



Operation Number: **GY-L1040**  
Year- PMR Cycle: **Second period Jan-Dec 2014**  
Last Update: **4/20/2015**  
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **04/22/2015**  
Division Chief validation date: **04/24/2015**  
Country Representative validation date: **05/18/2015**

Inter-American Development Bank - IDB  
Office of Strategic Planning and Development Effectiveness

## Operation Profile

### Basic Data

Operation name:	Water Supply and Sanitation Infrastructure Improvement Program	Loan Number:	3242/OC-GY,3243/BL-GY
Executing Agency (EA):	Guyana Water Incorporated ,Guyana Water Incorporated		
Team Leader:	Mellinger,Yvon	Sector/Subsector:	WATER SUPPLY URBAN
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans are closed).
Lending Instrument:	Investment Loan	Country:	GUYANA
Borrower:	COOPERATIVE REPUBLIC OF GUYANA ,COOPERATIVE REPUBLIC OF GUYANA Convergence related Operation(s):		

### Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
GY-L1040	\$16,838,250.00	\$16,838,250.00	\$0.00	\$0.00	\$16,838,250.00

### Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
GY-L1040	\$16,838,250.00	\$1,000,000.00	5.94%	\$15,838,250.00

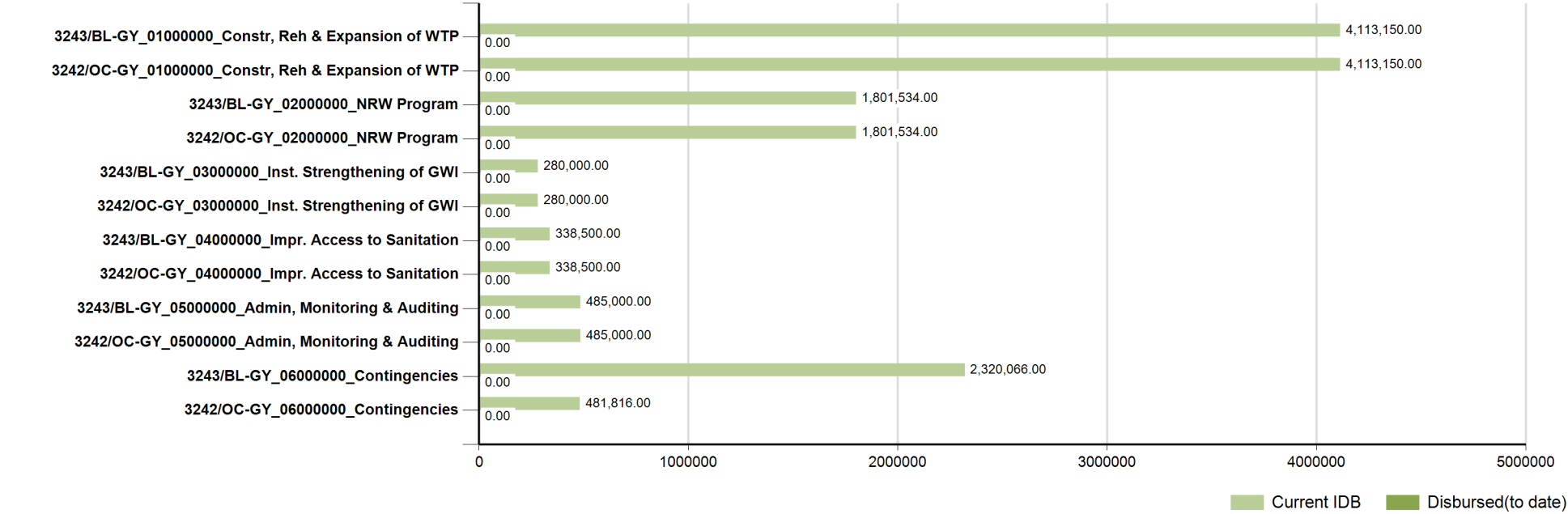
### Environmental and Social Safeguards

Main Operation	
Impacts Category:	B
Safeguard Performance Rating:	
Safeguard Performance Rating - Rationale:	

