Controlling Officer's Report

Programmes

Programme (1) Water Supply: Planning and Distribution Programme (2) Water Quality Control

Programme (3) Customer Services

These programmes contribute to Policy Area 24: Water Supply, Drainage and Slope Safety (Secretary for Development).

Detail

Programme (1): Water Supply: Planning and Distribution

	2014–15	2015–16	2015–16	2016–17
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	6,542.4	6,924.6	6,996.0 (+1.0%)	7,241.1 (+3.5%)

(or +4.6% on 2015–16 Original)

Aim

2 The aim is to plan and develop water resources and to design, construct, maintain and operate water supply systems in order to provide round-the-clock supplies throughout the year to meet the demands of the territory.

Brief Description

3 The Department is responsible for providing adequate and satisfactory supplies of water to the territory. This work involves:

Fresh water

- assessing fresh water supply requirements on the basis of providing round-the-clock supply of water throughout the year to meet the demand of the territory;
- developing fresh water resources to cope with such requirements;
- planning, designing and constructing reliable and efficient fresh water supply and distribution systems to meet such requirements in good time; and
- operating and maintaining fresh water supply and distribution systems.

Salt water for flushing

- assessing salt water supply requirements;
- planning, designing and constructing reliable and efficient salt water supply and distribution systems to meet such requirements in good time; and
- operating and maintaining salt water supply and distribution systems.
- 4 In 2015, the Department was able to plan, design and construct new projects for extension of fresh and salt water supplies to new developments and to operate and maintain water supply systems to provide adequate and uninterrupted supplies of water throughout the year. Besides, the 15-year programme for replacement and rehabilitation of water mains was substantially completed whilst the advance works for the in-situ reprovisioning of the Sha Tin Water Treatment Works (South Works) has commenced.

5 The key performance measures in respect of water supply are:

Targets

	Target	2014 (Actual)	2015 (Actual)	2016 (Plan)
supply pressure fresh water supply—maintaining normally a minimum residual head of between 15 and 30 metres in the distribution systems except at their extremities (%) salt water supply—maintaining normally a minimum residual head of 15 metres in the	100	100	100	100
distribution systems except at their extremities (%)	100	100	100	100
Indicators				
		2014 (Actual)	2015 (Actual)	2016 (Estimate)
projects under planning		29 7,475.9 26 4,811.7 39	30 7,125.6 27 4,597.0 40	29 6,819.0 24 4,623.0 36
expenditure of works under construction (\$m)		4,521.1 959 462 000 271 023 000 365 5 015 600 346	4,134.8 972 708 000 272 380 000 365 5 015 600 349	4,001.1 975 000 000 281 000 000 366 5 015 600 349
leakage rate of water mains (%)education programmes / promotion campaigns on conservation§schools joining education programmes on water conservation§	water	16.0	15.0	15.2 3 160
Compart Autority	• • • • • • • • • • • • • • • • • • • •			100

[§] New indicator as from 2016.

Matters Requiring Special Attention in 2016–17

- 6 During 2016–17, the Department will:
- establish progressively the Water Intelligent Network which dovetails with the completion of the 15-year programme for replacement and rehabilitation of water mains;
- continue with the implementation of the total water management strategy for sustainable use of water resources
 with focuses on water conservation and water loss management as well as on development of new water
 resources:
- continue with the review study on the total water management strategy;
- continue with the design for a desalination plant and related infrastructure in stages at Tseung Kwan O;
- continue to carry out study on financial and legal frameworks, and carry out design of infrastructures for supplying reclaimed water for toilet flushing and other non-potable purposes in the north-eastern part of the New Territories including Sheung Shui and Fanling;
- · continue with the feasibility study for the relocation of service reservoirs at Diamond Hill to cavern; and
- commence the construction of the fresh and salt water supply systems to meet the increase in demand arising from housing development in Sheung Shui and Fanling area, and Chai Wan area respectively.

Programme (2): Water Quality Control

	2014–15	2015–16	2015–16	2016–17
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	174.2	176.1	192.5 (+9.3%)	210.2 (+9.2%)

(or +19.4% on 2015–16 Original)

Aim

7 The aim is to control the quality of water supplied to consumers in accordance with international and the Department's standards.

