Project Administration Manual

Project Number: 51271-003 Loan and/or Grant Number(s): L3826-SOL, G0662-SOL, G0663-SOL, GXXXX-SOL September 2021

Solomon Islands: Urban Water Supply and Sanitation Sector Project Additional Financing - GEF

ABBREVIATIONS

ADB –	Asian Development Bank
EARF –	environmental assessment and review framework
EMP –	environmental management plan
EU –	European Union
FIRR –	financial internal rate of return
FNPV –	financial net present value
GEF –	Global Environment Facility
GHA –	greater Honiara area
MLD –	million liters per day
NRW –	nonrevenue water
PAM –	project administration manual
PMU –	project management unit
SIWA –	Solomon Islands Water Authority

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Project Administration Manual Purpose and Process

The project administration manual (PAM) describes the essential administrative and management requirements to implement the project on time, within budget, and in accordance with the policies and procedures of the government and Asian Development Bank (ADB). The PAM should include references to all available templates and instructions either through linkages to relevant URLs or directly incorporated in the PAM.

The Ministry of Finance and Treasury (MOFT), the executing agency, and the Solomon Islands Water Authority (SIWA), the implementing agency, are wholly responsible for the implementation of ADB-financed projects, as agreed jointly between the borrower and ADB, and in accordance with the policies and procedures of the government and ADB. ADB staff is responsible for supporting implementation including compliance by MOFT and SIWA of their obligations and responsibilities for project implementation in accordance with ADB's policies and procedures.

At grant negotiations, the borrower and ADB agreed to the PAM and ensured consistency with the grant agreement. Such agreement shall be reflected in the minutes of the grant negotiations. In the event of any discrepancy or contradiction between the PAM and the loan and grant agreements, the provisions of the grant agreement shall prevail.

After ADB approval of the project's Additional Financing Report, changes in implementation arrangements are subject to agreement and approval pursuant to relevant government and ADB administrative procedures (including the Project Administration Instructions) and upon such approval, they will be subsequently incorporated in the PAM.

I. PROJECT DESCRIPTION

1. The current project adopts a sector approach for developing sustainable, inclusive, and climate-resilient water supply and improved sanitation in the greater Honiara area (GHA) and in five other towns of Auki, Gizo, Munda, Noro, and Tulagi in Solomon Islands.¹ The additional financing will complement project activities and will focus on: (i) promoting effective and sustainable management of Honiara's watershed area—the sources of Honiara's water supplies, and (ii) improving the quality of water supplied from Honiara's water supply network.

2. The project is aligned with the following impact: access to safe water and improved sanitation in urban areas increased.² The overall project will have the following outcome: efficiency, accessibility, climate change and disaster resiliency, and sustainability of safe water and sanitation in GHA and other five urban areas improved.³ The additional financing will enhance the project's impact and outcome. The overall project outputs will include:

3. **Output 1: Continuous, safe, and climate resilient urban water supply ensured**. Selected subprojects in this output are located in GHA and will: (i) expand the surface water intake with additional 5 million liters per day (MLD), upgrade water treatment plant capacity in Kongulai (15 MLD); (ii) build new 11 kilometers (km) treated water trunk mains in Mataniko and White River areas; (iii) build two new reservoirs [12 million liters (ML)]. Additional subprojects include (i) leak detection and repair including rehabilitation of 10 km water pipes, expansion of 70 km new water pipes in GHA; (ii) upgrading water systems in Auki, Noro, and Tulagi; (iii) building new water systems in Gizo and Munda; and (iv) installing new metered connections to the households.⁴ The additional financing will contribute to the construction costs of the Kongulai Spring water and will strengthen the resilience of Honiara's water supply by eliminating the need to shut down the supply of water from the Kongulai Spring after heavy rainfall. Bidding for the water treatment plant is ongoing.

4. **Output 2: Urban sanitation services are effective, efficient, and safe in GHA**. Selected subprojects in this output will: (i) rehabilitate and upgrade three ocean outfalls and build a new ocean outfall, (ii) build six new sewage pump stations and rehabilitate both King George VI and Point Cruz sewage pump stations, and (iii) build new septage treatment facility [60 cubic meters per day (m³/day)]. The additional subproject will expand sewer systems by 7 km to connect 3000 new households.

5. **Output 3: Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns**. The subproject in this output is selected. It will design and deliver a gender-sensitive education program to raise community awareness about water conservation, environmental protection, and hygiene practices including informal settlements (at least 50% are women). The costs of delivering water supply and sanitation services and the need for water and sanitation tariffs will be highlighted. Menstrual hygiene management training and products would be provided to women and girls.

¹ ADB. 2019. Report and Recommendation of the President to the Board of Directors: Proposed Loan, Grant and Administration of Grant to Solomon Islands for the Urban Water Supply and Sanitation Sector Project. Manila.

² Government of Solomon Islands. 2016. *Medium-Term Development Plan 2016–2020*. Honiara.

³ The revised design and monitoring framework is in Appendix 1.

⁴ New metered connections will include 6,000 in GHA, 100 in Auki, 1,000 in Gizo, 200 in Munda, 100 in Noro, and 100 in Tulagi. 2019 baseline: GHA: 8,000, Auki: 500, Gizo: 0, Munda: 0, Noro: 400, and Tulagi: 100.

6. **Output 4: Solomon Islands Water Authority is financially and technically sustainable**. The subprojects in this output are selected. They will: (i) prepare and implement financial management policies including tariff management framework and tariff review process, among others; (ii) design and implement capacity building programs for the Solomon Islands Water Authority (SIWA) staff including the technical training and on-the-job training; (iii) design and implement preventative maintenance programs and asset management; (iv) expand SIWA's telemetry system; and (v) introduce and implement SIWA personnel incentive schemes. Since SIWA is responsible for all urban water supply and sewage service, Output 4 will support SIWA to continue the recovery of its annual operations and maintenance costs, asset depreciation costs, and debt servicing costs.

7. **Output 5** (new output): **Management of Honiara's drinking water source area strengthened to build resilience to climate change**. Output 5 will provide physical and nonphysical investments to strengthen the resilience of catchments that are the sources of water for the GHA water supply to climate change and to mitigate the impacts of logging and other deforestation practices. Activities will include: (i) review of legislation and regulations relating to protection of water supply sources and preparation legislative amendments where appropriate, (ii) establishment of a landowner representative group for engagement and participation in watershed protection, (iii) preparation and implementation of two watershed management plans, (iv) reforesting at least 60 hectares of land in GHA water supply catchment areas that clear-felled, and (v) preparation and implementation of payment for ecosystem services activities as alternate livelihood schemes to logging in GHA water supply source catchments.⁵

II. IMPLEMENTATION PLANS

A. Project Readiness Activities

		r	Nonths	Responsible			
Indicative Activities	Jun	Jul	Aug	Sep	Oct	Nov	Government
Advance contracting actions							SIWA
Retroactive financing actions							SIWA
Establish project implementation arrangements (established).							SIWA
ADB Board approval							ADB
Grant signing							ADB, MOFT, SIWA
Government legal opinion provided							MOFT, SIWA
Government budget inclusion							MOFT
Grant effectiveness							ADB

Table 1: Project Readiness Matrix

ADB = Asian Development Bank, MOFT = Ministry of Finance and Treasury, SIWA = Solomon Islands Water Authority.

⁵ Further details on Output 5 is available in **Annex 1**.

B. Overall Project Implementation Plan

8. The following Gantt chart presents the key project implementation activities.

Table 2: Key Project Implementation Activities

		L	JRBAN WAT	ER SUPPLY A	ND SANITATION PROJECT
				Implementat	ion Program
ID	Task Name	Duration	Start	Finish	2019 2020 2021 2022 2023 2024 2025 2026 2027
1	Urban Water Supply and Sanitation Project.	2203 days?	7 Tue 05/02/19	Thu 15/07/27	
2	PRF Consultants	686 days?	Thu 14/02/19	Thu 30/09/21	
3	Contract signed	1 day?	Thu 14/02/19	Thu 14/02/19	5
4	Consultants mobilized	135 wks	Mon 18/02/19	Fri 17/09/21	
5	Consultants demobilize.	9 days	Mon 20/09/21	Thu 30/09/21	Ť.
6	Output 1 - secure and safe urban water supplies.	1733 days	Wed 06/02/19	Fri 26/09/25	
7	Kongolai water treatment plant.	1211 days	Mon 08/07/19	Mon 26/02/24	
8	Design	540 days	Mon 08/07/19	Fri 30/07/21	
9	Procurement	102 days	Tue 07/09/21	Wed 26/01/22	
10	ADB no-objection to bidding	10 days	Tue 07/09/21	Mon 20/09/21	Ť
11	Invite bids (6 weeks)	30 days	Tue 21/09/21	Mon 01/11/21	a second s
12	Bid evaluation	4 wks	Tue 02/11/21	Mon 29/11/21	1 X
13	SW Board and ADB no-object to award contract	2 wks	Tue 30/11/21	Mon 13/12/21	K.
14	Notice of intention for award of contract - standstill period	2 wks	Tue 14/12/21	Mon 27/12/21	t t
15	Issue Letter of Acceptance	2 days	Tue 28/12/21	Wed 29/12/21	
16	Sign Contract	20 days	Thu 30/12/21	Wed 26/01/22	*
17	Construction	60 wks	Thu 30/12/21	Wed 22/02/23	×
18	Completion certificate	2 days	Thu 23/02/23	Fri 24/02/23	Ŕ
19	Operations Management Phase	261 days	Mon 27/02/23	Mon 26/02/24	*
20	Mataniko - Panatina , Kongulai, and White River trunk mains	1237 days	Mon 18/03/19	Tue 12/12/23	
21	Design (SAFEGE)	32 mons	Mon 18/03/19	Fri 27/08/21	
22	Procurement	102 days	Wed 15/09/21	Thu 03/02/22	
23	ADB no-objection to bidding	5 days	Wed 15/09/21	Tue 21/09/21	1 k -
24	Invite bids (6 weeks)	6 wks	Wed 06/10/21	Tue 16/11/21	i i i i i i i i i i i i i i i i i i i
25	Bid evaluation	4 wks	Wed 17/11/21	Tue 14/12/21	
26	SW Board and ADB no-object to award contract	5 days	Wed 15/12/21	Tue 21/12/21	T t
27	Notice of intention to award contract - standstill period	2 wks	Wed 22/12/21	Tue 04/01/22	i t
28	Issue Letter of Acceptance	2 days	Wed 05/01/22	Thu 06/01/22	
29	Sign Contract	20 days	Fri 07/01/22	Thu 03/02/22	1 x
30	Construction	24 mons	Fri 04/02/22	Thu 07/12/23	
31	Completion certificate	3 days	Fri 08/12/23	Tue 12/12/23	
32	Titingge and Kola service reservoirs	1009 days	Mon 18/02/19	Thu 29/12/22	
33	Design (SAFEGE)	27.1 mons	Mon 18/02/19	Tue 16/03/21	
34	Procurement	94 davs	Wed 15/09/21	Mon 24/01/22	
35	ADB no-objection to bidding	7 days	Wed 15/09/21	Thu 23/09/21	
36	Invite bids (6 weeks)	6 wks	Fri 24/09/21	Thu 04/11/21	i i i i i i i i i i i i i i i i i i i
37	Bid evaluation	4 wks	Fri 05/11/21	Thu 02/12/21	
38	SW Board and ADB no-object to award contract	5 davs	Fri 03/12/21	Thu 09/12/21	
30	Notice of intention to award contract - standstill period	2 wks	Fri 10/12/21	Thu 23/12/21	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40	Issue Letter of Acceptance	2 davs	Fri 24/12/21	Mon 27/12/21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40	Sign Contract	20 days	Tue 28/12/21	Mon 24/01/22	· · · · · · · · · · · · · · · · · · ·
42	Construction	12 mons	Tue 25/01/22	Mon 26/12/22	
42	Completion certificate	3 days	Tue 27/12/22	Thu 29/12/22	
40	Service connection/meter (prepayment) replacement program	1410 days	Fri 15/11/19	Thu 10/04/25	
45	Prepare Bidding Document (SW)	4 wks	Fri 15/11/19	Thu 12/12/19	
45	Procurement	70 days	Fri 13/12/19	Thu 19/03/20	
40	ADB no-objection to bidding	3 days	Fri 13/12/19	Tue 17/12/19	÷
4/	Invite bids (6 weeks)	30 days	Wed 18/12/19	Tue 28/01/20	
40	Bid evaluation	10 days	Wed 29/01/20	Tue 11/02/20	
50	SW Board and ADB no-object to award contract	5 days	Wed 12/02/20	Tue 18/02/20	
Revis	ion date: Wed 08/09/21	,-		Page	1 of7

		ι	JRBAN WA1	FER SUPPLY	AND SANITATION PROJECT
				Implementa	tion Program
)	Fask Name	Duration	Start	Finish	2019 2020 2021 2022 2023 2024 2025 2026 20
51	Issue Letter of Acceptance	2 days	Wed 19/02/20	Thu 20/02/20	1 2 3 4 1 1 2 3 4 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
52	Sign Contract	20 days	Fri 21/02/20	Thu 19/03/20	
53	Delivery	54 mons	Fri 12/06/20	Thu 01/08/24	
54	Install meters	62 mons	Fri 10/07/20	Thu 10/04/25	
55	Honiara water supply expansion program	980 days	Mon 12/07/21	Fri 11/04/25	
56	Prepare Bidding Documents(SW)	15 mons	Mon 12/07/21	Fri 02/09/22	
57	Procurement	77 davs	Mon 05/09/22	Tue 20/12/22	
58	ADB no-objection to bidding	10 days	Mon 05/09/22	Fri 16/09/22	The second se
59	Invite bids (6 weeks)	30 days	Mon 19/09/22	Fri 28/10/22	
50	Bid evaluation	10 days	Mon 31/10/22	Fri 11/11/22	
51	SW Board and ADB no-object to award contract	5 davs	Mon 14/11/22	Fri 18/11/22	
52	Issue Letter of Acceptance	2 days	Mon 21/11/22	Tue 22/11/22	
3	Sign Contract	20 days	Wed 23/11/22	Tue 20/12/22	
4	Construction	30 mons	Wed 21/12/22	Tue 08/04/25	
55	Completion certificate	3 days	Wed 09/04/25	Fri 11/04/25	
56	Leak detection and repair program, including mains renewal.	1100 days	Mon 12/07/21	Fri 26/09/25	
57	Prepare Bidding Documents(SW)	15 mons	Mon 12/07/21	Fri 02/09/22	
58	Procurement	77 davs	Mon 05/09/22	Tue 20/12/22	
59	ADB no-objection to bidding	10 days	Mon 05/09/22	Fri 16/09/22	The second se
70	Invite bids (6 weeks)	30 days	Mon 19/09/22	Fri 28/10/22	
1	Bid evaluation	10 days	Mon 31/10/22	Fri 11/11/22	
12	SW Board and ADB no-object to award contract	5 davs	Mon 14/11/22	Fri 18/11/22	
73	Issue Letter of Acceptance	2 days	Mon 21/11/22	Tue 22/11/22	
74	Sign Contract	20 days	Wed 23/11/22	Tue 20/12/22	
75	Construction	36 mons	Wed 21/12/22	Tue 23/09/25	
76	Completion certificate	3 days	Wed 24/09/25	Fri 26/09/25	
77	Auki water supply scheme upgrade	461 days	Wed 06/02/19	Wed 11/11/20	
78	Procurement	138 days	Wed 06/02/19	Fri 16/08/19	
79	Invite bids (6 weeks)	30 days	Wed 06/02/19	Tue 19/03/19	
0	Bid evaluation	33 days	Wed 20/03/19	Fri 03/05/19	
31	SW Board and ADB no-object to award contract	5 days	Mon 06/05/19	Fri 10/05/19	
12	Issue Letter of Acceptance	2 days	Mon 13/05/19	Tue 14/05/19	
13	Sign Contract	20 days	Mon 22/07/19	Fri 16/08/19	
84	Construction	16 mons	Mon 19/08/19	Fri 06/11/20	
85	Completion certificate	3 days	Mon 09/11/20	Wed 11/11/20	· · · · · · · · · · · · · · · · · · ·
86	Gizo WS Upgrade	1326 days	Mon 18/02/19	Mon 18/03/24	
87	Design (SAFEGE)	32.55 mons	Mon 18/02/19	Mon 16/08/21	
38	Procurement	92 days	Tue 04/01/22	Wed 11/05/22	
89	ADB no-objection to bidding	5 days	Tue 04/01/22	Man 10/01/22	
90	Invite bids (8 weeks)	8 wks	Tue 11/01/22	Mon 07/03/22	
91	Bid evaluation	4 wks	Tue 08/03/22	Mon 04/04/22	
92	SW Board and ADB no-object to award contract	5 days	Tue 05/04/22	Mon 11/04/22	
-	Issue Letter of Acceptance	2 days	Tue 12/04/22	Wed 13/04/22	
24	Sign Contract	20 days	Thu 14/04/22	Wed 11/05/22	
95	Construction	24 mons	Thu 12/05/22	Wed 13/03/24	
96	Completion certificate	3 days	Thu 14/03/24	Mon 18/03/24	· · · · · · · · · · · · · · · · · · ·
97	Noro water supply scheme upgrade	1215 days	Mon 18/02/19	Fri 13/10/23	
28	Design (SAFEGE)	33 mons	Mon 18/02/19	Fri 27/08/21	
99	Procurement	92 days	Mon 17/01/22	Tue 24/05/22	
	ADB no-objection to bidding	5 days	Mon 17/01/22	Fri 21/01/22	÷ .