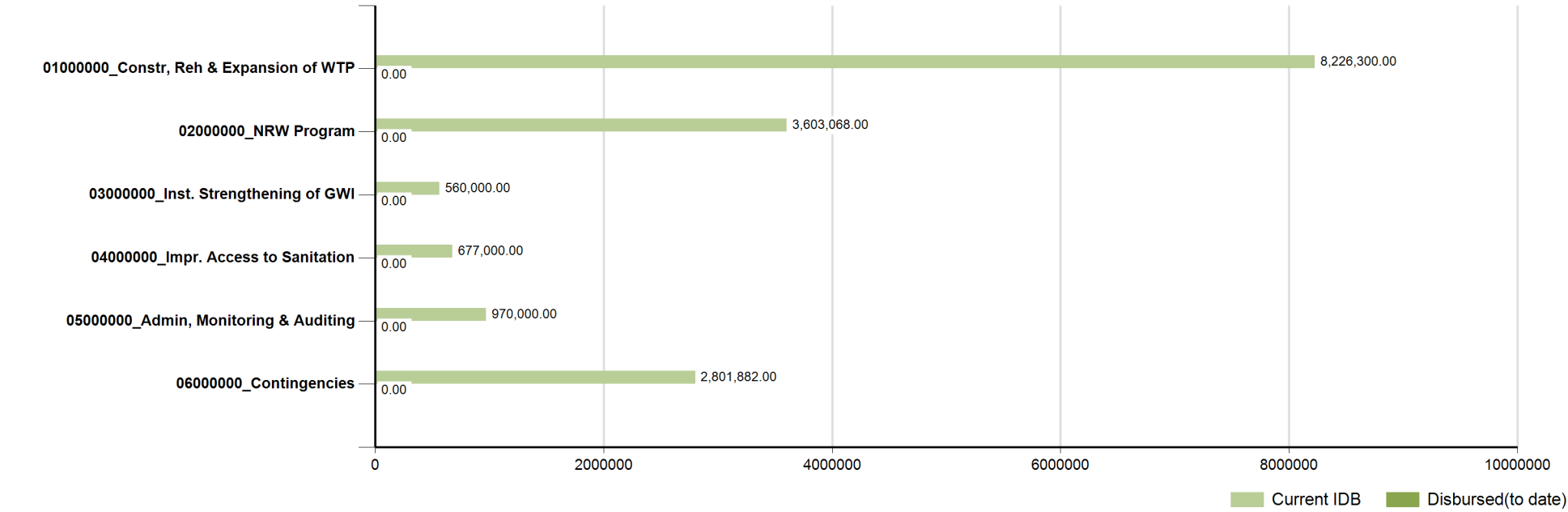
### Reformulation Information

Main Operation	
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

Expense Categories by Loan Contract (cumulative values)



Expense Categories by Operation (cumulative values)



Results Matrix

Impacts

No information related to this operation.

Outcomes

Outcome:	0 Improved water supply service in the program areas (De Kinderen-Cornelia Ida; Goed Banana Land-Sheet Anchor-No.19; Diamond-Herstelling; Georgetown)												
Observation:													
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015	2016	2017	2018	2019	EOP	
0.0 Water samples in program areas that comply with national water quality standards, and in accordance with the procedures specified by such standards		percentage	0.00	2013	GWI's monthly Board Reports, Semiannual reports to IDB.	Definition: (Samples complying with national water quality standards/samples taken) x100	P					90.00	90.00
						P(a)							
						A							
0.1 Households in program areas with service continuity of 24 hours		percentage	0.00	2013	GWI's monthly Board Reports, Semiannual reports to IDB.	Definition: (Number of households with 24 hours service in program areas / Number of households with water service in program areas) x100	P					90.00	90.00
						P(a)							
						A							

0.2 Households in program areas with water pressure within the national standards, (>5m)		percentage	0.00	2013	GWI's monthly Board Reports, Semiannual reports to IDB.	Definition: (Number of households with water pressure >5m in program areas / Number of households with water service in program areas) x100	P					85.00	85.00
							P(a)						
							A						
0.3 Households with upgraded access to drinking water—with household connections in program areas		households	0.00	2013	GWI's monthly Board Reports, Semiannual reports to IDB.	Definition of improved upgraded water supply: increment vs. the baseline with respect to: water quality (according to the national norms); continuity of supply (hours/day) or pressure (according to the national technical targets).	P					55,300.00	55,300.00
							P(a)						
							A						
Outcome:	1 Reduced level of Non-Revenue Water in the program areas												
Observation:													