Brief Description

8 The Department is responsible for ensuring that the purity, wholesomeness and safety of treated fresh water conform to international standards, i.e. the World Health Organization's Guidelines for Drinking-water Quality (WHO Guidelines), in all respects and at all times. The Department is also responsible for ensuring that the quality of salt water for flushing conforms to the Department's standards. This work involves:

Fresh water

- water treatment ensuring that treated water conforms chemically and bacteriologically to the standards stipulated in the WHO Guidelines; and
- water quality control—ensuring that test samples taken from treatment works, service reservoirs, connection points, consumers' taps, etc., conform to the standards stipulated in the WHO Guidelines.

Salt water for flushing

- water treatment ensuring that the water supplied conforms chemically and bacteriologically to the Department's standards; and
- water quality control—ensuring that test samples taken from pumping stations, service reservoirs, connection points, etc., conform to the Department's standards.
- 9 In 2015, the Department achieved the set quality standards in the treatment of water and maintained effective measures in monitoring and controlling the quality of the water supplied to consumers. In response to excess lead found in drinking water in public rental housing estates, the Department has stepped up monitoring of lead in drinking water.
 - 10 The key performance measures in respect of water quality control are:

Targets

	Target	2014 (Actual)	2015 (Actual)	2016 (Plan)
fresh water quality—water supplied to customers at the connection points complies with the standards stipulated in the WHO Guidelines (%)salt water quality—water supplied to customers at the connection points	100	100	100	100
complies with Water Quality Objectives set by Water Supplies Department (%)	96	96	96	96
Indicators				
		2014 (Actual)	2015 (Actual)	2016 (Estimate)
Treated fresh water sampling visits at treatment works, service reserv connection points and consumers' taps^ chemical quality satisfying standards (%) bacteriological quality satisfying standards (%)		26 129 100 100	26 455 100 100	26 000 100 100

A Revised description of the previous indicator "samples taken from treatment works, service reservoirs, connection points and consumers' taps" as from 2016 to better reflect the actual work carried out by the Department. Normally two samples are collected per visit.

Matters Requiring Special Attention in 2016–17

- 11 During 2016–17, the Department will:
- continue to execute a water safety plan for the Department according to the WHO Guidelines; and
- enhance the monitoring and control of the quality of water in inside service, including a review of the existing Waterworks Ordinance (Cap. 102) and Waterworks Regulations (Cap. 102A), in accordance with international standards.

Programme (3): Customer Services

	2014–15 (Actual)	2015–16 (Original)	2015–16 (Revised)	2016–17 (Estimate)
Financial provision (\$m)	466.8	464.1	465.1 (+0.2%)	472.6 (+1.6%)
				(or +1.8% on 2015–16 Original)

Aim

12 The aims are to provide customer services and to enforce the Waterworks Ordinance and Waterworks Regulations.

Brief Description

- 13 The Department is responsible for the provision of efficient and effective services to customers and for taking enforcement action on offences under the Waterworks Ordinance and Waterworks Regulations. This work involves:
 - improving efficiency and effectiveness in dealing with customer enquiries and complaints,
 - enforcing the Waterworks Ordinance and Waterworks Regulations,
 - ensuring timeliness of billing and promptness in updating consumer accounts,
 - monitoring closely the level of arrears of water charges, and
 - coping with the growth in the number of consumer accounts.
- 14 In 2015, the Department implemented enhancement measures on the control of the construction, installation, etc. of the inside service, including the control of pipes and fittings, inspection of plumbing works and the management of licensed plumbers, for the safety and quality of drinking water in the inside service.
 - 15 The key performance measures in respect of customer services are:

Targets

	Target	2014 (Actual)	2015 (Actual)	2016 (Plan)
processing application for taking up of	S	,	,	,
consumership				
by post within seven days (%)	100	100	100	100
in person at Customer Enquiry				
Centres (all-purpose counter)				
within 15 minutes (%)	100	100	100	100
issue of final bill upon closure of account	100	00.7	00.0	00.0
within three days (%)	100	99.7	99.8	99.8
refund of water deposit within	100	00.0	00.0	00.0
nine days (%)	100	99.8	99.9	99.9
processing application for meter test	100	100	100	100
within eight days (%)	100	100	100	100
processing application for autopay				
service (upon receipt of notification	100	100	100	100
from banks) within three days (%)	100	100	100	100
accuracy of water meters (inaccuracy not	100	06.7	07.0	07.2
exceeding +/- 3%) (%)	100	96.7	97.0	97.3
response time for attendance to fault				
complaints				
within half a day for fresh water	100	100	100	100
supply fault (%)within 24 hours for others (%)	100	100	100	100
within 24 hours for others (70)	100	100	100	100