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Bit colution 44wd 9110022 71150/022 Bit colution 5490 71250/022 71220/022 15 Issue Letter of Acceptance 2490 71220/022 71220/022 16 Sign Cortrad. 18 mon 11220/022 71220/022 17 Condituction 18 mon 11240/023 71220/022 18 Completion cetticale 38 mon 119149/92 71220/022 18 Completion cetticale 38 mon 119149/92 119149/92 19 Procurement 52 day 119149/92 100.002/01 100.002/01 21 ADB conclecte to biding 63 wor 119149/92 100.002/01 100.002/01 22 ADB conclecte to seart contract 64 wor 119149/92 100.002/02 100.002/02 23 Soff Seart and ADB conclect to seart contract 64 wor 119149/92 100.002/02 100.002/02 24 Bof evaluation 24 wor 102.002/02 100.002/02 102.000/02 102.000/02 100.000/02 100.000/02 1	112	Invite bids (8 weeks)	8 wks	Fri 21/01/22	Fri 18/03/22	
14 SW band and ADB nocked to sward contract 5 skys Pi 150402 Pi 22/04/22 15 Uses Litter of Acceptance 20 skys Pi 23/04/22 Tue 31/04/22 16 Sign Contract 20 skys Pi 23/04/22 Tue 31/04/22 16 Sign Contract 20 skys Pi 23/04/22 Tue 31/04/23 17 Construction 11 skys Mi 180/27 Pi 13/10/23 18 Construction 11 skys Mi 180/27 Mo 180/27 19 Tue of we supply scheme signed 11 skys Mi 180/27 Mo 180/27 21 Procumment Sgas Nu 14/122 Mo 200/22 Mo 180/27 22 ADB no-selection bishing 5 skys Nu 14/122 Mo 200/22 Mo 130/22 22 Inde bisk (wesks) 5 skys Nu 14/122 Mo 130/22 Mo 130/22 23 Skys and and ADB no-select to sward contract 5 skys Nu 14/122 Mo 130/22 Mo 130/22 24 Skys and and ADB no-select to sward contract 1 skys Nu 14/122 Mo 130/22 Mo 130/22 25 Skys Bad and ADB no-select to sward contract 1 sky	113	Bid evaluation	4 wks	Fri 18/03/22	Fri 15/04/22	
15 Issue Latter of Acceptance 2 days Ph 220402 Tue 3 1/0/172 16 Generation 18 more Tue 3 1/0/172 17 Complexication 18 more Tue 3 1/0/172 18 Design (SAFEGE) 31 more More 1882/19 More 1882/19 20 Design (SAFEGE) 31 more More 1882/19 More 1882/19 21 Procumment 22 days Tue 11/022 More 1882/19 22 ADB no-objection baiding 5 days Tue 11/022 More 1882/19 23 Inde besig (weeks) 8 was Tue 21/022 More 1882/19 24 Bid exabasion 4 was Tue 11/022 More 1882/19 25 SW Board and AD no-object to award context 6 days Tue 18/022 More 1882/19 26 Issue Latter of Acceptance 2 days Tue 23/02/12 More 1892/19 29 Complexion existication services 1 day Tue 63/02/19 Tue 63/02/19 Tue 63/02/19 20 Complexion existication and set ubm servication services 1 day Wed 23/02/22 Tue 30/02/19 Tue 23/02/11 20 Co	114	SW Board and ADB no-object to award contract	5 days	Fri 15/04/22	Fri 22/04/22	
Sign Contract Data was The 240/022 The 240/022 17 Construction 18 mons The 240/022 The 10/10/23 18 Completion cestificatie 3 days The 240/022 The 10/10/23 19 Tutagi was + supply scheme sugrade 119 days Mon 108/21 Mon 108/21 21 ADB codgeton to bidding 6 days The 240/022 Mon 200/21 22 ADB codgeton to bidding 6 days The 240/22 Mon 200/22 23 Intrice bids (weeks) 8 wis The 240/22 Mon 200/22 24 Bid evaluation 4 wis The 150/22 Mon 100/22 25 SW Board and ADB no-dget to savard contract 6 days The 240/22 Wed 200/22 25 SW Board and ADB no-dget to savard contract 6 days The 240/22 Wed 200/22 26 Contractuction 18 mons The 240/22 Wed 200/22 Wed 200/22 28 Contractuction 18 mons The 240/22 Wed 200/22 The 240/22 29 Congeton centistale	115	Issue Letter of Acceptance	2 days	Fri 22/04/22	Tue 26/04/22	
Construction 18 mores Tue 24/00/23 Fue 13/10/123 10 Construction 3 more Tue 10/10/23 Fue 13/10/23 11 Construction 5 more More 11/00/23 Fue 13/10/23 12 Tue day water support scheme apgrade 1191 days More 11/00/23 Fue 13/10/23 12 Procurement 82 days Tue 41/02/1 More 2012/071 12 ADB no objection bitiding 5 days Tue 15/02/22 More 14/02/2 21 Induct Site (8 weeks) 8 wise Tue 21/02/121 More 14/02/2 22 ADB no objection bitiding 5 days Tue 15/02/22 More 14/02/2 23 Bod exatation 4 wise Tue 10/02/2 More 14/02/2 24 Bid exatation 4 wise Tue 10/02/2 More 14/02/2 25 SW More and ADB no objection certificate 2 days Tue 06/02/19 26 Construction 1 day Tue 06/02/19 Tue 06/02/19 20 Comprison certificate 1 day Tue 06/02/19 Tue 06/02/19	116	Sign Contract	20 days	Tue 26/04/22	Tue 24/05/22	*
Dial Completion certificate Barry Tue 10/10/23 Fri 13/10/23 19 Tudgi wate supply scheme upg.sche 1191 day Mon 100/21 Mon 100/22 Mon 100/21 Mon 100/22 Mon 100/21 Mon 100/22 Mon 100/22 <t< td=""><td>117</td><td>Construction</td><td>18 mons</td><td>Tue 24/05/22</td><td>Tue 10/10/22</td><td></td></t<>	117	Construction	18 mons	Tue 24/05/22	Tue 10/10/22	
10 Tudag ware support scheme upgrade 101 4 2002 20 Design (SAFEGE) 31 8 mors Mor 1802/19 Mar 2007/21 21 Procurement 92 days Tue 41/221 Wed 2004/22 22 ADB no-objectio to bidnig 6 days Tue 41/221 Wed 2004/22 23 Individual (a weds) 6 wars Tue 41/222 Wed 2004/22 24 Bid revaluation 4 wis Tue 150/222 Mor 1002/21 25 SW stoard and ADB no-object to award contract 6 days Tue 2005/22 Wed 2004/22 26 Insue Letter of Acceptance 2 days Tue 2005/22 Wed 2000/12 27 Sign Contract 16 days Wed 2000/12 Wed 2000/12 28 Construction 16 days Wed 2002/19 Tue 0502/19 Tue 0502/19 29 Completion certificatie 16 days Wed 2000/19 Tue 0502/19 Tue 0502/19 Tue 0502/19 31 MPH-Marcino Severe System Upgrade including outral 16 day Wed 2002/19 Tue 2001/22 Tue 0502/19 33<	118	Completion certificate	3 days	Tue 10/10/23	Fri 12/10/22	
Design (SAFEGE) 31 8 mons Mon 1802119 Mer 2807721 Procurrement 92 days Tus 94/1221 Mon 200/1221 Qass Tus 94/1221 Mon 200/1221 Mon 1802119 Mer 2807721 Qass Design (SAFEGE) Solve status Solve status Solve status Solve status Zas ADB no-objection bidding Solve status Solve status Solve status Solve status Zas Solve Status Solve st	119	Tulaci water supply scheme upgrade	1191 days	Mon 18/02/19	Mon 11/09/23	
Description curve/section Procurement S2 days Tus 14/1221 Weid 2004/22 2 ADB re-objection to bidding 6 days Tus 14/1221 More 201/221 More 201/221 23 Indie bids (8 weiss) 8 wiss Tus 14/1222 More 201/221 More 201/221 24 Bid evaluation 4 wiss Tus 15/0222 More 11/0221 More 201/021 25 SW Board and ADB no-object to award contract 2 days Tus 20/0222 Weid 200/01/22 26 Lissue Latter of Acceptance 2 days Tus 20/0222 Weid 200/01/22 28 Construction 18 mores Weid 200/01/22 Weid 200/01/22 29 Completion certificate 3 days Tus 20/0221 Tus 200/01/22 29 Completion certificate 3 days More 200/01/19 Tus 60/0022 Tus 200/01/22 30 Output 2 - effective, efficient and safe urban saritation sar/ces. 14 day Weid 200/01/22 Tus 300/022 31 MNH-Marniko Sever System Upgrade including outfal 64 days Weid 200/01/22 Tus 300/022 35 <td>120</td> <td>Design (SAFEGE)</td> <td>31.8 mons</td> <td>Mon 18/02/19</td> <td>Mon 26/07/21</td> <td></td>	120	Design (SAFEGE)	31.8 mons	Mon 18/02/19	Mon 26/07/21	
21 Finderstand Setups Tet 41/221 Net 200721 23 Inite bids (g weeks) 8 wks True 51/221 Nen 140/022 24 Bid evaluation 4 wks True 51/0221 Nen 140/022 25 SW Board and ADB no-object to avaard contract 5 days True 520/022 Mon 140/022 26 Issue Letter of Acceptance 2 days True 200/022 Wed 200/012 28 Completion cetificate 3 days True 200/022 Wed 200/012 29 Completion cetificate 3 days True 050/019 True 050/019 20 Completion cetificate 3 days True 050/019 True 050/019 20 Design (SAFEGE) 3 days True 050/019 True 050/019 21 Design (SAFEGE) 3 days Wed 100/022 True 200/022 23 Mone-objection bidding 10 days Wed 100/022 True 200/022 24 Bid evaluation 4 wids Wed 200/0122 True 200/022 25 SW baard and ADB no-object on wand contract 5 days Wed 100/022 True 200/022 26 Bid evaluation	120	Procurement	92 dave	Tue 14/12/21	Wed 20/04/22	
22 Inclusional optimization optimizatioptimization optimization	121	ADB no objection to bidding	5 dave	Tue 14/12/21	Mon 20/12/21	
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44 Deletation A Was No. 10022 No. 10022 55 SW board and ADB no-object to award contract 5 days Tue 120022 Web 2009/22 26 Issue Latter of Acceptance 2 days Tue 2009/22 Web 2009/22 27 Sign Contract 18 mons Thue 2100/22 Web 2009/22 28 Construction 18 mons Thue 2100/22 Web 2009/23 29 Comptetion certificate 3 days Thue 96/02/19 Tue 100/22 31 NRH-Hataniko Sewer System Upgrade including outfall 1840 Web 2009/22 Tue 300/22 32 Design (SAFEGS) 34 mons Web 2009/22 Tue 300/22 Tue 300/22 33 Procurement 97 days Web 400/2022 Tue 300/22 Tue 300/22 34 ADB no-object to bidding 10 days Web 200/22 Tue 300/22 Tue 300/22 35 Invite bids (S weeks) 8 wks Web 200/22 Tue 300/22 Tue 300/22 36 Bid evaluation 4 wks Web 200/22 Tue 300/22 Tue 300/2	123	Rid exclusion	d wks	Tue 15/02/22	Mon 14/02/22	
25 Over South and ADB (Household and (Household (Household (Household (Household (Household (Househo	124	SW Reard and ADR no object to sward contract	F dave	Tue 15/02/22	Mon 21/03/22	
delage Insule Later of Acceptance 2 days Inde 2003/22 Wed 2004/22 28 Construction 16 mons Thu 21/04/22 Wed 2004/22 29 Construction 16 mons Thu 21/04/22 Wed 2004/22 30 Output 2 - effective, efficient and safe urban saritation services. 1 day The 050/219 The 050/219 30 NRH-Mataniko Sewer System Upgrade including outfall 1840 days Wed 10/0322 The 050/219 31 NRH-Mataniko Sewer System Upgrade including outfall 1840 days Wed 10/0322 The 030022 32 Develop (GAFEGE) 9 days Wed 10/0222 The 030022 The 030022 34 ADB no-objection bilding 10 days Wed 10/0222 The 2300/22 35 Invite bils (6 weels) 8 wis Wed 2002/22 The 2406/22 36 Issue Letter of Acceptance 2 days Fri 0306/22 Thu 2006/22 33 Sign Contrat 2 days Fri 0300/22 Thu 2006/22 34 Development of septage management policies and framework for the outsourced operation and matrienance of the septage treatment facility Shore/2708/21 Thu 51/02/14 Fri 15/02/14 </td <td>125</td> <td>Sw Board and ADB ho-object to award contract</td> <td>O days</td> <td>Tue 15/03/22</td> <td>Worl 21/03/22</td> <td></td>	125	Sw Board and ADB ho-object to award contract	O days	Tue 15/03/22	Worl 21/03/22	
27 agint Cultata 20 days Im 2 Alog 22 Web 2004/22 28 Construction 16 mors Thu 2 10/422 Web 2006/22 29 Completion cettificate 3 days Thu 0 07/09/23 Web 2006/219 30 Output 2 - effective, efficient and sate urban servication services. 1440 Veb 2002/19 Tue 6003/26 32 Design (SAFEGE) 34 mors Web 2002/19 Tue 2800/218 34 ADB no-objection to bidding 10 days Web 2002/21 Tue 2800/218 34 ADB no-objection to bidding 10 days Web 2002/22 Tue 2800/218 35 Invite bids (6 weeks) 8 wks Web 2002/22 Tue 2800/22 36 Bid evaluation 4 wks Web 2006/22 Tue 2800/22 37 SW Board and ADB no-object to award contract 5 days Web 0006/22 Tue 2006/22 38 Issue Letter of Acceptance 20 days Fi 0306/22 Tue 0400/26 41 Completion cettificate 3 days Fi 0306/22 Tue 0400/26 42 Renad Sever System Upgrade including outfall (design only) 33 mors Mon 18/02/19	126	Size Centreet	2 uays	The 22/03/22	Wed 20/03/22	
28 Contractidation 16 mides 16 mides 10 mides <t< td=""><td>127</td><td>Construction</td><td>20 days</td><td>Thu 24/03/22</td><td>Wed 20/04/22</td><td></td></t<>	127	Construction	20 days	Thu 24/03/22	Wed 20/04/22	
generalization generalization generalization 10 Output 2: effective, efficient and safe urban saritation services. 1 day Tue 05/02/19 Tue 05/02/19 11 NRH-Materilko Sewer System Upgrade including outfal 1840 day Ved 20/02/19 Tue 05/02/19 Tue 05/02/19 12 Design (SAFEGE) 34 mon Ved 20/02/19 Tue 05/02/19 Tue 05/02/19 13 Procurement 37 days Wed 16/02/22 Tue 30/02/12 Tue 20/02/12 14 ADB no-objection to bidding 10 days Wed 16/02/22 Tue 20/02/22 Tue 20/02/22 15 Bid evaluation 4 wks Wed 27/04/22 Tue 20/02/22 Tue 20/02/22 16 Bid evaluation 4 wks Wed 27/02/22 Tue 20/02/22 Tue 20/02/22 16 Bid evaluation 4 wks Wed 20/02/12 Tue 20/02/22 Tue 20/02/22 16 Glocavitacion 48 mons Fri 01/07/22 Tue 20/02/22 Tue 20/02/22 16 Construction 48 mons Fri 01/07/22 Tue 20/02/24 Tue 20/02/24	128	Construction	2 dave	Thu 21/04/22	Mon 11/09/23	
0 Output 2 - effective, efficient and safe ubian safetation servess. 1 alg 1 the 0302/19 1 the 0302/19 31 NRH-Materilio Sever System Upgrade including outfail 1840 days Ved 2002/19 Tue 2009/21 32 Design (SAFEGE) 34 mons Wed 1802/22 Tue 2009/21 33 Procurement 97 days Wed 1802/22 Tue 2009/21 34 ADB no-objection b bidding 10 days Wed 1802/22 Tue 2009/22 35 Invite bids (6 weeks) 8 wks Wed 2700/22 Tue 2009/22 36 Bid evaluation 4 wks Wed 2700/22 Tue 2009/22 37 SW Board and ADB no-object to award contract 5 days Wed 2009/22 Thu 02008/22 38 Issue Letter of Acceptance 2 days Fri 030/28 Thu 0209/22 36 Sign Contract 20 days Fri 030/28 Thu 0209/22 40 Completion entificate 3 days Fri 030/28 Thu 19/03/26 41 Completion cartificate 3 days Fri 030/29 Fiz 70/022 42 Development of septage management policies and framework for the soutsourced operation and maintenance of the sept	129	Completion certificate	5 days	The 05/00/40	Tue 05/02/40	
1 NNH-Matanino Sewer System Upgrade including outfall 140 days Wed 2002/19 Lue 2002/20 2 Design (SAFEGE) 34 mons Wed 2002/19 Lue 2006/21 33 Procurement 97 days Wed 2002/19 Lue 2006/22 4 ADB no-objection to bidding 10 days Wed 2002/19 Lue 2006/22 5 Invite bids (6 weeks) 8 wks Wed 2002/29 Tue 2006/22 6 Bid evaluation 4 wks Wed 2002/29 Tue 2006/22 7 SV Board and ADB no-object to award contract 5 days Wed 2006/22 Tue 2006/22 8 issue Letter of Acceptance 2 days Wed 0106/22 Tuu 0206/22 9 Sign Contract 3 days Fi 0306/22 Tuu 0206/22 40 Completion cetificate 3 days Fi 0400/26 Tuu 0206/22 41 Completion cetificate 3 days Fi 0400/22 Tuu 0206/22 42 Randa Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Tue 23/09/21 43 Design (SAFEGE) 34.1 mons Mon 18/02/19 Tue 23/09/21 Fi 15/01/21	130	Output 2 - effective, efficient and safe urban sanitation services.	1 day	Tue 05/02/19	Tue 05/02/19	
Jesgin (SAF EGE) J4 mons Vied 0/02/19 Iue 2/00/71 33 Procurement 97 days Wed 10/02/22 Tue 0/103/22 34 ADB no-objection to bidding 10 days Wed 10/02/22 Tue 0/103/22 35 Invite bids (6 weeks) 8 wks Wed 0/02/22 Tue 2/00/72 36 Bid evaluation 4 wks Wed 2/00/22 Tue 2/00/72 37 SW Board and ADB no-object to award contract 5 days Wed 2/06/22 Tue 3/06/72 38 Issue Letter of Acceptance 2 days Wed 0/06/22 Thu 0/06/22 Thu 0/06/22 39 Sign Contract 20 days Fri 0300/72 Thu 0/06/22 Thu 0/06/22 40 Construction 48 mons Fri 0300/72 Thu 0/06/22 Thu 0/06/22 41 Completion certificate 3 days Fri 0300/72 Thu 0/06/22 Thu 0/06/22 42 Ranad Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Tue 2/09/71 43 Design (SAFEGE) 34.1 mons Mon 04/10/21 Fri 15/10/21 </td <td>131</td> <td>NRH-Mataniko Sewer System Upgrade including outfall</td> <td>1840 days</td> <td>Wed 20/02/19</td> <td>Tue 10/03/26</td> <td></td>	131	NRH-Mataniko Sewer System Upgrade including outfall	1840 days	Wed 20/02/19	Tue 10/03/26	
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39 Sign Contract 20 days Fri 0306/22 Thu 3006/22 40 Construction 48 mons Fri 03006/22 Thu 05/03/26 41 Completion certificate 3 days Fri 0300/22 Thu 05/03/26 42 Ranadi Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Tue 20/03/26 43 Design (0AFEGE) 34.1 mons Mon 18/02/19 Tue 20/09/21 44 Development of septage management policies and framework for the septage treatment facility 109 days Mon 04/10/21 Fri 15/10/21 45 Develop ToR 2 wks Mon 04/10/21 Fri 15/10/21 Fri 12/11/21 46 Recruit Consultants (QCBS) 88 days Mon 18/10/21 Fri 12/11/21 47 Invite EOIs 20 days Mon 18/10/21 Fri 12/11/21 48 Shortlist frms 5 days Mon 18/10/21 Fri 19/11/21	138	Issue Letter of Acceptance	2 days	Wed 01/06/22	Thu 02/06/22	
40 Construction 48 mons Fit 0107/22 Thu 05/03/26 41 Completion certificate 34 mons Fit 0107/22 Thu 02/03/26 Tue 10/03/26 41 Completion certificate 34 days Fit 01003/26 Tue 10/03/26 Tue 10/03/26 41 Ranad Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Fit 27/08/21 43 Design (SAFEGE) 34.1 mons Mon 18/02/19 Tue 28/09/21 44 Development of septage management policies and framework for the outsourced operation and maintenance of the septage treatment facility Mon 04/10/21 Thu 15/07/27 45 Develop ToR 2 wks Mon 04/10/21 Fri 15/10/21 46 Recruit Consultants (QCBS) 88 days Mon 18/10/21 Fri 12/11/21 48 Shortlist frms 5 days Mon 18/10/21 Fri 19/11/21 Fri 19/11/21	139	Sign Contract	20 days	Fri 03/06/22	Thu 30/06/22	
A1 Completion certificate 3 days Fri 0603/26 Tue 1003/26 42 Ranad Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Fri 27/08/21 33 Design (SAFEGE) 41. mons Mon 18/02/19 Fri 27/08/21 43 Design (SAFEGE) 41. mons Mon 18/02/19 Fri 10/02/16 44 Development of septage management policies and framework for the outsourced operation and maintenance of the septage treatment facility Shon 04/10/21 Fri 15/10/21 45 Develop ToR 2 wks Mon 04/10/21 Fri 15/10/21 46 Recruit Consultants (QCBS) 88 days Mon 18/02/19 Fri 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	140	Construction	48 mons	Fri 01/07/22	Thu 05/03/26	
42 Ranad Sewer System Upgrade including outfall (design only) 33 mons Mon 18/02/19 Fil Z708/24 43 Design (SAFEGE) 34.1 mons Mon 18/02/19 Tue 28/09/21 44 Development of septage management policies and framework for the outsourced operation and maintenance of the septage treatment facility Mon 04/10/21 Fin 15/10/21 46 Develop ToR 2 wks Mon 04/10/21 Fin 15/10/21 46 Recruit Consultants (QCBS) 88 days Mon 18/02/19 Ved 16/02/22 47 Invite EOIs 20 days Mon 18/10/21 Fin 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fin 19/11/21	141	Completion certificate	3 days	Fri 06/03/26	Tue 10/03/26	
A3 Design (SAFEGE) S41 mons Mon 18/02/19 Tue 28/09/21 Design (SAFEGE) Design (SAFEGE) S41 mons Mon 18/02/19 Tue 28/09/21 Design (SAFEGE) Design (SAFEGE) State Mon 18/02/19 Tue 28/09/21 Design (SAFEGE) Design (SAFEGE) State Mon 18/02/19 Tue 28/09/21 Outsourced operation and maintenance of the septage treatment facility Mon 04/10/21 Fit 15/10/21 Fit 15/10/21 45 Develop ToR State Mon 18/10/21 Fit 15/10/21 Fit 12/11/21 46 Recruit Consultants (QCBS) 88 days Mon 18/10/21 Fit 12/11/21 47 Invite EOIs 20 days Mon 18/10/21 Fit 19/11/21 Fit 19/11/21 48 Shortlist frms 5 days Mon 15/11/21 Fit 19/11/21 Fit 19/11/21	142	Ranadi Sewer System Upgrade including outfall (design only)	33 mons	Mon 18/02/19	Fri 27/08/21	
44 Development of septage management policies and framework for the outsourced operation and maintenance of the septage treatment facility 1509 days Mon 04/10/21 Thu 15/07/27 45 Develop ToR 2 wks Mon 04/10/21 Fri 15/10/21 46 Recruit Consultants (QCBS) 88 days Mon 18/10/21 Wed 16/02/22 47 Invite EOIs 20 days Mon 18/10/21 Fri 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	143	Design (SAFEGE)	34.1 mons	Mon 18/02/19	Tue 28/09/21	*
45 Develop ToR 2 wks Mon 04/10/21 Fri 15/10/21 46 Recruit Consultants (QCBS) 88 days Mon 18/10/21 Wed 16/02/22 47 Invite EOIs 20 days Mon 18/10/21 Fri 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	144	Development of septage management policies and framework for the outsourced operation and maintenance of the septage treatment facility	1509 days	Mon 04/10/21	Thu 15/07/27	
Kerruit Consultants (QCBS) 88 days Mon 18/10/21 Wed 16/02/22 47 Invite EOIs 20 days Mon 18/10/21 Fri 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	145	Develop ToR	2 wks	Mon 04/10/21	Fri 15/10/21	Б
47 Invite EOIs 20 days Mon 18/10/21 Fri 12/11/21 48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	146	Recruit Consultants (QCBS)	88 davs	Mon 18/10/21	Wed 16/02/22	
48 Shortlist firms 5 days Mon 15/11/21 Fri 19/11/21	147	Invite EOIs	20 days	Mon 18/10/21	Fri 12/11/21	
	148	Shortlist firms	5 days	Mon 15/11/21	Fri 19/11/21	
	.40					

				IER SUFFET	ne can								
				Implementa	ion Progr	am							
1	ask Name	Duration	Start	Finish	2019	2020	2021	2022	2023	2024	2025	2026	2
49	Invite proposals (Biodata)	30 days	Mon 22/11/21	Fri 31/12/21	1 2 3	4 1 2 3	4 1 2 3	4 1 2 3	4 1 2 ;	3 4 1 2	3 4 1 2	3 4 1 2	3 4
0	Evaluate proposals	10 days	Mon 03/01/22	Fri 14/01/22				T.					
1	ADB no objection to proposal evaluation	3 days	Mon 17/01/22	Wed 19/01/22				t					
2	Invite fist-anked firm to negotiate contract	2 wks	Thu 20/01/22	Wed 02/02/22				T.					
3	Negotiate contract	3 days	Thu 03/02/22	Mon 07/02/22	-			T.					
4	ADB and SW Board no Objection to contract	5 days	Tue 08/02/22	Mon 14/02/22				*					
5	Award contract	2 days	Tue 15/02/22	Wed 16/02/22				t.					
5	Execute contract	6 m ons	Thu 17/02/22	Wed 03/08/22	1			*					
7	Septage treatment facility including 5 years operations and maintenance;	794 days	Mon 01/07/24	Thu 15/07/27									
8	Design (TBD)	3 mons	Mon 01/07/24	Fri 20/09/24									
9	Procurement	71 days	Mon 23/09/24	Mon 30/12/24	11						-		
0	ADB no-objection to bidding	3 days	Mon 23/09/24	Wed 25/09/24	11						*		
1	Invite bids (6 weeks)	30 days	Thu 26/09/24	Wed 06/11/24	11						1		
2	Bid evaluation	10 days	Thu 07/11/24	Wed 20/11/24							T		
	SW Board and ADB no-object to award contract	5 days	Thu 21/11/24	Wed 27/11/24	11						N.		
	Issue Letter of Acceptance	3 days	Thu 28/11/24	Mon 02/12/24							T.		
	Sign Contract	20 days	Tue 03/12/24	Mon 30/12/24							*		
	Construction	9 mons	Tue 31/12/24	Mon 08/09/25							+		
,	Completion certificate	3 days	Tue 09/09/25	Thu 11/09/25								-	
	Operations Management Phase	24 mons	Fri 12/09/25	Thu 15/07/27								4	
•	Output 3 - enhanced awareness of hygiene and water issues and sustained improved hygiene behavior.	1183 days	Mon 03/02/20	Wed 14/08/24							-		
0	Hygiene awareness programs (ADB-funded)	1183 days	Mon 03/02/20	Wed 14/08/24		-					-		
	Develop ToR	57.6 wks	Mon 03/02/20	Wed 10/03/21			b						
	Recruit Consultants/NGOs (QCBS)	111 days	Thu 11/03/21	Thu 12/08/21									
	Invite EOIs	20 days	Thu 11/03/21	Wed 07/04/21			T.						
	Shortlist firms	5 days	Thu 08/04/21	Wed 14/04/21			The second secon						
5	Invite proposals (STP)	42 days	Thu 15/04/21	Fri 11/06/21			*						
5	Evaluate proposals	20 days	Mon 14/06/21	Fri 09/07/21									
7	ADB no objection to proposal evaluation	5 days	Mon 12/07/21	Fri 16/07/21			K						
	Invite fist-anked firm to negotiate contract	2 wks	Mon 19/07/21	Fri 30/07/21			T.						
Č.	Negotiate contract	5 days	Mon 02/08/21	Fri 06/08/21			N						
)	ADB and SW Board no Objection to contract	2 days	Mon 09/08/21	Tue 10/08/21	11		1						
	Award contract	2 days	Wed 11/08/21	Thu 12/08/21	11		N						
2	Execute contract	8 mons	Fri 13/08/21	Thu 24/03/22			*						
3	Hygiene awareness programs (EU-funded)	598 days	Mon 02/05/22	Wed 14/08/24	11			-			-1		
1	Develop ToR	6 wks	Mon 02/05/22	Fri 10/06/22	11			-					
5	Recruit Consultants/NGOs (QCBS)	88 days	Mon 13/06/22	Wed 12/10/22	11								
5	Invite EOIs	20 days	Mon 13/06/22	Fri 08/07/22				1					
7	Shortlist firms	5 days	Mon 11/07/22	Fri 15/07/22	11			X					
8	Invite proposals (STP)	30 days	Mon 18/07/22	Fri 26/08/22									
9	Evaluate proposals	10 days	Mon 29/08/22	Fri 09/09/22									
0	ADB no objection to proposal evaluation	3 days	Mon 12/09/22	Wed 14/09/22					55 2				
1	Invite fist-anked firm to negotiate contract	2 wks	Thu 15/09/22	Wed 28/09/22	11								
2	Negotiate contract	3 days	Thu 29/09/22	Mon 03/10/22	11			7					
3	ADB and SW Board no Objection to contract	5 days	Tue 04/10/22	Mon 10/10/22									
4	Award contract	2 days	Tue 11/10/22	Wed 12/10/22					•				
5	Execute contract	24 mons	Thu 13/10/22	Wed 14/08/24					+		-		
-					41								

