Controlling officer: the Director of Water Supplies will account for expenditure under this Head.	
Estimate 2021–22	\$9,236.6m
Establishment ceiling 2021–22 (notional annual mid-point salary value) representing an estimated 4 778 non-directorate posts as at 31 March 2021 reducing by four posts to 4 774 posts as at 31 March 2022	\$1,870.2m
In addition, there will be an estimated 25 directorate posts as at 31 March 2021 reducing by two posts to 23 posts as at 31 March 2022.	
Commitment balance	\$436.0m

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

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	7,895.0	8,205.3	8,219.0 (+0.2%)	8,150.4 (-0.8%)
				(or –0.7% on 2020–21 Original)

Aim

2 The aim is to develop water resources and to plan, design, construct, operate and maintain 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 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.

Flushing water

- assessing flushing water (comprising salt water and recycled water) supply requirements;
- developing flushing water resources to cope with such requirements;
- planning, designing and constructing reliable and efficient flushing water supply and distribution systems to meet such requirements in good time; and
- operating and maintaining flushing water supply and distribution systems.
- 4 In 2020, the Department was able to plan, design and construct new projects for the development of water resources and extension of water supplies to new developments and to operate and maintain water supply and distribution systems to provide adequate and uninterrupted supplies of water throughout the year. Furthermore, the Department commenced the in-situ reprovisioning of Sha Tin water treatment works (South Works) and the construction of the grey water treatment plant at the Anderson Road Quarry Development.

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

Targets

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
supply pressure	υ	,	,	,
fresh water supply—maintaining				
normally a minimum residual				
head of between 15 and 30				
metres in the distribution systems	100	100	100	100
except at their extremities (%)	100	100	100	100
flushing water supply—maintaining normally a minimum residual				
head of 15 metres in the				
distribution systems except at				
their extremities (%)	100	100	100	100
Indicators				
		2019	2020	2021
		(Actual)	(Actual)	(Estimate)
projects under planning		29	30	31
projects under planningvalue of projects under planning (\$m)	•••••	6,724.6	8,198.2	8,441.2
projects under design		27	28	27
value of projects under design (\$m)		9,510.7	13,264.1	22,310.3
projects under construction		38	38	38
expenditure of works under construction (\$m)		3,218.6	3,737.4	4,996.2
fresh water supplied (m ³)		996 142 000	1 027 124 000	992 000 000
salt water supplied (m ³)		306 777 000	317 744 000	311 000 000
days on full supply		365	366	365
total treatment works capacity (m³/day)		4 942 600	4 679 600	4 679 600
total pumping plant capacity (megawatts)		357	360	348
leakage rate of water mains (%)		15.2	14.8	14.8
education programmes / promotion campaigns on v		_	_	7
conservation		5	5	7
schools joining education programmes on water conservation		596	676	750
COHSCI valiOH		530	0/0	730

Matters Requiring Special Attention in 2021–22

- 6 During 2021–22, the Department will:
- 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 establishment of the Water Intelligent Network;
- continue with the design, build, operate contract of the first stage of the desalination plant at Tseung Kwan O and the laying of the associated water mains;
- continue with the construction of infrastructure in stages for supplying reclaimed water for non-potable uses in the north-eastern part of the New Territories including Sheung Shui and Fanling, construction of grey water treatment plant for supplying treated grey water for non-potable uses in the Anderson Road Quarry Development and the preparatory work for the legislation for supply of recycled water in Hong Kong;
- continue with the construction of the main works for in-situ reprovisioning of Sha Tin water treatment works (South Works);
- commence construction of the main works for the Siu Ho Wan water treatment works extension;
- commence the investigation and detailed design for the Ngau Tam Mei water treatment works extension;
- continue with the investigation and detailed design for the relocation of Diamond Hill fresh water and salt water service reservoirs into caverns as well as the feasibility studies for the relocation of Yau Tong fresh water and salt water service reservoirs and Tsuen Wan fresh water service reservoir into caverns, and continue with the feasibility study for strategic cavern areas in Lam Tei to accommodate nearby existing and proposed service reservoirs; and
- continue with the planning, design and construction of fresh and flushing water supply systems to meet the demands arising from housing developments.

Programme (2): Water Quality Control

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	297.3	479.7	360.1 (-24.9%)	489.9 (+36.0%)
				(or +2.1% on 2020–21 Original)

Aim

7 The aim is to control the quality of water supplied to customers in accordance with the Hong Kong Drinking Water Standards and the Department's standards for flushing water.

Brief Description

8 The Department is responsible for ensuring the purity, wholesomeness and safety of treated fresh water supplied to customers conforming to the Hong Kong Drinking Water Standards in all respects and at all times. The Department is also responsible for ensuring the quality of flushing water supplied to customers conforming to the Department's standards. This work involves:

Fresh water

- water treatment—ensuring that treated water conforms chemically and bacteriologically to the Hong Kong Drinking Water Standards; and
- water quality control—ensuring that the drinking water at treatment works, service reservoirs, connection points and consumers' taps conforms to the Hong Kong Drinking Water Standards.