notice for planned suspension of	Target	2014 (Actual)	2015 (Actual)	2016 (Plan)
water supply issued not less than four days in advance (%)conducting publicity campaigns and	100	100	100	100
seminars for promotion of combating unauthorised water consumption initiating an investigation after receiving a complaint on suspected	60	73	71	70
unauthorised water consumption within one day (%)	85	91	91	90
Indicators				
		2014 (Actual)	2015 (Actual)	2016 (Estimate)
no. of consumer accounts		2 880 000 2,829.0	2 903 000 2,821.0	2 937 000 2,826.0
of water charges demandedprosecutions		0.8 225	0.8 245	0.8 245
fines imposed (\$)house service inspections due to irregular consum		876,400 7 830	606,600 8 182	610,000 8 500
public enquiries and requests for services		1 349 667	1 329 349	1 340 000
disputes and complaints handled		16 681	15 581	15 400

Matters Requiring Special Attention in 2016–17

- 16 During 2016–17, the Department will:
- continue to review and enhance the control of the construction, installation, etc. of the inside service including the control of pipes and fittings, inspection of plumbing works and the management of licensed plumbers;
- continue to strengthen regulatory control on inside service leakage to minimise water loss in inside service;
- review the support and maintenance of information technology systems to ensure the continual operation and delivery of customer services in a cost-effective manner;
- promote e-billing and enhance the billing system; and
- continue to review the water tariff.

ANALYSIS OF FINANCIAL PROVISION

Pro	gramme	2014–15 (Actual) (\$m)	2015–16 (Original) (\$m)	2015–16 (Revised) (\$m)	2016-17 (Estimate) (\$m)
(1)	Water Supply: Planning and				
	Distribution	6,542.4	6,924.6	6,996.0	7,241.1
(2)	Water Quality Control	174.2	176.1	192.5	210.2
(3)	Customer Services	466.8	464.1	465.1	472.6
		7,183.4	7,564.8	7,653.6 (+1.2%)	7,923.9 (+3.5%)

(or +4.7% on 2015–16 Original)

Analysis of Financial and Staffing Provision

Programme (1)

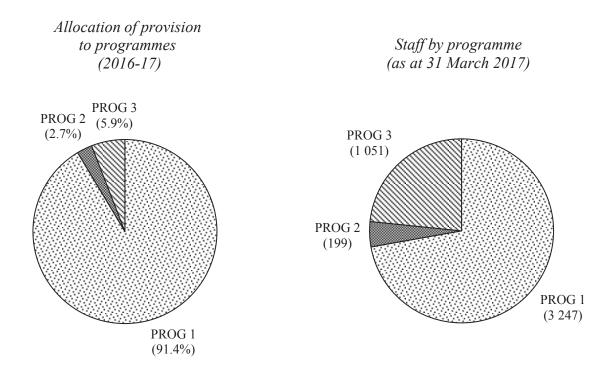
Provision for 2016–17 is \$245.1 million (3.5%) higher than the revised estimate for 2015–16. This is mainly due to the increased provision for purchase of water under the water supply agreement, electricity expenses and increase in requirement for replacing ageing plant and equipment, partly offset by reduced provision for expenses on contract maintenance and non-civil service contract staff. There will be creation of one civil service post for the initiative on meeting the Public Housing Production Target and six civil service posts in 2016–17 which will be offset by a reduction of six contract driver positions.

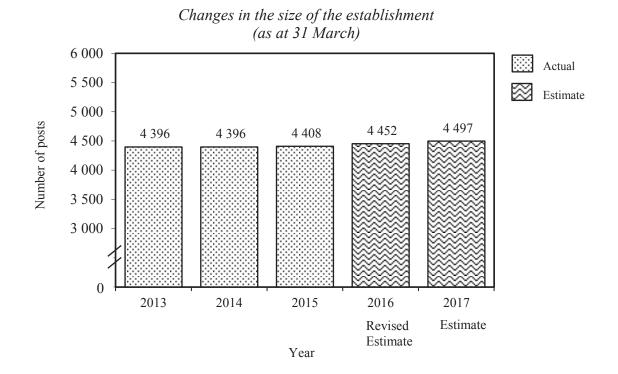
Programme (2)

Provision for 2016–17 is \$17.7 million (9.2%) higher than the revised estimate for 2015–16. This is mainly due to the increased provision for creation of 36 civil service posts for initiatives on safeguarding drinking water safety, strengthening the regulatory control of pipes and fittings and inspections of plumbing works.