		L	IRBAN WAT	ER SUPPLY A	ND SANITATION PROJECT
				Implementat	ion Program
ID	Task Name	Duration	Start	Finish	2019 2020 2021 2022 2023 2024 2025 2026 2027
197	Data management	634 days	Mon 29/06/20	Thu 01/12/22	
198	Prepare Bidding Document (SW)	6 wks	Mon 29/06/20	Fri 07/08/20	
199	Procurement	601 days	Mon 10/08/20	Mon 28/11/22	
200	ADB no-objection to bidding	3 days	Mon 10/08/20	Wed 12/08/20	
201	Invite bids	30 days	Thu 13/08/20	Wed 23/09/20	a a construction of the co
202	Bid evaluation	40 days	Thu 24/09/20	Wed 18/11/20	* .
203	SW Board and ADB no-object to award contract	10 days	Thu 19/11/20	Wed 02/12/20	K
204	Issue Letter of Acceptance	1 day	Wed 20/01/21	Wed 20/01/21	T
205	Sign Contract	3 days	Thu 21/01/21	Mon 25/01/21	t.
206	Supply, installation, testing, and training	24 mons	Tue 26/01/21	Mon 28/11/22	*
207	Completion certificate	3 days	Tue 29/11/22	Thu 01/12/22	r i i i i i i i i i i i i i i i i i i i
208	Monitoring and evaluation	1542.2 days	s Mon 03/02/20	Wed 31/12/25	
209	Develop ToR	1 wk	Mon 03/02/20	Fri 07/02/20	
210	Recruit Consultant (ICS)	47 days	Mon 10/02/20	Tue 14/04/20	
211	Invite EOIs	20 days	Mon 10/02/20	Fri 06/03/20	
212	Evaluate EOIs	18 days	Mon 09/03/20	Wed 01/04/20	The second se
213	Negotiate contract	3 days	Thu 02/04/20	Mon 06/04/20	3
214	ADB and SW Board no Objection to contract	5 days	Tue 07/04/20	Mon 13/04/20	Ř.
215	Sign contract	1 day	Tue 14/04/20	Tue 14/04/20	K
216	Execute contract	74.51 mons	Wed 15/04/20	Wed 31/12/25	÷
217	Project Management	1622.2 days	s Mon 14/10/19	Wed 31/12/25	
218	Project management unit	1622.2 days	s Mon 14/10/19	Wed 31/12/25	
219	Develop ToR	12 wks	Mon 14/10/19	Fri 03/01/20	
220	Recruit Consultants (ICS, 5 No.)	70 days	Mon 06/01/20	Fri 10/04/20	
221	Invite EOIs	10 days	Mon 06/01/20	Fri 17/01/20	R R R R R R R R R R R R R R R R R R R
222	Shortlist Candidates	20 days	Mon 20/01/20	Fri 14/02/20	The second se
223	Negotiate contracts	20 days	Mon 17/02/20	Fri 13/03/20	T
224	ADB and SW Board no Objection to contracts	10 days	Mon 16/03/20	Fri 27/03/20	R
225	Award contracts	10 days	Mon 30/03/20	Fri 10/04/20	
226	Execute contracts	73.86 mons	Mon 04/05/20	Wed 31/12/25	*
227	Tranche 2 - Design services.	453 days	Thu 10/09/20	Mon 06/06/22	
228	Develop ToR	12 wks	Thu 10/09/20	Wed 02/12/20	
229	Recruit Consultants (ICS, 3No)	153 days	Thu 03/12/20	Mon 05/07/21	r
230	Invite EOIs	8 wks	Thu 03/12/20	Wed 27/01/21	
231	Shortlist firms	15 days	Thu 28/01/21	Wed 17/02/21	
232	Invite proposals (STP)	48 days	Thu 18/02/21	Mon 26/04/21	
233	Evaluate proposals	15 days	Tue 27/04/21	Mon 17/05/21	
234	ADB no objection to proposal evaluation	15 days	Tue 18/05/21	Mon 07/06/21	ξ
235	Invite fist-anked firm to negotiate contract	2 wks	Tue 08/06/21	Mon 21/06/21	Ť.
236	Negotiate contract	3 days	Tue 22/06/21	Thu 24/06/21	ξ.
237	ADB and SW Board no Objection to contract	5 days	Fri 25/06/21	Thu 01/07/21	
238	Award contract	2 days	Fri 02/07/21	Mon 05/07/21	N N
239	Execute contract	12 mons	Tue 06/07/21	Mon 06/06/22	
240	Output 5 : Management of Honiara's watershed area strengthened to build resilience to climate change	1022 days	Tue 15/06/21	Wed 14/05/25	,
241	Catchment Management/Institutional Expert (International)	52 days	Tue 15/06/21	Wed 25/08/21	
242	Develop ToR	2 wks	Tue 15/06/21	Mon 28/06/21	h
243	Recruit Consultant (ICS)	42 days	Tue 29/06/21	Wed 25/08/21	
244	invite EOIs	10 days	Tue 29/06/21	Mon 12/07/21	5 S
245	Shortlist Candidates	10 days	Tue 13/07/21	Mon 26/07/21	r r
Revisio	n date: Wed 08/09/21			Page	5 of 7

			Implementa	ition Program
ik Name	Duration	Start	Finish	2019 2020 2021 2022 2023 2024 2025 2026 2027
Negotiate contracts	10 days	Tue 27/07/21	Mon 09/08/21	
ADB and SW Board no Objection to contracts	10 days	Tue 10/08/21	Mon 23/08/21	ň
Award contract	2 days	Tue 24/08/21	Wed 25/08/21	The second se
Execute contract	48 mons	Thu 09/09/21	Wed 14/05/25	
Project Support Specialist	1272 days	Mon 04/10/21	Tue 18/08/26	P
Develop ToR	2 wks	Mon 04/10/21	Fri 15/10/21	
Recruit Consultant (ICS)	42 days	Mon 18/10/21	Tue 14/12/21	
Invite EOIs	10 days	Mon 18/10/21	Fri 29/10/21	
Shortlist Candidates	10 days	Mon 01/11/21	Fri 12/11/21	Ť.
Negotiate contracts	10 days	Mon 15/11/21	Fri 26/11/21	K.
ADB and SW Board no Objection to contracts	10 days	Mon 29/11/21	Fri 10/12/21	The second
Award contract	2 days	Mon 13/12/21	Tue 14/12/21	The second secon
Execute contract	60 mons	Wed 12/01/22	Tue 18/08/26	
Catchment Management - NGO	609 days	Mon 02/05/22	Thu 29/08/24	
Develop ToR	2 wks	Mon 02/05/22	Fri 13/05/22	- K
Recruit Consultant (ICS)	82 days	Mon 16/05/22	Tue 06/09/22	
Invite EOIs	22 days	Mon 16/05/22	Tue 14/06/22	
Shortlist Entities	10 days	Wed 15/06/22	Tue 28/06/22	-
Proposal preparation (biodata, shortlisted entities)	20 days	Wed 29/06/22	Tue 26/07/22	- <u>}</u>
Evaluate proposals	15 days	Wed 23/00/22	Tuo 16/08/22	
ADB and SW Board no Objection to contracts	10 days	Wed 27/07/22	Tue 10/08/22	-
Negotista contract	E daus	Wed 21/08/22	Tue 30/08/22	
Negotiate contract	5 days	Wed 31/08/22	Tue 06/09/22	
Evente contract	2 days	Wed 31/08/22	Thu 01/09/22	
Cofemente Consolitet Cotebrant Management	26 mons	Fri 02/09/22	Thu 29/08/24	
Develop ToP	//2 days	Fri 15/07/22	IVION 30/06/25	
Develop Tok	2 wks	Fri 15/07/22	Thu 28/07/22	
kectuli Consultant (ICS)	42 days	Fri 29/07/22	Mon 26/09/22	₽
Invite EOIs	10 days	Fri 29/07/22	Thu 11/08/22	
Shortist Candidates	10 days	Fri 12/08/22	Thu 25/08/22	5
Negotiate contracts	10 days	Fri 26/08/22	Thu 08/09/22	
ADB and SW Board no Objection to contracts	10 days	Fri 09/09/22	Thu 22/09/22	
Award contract	2 days	Fri 23/09/22	Mon 26/09/22	5
Execute contract	36 mons	Tue 27/09/22	Mon 30/06/25	
atchment Management and Revegetation Works	772 days	Fri 15/07/22	Mon 30/06/25	
Prepare Bidding Document (SW)	16 wks	Fri 15/07/22	Thu 03/11/22	
Procurement (RFQ)	114 days	Fri 04/11/22	Wed 12/04/23	
ADB no-objection to bidding	10 days	Fri 04/11/22	Thu 17/11/22	
Invite bids (5 lots)	30 days	Fri 18/11/22	Thu 29/12/22	
Bid evaluation	20 days	Fri 30/12/22	Thu 26/01/23	L L L L L L L L L L L L L L L L L L L
SW Board and ADB no-object to award contract	10 days	Fri 27/01/23	Thu 09/02/23	L L L L L L L L L L L L L L L L L L L
Issue Letter of Acceptance(s)	4 days	Fri 10/02/23	Wed 15/02/23	E Contraction of the second seco
Sign Contracts	20 days	Thu 16/03/23	Wed 12/04/23	
Execute works	28.9 mons	5 Thu 13/04/23	Mon 30/06/25	
atershed Hydrological and land use mapping	527 days	Wed 01/09/21	Thu 07/09/23	(
Develop ToR	2 wks	Wed 01/09/21	Tue 14/09/21	
Procurement (SSS)	37 days	Wed 15/09/21	Thu 04/11/21	m
Prepare proposal (biodata)	3 wks	Wed 15/09/21	Tue 05/10/21	
Evaluate proposal	2 wks	Wed 06/10/21	Tue 19/10/21	
Issue Letter of Acceptance(s)	2 days	Wed 20/10/21	Thu 21/10/21	
Sign Contract	10 days	Fri 22/10/21	Thu 04/11/21	K
	Negatate contracts ADB and SWBoard no Objection to contracts Award contract Execute contract Project Support Specialist Develop ToR Recruit Consultant (ICS) Invite EOIs Shortlist Candidates Negotiate contracts Award contract Execute contract ADB and SW Board no Objection to contracts Award contract Execute contract Catchment Management - NGO Develop ToR Recruit Consultant (ICS) Invite EOIs Shortlist Entities Proposal preparation (bidata, shortlisted entities) Evaluate proposals. ADB and SW Board no Objection to contracts Negotiate contract Award contract Evaluate contract Award contract Award contract ADB and SW Board no Objection to contracts Award contract Execute contract Abard SW Board no Objection to contracts Award contract Execute contract ADB and SW Board no Objection to contracts	Negotiate contracts10 daysADB and SW Board no Objection to contracts10 daysAward contract48 monsProject Support Specialist1272 daysDevelop ToR22 daysInvite EOIs10 daysNegotiate contract10 daysNegotiate contracts10 daysAbd and SW Board no Objection to contracts10 daysADB and SW Board no Objection to contracts10 daysADB and SW Board no Objection to contracts10 daysADB and SW Board no Objection to contracts10 daysCatchment Management - NGO609 daysDevelop ToR22 daysDevelop ToR22 daysDevelop ToR22 daysShortlist Entities10 daysProposal preparation (biodata, shortlisted entities)20 daysProposal preparation (biodata, shortlisted entities)20 daysAbard SW Board no Objection to contracts10 daysNegotiate contract2 daysEvaluate proposals10 daysAbard SW Board no Objection to contracts10 daysNegotiate contract2 daysEvaluate contract2 daysDevelop ToR2 wksRecruit Consultant (ICS)20 daysInvite EOIs10 daysNegotiate contract2 daysShortlist Candidates10 daysNegotiate contract2 daysShortlist Candidates10 daysAward contract2 daysAbard Candidates10 daysAbard Candidates10 daysAbard Candidates<	Negatiate contracts10 daysTue 27/07/21ADB and SW Board no Objection to contracts10 daysTue 10/08/21Award contract2 daysTue 24/08/21Execute contract48 monsThu 09/09/21Project Support Specialist1272 daysMon 04/10/21Develop ToR2 wksMon 04/10/21Recruit Consultart (ICS)42 daysMon 18/10/21Invite EOIs10 daysMon 18/10/21Shortilt Candidates10 daysMon 15/11/21ADB and SW Board no Objection to contracts10 daysMon 13/11/21AWard contract2 daysMon 12/01/22Execute contract60 monsWed 12/01/22Develop ToR2 wksMon 02/05/22Recruit Consultart (ICS)82 daysMon 16/05/22Develop ToR2 wksMon 02/05/22Recruit Consultart (ICS)82 daysMon 16/05/22Invite EOIs20 daysWed 15/06/22Proposal preparation (biodata, shortisted entities)20 daysWed 27/07/22ADB and SW Board no Objection to contracts10 daysWed 11/08/22Negotiate contract2 daysWed 31/08/22Award contract2 daysWed 31/08/22Award contract2 daysWed 31/08/22Award contract2 daysFri 12/07/22Evecute contract2 daysFri 12/07/22Aber and and No Baye Fri 12/08/22Xward contract2 daysAward contract2 daysFri 12/07/22Award contract2 daysFri 12/07/22	Negatiate contracts 10 days Tue 27/07/21 Mon 23/08/21 AVB and SW Board no Objection to contracts 10 days Tue 24/08/21 Wed 25/08/21 Execute contract 2 days Tue 24/08/21 Wed 25/08/21 Execute contract 2 days Mon 04/10/21 Fir 18/08/26 Develop ToR 2 wks Mon 04/10/21 Fir 18/10/21 Rentil Consultart (ICS) 42 days Mon 18/10/21 Fir 12/11/21 Invite EOIs 10 days Mon 19/11/21 Fir 12/11/21 ADB and SW Board no Objection to contracts 10 days Mon 13/11/21 Fir 12/11/21 ADB and SW Board no Objection to contracts 10 days Mon 20/51/22 Tue 18/08/26 Catchmert Management - NGO 609 days Mon 20/51/22 Tue 18/08/26 Catchmert Management - NGO 82 days Mon 16/07/22 Tue 18/08/26 Catchmert Management - NGO 82 days Mon 16/07/22 Tue 18/08/26 Proposal preparation (blodata, shortisted entities) 20 days Mon 16/07/22 Tue 24/07/22 Ivite EOIs 20 days Wed 27/07/22 Tue 26

		ı	JRBAN WAT	ER SUPPLY	AND SANITATION PROJECT
				Implementa	tion Program
D	Task Name	Duration	Start	Finish	2019 2020 2021 2022 2023 2024 2025 2026 2027 1 2 3 4 1
296	Execute works	24 mons	Fri 05/11/21	Thu 07/09/23	
297	Develop Paid Ecosystem Services Contracts	821 days	Thu 21/10/21	Thu 12/12/24	
298	Develop ToR	4 wks	Thu 21/10/21	Wed 17/11/21	
299	Recruit Consultant (QCBS)	81 days	Thu 18/11/21	Thu 10/03/22	
300	Invite EOIs	22 days	Thu 18/11/21	Fri 17/12/21	
301	Shortlist Entities	10 days	Mon 20/12/21	Fri 31/12/21	N. Contraction of the second se
302	Proposal preparation (biodata, shortlisted entities)	22 days	Mon 03/01/22	Tue 01/02/22	
303	Evaluate proposals.	10 days	Wed 02/02/22	Tue 15/02/22	
304	ADB and SW Board no Objection to contracts	10 days	Wed 16/02/22	Tue 01/03/22	5. C
305	Negotiate contract	5 days	Wed 02/03/22	Tue 08/03/22	
306	Award contract	2 days	Wed 09/03/22	Thu 10/03/22	
307	Execute contract	36 mons	Fri 11/03/22	Thu 12/12/24	

Revision date: Wed 08/09/21

III. PROJECT MANAGEMENT ARRANGEMENTS

A. Project Implementation Organizations: Roles and Responsibilities

Table 3: Responsibilities of the Project Implementation Organizations

Management Roles and Responsibilities
 Overall delivery of the project and reporting to Government and donors.
(ii) Ensure compliance with financing agreement covenants.
(iii) Coordinate with Solomon Islands Water Authority (SIWA) in the
preparation of withdrawal applications and submission to ADB.
(iv) Maintain separate project accounts, have all project accounts
(v) Ensure the compilation and presentation of all reporting
requirements under the project
(vi) Ensure interagency coordination.
(i) Day-to-day implementation of the project.
(ii) Prepare overall project implementation plan and consolidated annual work plan.
(iii) Prepare consultant request for proposals to comply with ADB
requirements, evaluate proposals, and award, administer contracts.
(iv) Prepare loan and grant withdrawal applications.
(v) Maintain project accounts and records.
(vi) Serve as the secretariat for the PSC.
(vii) Prepare reports as required during the implementation of the
project including progress reports (at least quarterly), including
(viji) Prepare the project completion report to the government and
ADB.
 (ix) Ensure compliance with gender and safeguards requirements, including implementation of the GAP.
(x) Update the project's resettlement plan following completion of
detailed design of project components.
(xi) Update the project's environmental monitoring plan following
completion of detailed design of project components.
(XII) Carry out environmental assessments.
(i) Provide strategic direction and guidance for the project.
(iii) Advise government on any issues raised or concerns and
propose remedial actions.

⁶ Project Management Unit (PMU) located within SIWA comprising 17 staff: Head of PMU, Strategic Project Management Advisor, Strategic Manager, Project Manager (3 No.), Lands Officer, Project Engineer (3 No.), Lands Assistant, WASH Specialist, WASH Officer, Environmental Specialist, Monitoring and Evaluation Specialist, Social Safeguards & Gender Specialist.

⁷ The project steering committee comprises: (i) SIWA Board Chairperson – Chair; (ii) PS of the Ministry of Finance and Treasury; (iii) PS of the Ministry of Mines, Energy and Rural Electrification; (iv) PS of the Ministry of Development Planning and Aid Coordination; (v) PS of the Ministry of Environment, Climate Change, Disaster Management and Meteorology; (vi) Director for RWASH, Ministry of Health and Medical Services; (vii) General Secretary for Development Exchange Services; (viii) General Secretary National Council of Women; (ix) Clerk to the Honiara City Council; (x) Provincial Secretary for Guadalcanal Province; (xi) Nominee from the Board of the Solomon Islands Chamber of Commerce (SICCI); and (xii) SIWA General Manager (Non-voting). The PSC meets quarterly.

Project Implementation	Management Balas and Baspansibilities					
Organizations						
Implementing agency - SIWA	(i) Responsible for the overall implementation of the project					
	including the day-to-day project activities and administration of					
	the project by the PMU including management of project					
	advance accounts.					
	(ii) Ensure compliance with the provisions of the Loan, Grant and					
	Project Agreements and government policies and guidelines.					
	(iii) Procure, oversee, and administer contracts.					
	(iv) Engage the community public awareness activities.					
ADB	Monitor and review overall implementation in consultation with the					
	MOFT and SIWA including: PRF and project implementation					
	schedule; actions required with reference to the summary poverty					
	reduction & social strategy, gender action plan and environment					
	management plan: timeliness of budgetary allocations and					
	counterpart funding: project expenditures progress with procurement					
	and disbursement, compliance with loan and grant covenants; and					
	likelihood of attaining PPF and project outputs and outcome					

ADB = Asian Development Bank, GAP = gender action plan, MOFT = Ministry of Finance and Treasury, PMU = project management unit, PRF = project readiness financing, PSC = project steering committee, SIWA = Solomon Islands Water Authority.

Source: Asian Development Bank.

B. Key Persons Involved in Implementation

Executing Agency

Email address: <u>mdentana@mof.gov.s</u> Office Address: P.O Box 26 Honiara Solomon Islands	istry of Finance and Treasury	Officer's Name: Mr. Mckinnie P. Dentana Position: Permanent Secretary Telephone: +677 21074 Email address: <u>mdentana@mof.gov.sb</u> Office Address: P.O Box 26 Honiara Solomon Islands
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Asian Development Bank

Urban Development and Water Division (PAUW)	Staff Name: Ms. Jingmin Huang Position: Director Telephone No.: +632 8632 4444 Email address: jhuang@adb.org
Mission Leader	Staff Name: Mr. Stephen Blaik Position: Principal Urban Development Specialist Telephone No.: +632 8632 6127 Email address: <u>sblaik@adb.org</u>



C. Project Organization Structure

ADB = Asian Development Bank, EU = European Union, GEF = Global Environment Facility, PMU = project management unit, SW = Solomon Water, WB = World Bank.

IV. COSTS AND FINANCING

9. The overall project is estimated to cost \$98.06 million. The cost estimate comprises: (i) water supply infrastructure investments–\$51.01 million, (ii) sanitation supply infrastructure investments–\$19.16 million, (iii) hygiene awareness and education activities–\$2.36 million, (iv) SIWA institutional strengthening and project management–\$8.56 million, (v) strengthening management of Honiara's watershed area–\$3.78 million, (vi) contingencies–\$12.02 million, and (vii) financing charges–\$1.48 million.⁸ The government will finance taxes and duties, estimated at \$12.13 million, through waivers. The additional financing will finance the expenditures relating to: (i) promoting resilient and effective management of Honiara's watershed area–\$3.78 million, for the expenditures relating to: (i) promoting resilient and effective management of Honiara's watershed area–\$3.78 million, for the expenditures relating to: (i) promoting resilient and effective management of Honiara's watershed area–\$3.78 million, for the expenditures relating to: (i) promoting resilient and effective management of Honiara's watershed area–\$3.78 million, and (ii) improving water quality in Kongulai Spring through reduction of high turbidity–\$1.48 million (footnote 7).

A. Cost Estimates Preparation and Revisions

10. The updated cost estimates are based on estimates provided by SIWA. SIWA will update and refine the cost estimates continuously throughout the implementation of the project based on detailed engineering design and actual contract awards.

⁸ Includes taxes and duties.

B. Key Assumptions

- 11. The following key assumptions underpin the cost estimates and financing plan:
 - (i) Price contingencies based on expected cumulative inflation over the implementation period are as follows:

Table 4: Escalation Rates for Price Contingency Calculation										
Item	2021	2022	2023	2024	2025	2026	Average			
Foreign rate of price inflation	1.6%	1.7%	1.7%	1.8%	1.8%	1.8%	1.7%			
Domestic rate of price inflation	2.5%	3.5%	3.1%	3.2%	3.0%	3.0%	3.1%			

Source: Asian Development Bank.

C. Summary Cost Estimates

Table 5: Summary Cost Estimates

(\$ million)^a

(⊅ III	lillori)~		
Item	Current Amount ^b	Additional Financing	Total
A. Base Cost ^b			
 Output 1 - Continuous, safe, and climate resilient urban water supply ensured. 	53.16	1.46	54.62
 Output 2 - Urban sanitation services are effective, efficient, and safe in GHA 	20.58	0.00	20.58
3. Output 3 - Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	2.53	0.00	2.53
 Output 4 - SIWA is financially and technically sustainable 	3.48	0.00	3.48
 Output 5 - Management of Honiara's drinking water source area strengthened to build resilience to climate change 	0.00	3.78	3.78
Subtotal (A)	79.74	5.25	84.99
B. Contingencies ^c	12.01	0.00	12.01
C. Financing Charges During Implementation ^d	1.06	0.00	1.06
Total (A+B+C)	92.81	5.25	98.06

GHA = greater Honiara area, SIWA = Solomon Islands Water Authority.

Note: Numbers may not sum precisely because of rounding.

^a Including taxes and duties of US\$11.47 million for the ongoing project and \$0.66 million for the additional financing which will both be financed by Government of Solomon Islands through exemptions of taxes and duties.

^b In mid-2021 prices as of 19 July 2021.

^c Physical and price contingencies, and a provision for exchange rate fluctuation, are included in the ongoing project. It will cover contingencies for overall project.

^d Includes interest and EU grant administration fee (€400,000)

D. Detailed Cost Estimates by Expenditure Category

	Table 6: Summary Cost Estimates ^a												
Item		Curren	t Amount	Additiona	I Financing								
	-	\$'000	% of Total	\$'000	% of Total								
			Base Cost		Base Cost								
A. Inv	vestment Costs ^a												
1.	Civil works, materials and												
	equipment												
	Output 1	42,475	53.3	1,260	24.0								
	Output 2	15,683	19.7	-	0.0								
	Output 5	-	0.0	1,364	26.0								
	Sub-total	58,157	72.9	2,624	50.0								
2.	Consultancy Services	10,002	12.5	1,963	37.4								
3.	Project visibility	113	0.1	-	0.0								
4.	Taxes and Duties ^b	11,473	14.4	660	12.6								
Subto	otal (A): Total Base Cost	79,746	100.0%	5,247	100.0%								
B. Co	ontingencies ^c												
1.	Physical	7,693	9.6	-	0.0								
2.	Price	4,322	5.4	-	0.0								
Subto	otal (B)	12,015	15.1%	-	0.0%								
C. FC	DI d	1,062	1.3%	-	0.0%								
Total	Project Cost (A+B+C)	92,814	116.4%	5,247	100.0%								

FCDI = financing charges during implementation.

Note: Figures may not sum due to rounding.

^a In mid-2021 prices as of 19 July 2021.

^b The government will finance taxes and duties through exemptions.

^c Physical and price contingencies, and a provision for exchange rate fluctuation, are included. No allocation is made for contingencies under the additional financing.

^d Includes capitalized interest and the EU grant administration fee (€400,000).

Source: Asian Development Bank.

E. Allocation and Withdrawal of Loan and Grant Proceeds

TABLE 7A: Allocation and Withdrawal of ADB Loan Proceeds

	CATEGORY	1		
		Total Amount ADB Fin (\$	Percentage and Basis for Withdrawal from	
Number	Item	Category	Subcategory	the Loan Account
1	Goods and Works	23,593,000		
1A	Output 1 - All activities except Kongulai Water treatment Plant and associated works**		10,942,000	61% of total expenditures claimed*
1B	Output 1 - Kongulai Water treatment Plant and associated works***		12,651,000	64.5% of total expenditures claimed*
2	Interest Charge	610,000		100% of amounts due.
3	Unallocated	3,797,000		
	Total	28,000,000		

ADB = Asian Development Bank.