Indicators		Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015	2016	2017	2018	2019	EOP	
1.0 Non-revenue water in program areas			percentage	60.00	2015	Consultant reports; GWI reports.	The baseline for all program areas has been estimated by GWI for the year 2013. The baseline figure for all program areas will be confirmed/validated through the Non-Revenue Water (NRW) consultancy. Definition: (1-billed volume/produced volume) x100	P					50.00	50.00
		P(a)												
		A												
Outcome:	2 Guyana Water Inc. capacity (in operation and maintenance financial and commercial management) strengthened													
Observation:														

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015	2016	2017	2018	2019	EOP
2.0 Water treatment plants in program areas functioning according to design specifications		percentage	0.00	2015	Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB.	Definition: (Number of water treatment plants in program areas functioning according to design specifications / number of water treatment plants in program areas) x100	P				100.00	100.00
						P(a)						
						A						
2.1 Government Institutions using the groundwater study as input for improved water management decision making		institutions	0.00	2015	Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB.	Definition: Government Institutions to use the groundwater study are the Guyana Water Incorporated, the Ministry of Agriculture through the Hydrometeorological Department and the University of Guyana.	P				3.00	3.00
						P(a)						
						A						

2.2 Annual collection efficiency ratio		percentage	68.00	2012	GWI's monthly Board Reports, Semi-annual reports to IDB, GWI annual financial statements , GWI annual KPI indicators.	Definition: (annual collection/annual amount billed)x100.The collection efficiency end of project target will be monitored and confirmed under the Institutional Strengthening Consultancy.	P						80.00	80.00
	P(a)													
	A													
2.3 Annual operating cost coverage ratio		percentage	71.00	2013	GWI's monthly Board Reports, Semi-annual reports to IDB, GWI annual financial statements , GWI annual KPI indicators.	Definition: (annual operating revenue s/annual operating costs) x100. Annual means January-December.	P						100.00	100.00
	P(a)													
	A													
Outcome:	3 Improved access to sanitation services for low income households in the program areas													
Observation:														

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		2016	2017	2018	2019	EOP
3.0 Households with adequate sanitation solution in program areas		percentage	96.00	2014	Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB.	Definition of “adequate”: sanitation facilities that safely prevent human contact with human waste (trap with a discharge system to a septic tank or a pit latrine, an improved pit latrine with ventilation, a pit latrine with an apron, or a composting toilet).	P			96.50	97.20	97.80	97.80
	P(a)												
	A												



3.1 Women who attended hygiene promotion activities that followed hygienic practices after the workshop						Definitio	P					90.00	90.00
						n:	P(a)						
						(number	A						
						of							
		percentage	0.00	2014	Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB, attendance records, report on initial hygiene practices to be collected during activity (baseline information ). Follow up survey on hygiene practices (end of program)	woman attending the hygiene promotion activities with good hygiene practice s/ woman attending the hygiene promotion activities ) x 100. The baseline will be determined prior to the implementation of the hygiene promotion activities .							

3.2 Households in adequately utilizing the sanitary facility provided by the program					The adequacy of the use of the new sanitary facility will be assessed against standard operation and maintenance practices. Definition: (Households in program areas adequately utilizing the new sanitary facility/Households in program areas that received a new sanitary facility) x100	P					90.00	90.00
						P(a)						
						A						
	percentage	0.00	2014	Survey results, Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB.								
3.3 Households with adequate sanitation solution (in program areas)					Definition of "adequate": sanitation facilities that safely prevent human contact with human waste (trap with a discharge system to a septic tank or a pit latrine, an improved pit latrine with ventilati	P			350.00	350.00	350.00	54,090.00
						P(a)						
						A						

		households	53,090.00	2014	<p>Consultant reports, GWI's monthly Board Reports, Semi-annual reports to IDB.</p> <p>on, a pit latrine with an apron, or a composting toilet). The baseline will be confirmed with the data from national census 2012 information, once it becomes available. The number of the households benefiting in each program area will be determined by the application of established selection criteria.</p>	
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Outputs: Annual Physical and Financial Progress

