In addition, there will be an estimated 23 directorate posts as at 31 March 2017 rising by two posts to 25 posts as at 31 March 2018.

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

	2015–16	2016–17	2016–17	2017–18
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	6,999.1	7,241.1	7,265.1 (+0.3%)	7,510.9 (+3.4%)

(or +3.7% on 2016–17 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 2016, the Department was able to plan, design and construct new projects for development of fresh water resources and 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.

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

Targets

	Target	2015 (Actual)	2016 (Actual)	2017 (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				
		2015 (Actual)	2016 (Actual)	2017 (Estimate)
projects under planning		30 7,125.6 27 4,597.0 40 4,134.8 972 708 000 272 380 000 365 5 015 600 349	29 6,800.0 24 6,594.8 37 3,673.7 987 224 000 260 061 000 366 5 015 600 349 15.2	29 6,520.0 23 6,900.2 38 3,256.6 970 000 000 283 000 000 365 5 015 600 350
education programmes / promotion campaigns on conservation§	water	13.0 —	3	3
schools joining education programmes on water conservation§		_	210	240

[§] New indicator as from 2016.

Matters Requiring Special Attention in 2017–18

- 6 During 2017–18, the Department will:
- continue to establish the Water Intelligent Network,
- 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,
- complete the review of total water management strategy,
- continue with the construction of the advance works for in-situ reprovisioning of Sha Tin water treatment works (South Works),
- continue with the design for a desalination plant at Tseung Kwan O whilst commencing the laying of the trunk watermains in advance,
- complete the financial and legal framework study and commence the construction of an infrastructure in stages
 for supplying reclaimed water for non-potable purposes in the north-eastern part of the New Territories including
 Sheung Shui and Fanling,
- · complete the feasibility study for the relocation of service reservoirs at Diamond Hill to cavern, and
- continue with the design and construction of the fresh and salt water supply systems in various stages to meet the increase in demand arising from housing development.

Programme (2): Water Quality Control

	2015–16	2016–17	2016–17	2017–18
	(Actual)	(Original)	(Revised)	(Estimate)
Financial provision (\$m)	189.7	210.2	258.1 (+22.8%)	271.4 (+5.2%)

(or +29.1% on 2016–17 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 2016, the Department achieved the set quality standards in the treatment of water and maintained effective measures in monitoring and controlling the quality of water supplied to consumers.
- 10 In response to the recommendations of Commission of Inquiry into Excess Lead Found in Drinking Water announced in May 2016, the Department has been working in consultation with the International Expert Panel on Drinking Water Safety on the development of a holistic plan comprising drinking water quality standards, sampling protocols, an enhanced water quality monitoring programme as well as water safety plans to safeguard the quality and safety of drinking water.
- 11 The Department has commenced to review the existing Waterworks Ordinance (Cap. 102) and Waterworks Regulations (Cap. 102A) to safeguard the safety and quality of drinking water in inside service.
 - 12 The key performance measures in respect of water quality control are:

Targets

	Target	2015 (Actual)	2016 (Actual)	2017 (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 complies with Water Quality	100	100	100	100
Objectives set by Water Supplies Department (%)	96	96	96	96
Indicators				
		2015 (Actual)	2016 (Actual)	2017 (Estimate)
Treated fresh water sampling visits at treatment works, service reserve connection points and consumers' taps/		26 455	26 055	26 000

	2015	2016	2017
	(Actual)	(Actual)	(Estimate)
chemical quality satisfying standards (%)bacteriological quality satisfying standards (%)	100	100	100
	100	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 2017–18

- 13 During 2017–18, the Department will carry out the following work to safeguard the quality and safety of drinking water:
 - continue to develop drinking water quality standards and sampling protocols,
 - implement the enhanced water monitoring programme,
 - complete a review on the departmental water safety plan,
 - develop templates and checklists for water safety plan for buildings for use by relevant stakeholders of building development, and
 - continue to review the existing Waterworks Ordinance and Waterworks Regulations and submit legislative amendment proposals to the Legislative Council in due course.