* Exclusive of local taxes and duties within the territory of the Borrower.

** Financing for this category will jointly finance expenditures with the corresponding categories under the ADB grant and the WB loan.

*** Financing for this category will jointly finance expenditures with the corresponding categories under the ADB grant, the GEF grant, and the WB loan.

	CATEGORY			
		Total Amount Allo Financ (\$)	ocated for ADB	Percentage and Basis for Withdrawal from
Number	Item	Category	Subcategory	the Grant Account
1	Goods and Works	5,221,000		
1A1	Output 1 - All activities except Kongulai Water treatment Plant and associated works**		935,000	5.2.% of total expenditures claimed*
1A2	Output 1 - Kongulai Water treatment Plant and associated works***		760,000	3.9.% of total expenditures claimed*
1B	Output 2****		3,526,000	60.4% of total expenditures claimed*
2	Consulting services	3,501,000		100% of total expenditures claimed*
3	Unallocated	278,000		
	Total	9,000,000		

TABLE 7B: Allocation and Withdrawal of ADB Grant Proceeds

ADB = Asian Development Bank.

* Exclusive of local taxes and duties within the territory of the Recipient.

** Financing for this category will jointly finance expenditures with the corresponding categories under the ADB loan and the WB loan.

*** Financing for this category will jointly finance expenditures with the corresponding categories under the ADB loan, the GEF grant, and the WB loan.

**** Financing for this category will jointly finance expenditures with the corresponding categories under the WB loan. Source: Asian Development Bank.

TABLE 7C: Allocation and Withdrawal of EU Grant Proceeds

	CATEGORY			
		Total Amou for EU F (Int Allocated Financing \$)	Percentage and Basis for Withdrawal from the Grant Account
Number	Item	Category	Subcategory	
1	Goods and Works	16,782,000		
1A	Output 1 **		6,187,000	100% of total expenditures claimed*
1B	Output 2 ***		10,595,000	100% of total expenditures claimed*
2	Consulting services ****	3,000,000		100% of total expenditures claimed*
3	EU project visibility	113,000		100% of total expenditures claimed*
4	Grant Management Fee	452,000		100% of amounts due.
	Total	20,347,000		

EU = European Union.

* Exclusive of local taxes and duties within the territory of the Recipient.

*** Financing for this category may be withdrawn once the amounts for the corresponding categories under the ADB grant and the WB loan has been fully utilized.

**** Financing for this category may be withdrawn once the amounts for the corresponding categories under the ADB grant has been fully utilized.

^{**} Financing for this category may be withdrawn once the amounts for the corresponding categories under the ADB loan, the ADB grant, and World Bank loan have been fully utilized.

	CATEGORY			
		Total Amount GEF Fin	Allocated for ancing	Percentage and Basis
		(\$)	for Withdrawal from the
Number	Item	Category	Subcategory	Grant Account
1	Goods and Works	2,624,000		
1A	Output 1 - Kongulai Water treatment		1,260,000	6.4% of total expenditures
	Plant and associated works **			claimed*
1B	Output 5		1,364,000	100% of total expenditures claimed*
2	Consulting services ***	1,963,156		100% of total expenditures claimed*
	Total	4,587,156		

TABLE 7D: Allocation and Withdrawal of GEF Grant Proceeds

GEF = Global Environment Facility.

 * Exclusive of local taxes and duties within the territory of the Recipient.
 ** Financing for this category will only apply to eligible expenditures for the Kongulai water treatment plant and associated works and will jointly finance expenditures with the corresponding categories under the ADB loan, the ADB grant, and the WB loan.

*** Financing for this category will only apply to eligible expenditures for Output 5.

F. Detailed Cost Estimates by Financier

					Table	8: Det	ailed Co	st Estir	nates by	Financ	ier					
		Cost	ADB C	COL	ADB	ADF	El	J	WE	3	GE	F	SV	1	SI	G
lte	em	\$'000	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%
Α.	Investment Costs ^a															
1.	Civil works, materials and															
	equipment															
	Output 1	24,135	10,942 ⁱ	45.3	935 ^j	3.9	6,187	25.6	6,070	25.2	-	0.0	-	0.0	-	0.0
	(exc. Kongulai WTP) ^b															
	Output 1	19,600	12,651	64.5	760	3.9	-	0.0	4,930	25.2	1,260	6.4	-	0.0	-	0.0
	(Kongulai WTP only) ^c															
	Output 2 ^d	16,431	-	0.0	3,526	21.5	10,595	64.5	2,310	14.1	-	0.0	-	0.0	-	0.0
	Output 5	1,364	-	0.0	-	0.0	-	0.0	-	0.0	1,364	100.0	-	0.0	-	0.0
	Sub-total	61,531	23,593		5,221		16,782		13,310		2,624	4.3	-		-	
2.	Consultancy Services ^e	11,213	-	0.0	3,501 ^k	31.2	3,000	26.8	-	0.0	1,963	17.5	2,750	24.5	-	0.0
3.	Project visibility	113	-	0.0	-	0.0	113	100.0	-	0.0		0.0	-	0.0	-	0.0
4.	Taxes and Duties ^f	12,128	-	0.0	-	0.0	-	0.0	-	0.0		0.0	-	0.0	12,128	100.0
Su	btotal (A): Total Base	84,985	23,593	27.8	8,722	10.3	19,895	23.4	13,310	15.7	4,587	5.4	2,750	3.2	12,128	14.3
Со	st															
Β.	Contingencies ^g															
1.	Physical	7,693	2,431	31.6	178	2.3	-	0.0	1,082	14.1	-	0.0	4,002	52.0	0	0.0
2.	Price	4,322	1,366	31.6	100	2.3	-	0.0	608	14.1	-	0.0	2,248	52.0	0	0.0
Su	btotal (B)	12,015	3,797	31.6	278	2.3	-	0.0	1,690	14.1	-	0.0	6,250	52.0	-	0.0
C.	FCDI ^h	1,062	610	57.4	0	0.0	452	42.6	0	0.0	0	0.0	0	0.0	0	0.0
То	tal Project Cost (A+B+C)	98,062	28,000		9,000		20,347		15,000		4,587		9,000		12,128	
%	of Total Project Costs	100.0		28.6		9.2		20.7		15.3				9.2		12.4

ADB = Asian Development Bank, ADF = Asian Development Fund, COL = concessional ordinary capital resources lending, EU = European Union, FCDI = financing charges during implementation, GEF = Global Environment Facility, SIG = Solomon Islands Government, SW = Solomon Water, WB = World Bank, WTP = water treatment plant.

^a In mid-2021 prices as of 19 July 2021.

^b ADB COL, ADB ADF, and WB to be front loaded jointly for all activities under Output 1 except for the Kongulai WTP.

[°] The GEF grant will finance eligible costs for : (i) the Kongulai Water Treatment Plant and associated works under Output 1; and (ii) Output 5 activities.

^d ADB ADF, and WB to be front loaded jointly for all activities under Output 2.

^e ADB ADF to be front loaded for consulting services and the GEF grant to finance eligible expenditures for Output 5.

^f SIG will finance taxes and duties through exemptions.

^g Physical and price contingencies, and a provision for exchange rate fluctuation, are included. `

^h Includes capitalized interest and EU grant administration fee (€400,000).

i Includes the amount of \$3,011,055.49, which has been disbursed on "65 % of net of tax" (as of 19 July 2021).

j Includes the amount of \$229,786.12, which has been disbursed on "4.7 % of net of tax" (as of 19 July 2021).

^k Includes the amount of \$1,030,332.84, which has been disbursed on "97.2 % of net of tax" (as of 19 July 2021).

G. Detailed Cost Estimates by Outputs and/or Components

				Table 9:	Detail	ed Cost E	Estimate	es by Out	puts						
						(\$ '00)0)								
		ADB	COL	ADB	ADF	EL	J	WB	WB			SW		SIG ^e	
Item	Cost	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%	\$'000	%
A. Investment Costs ^a															
Output 1 (ex Kongulai) ^b	28,149	10,942	38.9	935	3.3	6,187	22.0	6,070	21.6	-	0.0	-	0.0	4,014	14.3%
Output 1 (Kongulai) ^c	22,860	12,651	55.3	760	3.3	-	0.0	4,930	21.6	1,260	5.5	-	0.0	3,260	14.3%
Output 2 ^d	19,164	-	0.0	3,526	18.4	10,595	55.3	2,310	12.1		0.0	-	0.0	2,733	14.3%
Output 3	2,360	-	0.0	1,000	42.4	1,000	42.4	-	0.0		0.0	-	0.0	360	15.3%
Output 4	3,246	-	0.0	501	15.4	-	0.0	-	0.0		0.0	2,250	69.3	495	15.3%
Output 5	3,783	-	0.0	-	0.0	-	0.0	-	0.0	3,327	88.0	-	0.0	456	12.0%
Design and Supervision	5,310	-	0.0	2,000	37.7	2,000	37.7	-	0.0		0.0	500	9.4	810	15.3%
EU project visibility	113.0	-	0.0	-	0.0	113.0	100.0	-	0.0		0.0	-	0.0	-	0.0%
Subtotal (A)	84,985	23,593	27.8	8,722	10.3	19,895	23.4	13,310	15.7	4,587	5.4	2,750	3.2	12,128	14.3%
B. Contingencies ^f	12,015	3,797	31.6	278	2.3	-	0.0	1,690	14.1	0.0	0.0	6,250	52.0	-	0.0%
C. FCDI ^g	1,062	610	57.4	-	0.0	452.2	42.6	-	0.0	-	0.0	-	0.0	-	0.0%
Total Project Cost	98,062	28,000	28.6	9,000	9.2	20,347	20.7	15,000	15.3	4,587	16.3	9,000	9.2	12,128	12.4%
(A+B+C)															

ADB = Asian Development Bank, ADF = Asian Development Fund, COL = concessional ordinary capital resources lending, ex Kongulai = Output 1 activities excluding Kongulai Water Treatment Plant; EU = European Union, FCDI = financing charges during implementation, Kongulai = Output 1 for Kongulai Water Treatment Plant only, SIG = Solomon Islands Government, SW = Solomon Water, WB = World Bank.

^a In mid-2021 prices as of 19 July 2021.

^b ADB COL, ADB ADF, and WB to be front loaded jointly for all activities under Output 1 except for the Kongulai WTP.

^c The GEF grant will be front loaded and may only finance eligible costs for : (i) the Kongulai Water Treatment Plant and associated works under Output 1; and (ii) Output 5 activities.

^d ADB ADF, and WB to be front loaded jointly for all activities under Output 2.

^e SIG will finance taxes and duties through exemptions.

^f Physical and price contingencies, and a provision for exchange rate fluctuation, are included. No allocation is made for contingencies under the additional financing.

⁹ Includes capitalized interest and EU grant administration fee (€400,000).

Н. **Detailed Cost Estimates by Year**

	(\$ '000)											
		Total										
lter	n	Cost	2020	2021	2022	2023	2024	2025	2026	2027		
Α.	Investment Costs ^a	l										
	Output 1	23,593	2,723	1,887	5,426	4,719	4,719	2,359	1,288	-		
Sul	ototal (A)	23,593	23,593	2,723	1,887	5,426	4,719	4,719	2,359	1,288		
В.	Contingencies ^b	3,797	3,797	-	-	-	-	949	949	949		
С.	FCDI ^c	610	8	21	50	78	90	110	120	133		
Tot	al Project Cost	28,000	2,731	28,000	2,731	1,908	5,476	4,797	5,758	3,419		
(A+	·B+C)											
%	of Total Cost	100	9.8	100	9.8	6.8	19.6	17.1	20.6	12.2		

Table 10A: Disbursement Projections - ADB Loan

ADB = Asian Development Bank, FCDI = financial charges during implementation.

^a In mid-2021 prices as of 19 July 2021.

^b Physical and price contingencies, and a provision for exchange rate fluctuation, are included.

^c Includes capitalized interest. Source: Asian Development Bank.

Table 10B: Disbursement Projections - ADB Grant

(\$ '000)								
Total								
Cost	2020	2021	2022	2023	2024	2025	2026	2027
1,695	223	136	390	339	339	169	65	-
3,526	-	-	35	705	1,058	1,058	494	176
1,000	-	200	150	150	150	150	150	50
501	-	100	100	100	50	50	50	50
2,000	714	400	400	400	86	-	-	-
8,722	938	836	1,075	1,694	1,683	1,427	759	276
278	-	-	-	-	69	69	69	69
9,000	938	836	1,075	1,694	1,752	1,497	828	346
100%	10.4%	9.3%	11.9%	18.8%	19.5%	16.6%	9.2%	3.8%
	Total Cost 1,695 3,526 1,000 501 2,000 8,722 278 9,000 100%	Total Cost 2020 1,695 223 3,526 - 1,000 - 501 - 2,000 714 8,722 938 278 - 9,000 938 100% 10.4%	(\$ '00 Total 2020 2021 1,695 223 136 3,526 - - 1,000 - 200 501 - 100 2,000 714 400 8,722 938 836 278 - - 9,000 938 836 100% 10.4% 9.3%	Total Cost 2020 2021 2022 1,695 223 136 390 3,526 - - 35 1,000 - 200 150 501 - 100 100 2,000 714 400 400 8,722 938 836 1,075 278 - - - 9,000 938 836 1,075 100% 10.4% 9.3% 11.9%	Total Cost 2020 2021 2022 2023 1,695 223 136 390 339 3,526 - - 35 705 1,000 - 200 150 150 501 - 100 100 200 2,000 714 400 400 400 8,722 938 836 1,075 1,694 278 - - - - 9,000 938 836 1,075 1,694 100% 10.4% 9.3% 11.9% 18.8%	Total Cost 2020 2021 2022 2023 2024 1,695 223 136 390 339 339 3,526 - - 35 705 1,058 1,000 - 200 150 150 150 501 - 100 100 100 50 2,000 714 400 400 400 86 8,722 938 836 1,075 1,694 1,683 278 - - - 69 9,000 938 836 1,075 1,694 1,752 100% 10.4% 9.3% 11.9% 18.8% 19.5%	Total Cost 2020 2021 2022 2023 2024 2025 1,695 223 136 390 339 339 169 3,526 - - 35 705 1,058 1,058 1,000 - 200 150 150 150 150 501 - 100 100 100 50 50 2,000 714 400 400 400 86 - 8,722 938 836 1,075 1,694 1,683 1,427 278 - - - 69 69 9,000 938 836 1,075 1,694 1,752 1,497 100% 10.4% 9.3% 11.9% 18.8% 19.5% 16.6%	Total Cost 2020 2021 2022 2023 2024 2025 2026 1,695 223 136 390 339 339 169 65 3,526 - - 35 705 1,058 1,058 494 1,000 - 200 150 150 150 150 501 - 100 100 100 50 50 2,000 714 400 400 400 86 - - 8,722 938 836 1,075 1,694 1,683 1,427 759 278 - - - 69 69 69 9,000 938 836 1,075 1,694 1,752 1,497 828 100% 10.4% 9.3% 11.9% 18.8% 19.5% 16.6% 9.2%

ADB = Asian Development Bank.

^a In mid-2021 prices as of 19 July 2021.

^{b.} Physical and price contingencies, and a provision for exchange rate fluctuation, are included.

	(\$ '000)									
Iter	m	Total								
		Cost	2020	2021	2022	2023	2024	2025	2026	2027
Α.	Investment Costs ^a									
	Output 1	6,187		-	1,423	1,750	1,777	619	742	309
	Output 2	10,595	-	-	106	3,708	3,179	3,179	1,483	530
	Output 3	1,000	-	-	150	250	250	150	150	50
	Consulting	2,000		-	600	500	300	300	200	100
	Services									
	EU project	113	-	-	19	19	19	19	19	18
	visibility									
Su	btotal (A)	19,895	-	-	2,298	6,227	5,525	4,266	2,595	1,007
В.	FCDI ^b	452	-	-	-	-	-	-	-	452
To	tal Project Cost (A+B)	20,347	-	-	2,298	6,227	5,525	4,266	2,595	1,459
%	of Total Cost	100	0.0	0.0	11.3	30.6	27.2	21.0	12.8	7.2

Table 10C: Disbursement Projections - EU Grant

EU = European Union, FCDI = financial charges during implementation. ^a In mid-2021 prices as of 19 July 2021. ^b Includes EU grant administration fee (€400,000)

Source: Asian Development Bank.

Table 10D: Disbursement Projections - GEF Grant

(\$ '000)									
	Total								
Item	Cost	2020	2021	2022	2023	2024	2025	2026	2027
A. Investment Costs ^a									
Output 1	1,260	-	-	189	441	630	-	-	-
Output 5	3,327	-	-	333	665	665	665	665	333
Total Project Cost (A)	4,587	-	-	522	1,106	1,295	665	665	333
% of Total Cost	100	0.0	0.0	11.4	24.1	28.2	14.5	14.5	7.3

GEF = Global Environment Facility. ^a In mid-2021 prices as of 19 July 2021.

I. Contract and Disbursement S-Curve



Table 11: Project Annual Contract Awards and Disbursements

Year	Cumulative Contract Awards (\$ million)	Cumulative Disbursements (\$ million)
2020	3.67	6.56
2021	6.41	31.30
2022	15.24	44.77
2023	27.59	60.02
2024	41.92	60.54
2025	51.76	60.54
2026	58.21	61.93
2027	61.93	61.93

J. Fund Flow Diagram



Source: Asian Development Bank.

V. FINANCIAL MANAGEMENT

A. Financial Management Assessment

12. The financial management assessment (FMA) was conducted in December 2018 (2018 FMA) and updated in June 2021 in accordance with ADB's Guidelines for the Financial

Management and Analysis of Projects and the Financial Due Diligence. The FMA considered the capacity of SIG and SIWA, including funds-flow arrangements, staffing, accounting and financial reporting systems, financial information systems, and internal and external auditing arrangements. Based on the assessment, the financial management risk is assessed as substantial.

13. **Ministry of Finance and Treasury (MOFT)**. The FMA prepared in 2020 for the Increased Domestic Resource Mobilization Program (2020 FMA) rated the pre-mitigation financial management risk of MOFT as substantial. The following financial management weaknesses were cited as justifications for this rating:

- Planning and budgeting the annual budget is approved at a detailed level that is difficult to accurately prepare, and subsequently requires many virements.
- Funds flow warrants are issued for the entire amount of the approved budget at the start of the year, which is not linked to cash flow forecasts.
- Accounting and internal control a number of issues and shortcomings exist, including a lack of proper expenditure controls, bank reconciliation not conducted regularly and systematically, and wholly inadequate asset management.
- Internal audit the internal auditors do not have formal internal audit qualifications.
- Financial reporting the basis for preparing monthly financial reports is not clear.

14. However, the 2020 FMA noted the following points which relating MOFT's capacity as an EA for the UWSSSP:

- the MOFT finance and accounts unit is adequately staffed.
- the work and functioning of the MOFT's Internal Audit Division (IAD) is based on a charter, regulation and manual, and with a conceptual framework using international standards.
- The information systems applied by the MOFT, including for budgeting, accounting, payroll management and financial reporting, are well-functioning.
- The external audit of the annual financial statements of ADB-financed project is undertaken by private firms and based on international standards on auditing (ISA).
- Several relevant accountability measures to ensure the integrity of staff are in place, including to avoid and manage potential issues of conflict of interest.

15. Given that the day-to-day involvement of MOFT in the project is limited and that most contractual, administrative and financial management functions are the purview of Solomon Water, this FMA confirms the pre-mitigation financial management risk rating of MOFT as **low**.

16. **Solomon Islands Water Authority (SIWA).** The 2018 FMA assessed the pre-mitigation risk of Solomon Water as substantial, principally because of lack of experience with ADB's disbursement guidelines and procedures, an accounting system that required modification for project-specific accounting, budgeting, auditing, and reporting requirements, and lack of prior experience as an implementing agency with responsibilities for loan and grant disbursements. Training in ADB disbursement and financial management procedures has now been delivered to key staff. Solomon Water has so far successfully used manual methods for project accounting and reporting and will continue to use manual methods as a back-up and to ensure continuity as it transitions to Pronto ERP. On this basis, this FMA re-assesses the risk to **moderate.** Table 12 summarizes the 2018 financial management risk assessment for Solomon Water and this update.

Risk Category/Description	Risk Assessn	nent	Remarks/Mitigation Measures		
	2018 FMA	2021 FMA	2018 FMA	2021 FMA	
Country-Specific Risk Upcoming national elections could impact on loan negotiations and delay project implementation, causing significant delay in the economic benefits that the project targets to deliver; a change in key government officials might also result to a change in policy direction and priorities.	High	Moderate	New government has 100 days to come up with Government Policy Statement which is a consolidation of inputs from different ministries. MOFT and Solomon Water to ensure the project is put forward or championed to newly elected government as a key priority, highlighting its adherence to the National Development Strategy, the 30 Year Strategic Plan and the 5-Year Action Plan of Solomon Water, so that the project is included in the policy statement, thus guaranteeing that the plan proceeds accordingly.	The project has received appropriate priority and focus from the government. No further mitigation measures are necessary.	
There is shortage in technical skills in Solomon Islands, such as in the area of finance. The impact is heightened by competing demands from the private sector that offers relatively better compensation packages. The inability of the EA/IA to attract adequately skilled staff may hamper efficient project implementation.	Substantial	Substantial	ADB will support the Project by strengthening its PMU through the Project Readiness Financing (PRF) for the funding of five staff. Solomon Water, as a SOE, can also offer competitive employee benefits to attract staff with adequate skills and experience on project implementation. Continued capacity building especially on local staff to enhance skills and ensure sustainability of project-related reforms.	Only one fulltime position was created in the PMU (an expatriate contract project manager). In lieu of recruiting staff to the PMU, Solomon Water's finance and administration function has been strengthened with an additional qualified person.	
Weak public financial management	Moderate	Moderate	PEFA 2012 identified areas of weakness and recommended strategies and means of strengthening public financial management. Various PFM reforms are currently being implemented. Rigorous training by MOFT of SIG line ministries on financial circulars/instructions must continue to implement the PFM reforms. MOFT is also undergoing changes in its organizational structure to create new units that would enhance its project monitoring and implementation capabilities.	No change.	

