



Draft Design and Monitoring Framework

Project Number: 42394-022
August 2011

TON : Nuku'alofa Urban Development Sector Project

A design and monitoring framework is an active document, progressively updated and revised as necessary, particularly following any changes in project design and implementation. In accordance with ADB's public communications policy (2005), it is disclosed before appraisal of the project or program. This draft framework may change during processing of the project or program, and the revised version will be disclosed as an appendix to the report and recommendation of the President.

Asian Development Bank

DESIGN AND MONITORING FRAMEWORK

Design Summary	Performance Targets / Indicators	Data Sources / Reporting Mechanisms	Assumptions and Risks
<p>Impact</p> <p>The living conditions for Nuku'alofa urban population has improved.</p>	<p>National Human Index is maintained at or increases from 0.677 by 2015 (baseline year: 2010).</p>	<p>United Nations Development Programme Human Development index reports</p>	<p>Assumptions</p> <ul style="list-style-type: none"> • Continued commitment by government to maintain and improve urban management and development. <p>Risks</p> <ul style="list-style-type: none"> • Political interference in urban sector planning, development, and management.
<p>Outcome</p> <p>Nukualofa residents have access to improved municipal services.</p>	<p>The reliability of Nuku'alofa water supply (availability) at all locations increases from less than 50% (at the network extremities) to 99.9% by 2015. (baseline year 2011).</p> <p>Consumer access to solid waste management services in Nuku'alofa increases from less than 40% to 80% by 2015.</p>	<p>TWB annual reports. WAL annual reports.</p>	<p>Assumptions</p> <ul style="list-style-type: none"> • Funds are available for infrastructure maintenance. • Government maintains commitment to managing urbanization in Tonga and growth of Nuku' alofa.
<p>Output</p> <p>Strengthened policy environment for delivery of urban services</p>	<p>National Spatial Planning Authority advisory committee established and comprising at least 40% women by June 2012 (baseline 2011: 0%)</p> <p>TWB and WAL finance 100% of their operations and maintenance costs from water sales by 2014 and 2017 respectively. (baseline 2010: TWB - 95%, WAL 17%).</p>	<p>PUMA annual reports and Cabinet reports.</p> <p>TWB and WAL annual reports.</p>	<p>Assumptions</p> <ul style="list-style-type: none"> • Government maintains commitment to managing urbanization in Tonga and growth of Nuku' alofa, and coordination among government ministries and agencies improves. • PUMA and a Nuku' alofa municipal institution have sufficient urban planning and management staff resources. <p>Risks</p> <ul style="list-style-type: none"> • Land acquisition is

<p>Effective, efficient and sustainable water supply services in Nukualofa (core subproject) provided by TWB</p>	<p>Losses from the Nuku'alofa water supply network is less than 25% by 2017 (baseline 2011: 50%).</p>	<p>TWB annual reports.</p>	<p>delayed.</p> <ul style="list-style-type: none"> • Implementation delays and cost overruns occur due to limited capacity of local contractors. • Poor quality maintenance and repairs due to limited capacity of local staff and contractors. • Parliament delays or fails to pass Spatial Planning Bill in 2011.
<p>Sustainable solid waste services in Nuku'alofa (core subproject provided by WAL)</p>	<p>The Tapuhia Landfill is operated in accordance with the operating procedures specifically developed for the site [AusAID 2007] by 2015 (baseline 2011: not operated in accordance with the Tapuhia landfill operating procedures)</p>	<p>WAL annual reports.</p>	
<p>Other municipal infrastructure is upgraded and well maintained.</p>	<p>At least 1 high priority components of the UIDP are implemented by 2018. (baseline 2011: 0%)</p>	<p>PUMA annual reports.</p>	
<p>Community is aware of efficient use of municipal services.</p>	<p>Average domestic water consumption decreases from 100 liters per capita per day to 90 liters per capita per day by 2017 (baseline 2011).</p> <p>By 2015, women represent 50% of participants at general meetings. (baseline 2011: limited consultation and/or participation).</p>	<p>TWB annual reports. TWB annual reports.</p>	
<p>Effective project management services</p>	<p>The project is fully implemented by 31 June 2017 and within budget.</p>	<p>PUMA annual reports. PUMA annual reports and Cabinet reports.</p>	

	By 2015, at 30% of senior urban planning and management positions, including the project steering committee, are held by women. (baseline 2011: 0%) Committee.	
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Activities with Milestones	Inputs
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Strengthened policy environment for delivery of urban services