Programme (3): Customer Services

	2015–16 (Actual)	2016–17 (Original)	2016–17 (Revised)	2017–18 (Estimate)
Financial provision (\$m)	470.1	472.6	478.7 (+1.3%)	499.8 (+4.4%)
				(or +5.8% on 2016–17 Original)

Aim

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

Brief Description

- 15 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.
- 16 In 2016, the Department continued to implement 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.
 - 17 The key performance measures in respect of customer services are:

Targets

	Target	2015 (Actual)	2016 (Actual)	2017 (Plan)
processing application for taking up of				
consumership				
by post within seven working				
days (%)#	100	100	100	100
in person at Customer Enquiry				
Centres (all-purpose counter)				
within 15 minutes (%)	100	100	100	100

	Target	2015 (Actual)	2016 (Actual)	2017 (Plan)
issue of final bill upon closure of account within three working days (%)#refund of water deposit within	100	99.8	100	100
nine working days (%)#	100	99.9	99.9	99.9
processing application for meter test within eight working days (%)# processing application for autopay service (upon receipt of notification from banks) within three working	100	100	99.5	100
days (%)#accuracy of water meters (inaccuracy not	100	100	100	100
exceeding +/- 3%) (%)response time for attendance to fault complaints	100	97.0	97.3	97.5
within half a day for fresh water				
supply fault (%)	100	100	100	100
within 24 hours for others (%)notice for planned suspension of water supply issued not less than	100	100	100	100
four working days in advance (%)# conducting publicity campaigns and	100	100	100	100
seminars for promotion of combating unauthorised water consumptioninitiating an investigation after receiving a complaint on suspected	60	71	71	70
unauthorised water consumption within one working day (%)#	85	91	91	90

[#] Revised description from "day(s)" to "working day(s)" as from 2017 to avoid ambiguity. Basis for measuring performance remains unchanged.

Indicators

	2015 (Actual)	2016 (Actual)	2017 (Estimate)
no. of consumer accounts	2 903 000	2 942 000	2 983 000
fees, water charges and deposits demanded (\$m)arrears of water charges at year end in terms of no. of days	2,821.0	2,871.0	2,844.0
of water charges demanded	0.8	0.9	0.9
prosecutions	245	229	245
fines imposed (\$)	606,600	636,800	700,000
house service inspections due to irregular consumption	8 182	8 400	8 800
public enquiries and requests for services	1 329 349	1 387 824	1 336 800
disputes and complaints handled	15 581	15 684	15 600

Matters Requiring Special Attention in 2017–18

- 18 During 2017–18, 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;
- 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;
- · enhance the billing system; and
- review the water tariff.

ANALYSIS OF FINANCIAL PROVISION

Pro	gramme	2015–16 (Actual) (\$m)	2016–17 (Original) (\$m)	2016–17 (Revised) (\$m)	2017–18 (Estimate) (\$m)
(1)	Water Supply: Planning and				
	Distribution	6,999.1	7,241.1	7,265.1	7,510.9
(2)	Water Quality Control	189.7	210.2	258.1	271.4
(3)	Customer Services	470.1	472.6	478.7	499.8
		7,658.9	7,923.9	8,001.9 (+1.0%)	8,282.1 (+3.5%)

(or +4.5% on 2016–17 Original)

Analysis of Financial and Staffing Provision

Programme (1)

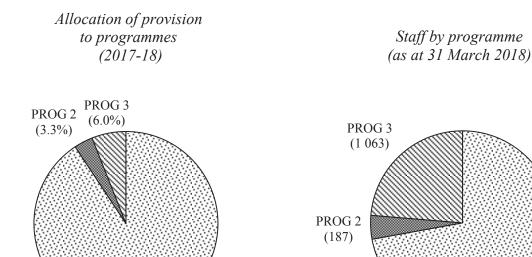
Provision for 2017–18 is \$245.8 million (3.4%) higher than the revised estimate for 2016–17. This is mainly due to the increased provision for purchase of water under the water supply agreement, increase in requirement for replacing ageing plant and equipment, partly offset by reduced provision for expenses on contract maintenance. In addition, there will be a net increase of three posts in 2017–18.