 Table 12: Financial Management Internal Control and Risk Assessment (FMICRA)

Risk Category/Description	Risk Assessn	nent	Remarks/Mitigation Measures	
	2018 FMA	2021 FMA	2018 FMA	2021 FMA
Entity-Specific Risks Work overload for Solomon Water finance unit if mainstream finance personnel will be utilized for project implementation.	Low	Low	Solomon Water/PMU will hire adequately skilled staff with sufficient project accounting experience to directly oversee the financial operations (including reporting) of the project.	Additional staff have been recruited and the finance and administration function strengthened.
Project-Specific Risks Institutional capacity: Solomon Water has not been involved in accounting and financial reporting of ADB-financed projects.	Substantial	Moderate	Existing and new staff of Solomon Water to undergo online training on ADB's procurement and disbursement processes prior to start of project implementation and regularly as part of their on-the-job training.	Staff have been trained in ADB's procurement and disbursement processes.
Overall Inherent Risk	Substantial	Moderate		
Project Risk				
Foreign Exchange Solomon Water does not have a policy as regards foreign exchange risks when entering into contracts with suppliers and contractors thus the inability to anticipate significant losses or gains from transactions using foreign-currency denomination.	Low	Low	Finance unit to record forex gains and losses and analyze impact on the company's financial performance. Determine appropriate internal policy to mitigate impact based on analysis.	Solomon Water has determined that, at present, its foreign exchange risk is minor and no explicit risk mitigation is necessary.
Implementing Entity Misunderstanding and misinterpretation of ADB's guidelines on disbursement and withdrawals of the grant proceeds.	Substantial	Moderate	Solomon Water has no prior experience as IA in ADB project implementation. On-line and on-the-job training on ADB disbursement and payment procedures using an advance account and the Statement of Expenditure (SOE) procedure will be provided before project start up (i.e., the online training) and starting Q1 2019 (i.e., the on-the-job training).	Solomon Water staff have received training and now have on-the-job experience with ADB disbursement and payment procedures.
Funds Flow PMU already established but yet to hire financial management staff that may have sufficient knowledge and understanding of ADB's	Substantial	Moderate	Existing and new financial management staff (to be hired) of Solomon Water and the PMU to undergo online training on ADB's procurement and disbursement processes prior to start of project implementation and regularly as part of	Other than a project manager, staff were recruited into Solomon Water rather than into the PMU, significantly bolstering the company's finance and administration capacity. Staff levels will be periodically reviewed by Solomon Water and ADB to

Risk Category/Description	Risk Assessm	ent	Remarks/Mitigation Measures			
	2018 FMA	2021 FMA	2018 FMA	2021 FMA		
disbursement policies and procedures.			their on-the-job training with the project consultant.	ensure that resource levels are adequate for project requirements.		
Staffing Besides the current CFO and Senior Accountant (both of which are expats), there is a shortage of local staff with analytical skills beyond regular tasks. Sustainability of efficient financial operations, at the entity and project level may not be achievable.	Substantial	Moderate	Serious efforts by Solomon Water in investing on human resources (such as training on financial management and accounting procedures) must continue so that the organization can also be operated efficiently by properly skilled local staff in the future.	The current CFO, an Australia-trained Solomon Islander holding professional accounting qualifications, was recruited in mid-2018. A financial operations team leader and an assistant accountant have also been recruited.		
Accounting Policies and Procedures Entity accounting systems do not incorporate project- specific accounting and financial reporting requirements.	Substantial	Substantial	Configure the accounting system of Solomon Water to incorporate project- specific accounting and financial reporting and monitoring requirements.	Due to the inadequacies of Solomon Water's legacy Magiq system, Manual methods are currently being used for all project accounting. Project accounting will be transferred to the Pronto ERP, however full duplication will be retained during the transition as a risk mitigation measure.		
External audit The Government has limited capacity for external audit of the project financial statements and Solomon Water's financial statements. This will likely delay the submission of the audited project and entity level financial statements which will be required by the loan and grant agreements.	Moderate	Substantial	Rigorous monitoring and resolution of MOFT and Solomon Water of any current external audit observations. For MOFT, the last audit by OAG was done in 2014. MOFT has already completed and submitted 2015 financial statements to OAG. The 2016-2017 documents are still being prepared and the MOFT has already sought approval from the Parliament as to the extension for submission for auditing purposes. A CPA was outsourced to specifically help in preparing the documents and work is expected to conclude by end of October 2018. External audits on Solomon Water has been on time in the last 3 years.	The OAG's audit of the government's annual financial statements is significantly delayed, which is seen in the 2015 financial statements (national accounts) being completed only in June 2019, i.e., 3½ years after the reporting period. The OAG issued a disclaimer audit opinion on the 2015 financial statements due to "lack of supporting documents and inadequate internal processes" of the MOFT and line ministries. The OAG also stated that there was a lack of accountability and transparency of the financial affairs of the SIG. For Solomon Water, audited project financial statements for 2019 were delivered on time.		
Internal Audit Solomon Water no longer retains an in-house internal	N.A.	Substantial	N.A.	Solomon Water will ensure that the terms of reference for the provision of internal		

Risk Category/Description	Risk Assessm	nent	Remarks/Mitigation Measures	s/Mitigation Measures		
	2018 FMA	2021 FMA	2018 FMA	2021 FMA		
audit department and will instead outsource this function. Although outsourcing is a valid approach for a small company, there is a risk that internal audit findings are not given appropriate attention and follow-up.				audit services will include a full review of follow-up activities undertaken in relation to previous audit findings and that this review will be presented to the audit committee for action as necessary.		
Management Information systems Lack of proper record keeping/filing system at the MOFT causes lack of an audit trail for financial transactions (this became subject of the OAG Audit Report in 2014).	Substantial	Substantial	Rigorous training on financial management and accounting procedures to upgrade staff capacity in MOFT; moreover, MOFT to fill vacant positions in the Financial Management Services (anticipated to be achieved by end of 2018).	MOFT's information systems applied for budgeting, accounting, payroll management and financial reporting are well-functioning. However, a number of issues and shortcomings exist, including a lack of proper expenditure controls, bank reconciliation not conducted regularly and systematically, and wholly inadequate asset management.		
Overall Project Risk	Substantial	Moderate				
Overall (Combined) Risk	Substantial	Moderate				

ADB = Asian Development Bank, CFO = Chief Financial Officer, CPA = certified public accountant, EA = executing agency, ERP = enterprise resource planning, FMA = financial management assessment, IA = implementing agency, MOFT = Ministry of Finance and Treasury, N.A. = not applicable, OAG = Office of the Auditor General, PEFA = public expenditure and financial accountability, PFM = public financial management, PMU = project management unit, PRF = project readiness financing, SOE = state-owned enterprise, SIG = Solomon Islands Government. 17. The financial management action plan is provided in Table 13.

Table 13: Financial Management Action Plan									
Risk Description	Action	Timeframe	Responsible Agency						
Weak public financial management	Implement various PFM reforms. Rigorous training by MOFT of line ministries on financial circulars/instructions must continue to implement the PFM reforms.	Continuous	MOFT						
External Audit Limited capacity of the OAG for government audit may potentially cause delays in the submission of the audit reports to ADB.	Continue dialogue with the government and with the OAG to ensure that possible delays are anticipated and resources allocated in necessary.	Continuous	ADB, MOFT, OAG, SIWA						
Internal Audit Outsourcing internal audit may weaken follow-up actions	Terms of reference for the provision of internal audit services will include a full review of follow-up activities undertaken in relation to previous audit findings.	Continuous	SIWA						
Accounting System Magiq is not flexible enough to provide fully automated reporting requirements.	System will be migrated to Pronto soon. Parallel reporting will be maintained in Excel spreadsheets while system transitions to the new platform.	Continuous	SIWA						
ADB = Asian Developme	ent Bank, OAG = Office of the Auditor G	eneral, MOFT = N	Ainistry of Finance and Treasu						

ADB = Asian Development Bank, OAG = Office of the Auditor General, MOFT = Ministry of Finance and Treasury, PFM = public financial management, SIWA = Solomon Islands Water Authority. Source: Asian Development Bank.

B. Disbursement

1. Disbursement Arrangements for ADB {and ADB-administered cofinancier} Funds

18. The loan and grant proceeds including ADB-administered EU grant funds will be disbursed in accordance with ADB's Loan Disbursement Handbook (2017, as amended from time to time),⁹ and detailed arrangements agreed upon between the government and ADB. Online training for project staff on disbursement policies and procedures is available.¹⁰ Project staff are encouraged to avail of this training to help ensure efficient disbursement and fiduciary control.

19. Direct payment and reimbursement will be used for civil works, consulting services, and equipment. SIWA, the implementing agency, will be responsible for (i) preparing disbursement projections, (ii) requesting budgetary allocations for counterpart funds, (iii) collecting supporting documents, (iv) preparing and sending the withdrawal applications to MOFT for approval. MOFT, the executing agency (EA) will be responsible for sending the withdrawal applications to ADB.

20. Before the submission of the first withdrawal application (WA), the borrower/recipient should submit to ADB sufficient evidence of the authority of the person(s) who will sign the withdrawal applications on behalf of the government, together with the authenticated specimen

⁹ The handbook is available electronically from the ADB website (http://www.adb.org/documents/ loan-disbursementhandbook.

¹⁰ Disbursement eLearning. <u>http://wpqr4.adb.org/disbursement_elearning.</u>

signatures of each authorized person. The minimum value per WA is stipulated in the Loan Disbursement Handbook (2017, as amended from time to time). Individual payments below such amount should be paid by the EA/IA and subsequently claimed to ADB through reimbursement, unless otherwise accepted by ADB. The borrower/recipient should ensure sufficient category and contract balances before requesting disbursements. Use of ADB's Client Portal for Disbursements (CPD) system is encouraged for submission of withdrawal applications to ADB.¹¹

2. Disbursement Arrangements for Counterpart Fund

21. SIWA will be responsible for (i) preparing disbursement projections, (ii) ensuring the availability of its counterpart funds, and (iii) preparing and submitting the applications and supporting documentation relating to SIG's counterpart contribution (taxes and duties) to MOFT. SIG will provide exemptions for all taxes and duties applicable in Solomon Islands for the project.

C. Accounting

22. The MOFT will cause the detailed project financial statements to be audited in accordance with International Standards on Auditing by an independent auditor acceptable to ADB. The audited project financial statements together with the auditor's opinion will be presented in the English language to ADB within 6 months from the end of the fiscal year by SIWA.

23. SIWA's audited entity financial statements, together with the auditor's report and management letter, will be submitted in the English language to ADB within 1 month after their approval by the relevant authority.

24. The audit report for the project financial statements will include a management letter and auditor's opinions, which cover (i) whether the project financial statements present an accurate and fair view or are presented fairly, in all material respects, in accordance with the applicable financial reporting standards; (ii) whether the proceeds of the loan/grant were used only for the purpose(s) of the project; and (iii) whether the borrower or executing agency was in compliance with the financial covenants contained in the legal agreements (where applicable).

25. Compliance with financial reporting and auditing requirements will be monitored by review missions and during normal program supervision, and followed up regularly with all concerned, including the external auditor.

26. The government, MOFT and SIWA have been made aware of ADB's approach to delayed submission, and the requirements for satisfactory and acceptable quality of the audited project financial statements.¹² ADB reserves the right to require a change in the auditor (in a manner

¹¹ The CPD facilitates online submission of WA to ADB, resulting in faster disbursement. The forms to be completed by the Borrower are available online at https://www.adb.org/documents/client-portal-disbursements-guide.

¹² ADB's approach and procedures regarding delayed submission of audited project financial statements:

⁽i) When audited project financial statements are not received by the due date, ADB will write to the executing agency advising that (a) the audit documents are overdue; and (b) if they are not received within the next 6 months, requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters will not be processed.

⁽ii) When audited project financial statements <u>are not received within 6 months after the due date</u>, ADB will withhold processing of requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters. ADB will (a) inform the executing agency of ADB's actions; and (b) advise that the loan may be suspended if the audit documents are not received within the next 6 months.

⁽iii) When audited project financial statements are not received within 12 months after the due date, ADB may suspend the loan.

consistent with the constitution of the borrower), or for additional support to be provided to the auditor, if the audits required are not conducted in a manner satisfactory to ADB, or if the audits are substantially delayed. ADB reserves the right to verify the project's financial accounts to confirm that the share of ADB's financing is used in accordance with ADB's policies and procedures.

27. Public disclosure of the audited project financial statements, including the auditor's opinion on the project financial statements, will be guided by ADB's Access to Information Policy 2018. After the review, ADB will disclose the audited project financial statements and the opinion of the auditors on the project financial statements no later than 14 days of ADB's confirmation of their acceptability by posting them on ADB's website. The management letter, additional auditor's opinions, and audited entity financial statements will not be disclosed.

VI. PROCUREMENT AND CONSULTING SERVICES

A. Advance Contracting and Retroactive Financing

28. All advance contracting and retroactive financing will be undertaken in conformity with ADB Procurement Policy (2017, as amended from time to time) and its associated staff instructions. The issuance of invitations to bid under advance contracting and retroactive financing will be subject to ADB approval. The borrower, MOFT and SIWA have been advised that approval of advance contracting and retroactive financing does not commit ADB to finance the project.

29. **Advance contracting.** Advance procurement action will apply for procurement of the Kongulai water treatment plant under Output 1 and consulting services for Output 5.

30. **Retroactive financing.** Up to 20 of the GEF grant will be eligible for retroactive financing in respect of goods, works and consulting services. Retroactive financing will apply to eligible expenditures incurred before loan effectiveness, but not more than 12 months before the signing of the grant agreement.

B. Procurement of Goods, Works, and Consulting Services

31. As the project includes cofinancing from the European Union (EU), the Global Environment Facility (GEF), and the World Bank (WB) universal procurement will apply.¹³ In accordance with the procurement framework agreement entered into between ADB and WB in December 2018 implementing the alternative procurement arrangements allowed under their respective procurement policies, a project implementation agreement has been signed under which ADB has been designated as the lead cofinancier for the project. Consequently, all works, goods, and services (including those jointly financed by the World Bank) to be jointly financed under the project will be procured by SIWA in accordance with ADB's Procurement Policy (2017, as amended from time to time) and Procurement Regulations (2017, as amended from time to time). Furthermore, in accordance with the procurement framework agreement, the respective debarment lists of ADB, and WB will need to be made applicable to jointly financed contracts under the project. Likewise, the EU's sanctions list will also apply as required by the ADB-EU Financing Framework Agreement.

32. Open competitive bidding procedures will be used for civil works contracts estimated to cost \$0.5 million or more, and supply contracts valued at \$0.5 million or higher except for the

¹³ ADB. 2013. Blanket Waiver of Member Country Procurement Eligibility Restrictions in Cases of Cofinancing for Operations Financed from Asian Development Fund Resources. Manila.
procurement of prepayment water meters which may be procured on a single-source selection basis to ensure standardization with prepayment water meters and associated systems currently used by SIWA. Requests for quotations will be used for contracts for procurement of works and equipment estimated to cost less than \$0.5 million. Direct contracting may be used for procurement of material, equipment and works estimated to cost \$20,000 or less.

33. An 18-month procurement plan indicating threshold and review procedures, goods, works, and consulting service contract packages and national competitive bidding guidelines is in Section C.

34. All consultants will be recruited in accordance with ADB's Procurement Policy (2017, as amended from time to time) and associated regulations. The terms of reference for all consulting services are detailed in Section D.

C. Procurement Plan

Basic Data					
Project Name: Urban Water Supply and Sanitation Sector Project					
Project Number: 51271-001	Approval Number: 3826/0662	2/0663			
Country: Solomon Islands	Executing Agency: Ministry of	of Finance and Treasury			
Project Procurement Risk: Medium	Implementing Agency: Ministry of Mines, Energy and Rural Electrification, Solomon Islands Water Authority (Solomon Water)				
Project Financing Amount: US\$92,814,000 ADB Financing: US\$37,000,000 Cofinancing (ADB Administered): US\$25,347,000 Non-ADB Financing: US\$35,467,000	Project Closing Date: 31 Dece	ember 2027			
Date of First Procurement Plan:25 September2019	Date of this Procurement Plar	n: 1 September 2021			
Procurement Plan Duration (in months): 18	Advance Contracting:eYesYhsi	r-GP: 'es ttps://www.tenderlink.com/ iwa/			

1. Methods, Review and Procurement Plan

35. Except as the Asian Development Bank (ADB) may otherwise agree, the following methods shall apply to procurement of goods, works, and consulting services.

Procurement of	Procurement of Goods and Works						
Method	Comments						
Open Competitive Bidding (OCB) for Goods	Applies for procurement of goods estimated to cost \$500,000 or more.						
Request For Quotation for Goods	Applies for procurement of goods estimated to cost less than \$500,000.						
Direct Contracting for Goods	Applies for procurement of goods and works estimated to cost \$20,000 or less.						
Open Competitive Bidding (OCB) for Works	Applies for procurement of works estimated to cost \$500,000 or more.						
Request For Quotation for Works	Applies for procurement of works estimated to cost less than \$500,000.						
Consultin	g Services						
Method	Comments						
Quality- and Cost-Based Selection for Consulting Firm	A quality to cost ratio of 90:10 will apply.						
Competitive for Individual Consultant							
Direct Contracting for Individual Consultant							

2. Lists of Active Procurement Packages (Contracts)

36. The following table lists goods, works, non-consulting and consulting services contracts for which the procurement activity is either ongoing or expected to commence within the procurement plan duration.

Package Number	General Description	Estimated Value (in US\$)	Procurement Method	Review	Bidding Procedure	Advertisement Date (quarter/vear)	Comments
1	Output 1. Augmentation and rehabilitation of Kongulai water treatment plant.	19,600,000.00 (\$1,260,000 financed from the GEF grant)	OCB	Prior	1S1E	Q2/2021	Non-Consulting Services: No Advertising: International No. Of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Large Works High Risk Contract: No e-GP: No Covid-19 Response? No
101	Output 5. Catchment Management and Revegetation Works	1,364,000.00	OCB	Prior	1S1E	Q2/2023	Non-Consulting Services: No Advertising: National No. Of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works High Risk Contract: No e-GP: No Covid-19 Response? No
2	Output 1. Honiara Water Supply Trunk Mains Upgrade	4,700,000.00	OCB	Prior	1S1E	Q3/2021	Non-Consulting Services: No Advertising: International No. Of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works High Risk Contract: No e-GP: No Covid-19 Response? No
3	Output 1. Honiara Water Supply Reservoirs	4,130,000.00	OCB	Prior	1S1E	Q1/2021	Non-Consulting Services: No Advertising: International No. Of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works

Goods and W	Goods and Works							
Package Number	General Description	Estimated Value (in US\$)	Procurement Method	Review	Bidding Procedure	Advertisement Date (quarter/year)	Comments	
							High Risk Contract: No e-GP: No Covid-19 Response? No	

Consulting Services							1
Package Number	General Description	Estimated Value (in US\$)	Selection Method	Review	Type of Proposal	Advertisement Date (quarter/year)	Comments
102	Output 5. Catchment Management/ Institutional Expert	500,000.00	Competitive	Prior		Q3/2021	Non-Consulting Services: No Type: Individual Assignment: International Expertise: Environmental Science e-GP: No Covid-19 Response? No
103	Output 5. Project Support Specialist	300,000.00	Competitive	Prior		Q4/2021	Non-Consulting Services: No Type: Individual Assignment: National Expertise: Project Management e-GP: No Covid-19 Response? No
104	Output 5. Safeguards Specialist - Catchment Management	90,000.00	Competitive	Prior		Q3/2022	Non-Consulting Services: No Type: Individual Assignment: National Expertise: Resettlement e-GP: No Covid-19 Response? No
105	Output 5. Catchment Management - NGO	250,000.00	QCBS	Prior	BTP	Q2/2022	Non-Consulting Services: No Type: Firm Assignment: National Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No
106	Output 5. Paid Ecosystem Services NGO - International	500,000.00	QCBS	Prior	BTP	Q3/2022	Non-Consulting Services: No Type: NGO Assignment: International Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No
107	Output 5. Watershed Output 5. Hydrological and land use mapping	300,000.00	SSS	Prior		Q3/2021	Non-Consulting Services: No Type: Individual Assignment: International Expertise: Remote sensing, sediment export

Consulting	Services						
Package Number	General Description	Estimated Value (in US\$)	Selection Method	Review	Type of Proposal	Advertisement Date (quarter/year)	Comments
							e-GP: No Covid-19 Response? No
7a	Output 3. Hygiene awareness program - Part A	1,000,000.00	QCBS	Prior	STP	Q1/2021	Non-Consulting Services: No Type: Firm Assignment: International Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No
7b	Output 3. Hygiene awareness program - Part B	1,000,000.00	QCBS	Prior	STP	Q3/2022	Non-Consulting Services: No Type: Firm Assignment: International Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No

3. List of Indicative Packages (Contracts) Required Under the Project

37. The following table lists goods, works, non-consulting and consulting services contracts for which procurement activity is expected to commence beyond the procurement plan duration and over the life of the project (i.e., those expected beyond the current procurement plan duration).

Goods and Work	Goods and Works							
Package Number	General Description	Estimated Value (in US\$)	Procurement Method	Review	Bidding Procedure	Comments		
15	Output 2. Reconfiguration of NRH Sewer System	9,000,000.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No		
16	Output 1. Gizo WS Upgrade	6,590,000.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No		
17	Output 1. Noro water supply scheme	2,592,857.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1		

Goods and Work	S	-	_		-	1
Package Number	General Description	Estimated Value (in US\$)	Procurement Method	Review	Bidding Procedure	Comments
						Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No
18	Output 1. Tulagi water supply scheme upgrade	1,815,000.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No
19	Output 1. Munda Water Supply Scheme	2,852,143.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No
20	Output 4. Data management including SCADA Output 2. Septage Treatment Plant	500,000.00 2,564,000.00	OCB OCB	Prior Prior	1S1E 1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Goods e-GP: No Covid-19 Response? No Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of
4	Output 1.	4,200,000.00	ОСВ	Prior	1S1E	Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No Non-Consulting
	Honiara Water Supply distribution mains expansion program					Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference

Goods and Work	s					
Package Number	General Description	Estimated Value (in US\$)	Procurement Method	Review	Bidding Procedure	Comments
						Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No
6	Output 1. Leak detection and repair program including installation of PRVs and/or pressure break tanks, and mains renewal program	3,600,000.00	OCB	Prior	1S1E	Non-Consulting Services: No Advertising Type: International No. of Contracts: 1 Prequalification of Bidders: No Domestic Preference Applicable: No Bidding Document: Small Works e-GP: No Covid-19 Response? No

Consulting Serv	vices					
Package Number	General Description	Estimated Value (in US\$)	Selection Method	Review	Type of Proposal	Comments
21	Output 2. Development of septage management policies and framework for the outsourced operation and maintenance of the STF.	250,000.00	QCBS	Prior	BTP	Non-Consulting Services: No Type: Firm Advertising: International Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No
23	Output 4. Project contract administration and supervision services	1,500,000.00	QCBS	Prior	FTP	Non-Consulting Services: No Type: Firm Advertising: International Quality-Cost Ratio: 90:10 e-GP: No Covid-19 Response? No

4. List of Awarded and Completed Contracts

38. The following table lists the awarded or completed contracts for goods, works, non-consulting and consulting services.

Goods and Wo	rks				
Package Number	General Description	Contract Value	Date of ADB Approval of Contract Award	Date of Completion	Comments
ERP	Output 4. Enterprise Resource Planning System	377,227.84	22-JAN-21		e-GP: No
5	Output 1. Service connection/meter (prepayment) replacement program	1,439,537.00	07-MAY-20		e-GP: No
WAUKWAT32	Output 1. Auki Water Supply Scheme Upgrade	1,952,099.98	19-JUN-19	16-OCT-20	e-GP: Yes
Consulting Ser	vices				
Package Number	General Description	Contract Value	Date of ADB Approval of	Date of Completion	Comments

			Contract Award	
100	Output 4. Water Supply Network Modelling	347,500.00	18-FEB-20	Advertised Q4 2019 e-GP: No
9	Output 4. PMU Contracts Engineer	423,240.00	19-JUN-20	Advertised in Q2 2020.
10	Output 4. PMU Environmental Specialist	218,700.00	14-APR-20	e-GP: No
8	Output 4. PMU Project Manager	507,092.00	18-NOV-21	e-GP: No
13	Output 4. Project monitoring and evaluation	218,700.00	14-APR-20	e-GP: No
11	Output 4. Social Safeguards Specialist	233,280.00	14-APR-20	e-GP: No
12	Output 4. WASH Specialist	233,280.00	14-APR-20	e-GP: No

D. Consultant's Terms of Reference

39. The outline terms of reference for consulting services below relate the Output 5 activities and include: (i) Catchment Management/Institutional Expert (international), and (ii) Project Support Specialist (national), (iii) Safeguards Specialist (Catchment Management), (iv) a national nongovernment organization (NGO), (v) a paid ecosystem services (PES) subproject developer, (vi) an academic institution (University of Queensland) for watershed hydrological and land use mapping.

1. Individual Consultants

(i) **Catchment Management/Institutional Expert** (international, 24 person-months, intermittent). The Catchment Management/Institutional Expert will have a postgraduate degree in applied social sciences with a specialization in natural resources management or other appropriate qualifications and at least 15 years' experience in the field of integrated watershed management, natural resources, climate change adaptation, and common property resources management. The Catchment Management/Institutional Expert will also be experienced in field research, and a documented record of publications in the field of natural resources and integrated watershed management. Experience in Pacific countries, and particularly in Solomon Islands, will be considered favorably. The Catchment Management/Institutional Expert will report to the SIWA PMU Head. Specific tasks of the Catchment Management/Institutional Expert include:

- lead consultations to raise awareness and build support for improved catchment planning, management and governance.
- coordinate efforts to design an interagency and inter-sectoral group to coordinate activities that affect the catchment areas.
- through a participatory process with a range of stakeholders, facilitate development of two catchment management plans, one for Kohove, Kongulai, and Kovi, and the other for Lungga, including integration of climate change adaptation measures.
- explore options for a catchment management fund to catalyze additional sources of finance for future catchment protection and climate change adaptation activities.

• assist SIWA to select communities to participate in project and advise on the forest and social impact baseline and monitoring work.

(ii) **Project Support Specialist** (national, 60 person-months, fulltime). The Project Support Specialist will have qualifications and experience related to contract administration and procurement systems and processes and a minimum of 5 years' procurement and contract administration experience. Demonstrated knowledge or experience with international forms of contract such as FIDIC and knowledge of ADB's or other MDBs' procurement guidelines will be viewed favorably. The Project Support Specialist, reporting to the SIWA PMU Head, will provide all-around support in two main areas – contract administration/procurement and monitoring and evaluation of Output 5 activities. Specific tasks of the Project Support Specialist include:

- assist in the bidding process, including preparing bid documents and invitations to bid.
- help prepare bid evaluation reports for consideration by the bid evaluation committee.
- assess contractor claims and process contract variation orders.
- oversee contract performance monitoring and reporting.
- review project monitoring and progress reports and propose additions and modifications as necessary.
- help prepare annual GEF monitoring reports.
- support the monitoring, evaluation and reporting of broader project activities with climate change financing to ensure an integrated and streamlined approach.