Activity	Scheduled Start	Scheduled Finish
Capacity within PUMA for urban policy development and implementation of the SPMA developed by July 2014.	Jan 01, 2012	Jul 31, 2014
TWB and WAL tariffs reviewed and amended and implemented by February 2013.	Jan 01, 2012	Feb 28, 2013
Preparation of asset management plans mandated by all public urban services providers by March 2013.	Jan 01, 2012	Mar 31, 2013
TWB and WAL asset management plans prepared and implemented by July 2013.	Jan 01, 2012	Jul 31, 2013

ADF - US\$ 6,060,000
 Govt - US\$ 2,030,000
 AUS-G - US\$ 6,100,000

Effective, efficient and sustainable water supply services in Nukualofa (core subproject) provided by TWB

Activity	Scheduled Start	Scheduled Finish
12 new water supply wells constructed and commissioned at the Mataki'eua Tongamai wellfield by October 2013.	Jan 01, 2012	Oct 31, 2013
17 existing water supply wells at the Mataki'eua Tongamai wellfield rehabilitated, including installation of electric pumps, by July 2013.	Jan 01, 2012	Jul 31, 2013
Additional 4,000m3 raw water reservoir constructed and commissioned at the Mataki'eua Tongamai wellfield by October 2013.	Jan 01, 2012	Oct 31, 2013
A 120-kilowatt diesel generator procured, installed, and commissioned at the Mataki'eua Tongamai wellfield, by July 2013.	Jan 01, 2012	Jul 31, 2013

Nuku'alofa water supply zoning plan is implemented by August 2013, including procurement and installation of zone boundary valves and bulk supply meters.	Jan 01, 2012	Aug 31, 2013	
Consumer meter replacement program and meter replacement policy fully implemented by July 2012, and up to 2,000 consumer water meters in Nuku'alofa replaced by July 2014.	Jul 01, 2012	Jul 31, 2014	
Sustainable solid waste services in Nuku'alofa (core subproject provided by WAL)			
Activity	Scheduled Start	Scheduled Finish	
Installation of an impervious liner to cell no 2 of the Tapuhia landfill completed by January 2013.	Jan 01, 2012	Jan 31, 2013	
New landfill loader procured, delivered, and entered into service at Tapuhia landfill by February 2013.	Jan 01, 2012	Feb 28, 2013	
Groundwater water quality monitoring program at Tapuhia landfill re-activated by June 2013.	Jan 01, 2012	Jun 30, 2013	
WAL updates and implements its asset management plan for Tapuhia landfill facility plant and solid waste handling and processing equipment by June 2013.	Jan 01, 2012	Jun 30, 2013	
Community-led, village-level waste collection service piloted in 5 periurban villages by January 2013.	Jan 01, 2012	Jan 31, 2013	
Financial management/billing software and associated hardware platforms procured and commissioned by September 2013.	Jan 01, 2012	Sep 30, 2013	
WAL 5-year asset management plan prepared and implemented by January 2013.	Jan 01, 2012	Jan 31, 2013	
Financial management and asset management capacity of WAL	Jan 01, 2012	Feb 28, 2014	

developed by February 2014.			
Other municipal infrastructure is upgraded and well maintained.			
Activity	Scheduled Start	Scheduled Finish	
Candidate subprojects are identified, screened, selected, designed and implement by April 2017.	Jan 01, 2012	Apr 30, 2017	
Community is aware of efficient use of municipal services.			
Activity	Scheduled Start	Scheduled Finish	
Community awareness and education implemented throughout the project implementation period.	Jan 01, 2012	Jun 30, 2017	
Customer complaints mechanisms in TWB and WAL are improved and the public is consulted on service standards, water conservation and demand management by January 2014.	Jan 01, 2012	Jan 31, 2014	
Women's groups and community associations are consulted and encouraged to participate in urban planning and design issues by January 2013.	Jan 01, 2012	Jan 31, 2013	
Effective project management services			
Activity	Scheduled Start	Scheduled Finish	
Project implementation assistance and capacity development consultants fielded (March 2012 – April 2016).	Mar 01, 2012	Apr 30, 2016	
Strategic development plan for Nuku'alofa and other municipal areas on Tongatapu prepared by August 2013.	Mar 01, 2012	Aug 31, 2013	