Programme (2)

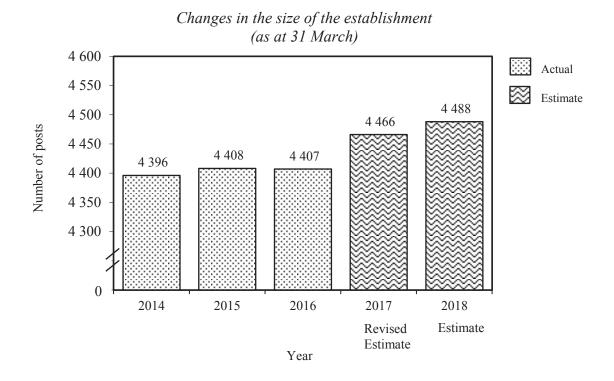
Provision for 2017–18 is \$13.3 million (5.2%) higher than the revised estimate for 2016–17. This is mainly due to the increased provision for creation of seven posts to take forward the recommendations of the Commission of Inquiry into Excess Lead Found in Drinking Water, consultancy studies for safeguarding drinking water quality and purchase of water treatment chemicals, partly offset by reduced requirement for acquisition of laboratory equipment.

Programme (3)

Provision for 2017–18 is \$21.1 million (4.4%) higher than the revised estimate for 2016–17. This is mainly due to the increased provision for operating expenses. In addition, there will be creation of 11 civil service posts in 2017–18 for conversion of non-civil service contract positions and agency staff, and creation of one civil service post for handling the additional workload arising from the control of unauthorised fresh water cooling towers.



PROG 1 (90.7%)



PROG 1 (3 238)

Sub- head (Code)		Actual expenditure 2015–16	Approved estimate 2016–17	Revised estimate 2016–17 \$'000	Estimate 2017–18
	Operating Account				
	Recurrent				
000 223	Operational expenses	3,326,680 4,319,550	3,361,935 4,543,660	3,439,875 4,543,660	3,482,132 4,788,290
	Total, Recurrent	7,646,230	7,905,595	7,983,535	8,270,422
	Total, Operating Account	7,646,230	7,905,595	7,983,535	8,270,422
	Capital Account				
	Plant, Equipment and Works				
661	Minor plant, vehicles and equipment (block vote)	9,125 3,592	18,322	18,322	11,672
	Total, Plant, Equipment and Works	12,717	18,322	18,322	11,672
	Total, Capital Account	12,717	18,322	18,322	11,672
	Total Expenditure	7,658,947	7,923,917	8,001,857	8,282,094

Details of Expenditure by Subhead

The estimate of the amount required in 2017–18 for the salaries and expenses of the Water Supplies Department is \$8,282,094,000. This represents an increase of \$280,237,000 over the revised estimate for 2016–17 and \$623,147,000 over the actual expenditure in 2015–16.

Operating Account

Recurrent

- **2** Provision of \$3,482,132,000 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 2017 will be 4 466 permanent posts. It is expected that there will be a net increase of 22 posts including two supernumerary posts in 2017–18. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2017–18, but the notional annual mid-point salary value of all such posts must not exceed \$1,535,481,000.
 - 4 An analysis of the financial provision under Subhead 000 Operational expenses is as follows:

	2015–16 (Actual) (\$'000)	2016–17 (Original) (\$'000)	2016–17 (Revised) (\$'000)	2017–18 (Estimate) (\$'000)
Personal Emoluments				
- Salaries	1,546,556 120,671 8,840	1,594,373 120,360 9,156	1,614,255 127,207 8,942	1,653,125 127,207 9,442
Mandatory Provident Fund contributionCivil Service Provident Fund	6,588	7,896	7,218	9,304
contribution Departmental Expenses	30,210	39,076	40,846	52,992
- Light and power	655,890 101,378 159 77,100 54,903 586,215 138,170	689,800 105,368 170 90,235 57,653 505,596 142,252	667,992 114,851 170 114,495 59,160 530,415 154,324	667,992 110,058 170 124,495 59,160 501,606 166,581
	3,326,680	3,361,935	3,439,875	3,482,132

⁵ Provision of \$4,788,290,000 under Subhead 223 Purchase of water is for the purchase of water from Guangdong.

Capital Account

Plant, Equipment and Works

6 Provision of \$11,672,000 under *Subhead 661 Minor plant, vehicles and equipment (block vote)* represents a decrease of \$6,650,000 (36.3%) against the revised estimate of 2016–17. This is mainly due to reduced requirements in 2017–18 for acquisition of laboratory equipment and replacement of ageing plant and equipment.