(iii) **The Safeguards Specialist - Catchment Management** (national, 18 person-months, fulltime). An environmental assessment and review framework (EARF) and resettlement framework (RF) have been prepared for Outcome 5 which will govern this assignment. Following these two documents, the safeguards specialist will support SIWA and prepare the screening and categorization forms and any subsequent due diligence assessments for environmental and social safeguards. The Safeguards Specialist - Catchment Management have a degree in environmental sciences, or environmental engineering or related fields, and at least 10 years of relevant working experience in developing environmental assessments, including environmental management plans (EMP). Experience with natural resources management projects, preferably with donors or international financing institution and experience in implementing ADB or WB social safeguards will be considered favorably. The Safeguards Specialist - Catchment Management Management will report to the SIWA PMU Head. Specific tasks of the Safeguards Specialist - Catchment Management include:

- deliver an inception report outlining the approach to the assignment and safeguards due diligence work program.
- confirm with Environment and Conservation Department (ECD) what components of Output 5 will trigger need for development consent and the requirements of environmental assessment.
- for each component (and activity thereunder) to be undertaken at specific sites, prepare the environment, involuntary resettlement, and indigenous peoples screening and categorization forms and the rapid environmental assessment (REA) checklist and submit to ADB for review and concurrence.
- coordinate with SIWA to ensure that participatory and community-driven activities under Output 5 are consistent with ADB safeguard requirements, including the grievance redress mechanism (GRM) and land due diligence report (LDDR).

- for activities that do not require environmental assessment but require some guidance in terms of environmental and social management guidelines (ESMG), prepare the ESMG to be incorporated into the implementation contracts.
- for activities that require environmental assessment, prepare the initial environmental examination.
- for activities that trigger involuntary resettlement, prepare a resettlement plan (RP).
- provide inputs on safeguards due diligence for Output 5 for the semi-annual safeguards monitoring reports (SMR) prepared by SW-PMU and submitted to MOFT, ADB and WB.

2. Firms, nongovernment organizations (NGOs), and academic institutions

National nongovernment organization (NGO). A registered NGO with permanent local (i) presence in Solomon Islands will be engaged for a period of 3 years to coordinate landowner engagement and coordination and implementation of planning and Output 5 catchment activities. The NGO must possess a high level of integrity, including demonstrated commitment towards: (i) localization and delivery of benefits to local indigenous people; (ii) safeguarding indigenous land and resource rights, including respect for the principles of free, prior and informed consent; (iii) protection and enhancement of biodiversity and cultural values; and (iv) environmental safeguard. The NGO will have established transparent and accountable governance structures and procedures in practice and a minimum of 6 years' experience operating in Solomon Islands and demonstrated experience in community engagement, community conflict resolution, climate change adaptation, natural resource management, sustainable forest management, biodiversity conservation, and nature-based climate solutions. Demonstrated capacity to provide technical support to communities with respect to sustainable forest management; good governance; sustainable enterprise management; monitoring and reporting; and education to enable free, prior and informed consent is essential. The NGO report to the SIWA PMU Head. Specific activities to include:

- Social impact and forest baseline and monitoring
 - lead a household survey to help establish a social impact baseline (gender disaggregated) for communities participating in Outcome 5 activities.
 - building from watershed mapping/modelling (by others), complete a detailed forest inventory and forest change analysis to describe the baseline conditions in participating communities.
 - monitoring Output 5 indicators on annual basis.
- Forest restoration works
 - facilitate employment of landowners or other watershed community members, including (a) recruiting, administering, and supervising employment of local people; (b) training workers in forest restoration; (c) planning and implementing restoration activities; and (d) ensuring appropriate workplace health and safety standards are met.
 - engage a local service provider to supply appropriate species for replanting.
 - managing restoration activities on roughly 60 hectares, including repairing erosion hotspots on roads and streams caused by logging tracks and coordinating direct seeding and replanting of riparian areas in proximity to potable water sources.
- Forest carbon payment for ecosystem services (PES) subprojects

- Provide key support to the project PES subproject developer to develop Project Idea Note (PIN) for subproject, including: (a) planning for women's empowerment and participation; (b) helping empower landowner participation and education (per the FPIC process); and (c) helping establish community engagement focal points.
 assist in the development of a benefit sharing plan (BSP).
- assist in developing a project-scale land use plan to help select areas to be protected and/or restored.
- work with communities to develop a conservation plan for managing selected areas and exploring options for protecting project areas.
- help establish landowner participants' business entity that can hold carbon rights, sign PES contracts, receive carbon payments, and hold liabilities.
- work with communities to appoint a PES sales and registry agent to execute subproject agreements, including PES agreements and emissions reduction (sales) agreements, allowing for due FPIC process.
- implement monitoring, reporting, and verification regime and conservation management plans.
- support landowner participants to establish a monitoring and reporting regime tied to disbursement of PES payments.
- provide support and training to assist landowners to undertake community ranger or watershed warden positions.
- Livelihood support
 - develop a mechanism to provide seed funding for the development of new microenterprises (e.g., at family scale), targeting watershed landowner communities.
 - establish and maintain a fund to provide education and training opportunities for watershed landowner communities (e.g., school fee support, technical and vocational training).
 - as needed, subcontract with groups with expertise relevant to the livelihood activities selected.

(ii) **PES subproject developer**. An international NGO will be recruited to develop a forest carbon PES mechanism for watershed protection that demonstrates environmental, social, economic and cultural integrity. The firm/NGO will have a track record in delivery of PES/natured based financing initiatives, including bringing projects 'to the market' and at least 5 years' experience in community engagement and consultation in the Pacific. The firm/NGO will work closely with SIWA and the National NGO and will provide technical guidance in undertaking two forest carbon PES subprojects and guiding them to the market stage. Later in the project, they will use a grouped subproject approach to develop one additional PES subproject. The PES subproject developer will report to the SIWA PMU Head. Specific tasks of the PES subproject developer will include:

- for each of the PES subprojects, lead the development of a Project Idea Note (PIN) document to allow the subprojects to be registered with a carbon PES standard, including designing a process for free, prior and informed consent (FPIC) and developing a financing plan.
- formulate a benefit sharing plan (BSP) that targets re-investment of PES finance into sustainable alternative livelihood activities and employment.

- provide guidance on developing local land use plans, undertaking conservation planning, establishing legal instruments to protect project areas, and forming landowner participants' business entities.
- apply existing PES accounting methodologies to quantify PES outcomes and develop subproject monitoring plans.
- develop Project Description Document (PDD) suitable for carbon standard validation.
- design a monitoring, reporting and verification (MRV) system.
- design a landowner community livelihood, education, and training plan; and
- provide support services to the NGO and participating landowner communities to implement the financing plan, including accessing to PES markets, administering PES unit sales, and enabling future private capital investment.

(iii) **Watershed Hydrological and land use mapping**. The University of Queensland will be recruited on single source selection basis to comprehensively map and model Honiara's watersheds, undertake field visits to ground-truth mapping work, and facilitate uptake to relevant government and community stakeholders. The assignment will build upon work by the University of Queensland to establish the relationship between logging activities and sediment export in the, Kohove, Kongulai, and Kovi catchments. The University of Queensland will report to the SIWA PMU Head. Specific tasks to be undertaken this assignment will include:

- (a) Formulate mapping and modeling strategy and collect remote sensing data. Based on previous mapping and hydrological modelling work done for Honiara's watersheds, the prepare a mapping and modeling strategy and recommend monitoring indicators. Subtasks will include:
 - documenting and mapping all disturbed areas within the Kohove, Kongulai, Kovi and Lungga River (with priority on the upper Lungga and Komarindi) catchments
 - utilizing available satellite imagery and other data sources to identify and map recently logged areas in Kohove, Kongulai, Kovi and Lungga River catchments and topology and land cover type, including forest type, age and structure in Kohove, Kongulai, Kovi and Lungga River catchments.
 - working with SIWA and the Ministry of Forestry to combine this work with other available and relevant data for the watersheds, including cadastral, logging concessions and soil type data, to construct an overall map of the watersheds.
 - use the catchment maps, identify high priority areas for both rehabilitation and protection, and propose rehabilitation options for key degraded areas.
- (b) Hydrological data and site visits
 - Install hydrological monitoring equipment in select locations in the targeted watersheds to collect sufficient data to contribute to meaningful modelling and assessment of the water system.
 - Conduct maintenance as part of community-partnerships building, which could involve creating several community-based positions to manage hydrological monitoring equipment.
 - Conduct site visits to ground-truth the remote-sensing data that is collected.
- (c) Develop watershed model

- Develop a model of the target watersheds as a means to better identify priority areas for restoration or protection (i.e., those that provide important watershed ecosystem services such as flood mitigation).
- Liaise with the NGO to ensure mapping and modelling results can be shared with watershed communities and government stakeholders.
- Following the community and government stakeholder consultations, develop a final set of maps and hydrological modelling results.
- Produce a final report that will analyze land-use impacts on hydrological functionality (mainly turbidity and flood risk), examine how these results vary across climate-change impact scenarios, and identify specific areas in the watersheds for project interventions to improve watershed ecosystem services.
- (d) Create data, mapping, and modelling platform
 - Create a watershed data, mapping, and modelling platform, which will allow for regular updating of land-use data via remote sensing applications.
 - Train key technical staff in select government agencies and SIWA to facilitate use of the mapping and modelling platform.

VII. CANDIDATE SUBPROJECT SELECTION CRITERIA

40. SIG and SIWA will ensure that **each** candidate subproject will have undergone a feasibility study, which will address technical analysis and description, subproject rationale, scope and components, cost estimates and financing plan, implementation arrangements, financial and economic analysis, environment impact assessment, and social and poverty impact assessment. Each feasibility study will be submitted for review and approval by ADB.

41. Based on the feasibility study conducted, SIG and SIWA will only finance candidate subprojects which meet the following criteria:

- (i) The candidate subproject will be identified in SIWA's 5-Year Action Plan or SIWA's 30-Year Strategic Plans (as updated from time-to-time) or other SIWA strategic investment documents endorsed by the SIWA Board.
- (ii) The candidate subproject will be technically feasible and meets SIG and/or SIWA's technical standards and requirements.
- (iii) The candidate subproject will be justified as the most feasible subproject to achieve the stated objectives and is shown to be designed to minimize costs.
- (iv) The candidate subproject's social and poverty impact assessment assesses that the proposed subproject (a) will have a net positive impact on stakeholders' social welfare, (b) will reduce poverty, and (c) can have its impacts monitored.
- (v) The candidate subproject will be designed to minimize social impacts and ensure that (a) people adversely affected by civil works under the subproject are compensated in compliance with the laws of Solomon Islands and ADB's Safeguard Policy Statement, 2009; (b) due consultation and process is carried out in line with resettlement plans prepared in accordance with the project resettlement framework and agreed upon with ADB and disclosed to affected persons; and (c) the EA has submitted written confirmation to ADB that all affected persons of the subproject have consented to the terms and conditions under the resettlement plan. The candidate subprojects will not be selected if there is opposition from affected persons and the community to the candidate subprojects.

- (vi) All candidate subprojects will be subject to a first level of screening in accordance with the environmental laws and policy and the provisions of the project's environmental assessment and review framework. No subprojects that are classified as Category A will be eligible for grant financing. That is projects that are likely to have significant adverse environmental impacts that are irreversible, diverse, or unprecedented.
- (vii) The candidate subproject's implementation timeframe will be reasonable, and surveys and design can be prepared, reviewed, and safeguard processes and procedures followed, and implemented within the project implementation period.
- (viii) SIG and SIWA can afford the candidate subproject cost and provides commitment to the investment through provision of budgetary resources to meet counterpart funding requirements for capital expenditures during the construction phase, resettlement costs, environment management costs, and routine operations and maintenance.
- (ix) The economic internal rate of return (EIRR) will be 6 or greater in accordance with the ADB Guidelines for Economic Analysis. Subprojects which have an EIRR of less than 6 may only be selected where a strong justification based on social inclusiveness and equity is provided.

VIII. SAFEGUARDS

42. The ongoing project and additional financing have been classified as Category B for environment and involuntary resettlement and Category C for indigenous persons. Framework documents have been prepared to describe the safeguard requirements for the project, including environmental assessment and review framework (EARF) and resettlement framework (RF). Initial environmental evaluations and resettlement plan (RP) have been prepared for selected water supply and sanitation subprojects.

43. **Environment**. The additional financing seeks to address issues associated with extreme rainfall and unsustainable logging practices that will inevitably lead to worsening flooding in GHA's watersheds. The adverse impacts of the additional financing activities will be minor and largely site-specific. The EARF prepared for the additional financing is aligned with the framework prepared and implemented for the original project which complies with the country system as well as the Safeguard Policy Statement 2009 (SPS). The activities of the additional financing are largely community driven and aimed at improving watershed management and while environmental impacts are expected to be positive overall, there are some risks that need to be managed. Some design stage risks and impacts include potential for benefit capture and risk of non-participation by some stakeholders (including women, people with disabilities and people from vulnerable groups) and impacts during implementation include health and safety, biosecurity risks and need to prevent and control spread of introduced and alien species, waste management, labor matters and potential for increased access to areas facilitating poaching hunting of threatened and/or vulnerable species.

44. Environmental and social management guidelines (or outline environmental and social management plan included in the environmental assessment if one is required), will be included in bid and contract documentation for the works and activities. The guidelines or ESMP will be provided the details on how the environmental management requirements for specific activities and sites during the implementation phase will be complied with and managed on-site.

45. The activities and results of the additional financing will be included in the semi-annual safeguards monitoring reports being prepared and submitted by SW and disclosed by ADB.

46. **Involuntary Resettlement.** The focus of additional financing is to empower communities to implement solutions for effective management, protection, and restoration of the watershed catchment, whilst at the same time providing valid alternative livelihood opportunities and strengthening land tenure security. Catchment areas are noted to be currently governed by customary laws that are not clearly defined, boundaries not easily delineated, and ownership consistently contested. Landholding communities in this context are key stakeholders who will play a vital role in participatory planning, project development and implementation, and replication of the project's benefit sharing scheme. As such, although the proposed intervention is susceptible to involuntary resettlement (IR) aspects of extensive screening, meaningful consultation, negotiated settlement and third-party verification of documented communal consensus, it does not trigger IR impacts. If measures proposed during early implementation encounter unanticipated impacts, an RP will be diligently prepared in accordance with requirements of this RF and the country safeguards system.

47. The activities and results of the additional financing will be included in the semi-annual safeguards monitoring reports being prepared and submitted by SW and disclosed by ADB.

48. SIWA, as the implementing agency, will have overall responsibility on the project's compliance with safeguard requirements. SIWA will also coordinate with relevant government agencies as needed. The PMU will be responsible to follow the government's safeguards assessment procedure and ADB's SPS and obtain safeguard clearance prior to start of civil works from ADB and the government. Their key responsibilities include ensuring continuous consultation and information disclosure to affected persons; coordination with key government agencies to complete land acquisition/lease and payment for affected assets; ensuring the update of resettlement plan based on the resettlement framework; identifying unanticipated impacts and preparation of safeguards documents in compliance with ADB safeguards; establishing grievance redress mechanism and timely resolution of affected persons grievances and monitoring and reporting of resettlement activities. The capacity building on social safeguards within SIWA will be supported by the International Safeguards through training and coaching.

49. **Prohibited investment activities.** Pursuant to ADB's SPS, ADB funds may not be applied to the activities described on the ADB Prohibited Investment Activities List set forth at Appendix 5 of the SPS.

IX. GENDER AND SOCIAL DIMENSIONS

The project is categorized as effective gender mainstreaming and a Gender Action Plan 50. has been prepared (Table 9). Women are disproportionately affected by unsafe and insecure water and sanitation services. Women and girls are largely responsible for water collection and preparation and limited water supply has a huge impact on women's time poverty. In addition, the high incidence of waterborne disease resulting from limited access to safe water and sanitation leads to increased time poverty as women are responsible for caring for sick members of the family. Consultations with women also highlight health concerns related to menstrual hygiene, with women and girls reporting frequent UTIs. In addition to time poverty and health related issues, there are gender gaps in employment and income generation opportunities. There is low participation of women in decision making structures from the community level to the national level. More women work in the informal sector and where women are employed there is a large gender wage gap, with women earning up to 62 less in the private sector. Barriers to accessing water and sanitation services including (i) willingness to pay: whilst women are doing the brunt of work related to water collection and preparation, men are responsible for decision-making on household expenditure for utilities and are less interested than women in paying for services; (ii) ability to pay: this is an issue for the most vulnerable and poorest households; (iii) literacy issues:

only 20 of women and 29 of men have completed secondary education and there are challenges with filling out paperwork associated with water connections; (iv) documentation needed to set up accounts e.g. land documentation. This is particularly challenging for female headed households.

The project will include specific gender design features that will address key issues 51. highlighted from gender analysis and consultation with women and girls including: (i) Training on menstrual hygiene will be provided to 3000 women and girls—this is something that women and girls, particularly in the informal settlements, have not received before. In addition, menstrual hygiene products will be provided to those attending the training. (ii) To support women's employment, contractors will ensure that 20 of the workforce will be women and will put in place policies to support women in the workforce, including equal pay for equal work policies. (iii) To encourage increased women's participation in decision making structures the project will set up water user groups with 50 women participants. These water user groups will be the main forum for decision making on water and sanitation in the community and will be provided with training on O&M and WATSAN. (iv) In order to address barriers to accessing services the project will ensure training for households on willingness to pay for services, including discussion in the household on women's role in water collection and preparation and how better access to water and sanitation would benefit the household. The most vulnerable households (including female headed households) will be supported to access services through different mechanisms including subsidies and payment installation options. Households with low literacy will be proactively supported to fill out connection applications. Civil society organizations are addressing social problems such as violence against women, sexual harassment and abuse, and environmental, climate change and conservation issues.

52. The PMU will be responsible for ensuring that the social and gender related design measures and targets are properly resourced, monitored and implemented as designed. An International Social Development and Gender Specialist will be contracted to coordinate the GAP implementation and monitoring.

A. Enhancing Gender in Project Monitoring

Table 14: GENDER ACTION PLAN

Project Outputs	Gender Targets and Activities	Timeline	Responsibility
Output 1 Continuous, safe, and secure urban water	By 2026, 14,000 households (including informal settlements in GHA) will have access ¹⁴ to SIWA services in project areas, including all of female-headed households (FHH) (2019 baseline: 8000 households, approx. 12 of households are female-headed households)	2028	SIWA/HAEP Team
supply ensured	Households, including FHH, will be supported to provide necessary documentation for connection applications. This includes piloting applications that do not require land documentation.	2019–2027	SIWA
	Vulnerability assessment to be carried out and all vulnerable household identified in project areas will be provided with opportunity to access safe water through subsidies and/or installment options.	2021	SIWA/HAEP Team
	All trainings on WASH, O&M, WATSAN awareness will include at least 50 women	2020–2026	SIWA/HAEP Team
	Households with low literacy will be proactively supported to make connection applications through targeted support from SIWA	2019–2027	SIWA
	Water user groups, with 50% membership of women, established in project HAEP target areas in GHA and Auki, Gizo, Munda Noro, and Tulagi. (number of user groups to be confirmed during project inception)	2021–2026	SIWA/HAEP Team
	 Contractors ensure a fair, safe and diverse workplace Contractors engage at least 20 women¹⁵. (Baseline:0) Orientation and guidance to contractors on labor standards, gender equality in wages, gender (including gender-based violence) and HIV training provided to all contractors at commencement of work and during implementation as required. (Baseline:0) Separate toilet/sanitation facilities for men and women workers. (Baseline: 0) 	2020–2026	SIWA Contractors
Output 2 Urban sanitation	3,000 ¹⁶ women and girls attend menstrual hygiene management training (Baseline 2019: 0). Menstrual hygiene products to be provided to women and girls attending training. (Baseline 2019: 0)	2021–2026	SIWA/HAEP Team
services are effective, efficient, and safe in GHA	Provide pilot sanitation facilities, including menstrual hygiene facilities, in at least 1 community or school.	2021–2026	SIWA/HAEP Team
	 Contractors ensure a fair, safe and diverse workplace Contractors engage at least 20% women¹⁷. (Baseline:0) Orientation and guidance to contractors on labor standards, gender equality in wages, gender (including gender-based violence) and HIV training provided to all contractors at commencement of work and during implementation as required. (Baseline:0) Separate toilet/sanitation facilities for men and women workers. (Baseline: 0) 	2021–2026	SIWA Contractors
Output 3	By 2025, 10,000 ¹⁸ people are reached directly by WASH programs which use gender sensitive materials (approx. 50% will be women based on population profile) [(2019 baseline: 0).		SIWA HAEP Team

¹⁴ Access will be universal in project areas but connection is voluntary.

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¹⁵ Similar projects in Solomon Islands (not ADB funded) have not included any women construction workers. Construction is not a highly desirable job for women so focus will be on ancillary roles available – therefore 20% target is ambitious but realistic.

¹⁶ Estimated based on number of women and girls of reproductive age living in informal settlements (where the majority of the work will be focusing)

¹⁷ Similar projects in Solomon Islands (not ADB funded) have not included any women construction workers. Construction is not a highly desirable job for women so focus will be on ancillary roles available – therefore 20% target is ambitious but realistic.

¹⁸ Approx. 10% of population of greater GHA, mainly focusing in informal settlements.

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Project Outputs	Gender Targets and Activities	Timeline	Responsibility
Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	All new WUGs in HAEP target areas (with 50 women's participation) receive training in maintenance of water and sanitation facilities	2021–2026	SIWA HAEP Team
	1,600 households ¹⁹ are provided with training to facilitate improved willingness to pay for water (i.e., benefits of water and sanitation services for the household)	2021–2026	SIWA HAEP Team
	Effective gender-sensitive audio and visual materials developed to raise awareness at the HH level of proper water usage and environmental management issues, & implemented through appropriate channels (e.g., mobile phone applications, posters, billing mail and public discussion materials, etc.) and distributed to village heads and community leaders in HAEP target areas. Locations of posters will be on strategic places frequented by women. Target: all HHs in urban and peri-urban areas including all female-headed households	2021–2026	SIWA HAEP Team
	Monthly WASH awareness-raising seminars and activities delivered under the HAEP through the community partnerships including women's groups, youth groups and schools. (Baseline = 0)	2021–2026	SIWA HAEP Team
	At least bi-annual M&E and Learning surveys to allow feedback mechanisms from community members on HAEP. 50% of those consulted are women (Baseline =0)	2021–2026	SIWA HAEP Team
Output 4	100 of SIWA staff (140 staff) attend gender training. Training to be conducted at least twice over project duration.	2020-2027	SIWA
SW is financially and technically sustainable	SIWA board includes at least 2 women at all times (Baseline: 2 out of 7 members are currently women)	2019–2027	SIWA
Output 5 Management of Honiara's drinking water source area strengthened to build resilience to climate change	Service provider to provide at least one internship opportunity for a woman (technical student/woman working in key ministry) to support all activities in developing watershed maps and hydrological models (e.g., site visits, collect hydrological data, mapping and modelling) (baseline: NA)	2019–2027	SIWA
	Provide education and training opportunities ²⁰ to participating communities, with at least 50 opportunities to women (Baseline: 0)	2019–2027	SIWA
	Provide training and alternative employment in restoration and replanting to participating communities, with at least xx% ²¹ of employment for women. (Baseline: 0)	2019–2027	SIWA
	Develop paid environmental service (PES) sub-projects with specific targets for women landowners and activities relating to women's engagement and decision-making in the household (e.g., if their husband is the landowner) (Baseline: no PES subprojects and no gender targets in PES subprojects)	2019–2027	SIWA
	PES representative group includes at least 50 women (Baseline: NA)	2019–2027	SIWA
	At least xx% ²² of supported micro-enterprises are women-owned ²³ (Baseline: 0)	2019-2027	SIWA
	Community catchment governance and coordination mechanisms/arrangements include at least 50% women (Baseline: NA)	2019-2027	SIWA
FHH = fema	le-headed households, GHA = greater Honiara area, HAEP = hygiene awareness and education program, HH = households, I	M&E = monitor	ring and

evaluation, NA = not applicable, O&M = operation and maintenance, PES = paid environmental services, SIWA = Solomon Islands Water Authority, WASH = water, sanitation and hygiene, WATSAN = water and sanitation, WUG = water user groups.