Component 1: Construction, rehabilitation and expansion of water treatment plants.		Physical Progress		Financial Progress	
Outputs	Unit of Measure	EOP		EOP	
New water treatment plants built	plant	P	3.00	P	12,300,000.00
		P(a)	3.00	P(a)	12,300,000.00
		A	0.00	A	0.00
Water treatment plant rehabilitated	plant	P	3.00	P	3,500,000.00
		P(a)	3.00	P(a)	3,500,000.00
		A	0.00	A	0.00
Storage tank constructed	tank	P	4.00	P	3,200,000.00
		P(a)	4.00	P(a)	3,200,000.00
		A	0.00	A	0.00
Component 2: Non-Revenue Water (NRW) Program		Physical Progress		Financial Progress	
Outputs	Unit of Measure	EOP		EOP	
Diagnosis and action plan for Non-Revenue Water reduction for the program areas developed	Action Plan	P	1.00	P	90,000.00
		P(a)	1.00	P(a)	90,000.00
		A	0.00	A	0.00
Action plan for Non-Revenue Water reduction for the program areas implemented	Action Plan	P	1.00	P	180,000.00
		P(a)	1.00	P(a)	180,000.00
		A	0.00	A	0.00
Transmission mains rehabilitated	kilometers	P	4.00	P	1,100,000.00
		P(a)	4.00	P(a)	1,100,000.00
		A	0.00	A	0.00
Water distribution network rehabilitated	kilometers	P	12.00	P	1,282,736.00
		P(a)	12.00	P(a)	1,282,736.00
		A	0.00	A	0.00
New costumer water meter installed	water meter	P	15,360.00	P	2,006,000.00
		P(a)	15,360.00	P(a)	2,006,000.00
		A	0.00	A	0.00
Component 3: Institutional Strengthening		Physical Progress		Financial Progress	
Outputs	Unit of Measure	EOP		EOP	
Operations manuals for the new system and maintenance manuals for the new assets developed	manual	P	1.00	P	100,000.00
		P(a)	1.00	P(a)	100,000.00
		A	0.00	A	0.00
GWI staff trained in operation and maintenance and non-revenue water reduction	workshops	P	11.00	P	250,000.00
		P(a)	11.00	P(a)	250,000.00
		A	0.00	A	0.00
Action Plan for Groundwater Management completed	Action Plan	P	1.00	P	200,000.00
		P(a)	1.00	P(a)	200,000.00
		A	0.00	A	0.00
IT Systems (Financial, Commercial and Human Resources) integration completed	Systems	P	1.00	P	240,000.00
		P(a)	1.00	P(a)	240,000.00
		A	0.00	A	0.00
ISO:9001 Certification Action Plan developed	Action Plan	P	1.00	P	50,000.00
		P(a)	1.00	P(a)	50,000.00
		A	0.00	A	0.00

Action Plan to support the implementation of the new tariff structure and data verification implemented	Action Plan	P	1.00	P	180,000.00
		P(a)	1.00	P(a)	180,000.00
		A	0.00	A	0.00
Action Plan for Planning and Monitoring System implemented	Action Plan	P	5.00	P	100,000.00
		P(a)	5.00	P(a)	100,000.00
		A	0.00	A	0.00
Component 4: Improved access to sanitation		Physical Progress		Financial Progress	
Outputs	Unit of Measure	EOP		EOP	
Septic tanks (including toilets) built in the program areas	septic tanks	P	1,000.00	P	1,294,000.00
		P(a)	1,000.00	P(a)	1,294,000.00
		A	0.00	A	0.00
Hygiene promotion workshops (with specific attention to women) conducted	workshops	P	3.00	P	40,000.00
		P(a)	3.00	P(a)	40,000.00
		A	0.00	A	0.00
Workshops on operation and maintenance of septic tanks conducted	workshops	P	3.00	P	20,000.00
		P(a)	3.00	P(a)	20,000.00
		A	0.00	A	0.00

Other Cost		Cost
Audit, Monitoring and Evaluation	P	\$175,000.00
	P(a)	\$175,000.00
	A	\$0.00
Contingencies	P	\$3,307,000.00
	P(a)	\$3,307,000.00
	A	\$0.00
Project Administration	P	\$265,000.00
	P(a)	\$265,000.00
	A	\$0.00
Works Supervision/Mentoring	P	\$1,500,000.00
	P(a)	\$1,500,000.00
	A	\$0.00
Total Cost		Total Cost
	P	\$31,379,736.00
	P(a)	\$27,995,236.00
	A	

## Changes to the Matrix

No information related to this operation.

Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains.