision	P				1,000,000
	P(a)			572,285.32	270,572.68
	A			0	70,572.68
Works Supervision	P				5,444,451
	P(a)			938,796.62	5,675,327.04
	A			1,748,743.8	4,868,839.18
Contingencies	P				1,120,000
	P(a)			1,120,000	775,000
	A			0	0
Auditing	P				198,668
	P(a)			19,758.71	185,085.46
	A			22,844.17	135,085.46
Evaluations	P				100,000
	P(a)			38,750	100,000
	A			33,750	45,000
Works cost escalation	P				17,559,771.93
	P(a)				0
	A			0	0

Total Cost

Total Cost	P				246,495,620.86
	P(a)			30,593,385.99	220,952,439.62
	A			34,640,029	157,833,088.18

PMR Operational Report

CHANGES TO THE MATRIX

Section	Name	Reasons	Type of Change	Subtype	Modified By	Entered in the System
Outcome	Corporate governance policies and compliance report disclosure of WASA's web page	This item has not been reported on for some time now and for internal reasons, WASA has not placed it on its webpage.	Modify Outcome	Inactivate Outcome	GILROYL	04/05/2019
			Modify Outcome Indicator	Modify Means of Verification	GILROYL	04/05/2019 04/08/2019
	WASA with new set of corporate governance policies (approved by the Board)	This is a broad policy issue that WASA is not tackling at this time.	Modify Outcome	Inactivate Outcome	GILROYL	04/05/2019
			Modify Outcome Indicator	Modify Means of Verification	GILROYL	04/05/2019 04/08/2019
	WASA's audited financial statements available to the public	This is a policy decision that has not been taken.	Modify Outcome	Inactivate Outcome	GILROYL	04/05/2019
			Modify Outcome Indicator	Modify Means of Verification	GILROYL	04/05/2019 04/08/2019
Output	Action plan for commercial management implemented	Final payments to be made in 2019.	Modify Output	Modify Financial P(a) value	GILROYL	04/01/2019
				Modify Physical P(a) value	GILROYL	03/13/2019 04/03/2019
			Modify Output	Modify Financial P(a) value	GILROYL	03/13/2019 03/25/2019
	Environmental education campaigns implemented	This activity has been completed in 2016 and 2017,	Modify Output	Modify Financial P(a) value	GILROYL	03/13/2019 03/25/2019
	Equipment for operation and maintenance acquired (equipment)	This is to be reprogrammed to 2019. There were challenges in the procurement and negotiations of the terms and conditions of the maintenance contract with the supplier.	Modify Output	Modify Financial P(a) value	GILROYL	03/29/2019 04/01/2019 04/05/2019
				Modify Physical P(a) value	GILROYL	03/13/2019
			Modify Milestone	Modify Physical Historical Actual	GILROYL	03/26/2019
	Intra-domiciliary sanitary connections built in pilot area	This output needs to be reprogrammed separately for the Malabar WWTP for 2019 and those corresponding to the San Fernando WWTP for 2020.	Modify Output	Modify Financial P(a) value	GILROYL	03/13/2019 03/29/2019 04/01/2019
				Modify Physical P(a) value	GILROYL	03/25/2019 03/26/2019
			Modify Output	Modify Financial P(a) value	GILROYL	04/01/2019 04/05/2019
				Modify Financial P(a) value	GILROYL	04/01/2019 04/05/2019
	Malabar Waste Water Treatment Plants built (includes commissioned)	Payment for Operations and Maintenance to be done in 2019.	Modify Output	Modify Financial P(a) value	GILROYL	04/01/2019 04/05/2019
Old San Fernando Waste Water Treatment Plants decommissioned	This activity will be accomplished in 2020 once the San Fernando WWTP is operational.	Modify Output	Modify Financial	GILROYL	03/29/2019	

PMR Operational Report

CHANGES TO THE MATRIX

Section	Name	Reasons	Type of Change	Subtype	Modified By	Entered in the System	
Output	Old San Fernando Waste Water Treatment Plants decommissioned	This activity will be accomplished in 2020 once the San Fernando WWTP is operational.	Modify Output	P(a) value			
				Modify Physical P(a) value	GILROYL	03/25/2019	
	San Fernando Waste Water Treatment Plants built (includes commissioned)	As a result of the delays by the contractor, the WWTP is expected to be completed at the end of 2019. The Collection system around the middle of 2020. Contractor alleging cash flow problems. During the reporting period, the "Engineer" has determined claims for cost for some US\$6.15M. This should help.	Modify Output	Modify Financial P(a) value		GILROYL	03/13/2019
							03/25/2019
							04/01/2019
				Modify Physical P(a) value	GILROYL	03/25/2019	
	Sewage pumping stations built	Due to delays by the contractor AAA, this output needs to be reprogrammed - a portion in 2019 and the final portion in 2020.	Modify Output	Modify Financial P(a) value	GILROYL	03/25/2019	
				Modify Physical P(a) value	GILROYL	03/13/2019	
	Sewerage network built	This activity is ongoing for the San Fernando Collection system and is expected to continue to 2020.	Modify Output	Modify Financial P(a) value	GILROYL	03/25/2019	
				Modify Physical Historical Actual	GILROYL	03/26/2019	
				Modify Physical P(a) value	GILROYL	03/13/2019	
	Training activities in water quality monitoring, including water quality assessment guidelines in line with best international practice, implemented (program)	This training will be ongoing for the Malabar WWTP during 2019. Due to the delays in the execution of the San Fernando WWTP, this training component has to be deferred until after commissioning and issuance of the Taking Over Certificate. It is most likely that this would rollover to early 2020.	Modify Output	Modify Financial P(a) value	GILROYL	03/13/2019	
				Modify Physical P(a) value	GILROYL	03/29/2019	
	Training activities on preventative maintenance (including training on use of new equipment) implemented	Due to the delays in the execution of the San Fernando WWTP, this training component has to be deferred until after commissioning and issuance of the Taking Over Certificate. It is most likely that this would rollover to early 2020.	Modify Output	Activate Output	GILROYL	04/05/2019	
				Inactivate Output	GILROYL	04/05/2019	
				Modify Financial P(a) value	GILROYL	03/13/2019	
Modify Physical P(a) value				GILROYL	03/29/2019		
			Modify Physical P(a) value	GILROYL	03/25/2019		

PMR Operational Report

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories

Environmental and Social Factors

Project Design