Source: Asian Development Bank.

¹⁹ Approx. 30% of new targeting households will be provided training (i.e., 5,700 additional households are targeted for the overall project and this action will target 30% of these additional households with willingness to pay training 30% of 5,700 is approx. 1,600 households). Focus will mainly be in informal settlements.

²⁰ Specific opportunities to be developed and confirmed but could include school fee support, technical and vocational training, scholarships etc.

²¹ To be determined using analysis from the social impact baseline.

²² Target will be set during implementation after baseline and assessments have been completed.

²³ Where a woman is the sole owner or co-owner (at least 50% ownership).

X. REVISED DESIGN AND MONITORING FRAMEWORK

The revised design and monitoring framework strikes out content for deletion and underlines content to be added.

Impact the Project is Aligned with			
Access to safe water and improved sanitation in urban areas increased (Solomon Islands Medium-Term Development Plan 2016–2020).			
Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
Outcome	By July 2027:		
Efficiency, accessibility, climate change and disaster resiliency, and sustainability of safe water and sanitation improved in Auki, GHA, Gizo, Munda, Noro, and Tulagi towns.	a. 16,500 households, including 12% headed by women use improved and climate- and disaster-resilient water supplies. (2019 baseline: 9,000) (OP 2.4.1, OP 3.2.5, OP 4.1)	a. (i) SIWA annual report; and (ii) SIWA water production records released monthly	R. Population growth of the greater Honiara area exceeds growth projections
	b. Nonrevenue water in GHA is reduced to 30%. (2019 baseline: 62%) (OP 4.2.2)	b. (i) SIWA annual report; and (ii) Pacific Water Utility Benching Report, Pacific Water and Wastewater Association, published annually	R. Work overload for SIWA finance unit if mainstream finance personnel is utilized for project implementation
	c. 4,000 households (20%) in GHA are covered by sewer network. (2019 baseline: 1,000 households) (OP 4.1)	c. (i) SIWA annual report; and (ii) Pacific Water Utility Benching Report, Pacific Water and Wastewater Association, published annually	
	d. 14,000 households (64%) in GHA access improved on-site sanitation policies and fecal sludge management. (2019 baseline: 0 households) (OP 3.3.2)	d. Honiara City Council Environmental Health Unit reports	
	e. Sewage discharged from the sewer system complies with water quality standards in GHA. (2019 baseline: 0%) (OP 3.3.4)	e. (i) SIWA annual report; and (ii) Pacific Water Utility Benching Report, Pacific Water and Wastewater Association, ^b published annually	
	f. SIWA continues to recover its annual operation and maintenance costs, asset depreciation costs, and debt servicing costs from user charges and government community service obligation payments. (2019 baseline: 100%) (OP 4.1.1)	f. (i) SIWA annual report; and (ii) SIWA annual audit reports	

Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
Outputs 1. Continuous, safe, <u>and climate</u> <u>resilient urban</u> <u>water supply</u> <u>ensured</u>	By July 2027: 1a. The volume of treated water for the GHA increases by 5 MLD. (2019 baseline: 32 MLD) (OP 4.1.2) (OP 4.2.2, OP 4.3.2)	1a.–1h. (i) SIWA annual report; and (ii) SIWA asset management database updated annually	R. Government and community commitment to improving water supply services and sanitation services wanes
	 trunks are installed and 2 new storage reservoirs of 12 million liters are built in GHA. (2019 baseline: 0) (OP 4.1.2) 1c. Construction contractor personnel will comprise at least 20 women. (2019 baseline: 0%) 		R. Monitoring of project expenditure, contractor payments, and auditing delayed as SIWA accounting systems do not incorporate project- specific accounting and financial
	(OP 1.2, OP 2,1) 1d. <u>75 km</u> of new water supply mains are installed, and <u>15 km</u> of the existing water supply mains upgraded in GHA. (2019 baseline: 0%) (OP 4.1.2)		reporting R. Delays in land acquisition result in delays in project implementation and result in cost and time overruns.
	1e. Three water supply systems upgraded in Auki, Noro and Tulagi towns. (2019 baseline: 0%) (OP 4.1.2)		
	1f. Two new water supply systems built in Gizo and Munda towns. (2019 baseline: 0%) (OP 4.1.2)		
	1g. 7,500 prepaid water meters installed in GHA and five towns. (2019 baseline: 0%) (OP 4.2.2)		
	<u>1h. Expected annual disruptions to</u> <u>Kongulai Spring due to high turbidity</u> <u>reduced to 30 days or less (50 cut- down)</u> (2019 baseline: 59 shutdown days)		

Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
2. Urban sanitation services are effective, efficient and safe in GHA.	2a. Three ocean outfalls rehabilitated and a new outfall constructed. (2019 baseline: 0) (OP 3.3.4, OP 4.2.1)	2a.–2e. (i) SIWA annual report; and (ii) SIWA asset management database updated annually	
	2b. Six new sewer pump stations constructed and two sewage pump stations rehabilitated. (2019 baseline: 0) (OP 3.3.1, OP 4.2.1)		
	2c. New septage treatment facility (60 m3/day) constructed. (2019 baseline: 0) (OP 3.3.1, OP 4.2.1)		
	2d. Construction contractor personnel will comprise at least 20% women. (2019 baseline: 0) (OP 2.1.4)		
	2e. 7 km new sewer pipelines built. (2019 baseline: 0) (OP 4.2.1)		
3. Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns.	 3a. 10,000 persons are reached directly with gender-sensitive awareness and behavior programs of hygiene and water conservation (sex-disaggregated), of which 70% are women. (2019 baseline: 0 persons) (OP 2.2.2) 	3a. Hygiene awareness and education program semiannual monitoring reports	
	3b. At least 80 of children aged 5–15 years have improved awareness of hygiene and water conservation (sex- disaggregated) of which 50% are girls. (2019 baseline: less than 0%) OP 2.2.2)	3b. (i) Annual report of Ministry of Education and Human Resources Development; and (ii) Ministry of Health reports issued periodically.	
	3c. 3,000 women and girls are provided with menstrual hygiene training and products. (2019 baseline: 0) (OP 2.2.2)	3c. Hygiene awareness and education program semiannual monitoring reports	

Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks and Critical Assumptions
4. SIWA is financially and technically sustainable	4a. Water tariff framework with regular review is set up and reviewed.(2019 baseline: 0)(OP 4.2.2)	4a.–4b. SIWA annual report	
	4b. All SIWA staff have updated technical, financial or O&M skills (disaggregated by gender). (2019 baseline: 0) (OP 4.2.2, OP 2.2)		
5. Management of Honiara's drinking water source area strengthened to build resilience to climate change	5a. Water source protection management plans developed, approved and implemented for 2 Honiara water source catchments. (2021 baseline: 0) (OP 3.1.2, OP 3.3.4)	<u>5a.–5c. SIWA annual</u> <u>report.</u>	R. Continued erosion, land degradation and stream damage due to lag times in commencing land restoration works.
	5b. At least 60 hectares of cleared areas in Honiara water resource catchments are re-vegetated. (2021 baseline: 0) (OP 3.3.3)		
	5c. Two alternative livelihood ecosystem services activities prepared and implemented in GHA drinking water source areas. (2021 baseline: 0) (OP 1.2.1)		
	5d. Legislation and regulations relating to protection of drinking water source area reviewed and amendments agreed by the government. (2021 baseline: not reviewed.) (OP 6.2.1)	5d. Government Gazette SIWA annual report	
	5e. Landowner representative group for engagement and participation in watershed protection established. (2021 baseline: not established.) (OP 6.2.4)	5e. SIWA annual report	

Key Activities with Milestones

- 1. Continuous, safe, and climate resilient urban water supply ensured
- 1.1 Increase water production capacity from 32 MLD to 35 MLD by 31 December 2025
- 1.2 Commission new trunk mains to service Mataniko-Panatina and White River (11 km) by 31 December 2025
- 1.3 Construct new water supply reservoirs at Titinge (6 ML) and Kola (6 ML) by 31 December 2025
- 1.4 Fully implement leak-detection repairs and metering programs by 31 December 2026
- 1.5 Construct 70 km of new water mains in Honiara by 30 June 2027
- 1.6 Upgrade provincial town water supply schemes to Auki, Gizo, Noro, and Tulagi by 31 December 2025
- 1.7 Commission and construct Munda water supply scheme by 31 December 2024

- 2.1 Reduce sea outfalls from 15 to 3 and eliminate river outfalls by 31 December 2025
- 2.2 Rehabilitate 2 existing sewage pump stations, and construct 6 new pump stations by 31 December 2025
- 3. Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns
- 3.1 Deliver hygiene awareness program from June 2020 to June 2024

4. SIWA is financially and technically sustainable

- 4.1 Prepare and implement financial management policies including tariff management framework and tariff review process
- 4.2 Design and implement capacity building programs for SIWA staff including the on-the-job training
- 4.3 Design and implement preventative maintenance programs and asset management
- 4.4 Expand SIWA's telemetry system
- 4.5 Introduce and implement SIWA personnel incentive schemes.

5. Management of Honiara's drinking water source area strengthened to build resilience to climate change

5.1 Create catchment management group and facilitate development of two catchment management plans. 5.2 Formulate drinking water source mapping strategy and collect remote sensing data by 31 December 2021.

5.3 Collect hydrological data and conduct site visits by 31 March 2022.

5.4 Develop watershed model, and create data, mapping, and modelling platform by 31 May 2022.

5.5 Develop forest and social baseline for communities participating in watershed subprojects by 31 May 2022.

5.6 Provide landowner employment through forest and riparian zone restoration works by 31 July 2022.

5.7 Develop 2 forest carbon payment for ecosystem services (PES) subprojects by 31 December 2022.

Inputs

Ongoing Project	
Asian Development Bank:	\$28.0 million (concessional ordinary capital resources loan) \$9.0 million (Asian Development Fund grant)
European Union:	€18.0 million (grant)
World Bank:	\$15.0 million (concessional loan)
Government of Solomon Islands:	\$11.5 million (taxes and duties)
Solomon Water:	\$9.0 million
Additional Financing	
Global Environment Facility:	\$4.6 million (grant)
Government of Solomon Islands:	\$0.7 million (taxes and duties)

GHA = greater Honiara area, km = kilometer, ML = million liters, MLD = million liters per day, O&M = operation and maintenance, OP = operational priority, PES = paid ecosystem services, R = risk; SIWA = Solomon Islands Water Authority. ^a Government of Solomon Islands. 2016. *Medium-Term Development Plan, 2016–2020.* Honiara.

^b Pacific Water and Wastewater Association. Annual Benchmarking Reports. Apia. Source: Asian Development Bank.

A. Monitoring

53. **Project performance monitoring.** The PMU has established a project performance and monitoring system with indicators agreed ADB, WB, and the government for monitoring and evaluating to what extent the project is achieving its goals and purposes. These indicators will be refined and monitored during project implementation. The indicators include data for monitoring economic development, quality of urban services, socioeconomic development, environmental impact, and institutional development. Monitoring and evaluation will be based on gender-disaggregated data for social and poverty impact indicators. The PMU shall monitor and evaluate the indicators according to the agreed framework on a quarterly basis to determine the efficiency and effectiveness of the project. Disaggregated baseline data for output and outcome indicators gathered during project processing will be updated and reported quarterly through the Ministry of Finance and National Planning quarterly progress reports and after each ADB review mission. These quarterly reports will provide information necessary to update ADB's project performance reporting system.²⁴ Beneficiaries will be involved in project monitoring and evaluation. In addition, the project steering committee will oversee and monitor the overall implementation of the project.

54. **Compliance monitoring.** Compliance monitoring will be provided through regular quarterly progress reports and during regular ADB review missions.

55. **Safeguards monitoring.** The PMU will be responsible for monitoring safeguard activities through the project implementation assistance consultants composed of a Land Management Officer. SIWA will submit semi-annual safeguard monitoring reports to ADB, and the findings will be incorporated into the progress reporting of the PMU. Safeguard monitoring is included as a requirement of the EARF. Before commencing work, the contractor will prepare a contractor's EMP which will establish how the contractor will comply with the EMP safeguard requirements. Monitoring of the contractor's work will be undertaken by the resident engineer with assistance of the safeguards officer. For social safeguards, monitoring will include reporting on progress of activities in the implementation schedule with particular focus on public consultations, updating the RP, timeliness of payment of compensation and relocation, timeliness of the resolution of grievances, and level of satisfaction among the affected households. ADB review missions will also check the progress on implementation of safeguard requirements. If any subproject involved significant safeguard issues. The checklist in appendix 2 can be used as a guide for safeguards monitoring.

56. **Gender and social dimensions.** SIWA has recruited a social safeguards and gender specialist to guide the PMU in developing and establishing an effective monitoring and reporting systems and processes. All indicators in the GAP will be continuously monitored and reported. These will be included in the PMU quarterly reports and project monitoring reports. A mid-term review will be carried out and a project completion report will be undertaken at project end.

B. Evaluation

57. Soon after the PMU and project implementation assistance consultants are mobilized, ADB will field an inception mission to agree with MOFT and SIWA on implementation requirements **of** the project as well discuss in detail on the procedures relating to procurement of works and goods, recruitment of consultants and disbursements. ADB and the government will undertake semiannual reviews of the project to consider the (i) scope of the project, (ii)

²⁴ ADB's project performance reporting system is available at: <u>http://www.adb.org/Documents/Slideshows/PPMS/default.asp?p=evaltool</u>.

implementation arrangements, (iii) compliance with grant covenants, (iv) physical achievements against targets and milestones, and (v) project implementation issues requiring resolution or action. The midterm review will be made after 3 years of the grant effectiveness date. Prior to the midterm review, SIWA with the assistance of PMU will prepare a position paper outlining any proposals for any changes required under the project which will not adversely affect the project's outcomes. The midterm review will examine in detail the implementation progress and project design (institutional, administrative, organizational, technical, environmental, social, poverty reduction, resettlement, economic, and financial aspects), and identify courses of action that would improve project performance, viability, and the achievement of targets and project objectives. All the assumptions and risks noted in the design and monitoring framework will be reviewed. Within 6 months of physical completion of the project, SIWA will submit a project completion report to ADB.²⁵

ADB will undertake a project completion review (PCR) of the project after 12 and 24 58. months from physical completion date. The PCR will evaluate the processing and design of a project, both by ADB and the borrower among others assess and evaluated (i) performance of the borrower, EA and IA in managing and implementing the project, and in complying with ADB's guidelines, policies, practices, procedures, and grant covenants, and evaluate project costs, disbursements, and institutional improvements; (ii) assess the performance of consultants; (iii) review problems encountered during implementation and the effectiveness of measures to resolve them, by the borrower, ADB, EA and IA, and: (iv) assess whether the borrower, ADB, EA and IA monitored progress effectively in comparison with guantifiable and monitoring targets; (v) reevaluate the financial and economic performance of the project at its initial stage of operation and compare with the qualified indicators in the design and monitoring framework and project performance report; (vi) assess the project's transition to operations, and identify any remedial measures needed; (vii) assess future operation and maintenance schedules to ensure sustainability of the project; (viji) recommend any other steps that the borrower and EA need to take to ensure the project's sustainable operation; (ix) assess the performance of the monitoring and evaluation system established for the project and reexamine the indicators selected for monitoring operations and assessing development impact; (x) assess significant environmental and poverty reduction impacts (include sociocultural impacts when applicable) of the project, and evaluate the implementation and effectiveness of any environmental control measures, resettlement plans, and poverty reduction measures; and (xi) assess whether the immediate development objective has been met and the likelihood of attaining long-term development goal.

C. Reporting

59. SIWA will provide ADB with (i) quarterly progress reports in a format consistent with ADB's project performance reporting system; (ii) consolidated annual reports including (a) progress achieved by output as measured through the indicator's performance targets, (b) key implementation issues and solutions, (c) updated procurement plan, and (d) updated implementation plan for the next 12 months; and (iii) a project completion report within 6 months of physical completion of the project. To ensure that projects will continue to be both viable and sustainable, project accounts and the executing agency audited financial statement together with the associated auditor's report, should be adequately reviewed.

²⁵ Project completion report format is available at: <u>http://www.adb.org/Consulting/consultants-toolkits/PCR-Public-Sector-Landscape.rar</u>.

D. Stakeholder Communication Strategy

60. A communication strategy and communication plan has been prepared by SIWA which indicates the types of information, means of communication, who will provide and to whom, including at what intervals to the stakeholders about the project as well as its implementation. SIWA will be responsible for implementing and updating the communications strategy and communication plan as required.

XI. ANTICORRUPTION POLICY

61. ADB reserves the right to investigate, directly or through its agents, any violations of the Anticorruption Policy relating to the project.²⁶ All contracts financed by ADB shall include provisions specifying the right of ADB to audit and examine the records and accounts of the executing agency and all project contractors, suppliers, consultants, and other service providers. Individuals and/or entities on ADB's anticorruption debarment list are ineligible to participate in ADB-financed activity and may not be awarded any contracts under the project.²⁷

62. To support these efforts, relevant provisions are included in the loan agreement/regulations, grant agreement/regulations and the externally financed grant agreement/regulations and the bidding documents for the project.

XII. ACCOUNTABILITY MECHANISM

63. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism.²⁸

XIII. RECORD OF CHANGES TO THE PROJECT ADMINISTRATION MANUAL

64. Updates of the project administration manual (PAM) are list below.

- Preliminary draft PAM 9 June 2019
- Approved PAM 28 September 2019
- Draft revised PAM 5 May 2021

²⁶ Anticorruption Policy: <u>http://www.adb.org/Documents/Policies/Anticorruption-Integrity/Policies-Strategies.pdf</u>.

²⁷ ADB's Integrity Office web site: <u>http://www.adb.org/integrity/unit.asp</u>.

²⁸ Accountability Mechanism. <u>http://www.adb.org/Accountability-Mechanism/default.asp</u>.

Output 5 consists of three distinct but interrelated sub-outputs:

- Sub-output 1 will strengthen capacity for planning and informed decision making by gaining an improved understanding of watershed biophysical and social boundaries, resources, and processes. Watershed data, mapping, hydrological modeling and information sharing will help build a more comprehensive understanding of the watersheds.
- Sub-output 2 will help facilitate interagency and inter-sectoral coordination and governance and support development of integrated climate-responsive catchment management plans to provide for long-term management of Honiara's catchments.
- Sub-output 3 will empower communities to implement on-the-ground solutions for effective management, protection and restoration of the forest and riparian habitats of the watershed. There are three main options: providing landowner employment through forest and riparian zone restoration works; developing forest carbon payment for ecosystem services (PES) projects and supporting employment and alternative livelihood activities.

As shown in Figure 8, the three sub-output areas will be mutually reinforcing. Sub-output 1 activities will focus on improving the understanding of Kohove, Kongulai, Kovi and Lungga catchments and will enable better decision-making and planning of any activity or intervention taking place in the catchments. This will be of particular value as a pre-cursor to Sub-output 2, which will focus on improving inter-sectoral coordination and catchment management planning. The data, mapping and modelling work under Sub-output 1 will also provide many of the baseline data requirements for Sub-output 3, which will support on-the-ground forest protection, reforestation, and restoration activities.

Sub-output 2 activities will focus on establishing effective inter-sectoral knowledge sharing, coordination and planning for better catchment management. This will build on the mapping and community-based work delivered through Sub-outputs 1 and 3. The main phases of this work will include inclusive education to build understanding and buy-in, establishment of governance and institutional arrangements to facilitate coordination, and development of catchment management plans to guide improved land management and decision-making within the catchments.

Given the large geographical scale of the watersheds surrounding Honiara, the project will initially focus on the Kohove, Kongulai, Kovi catchments due to their connection to the immediate water quality issues impacting Honiara's present water supply. Furthermore, consultation and analysis undertaken during project design phase suggests these catchments offer an easier pathway for project development with respect to land ownership and landowner participation. As such, these areas are best placed to demonstrate the 'proof of concept' to other potential participants. The Lungga is the next priority area, as it is a site for future water supply development.



Figure 8: Across Outcome 5 Sub-outputs

Solomon Water will manage this work, as it has the authority to manage catchment areas for the purpose of protecting Honiara's water quality, per the Solomon Islands Water Authority Act of 1992. This will include hiring a full-time Project Support Specialist, who will be embedded within the PMU – see section on Institutional Arrangement and Coordination and terms of reference (TOR) in Annex K.

Sub-output 5.1: Watershed maps and hydrological models developed

This sub-output will focus on comprehensively mapping and modelling Honiara's watersheds, undertaking field visits to ground-truth mapping work, and facilitating uptake to relevant government and community stakeholders. Some initial catchment mapping has been completed by the University of Queensland, but this assessment work will be expanded.

A third-party service provider (or providers) with the requisite scientific capacity will be identified and recruited for this work (see TOR in Annex K). The preferred choice is a research institute or centre within academia, since such an organization would be incentivized – through the potential research opportunities afforded by such work – to produce high quality sub-outputs beyond a simple pay-for-services contract. Furthermore, the possibility of obtaining co-financing via research funding is greater with such an organization and would strengthen sub-outputs. A research institute would also be well-placed to assist in building research linkages and technical capacity with Solomon Islands government agencies, personnel, and academia, which is an important co-benefit envisioned of this work.

Guided by SW and in consultation with key ministries (e.g. Ministry of Forestry, Ministry of Lands), the service provider will help implement this sub-output in four activity areas (described below), thereby supporting several key aspects of project development and improved watershed management. These are as follows:

- Develop a more detailed understanding of the biophysical environment of the targeted watersheds. Remote sensing data, mapping technologies and hydrological modelling approaches, combined with ground-truthing of mapping and modelling results, will provide a more accurate picture of the watersheds. Mapping will include core baseline data, including: watershed boundaries and topography; description of hydrological system (including surface and ground water interaction); underlying geology and soils (e.g. erosion risks); land use; forest types, and biodiversity assessment.
- Identify priority areas. Assessment of land-use change (e.g. forest disturbance through logging) and impacts of changes on hydrological functionality will help identify priority areas for conservation and restoration activities (e.g. identification of priority riparian zone restoration areas).
- Support communication and collaboration on data collection and sharing, joint decisionmaking and planning with relevant government agencies. This will be achieved by involving relevant agencies in data collection and analysis via sharing and discussing mapping and hydrological modelling results.

Activity 5.1.1. Formulate mapping and modelling strategy and collect remote sensing data. Based on previous mapping and hydrological modelling work done for these watersheds, the service provider will make recommendations on a mapping strategy and indicators that would accord with program needs. It will also propose additional activities that will be required to confirm results, such as site visits or on-site collection of hydrological data, and cost estimates for these.

The service provider will then focus on collecting and collating available remote sensing data covering the target watershed areas. A preliminary assessment of desired sub-outputs is as follows:

- *Mapping, data layers:* This will Include watershed boundaries, forest and vegetative cover, forest structure, forest and vegetation disturbance (various time periods based on available data), topology (slope & altitude), geology and soils, available cadastral layers, including logging and other land-use licenses, and measures of soil erosivity.
- *Hydrological modelling:* SWAT modelling, with priority on developing climate change scenarios regarding turbidity and flood risk.

Activity 5.1.2. Collect hydrological data and conduct site visits. The service provider will install hydrological monitoring equipment in select locations in the targeted watersheds to collect sufficient data to contribute to meaningful modelling and assessment of the water system. The monitoring equipment will incorporate current best practice in flexible and adaptive technical solutions, including satellite uplink to a cloud server. The service provider will also conduct maintenance as part of community-partnerships building, which could involve creating several community-based positions to manage hydrological monitoring equipment. Finally, the service provider will conduct site visits to ground-truth the remote-sensing data that is collected.

Activity 5.1.3. Develop watershed model. After the service provider collects remote-sensing and hydrological data, it will develop a model of the target watersheds as a means to better identify priority areas for restoration or protection (i.e. those that provide important watershed ecosystem services such as flood mitigation).

Once preliminary mapping and modelling results are developed, they will be shared with watershed communities and government stakeholders as part of consultations and engagement for piloting work. This will allow communities and stakeholders to examine mapping results, identify the need for refinements or additional mapping sub-outputs, and determine the need for additional data or site visits for calibration. These initial results will also be used to begin discussions with communities on the strategy for near-term riparian zone restoration work.

Following the community and government stakeholder consultations, the service provider will develop a final set of maps and hydrological modelling results. It will also produce a final report that will analyse land-use impacts on hydrological functionality (mainly turbidity and flood risk), examine how these results vary across climate-change impact scenarios, and identify specific areas in the watersheds for project interventions to improve watershed ecosystem services.