Programme (3)

Provision for 2016–17 is \$7.5 million (1.6%) higher than the revised estimate for 2015–16. This is mainly due to the increased provision for creation of two civil service posts for processing new applications for salt water supply for flushing and conversion of fresh water for flushing to salt water for flushing in Pok Fu Lam area and the full-year effect of vacancies filled in 2015–16.





Sub- head (Code)		Actual expenditure 2014–15	Approved estimate 2015–16	Revised estimate 2015–16	Estimate 2016–17
	Operating Account	\$'000	\$'000	\$'000	\$'000
	•				
	Recurrent				
000 223	Operational expenses Purchase of water	3,212,470 3,959,340	3,241,569 4,319,550	3,320,896 4,319,550	3,361,935 4,543,660
	Total, Recurrent	7,171,810	7,561,119	7,640,446	7,905,595
	Total, Operating Account	7,171,810	7,561,119	7,640,446	7,905,595
	Capital Account Plant, Equipment and Works				
661	Minor plant, vehicles and equipment (block				
001	vote)Plant, vehicles and equipment (block	7,308 4,324	3,675	9,500 3,675	18,322η
	Total, Plant, Equipment and Works	11,632	3,675	13,175	18,322
	Total, Capital Account	11,632	3,675	13,175	18,322
	Total Expenditure	7,183,442	7,564,794	7,653,621	7,923,917

Provision of \$18,322,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents an increase of \$8,822,000 (92.9%) over the revised estimate of 2015–16. This reflects the updating of the ambit of this block vote subhead as set out in the Introduction to the Estimates and the increased requirements in 2016–17 for acquisition of laboratory equipment for safeguarding drinking water safety and replacement of ageing plant and equipment.

Details of Expenditure by Subhead

The estimate of the amount required in 2016–17 for the salaries and expenses of the Water Supplies Department is \$7,923,917,000. This represents an increase of \$270,296,000 over the revised estimate for 2015–16 and \$740,475,000 over the actual expenditure in 2014–15.

Operating Account

Recurrent

- **2** Provision of \$3,361,935,000 under *Subhead 000 Operational expenses* is for the salaries, allowances and other operating expenses of the Water Supplies Department.
- 3 The establishment as at 31 March 2016 will be 4 452 permanent posts. It is expected that there will be an increase of 45 permanent posts in 2016–17. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2016–17, but the notional annual mid-point salary value of all such posts must not exceed \$1,459,246,000.
 - 4 An analysis of the financial provision under Subhead 000 Operational expenses is as follows:

	2014-15	2015-16	2015-16	2016–17
	(Actual)	(Original)	(Revised)	(Estimate)
	(\$'000)	(\$'000)	(\$'000)	(\$'000)
Personal Emoluments				
- Salaries	1,483,622	1,519,649	1,555,425	1,594,373
- Allowances	115,322	114,924	120,375	120,360
- Job-related allowances	8,653	8,970	8,656	9,156
Personnel Related Expenses				
- Mandatory Provident Fund				
contribution	5,848	8,117	6,866	7,896
- Civil Service Provident Fund	-,-	-, -	-,	,
contribution	22,305	29,360	30,658	39,076
Departmental Expenses	Ź	,	,	,
- Light and power	658,831	653,523	664,800	689,800
- Hire of services and professional fees	101,315	98,832	105,368	105,368
- Fuel and lubricating oil	141	170	170	170
- Specialist supplies and equipment	93,237	93,141	86,621	90,235
- Maintenance materials	56,428	57,276	57,653	57,653
- Contract maintenance	533,757	519,334	541,540	505,596
- General departmental expenses	133,011	138,273	142,764	142,252
	3,212,470	3,241,569	3,320,896	3,361,935

⁵ Provision of \$4,543,660,000 under Subhead 223 Purchase of water is for the purchase of water from Guangdong.

Capital Account

Plant, Equipment and Works

6 Provision of \$18,322,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents an increase of \$8,822,000 (92.9%) over the revised estimate of 2015–16. This reflects the updating of the ambit of this block vote subhead as set out in the Introduction to the Estimates and the increased requirements in 2016–17 for acquisition of laboratory equipment for safeguarding drinking water safety and replacement of ageing plant and equipment.