Activity 5.1.4. Create data, mapping, and modelling platform. The final stage of this suboutput will involve the creation of a watershed data, mapping, and modelling platform, which will be based on the model developed in the previous stage and will allow for regular updating of landuse data via remote sensing applications. The system will be developed with an eye towards costeffectiveness and sustainability.

For regular updates on remote sensing data, <u>Planet</u> or similar platforms might be used, which would require either an annual enrolment fee or partnership with research groups that have preexisting access. This sub-output will also include training of key technical staff in select government agencies and SW to facilitate uptake.

Sub-output 5.2: Watershed governance improved

Sub-output 2 will facilitate improved watershed governance by supporting improved interagency, intersectoral and community-inclusive communication, joint decision-making, and information-sharing. It will also explore options to strengthen finance by leveraging pre-existing government, donor and private sector funding streams (via either pooling or better aligning them). The aim is to address gaps in institutional cohesion, coordination, and funding that have all contributed to unsustainable upper watershed land-uses, which have in turn led to Honiara's decreasing resilience to climate change impacts (increased flood risk and severity, increasing water supply costs).

In particular, the project will create a multi-stakeholder coordination group to support integrated catchment management in key upper watershed areas over the long-term. For this purpose, the project will hire a Catchment Management/Institutional Expert that will be placed in the PMU of Solomon Water (SW). This expert will initially be full-time and will then provide part-time targeted assistance after the second year of the project (see TOR in Annex K). While mainly focusing on Sub-output 2, this expert will also bridge Sub-output 1 and Sub-output 3 by, for instance, helping in the process of selecting the catchment communities to participate in Sub-output 3 and advising on the forest and social impact baseline work (see below).

Activity 5.2.1. Stakeholder engagement and problem analysis. SW, led by the Catchment Management/Institutional Expert, will engage with government, other institutional stakeholders, and catchment communities to raise awareness and build support for improved catchment planning, management and governance. The main focus of this activity is educative and designed

to increase inter-sectoral understanding and collaboration. The current problems impacting water supply and climate resilience in the catchment are complex, being influenced by a broad range of factors and involving multiple stakeholders.

Consultations will thus focus on building a systematic understanding of how various activities interact to impact on land use, water management, and water security for the GHA. This 'systems approach' will assist the project proponents and stakeholders to understand the complex issues and the role various actors play in the system. This activity aims to build support for the establishment of an inclusive governance approach and institutional arrangements for improving catchment planning and management. It will also result in the selection of communities that will participate in Sub-output 3 activities.

Activity 5.2.2. Catchment governance and coordination. The Catchment Management/Institutional Expert will engage stakeholders in a planning process to design an interagency and inter-sectoral group to coordinate activities that affect the catchment, catchment communities and water security for the greater Honiara area. Various models will be examined, such as a 'water fund' arrangement and catchment management or catchment advisory committees.

The preferred arrangement will consider existing institutional arrangements and the solution most likely to be effective and sustainable within the local context (e.g. within resourcing and capacity limitations, and sensitive to government needs and community expectations). An appropriate host agency will be selected to provide executive support to the catchment group (e.g. MECDM or SW).

The terms of reference of this 'catchment planning group' will be determined by its members. However, its role is expected to include:

- Information sharing and awareness raising on catchment-level issues, including climate change adaptation;
- Sharing of data relevant for forward-looking, resilient catchment management approaches (e.g., maps, cadaster, land capability, forest resources, population demographics);
- Coordination of government and nongovernment projects and activities;
- Coordination on issues relating to legislation, regulation, compliance and enforcement;
- Providing a forum for multiple stakeholder participation in catchment planning (e.g., for development of Resilient Catchment Management Plans); and
- Contribution to governance of a catchment protection trust fund (see below).

Activity 5.2.3. Facilitate catchment management planning. Working with the catchment planning group, the Catchment Management/Institutional Expert will also facilitate development of two catchment management plans, one for the Kohov, Kongulai, and Kovi catchments (3,200 hectares combined) and the other for the Komarindi sub-catchment, which makes up more than one-third of the Lungga watershed (or roughly one-third of 37,700 hectares). Together, these areas make about 16,500 hectares.

Climate change adaptation will be integrated into the catchment management plans. This will include integrating the watershed mapping and hydrological modelling (undertaken in Sub-output

1) to gain a detailed picture of the climate risks facing the catchment, particularly more intense rainfall that leads to flooding and increased landslides, and identify particularly vulnerable areas in the catchment. The adaptation approach needs to include robust solutions that will work in a range of possible climate scenarios and strike a balance between intermediate and long-term needs.

A key focus of the activity will be building ownership of the catchment management plan with stakeholders, and hence its development will proceed through a participatory and consultative process. SW have already identified development of a catchment management plan in their 30-year strategic plan.²⁹ However, it may be of strategic value to facilitate broader ownership in the plan and hence commitment to its implementation.

The content of the plan will be determined through the development process, but it will likely include the following elements:

- Catchment description (natural resources & processes, population, land use and tenure etc.)
- Identification of threatening processes, hazards or issues impacting the catchment
- Relationship with relevant legislation and policy
- Stakeholder description, coordination & engagement
- Financing (to ensure resourcing for plan implementation)
- Objectives, activities and sub-outputs for implementation
- Key areas for enforcement/enforcement plan
- Coordination with other SIG activities or plans (e.g., disaster planning)
- Activities for monitoring performance, plan improvement and review

Activity 5.2.4. Explore the creation of a catchment management fund. A final activity will focus on exploring options to catalyze additional sources of finance via a trust fund mechanism and/or by better leveraging pre-existing government, donor and private sector funding streams (via either pooling or better aligning them). This fund could draw upon multiple sources of funding to ensure its sustainability. Current envisioned sources of funds are as follows:

- Beneficiary Pays (water surcharges): Solomon Water has indicated a willingness to increase tariffs to directly support upper watershed nature-based investments. This increase could be included in the proposal to be submitted to Ministry of Finance and Treasury and Ministry of Mines, Energy and Rural Electricity in August 2020. A surcharge of SBD 10-15 cents/m³ to the water tariff would generate around SBD 788,000 to SBD 1,340,000 per year (~US\$94,000-US\$161,000 per year).³⁰
- Beneficiary Pays (private sector support): The business case for water fund development, once more fully developed, will be used to approach key private sector beneficiaries of watershed ecosystem services in Honiara to promote the case for making additional financial contributions to the fund to mitigate their business risk associated with water supply and climate risk.

²⁹ Solomon Islands Water Authority (2017) 30 year Strategic Plan 2017 – 2047, Main Report

³⁰ Based on the Medium-growth scenario from Hunter H₂O. 2017. *30 Year Strategic Plan – Main Report.* Honiara: Solomon Islands Water Authority.

• Donor Support: International donors and related initiatives will also be approached to identify potential synergies and joint fund-raising opportunities to support water fund and watershed management activities and development.

Sub-output 5.3: Community livelihood and forest carbon PES activities supported

Landowning communities are key stakeholders in the upper watershed areas critical for Honiara's water supply and climate resiliency. These communities play a central role in land use decisions, including partnering with logging companies on logging license applications through government channels.

Pursuing alternatives to logging must therefore involve helping communities delink their livelihoods from the logging sector. To accomplish this, the project will focus on building effective watershed-protection partnerships with communities to develop improved, diversified and climate-resilient non-timber-based livelihoods that leverage nature-based finance opportunities.

As discussed below, there will be four main types of on-the-ground community interventions:

- Establishing baselines (forest and social impact) to set the stage for voluntary and participatory planning processes and monitoring activities;
- Providing employment to landowner communities through forest and riparian zone restoration works;
- Developing forest carbon PES projects (for the international voluntary carbon market), which will target protection of key threatened forest areas in the watershed; and
- Supporting employment and development of alternative sustainable livelihood activities (including job readiness) that are consistent with watershed protection and sustainable land use.

As detailed in the Stakeholders section, landowning communities have been informed about the project and are interested in participating, but the final selection of communities has not yet been undertaken. As part of a bottom-up approach, selection will be in part based on communities' willingness to engage in project activities. Once selected, participating communities will have significant input into the measures (or combination of measures) that will be implemented from among the three listed above. The details of these measures, such as the type of livelihood activities and design of specific restoration measures, will be determined as part of the project.

It is also important to note that while forest carbon PES projects are generally developed to achieve climate mitigation outcomes, the project will 'bundle' multiple impacts by using forest carbon financing to incentivize catchment protection. Thus, forest carbon PES will be implemented as a climate change adaptation strategy, which is one of the innovations of the project (see Section 9).

This sub-output will be led by collaboration between the nongovernment and private sectors to form a "subproject development team" (as mentioned throughout this section). This team will be composed of experts from the following:

 A nongovernment organization (NGO) with a strong presence in Solomon Islands and significant donor experience in community mobilization related to watershed management/protection will be engaged to lead the team (see TOR in Annex K);

- As needed, community-based organizations will be subcontracted under this NGO to support the forest restoration and/or livelihood sub-outputs. For instance, women's saving clubs or other women groups (e.g. church groups) could be engaged in the development of livelihood activities; and
- A private sector PES subproject developer will be contracted to provide more specialized expertise in developing and implementing forest carbon finance subprojects (see TOR in Annex K).

As discussed in the Stakeholder and Knowledge Management sections, the subproject development team will have a strong commitment to two-way learning and "informed participation", whereby both project proponents and participants learn from each other.

Activity 5.3.1. Develop forest and social baseline for participating communities.

Building on the analysis conducted under Sub-output 1 and working with the Catchment Management/ Institutional Expert, the subproject development team will complete a detailed forest inventory and forest change analysis to describe the baseline conditions against which Sub-output 3 subproject impacts can be measured. This assessment will focus specifically on areas to be included in the Sub-output 3 activities (i.e., restoration works, forest carbon PES, and livelihood support).

A social impact baseline will also be required for these areas to: gain a more detailed understanding of the demographics within the participating communities (including land tenure, tribal structure, and membership); identify strengths and needs of those living in the communities; and inform improved ways to engage marginalized members of the community and the design of livelihood interventions.

The social impact baseline will be established through a household survey. The survey will be designed to determine baseline conditions around a number of the parameters linked to land management, decision making, livelihoods, gender and wellbeing. These will include but not be limited to the following:

- Participation in decision making;
- Involvement in financial management and benefit sharing;
- How the landscape within the catchment supports communities through food, water security, housing materials and access to traditional medicines and other forest-based products;
- Access to education, health care and employment;
- Income; and
- Daily routine.

Importantly, the social impact baseline data must be gender disaggregated to allow for an accurate understanding of gender disparity within the catchment communities. Determination of interviewees as belonging to the traditional landowning groups or as migrants to the catchment will also build a clearer understanding of the needs of the target group.

Informed by the social baseline, the project will pursue a voluntary and participatory planning process by means of the Project Participation Protocol (PPP). As discussed in more detail in the

Stakeholders section, the PPP prescribes a participatory and transparent process of project development and management and is considered a minimum requirement for project engagement. It offers a means of reducing internal risk and enabling project participants to participate in decisions concerning project development, implementation and management, consistent with the principles of free, prior and informed consent (FPIC).

As explained in the monitoring section, the social baseline data will also support monitoring and evaluation of project impacts. Activities that aim to improve conditions for marginalized community members will be implemented against selected indicators, which will be monitored on an annual basis.

Activity 5.3.2. Provide landowner employment through forest and riparian zone restoration works. The project will start restoration works as soon as possible in the project cycle. The works will focus on roughly 60 hectares of high priority degraded sites that are directly impacting turbidity levels and affecting current water supply (identified through Sub-output 1 activities). This will include repairing erosion hotspots on roads and streams caused by logging tracks and direct seeding and replanting riparian areas in proximity to potable water sources.

Involving landowner communities will ensure that benefits from watershed protection activities will begin to flow in the near term, which is required to build trust and commitment to reject logging. Landowner payments will exceed minimum wage standards, and hence will compete favorably with logging labor that has typically poor conditions and often pays below minimum wages. The intervention will thus address a key driver of landowner decisions to pursue unsustainable logging, which is the need for income in the near term.

<u>5.3.2.1. Provide institutional support.</u> The locally-based NGO will facilitate employment of landowners or other watershed community members. In this capacity, the NGO will: (a) recruit, administer and supervise employment of local people; (b) train workers in forest restoration; (c) plan and implement effective (best practice) restoration activities, and (d) ensure appropriate workplace health and safety standards are met.

<u>5.3.2.2. Mobilize landowner labour.</u> The project will recruit landowner and other members of watershed communities to provide labor for restoration activities. This "green jobs" model is preferred to an approach that relies on use of machinery (e.g., earth moving equipment) because it will achieve complimentary objectives of delivering direct benefits to landowners, while building their capacity, knowledge and trust in project interventions. Employment tasks undertaken will include site preparation, weeding, fencing, planting, and maintenance of restoration sites.

<u>5.3.2.3. Produce or acquire seedlings.</u> The project will engage a local service provider to supply appropriate species for replanting. The service provider could be from the private sector, NGO or an existing government agency (e.g., Department of Forestry or Botanic Gardens). In general, the plant species used will be local natives identified/selected through participatory consultations. However, exotic species (e.g., grasses) suitable to address erosion may be used, subject to appropriate environmental safeguards to prevent introduction of invasive weeds.

The GEF grant will finance restoration activities during the first three years of the project. However, by the third year, grant finance could be subsidized in certain areas by income generated through forest carbon activities, potentially 'blended' with local finance provided by SW (possibly raised through customer tariffs). Landowner employment in restoration works could be a pathway to longer-term sustainable employment, for instance as a forest ranger under a forest carbon project (as explained below).

Activity 5.3.3. Develop forest carbon PES subprojects. Payment for ecosystem services involves provision of payments to landowners in return for delivery of catchment protection and/or restoration outcomes. A core feature of PES financing is the ability to use the private sector to cover subproject implementation costs (including land management activities) and opportunity costs to landowners (e.g., for giving up logging). The aim is to provide long-term finance for watershed management activities and incentivize sustainable land use, which will increase resilience to climate change impacts.

Forest carbon PES subprojects generate finance through the production of carbon assets. While forest carbon subprojects are generally developed to achieve climate mitigation outcomes, the subprojects will 'bundle' multiple impacts by using forest carbon financing to incentivize catchment protection. Using climate change mitigation financing to achieve adaptation and watershed management outcomes is recognized internationally.³¹ The FAO suggests that carbon balance is a powerful indicator to appraise the impact of watershed projects.³² Carbon offset standards allow forest carbon subprojects to measure and report various 'co-benefits' (e.g., watershed protection, biodiversity conservation and social outcomes) that can increase the price of carbon credits sold in the market.

The project will employ a model for landowner engagement derived from the Nakau Programme, which has designed a methodology for forest carbon PES that has been successfully implemented in Melanesia for adaptation outcomes, including in the Solomon Islands. As described in more detail in the Stakeholder Engagement section, the Nakau Methodology Framework defines a voluntary and participatory planning process, which enables communities to participate in decisions concerning project development, implementation and management, consistent with the principles of FPIC. The Nakau Programme also offers potential for co-financing through private sector investment, which will ideally include 'off-take agreements' for purchase of PES credits produced by the project (see Private Sector section).

The forest carbon PES activities will be delivered using a 'grouped subproject approach,' which will commence with two inception subprojects in the Kohove, Kongulai, and Kovi catchments. During the first 2-3 years of the project, the inception subprojects will be fully developed to 'market stage.' Under the grouped subproject approach, one additional site (either in Kohove, Kongulai, and Kovi or in Lungga) can then be developed as a sub-project without the need to undertake every subproject development step required for the inception subprojects. In this manner, Sub-output 3 PES subprojects are designed to enable effective expansion or replication from the outset.

<u>5.3.3.1. Prepare forest carbon PES sub-projects.</u> A Project Idea Note (PIN) document will be a key sub-output of this activity area. The PIN describes the subproject and provides an overview

³¹ Lozatelli, B. Fedele, G., Fayolle, V. and Baglee, A. (2016) "Synergies between adaptation and mitigation in climate change finance", International Journal of Climate Change Strategies and Management, Vol. 8 Issue: 1, pp.112-128

³² Bernoux et.al (2011) Carbon sequestration as an integral part of watershed management strategies to address climate change issues; Policy brief.

of how the subprojects will operate. It allows a subproject to be registered with a carbon PES standard as a 'subproject in development.' This activity will consist of five distinct steps, as follows:

- Incorporate findings from the forest baseline to determine areas to be included in forest carbon PES subprojects (at high resolution) and the social baseline to gain an improved understanding of social factors in targeted communities.
- 2) Plan for women's empowerment and participation. A gender expert will be engaged as part of the subproject development team to develop women's empowerment and participation plan to guide women's engagement in aspects of the project. As detailed in the gender section, catchment women are marginalized in decision-making, but are disproportionately impacted by watershed degradation and unsustainable developments. Women's participation is a key strategy for developing fair benefit distribution arrangements from alternative livelihoods.
- 3) Empower landowner participation and education for FPIC. An FPIC process will be developed and applied to key decision points in the subproject. Initially, this will involve investment in education to ensure landowner participants are able to make informed decisions. The education effort will be tailored to the audience. Key community representatives and leaders will have a deeper engagement in education for climate change adaptation, improved land management and participation in PES. The broader catchment population will gain increased awareness via their leaders and subproject representatives and will be reached through more generalized awareness actions, such as videos, posters, and media.
- 4) Establish community engagement focal point. The subproject development team will work with the landowner communities to establish a representative group that will act as a focal point for engagement and participation in project development. This will include ensuring the group has a broad mandate from community members and fairly and transparently represents community interests.
- 5) Develop financing plan. Next, the subproject development team will develop a financing plan targeting the private sector. The plan will include access to PES markets, sales and marketing of PES units, and strategy to enable future private capital investment (for subproject replicating and scaling). The plan aims to secure sustainable financing for project activities beyond the GEF funded period and provide opportunities to replicate / scale the subprojects.

<u>5.3.3.2. Develop forest carbon PES sub-projects.</u> The subproject development stage will build on the activities above to design the required elements of forest carbon project. The main suboutputs from this activity area will include a Project Description Document (PDD) suitable for carbon standard validation and land recording to enable the necessary protection of the subproject areas. This activity will consist of nine steps, as follows:

 Formulate Benefit Sharing Plan (BSP). The BSP is required to ensure income received from PES sales is provided to participant communities in a fair, timely and transparent manner. An effective BSP will translate PES benefits into sustainable community development outcomes, cover landowner opportunity costs, and maintain a strong incentive for participant communities to maintain commitment to conservation activities.
- 2) Land use planning. The subproject development team will employ a participatory process to develop a land use plan (at project scale) to strategically select areas of the catchment to be protected and/or restored. Land use planning will safeguard important resources for landowners (e.g., garden areas), while ensuring that protected areas will contribute to watershed management objectives.
- 3) Conservation/land management planning. The plan developed will guide work by landowners to protect forest and water resources. It will include management objectives, management zones, management rules or by-laws, and actions to increase enforcement of forest protection rules.
- 4) Establish Protected Area. A legal instrument to protect project areas is required to support 'subproject permanence,' and specifically to protect important forest areas against logging, mining or land clearing. Implementation of this activity will involve assessment of available instruments and application of the instrument in consultation with landowners and stakeholders.
- 5) PES accounting. The PES subproject team will apply existing PES accounting methodologies to quantify PES outcomes (e.g., annual tons of CO2 reductions from the project). PES accounting requires application of a methodology that compares a baseline (business as usual) scenario where there is no intervention with the outcome caused by the project intervention.
- 6) Develop subproject monitoring plan. Monitoring plans for each subproject are required to demonstrate achievement of PES outcomes for emissions abatement and associated watershed protection outcomes. Ecological and social dimensions of the project (e.g., governance) will be monitored.
- 7) Establish landowner participants' business entity. Prior to this point, landowners' participation will be focused through a mandated landowner representative group. This will transition to establishment of a legally constituted group (e.g., association or landowner company) that can hold carbon rights, sign PES contracts, receive carbon payments, and hold liabilities.
- 8) Implement FPIC process. The FPIC process is a key safeguard to ensure landowner participation in projects is fully informed and voluntary. The FPIC process will apply a methodology developed for other PES programs in the region.
- 9) Execute financing plan. The PES subproject team will implement the financing plan developed under Activity 2.1. This includes a significant focus on sales and marketing of PES units. Execution of the financing plan occurs prior to other execution activities (see 2.3) because of the lead-time required to establish purchase agreements with buyers prior to production of PES units.

<u>5.3.3.3. Execute forest carbon PES sub-projects.</u> This stage involves executing subproject agreements, submitting subproject documents or standard certification, and putting subproject plans into action (e.g., monitoring plan, conservation management plan, benefit sharing plan etc.). During the implementation of community subprojects, the subproject development team will monitor, support and build landowner capacity for good governance, financial management, and land management actions. Landowners will also be supported to reinvest PES finance into development of further sustainable livelihood activities, as described below. Upon

implementation, sales of forest carbon credits will be transacted, which will allow the subproject to realize financial gains. This activity will consist of five steps:

- 1) Execute project agreements. The subproject development team will work with participant communities to execute subproject agreements, including PES agreements and emissions reduction (sales) agreements, allowing for due FPIC process. This will also involve appointment of a PES sales and registry agent to act on the landowners behalf.
- 2) Implement monitoring, reporting, and verification regime and conservation management plans. The subproject development team will work with communities to develop monitoring reports so that the subproject can undergo independent audit to validate the methodology and verify ecosystem service outcomes. The audit services will be outsourced to a certified body approved by the applicable PES Standard.
- 3) Implement governance, management and benefits-sharing system. The subproject development team will support landowner participants to establish a monitoring and reporting regime (for land management, benefit sharing and governance) tied to disbursement of PES payments. The SOP will ensure that payments are tied to subproject implementation performance and allow provision of targeted support to landowners to build their capacity.
- 4) Provide technical support for land management. Support and training will be provided to assist landowners to undertake community ranger or watershed warden positions. The role of rangers is to implement activities under the conservation management plans, including monitoring activities and enforcement. Ranger work will also contribute to the restoration works started in Activity Area 1.
- 5) Facilitate subproject replication and scale. The inception PES subprojects will be designed using a 'grouped project approach' that will allow for further subprojects to be added to the group at reduced cost. The sub-output of this activity will be integration of the grouped approach in the subproject design (PD) and a report on opportunities for project replication.

Activity 5.3.4. Support employment and alternative livelihood activities. Interventions that increase landowners' economic participation and reduce poverty address a main driver for logging, which is the need for income. This intervention will thus provide access to business and employment education and training, networking and partnership development with the private sector, and provide access to start-up capital for small enterprise development.

In practice, the livelihood activities may include assistance to individual, family-run or community groups. Opportunities for education and training will include a focus on increasing landowners' capacity to find employment in Honiara, noting that most landowners reside in the peri-urban areas around the city and are not necessarily living and working on their customary land. Also, as discussed in the Gender Equality and Women's Empowerment section, employment and livelihood activities provide an opportunity to address gender inequalities within the catchment communities.

<u>5.3.4.1. PES investment to support livelihoods and employment</u>. The project team will work with landowners to co-design a benefit sharing mechanism (for PES income) that targets re-investment of PES finance into sustainable alternative livelihood activities and employment. The

focus of this activity is to produce a landowner community livelihood, education and training plan that will guide investment of PES funds that are earmarked for community benefit. This will contribute to sustainably financing livelihood development and employment initiatives beyond the GEF grant funded period for the duration of the PES project (> 30 years).

<u>5.3.4.2. Facilitate sustainable enterprise development.</u> The subproject development team will facilitate access to training and support and provide seed funding for the development of new micro-enterprises (e.g. at family scale), targeting watershed landowner communities. The nature of these activities will depend on the needs and interests expressed by participants during consultation and joint planning, but possibilities include high-value non-timber forest products (NTFPs), tree nurseries, apiculture and eco-tourism. The project will provide assistance to beneficiaries to design project ideas and will develop a selection criteria and process to determine projects that will receive support. Where possible, partners with relevant industry expertise will be engaged to provide support for new enterprise development. For example, if communities decide cocoa is a priority, the project would then seek to engage cocoa industry expertise for support.

<u>5.3.4.3.</u> Support education and training for employment. Funds will be made available from the GEF project (initially) and then from PES financing to establish and maintain a fund to provide education and training opportunities for watershed landowner communities. The activity will focus on establishing, administering and establishing institutional (governance) arrangements for this fund. The scope of education and training activities supported will be decided in consultation with beneficiaries, but may include school fee support, technical and vocational training, and higher education. Existing education and training service providers will be engaged to deliver the education and training, and where possible an existing provider may be engaged to manage scholarships.