Flushing water

- water treatment ensuring that the flushing water conforms chemically and bacteriologically to the Department's standards; and
- water quality control—ensuring that the flushing water at customer ends conforms to the Department's standards.
- 9 In 2020, the Department achieved the water quality standards in water treatment and maintained effective monitoring and control of the quality of water supplied to customers. The Department continued to take forward the Action Plan for Enhancing Drinking Water Safety in Hong Kong. The Department launched the Water Safety Plan Subsidy Scheme to encourage implementation of Water Safety Plans in private buildings. The Department also continued with the review of the Waterworks Ordinance (Cap. 102) and Waterworks Regulations (Cap. 102A) and launched a public consultation on the proposed legislative amendments covering amongst others enhancing the regulatory control of plumbing works and materials to safeguard the drinking water quality.
 - 10 The key performance measures in respect of water quality control are:

Targets

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
fresh water quality—water supplied to customers complies with the Hong Kong Drinking Water Standards (%) flushing water quality—salt water supplied to customers complies with	100	100	100	100
Water Quality Objectives set by Water Supplies Department (%)	97.0	98.5	99.6	97.0
Indicators				
		2019 (Actual)	2020 (Actual)	2021 (Estimate)
Treated fresh water sampling visits at treatment works, service reserve				
connection points and consumers' taps		28 002 100	25 943 100	28 000 100
bacteriological quality satisfying standards (%)		100	100	100

Matters Requiring Special Attention in 2021–22

- 11 During 2021–22, the Department will carry out the following work to safeguard the drinking water quality:
- continue to implement the Water Safety Plan Subsidy Scheme to encourage private building owners and property
 management agents to implement Water Safety Plans in their buildings in order to further safeguard drinking
 water quality in the community;
- continue the publicity and public education on drinking water safety; and
- continue with the review of the Waterworks Ordinance and Waterworks Regulations to amongst others safeguard the drinking water quality through enhanced regulatory control of plumbing works and materials.

Programme (3): Customer Services

	2019–20 (Actual)	2020–21 (Original)	2020–21 (Revised)	2021–22 (Estimate)
Financial provision (\$m)	571.3	608.4	579.7 (–4.7%)	596.3 (+2.9%)
				(or –2.0% on 2020–21 Original)

Aim

12 The aim is 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 enforcing the Waterworks Ordinance and Waterworks Regulations. This work involves:
 - ensuring efficiency and effectiveness in dealing with customer enquiries and complaints and in processing applications for water supplies;
 - enforcing the Waterworks Ordinance and Waterworks Regulations;
 - ensuring timeliness of billing and promptness in updating customer accounts;
 - monitoring closely the level of arrears of water charges; and
 - coping with the growth in the number of customer accounts.
- 14 In 2020, the Department continued to provide efficient and effective services to customers and enforce the Waterworks Ordinance and Waterworks Regulations including streamlining the procedures for processing applications for water supplies as well as the control of plumbing materials and commissioning of new plumbing installations. The Department also continued with the review of the Waterworks Ordinance and Waterworks Regulations and launched a public consultation on the proposed legislative amendments covering amongst others enhancing regulatory control of inside service leakage.
 - 15 The key performance measures in respect of customer services are:

Targets

	Target	(Actual)	(Actual)	2021 (Plan)
processing application for taking up of				
consumership				
by post within seven working				
days (%)	100	100	99.9	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				
within three working days (%)	100	100	100	100
refund of water deposit within				
nine working days (%)	100	99.9	99.9	100
processing application for meter test				
within eight working days (%)	100	99.6	100	100
processing application for autopay				
service (upon receipt of notification				
from banks) within three working				
days (%)	100	100	100	100

2010

2020

2021

	Target	2019 (Actual)	2020 (Actual)	2021 (Plan)
accuracy of water meters (inaccuracy not exceeding +/- 3%) (%)response time for attendance to fault complaints	100	98.0	98.8	98.0
within half a day for fresh water supply fault (%)	100 100	100 100	100 100	100 100
water supply issued not less than four working days in advance (%) conducting publicity campaigns and seminars for promotion of combating	100	100	100	100
unauthorised water consumption initiating an investigation after receiving a complaint on suspected	70	70	70	70
unauthorised water consumption within one working day (%)	92	91	92	92
Indicators				
		2019 (Actual)	2020 (Actual)	2021 (Estimate)
no. of customer accounts		3 071 000 2,914.1	3 110 000 2,260.0	3 150 000 2,950.0
arrears of water charges at year end in terms of no. of water charges demanded		0.8 236 472,870	1.2 152 212,800	0.9 230 322,000
house service inspections due to irregular consump public enquiries and requests for services	otion	8 630 1 476 443 13 135	10 374 1 437 787 20 910	9 487 1 435 615 15 751

Matters Requiring Special Attention in 2021–22

- 16 During 2021–22, the Department will continue to:
- streamline and enhance the efficiency of the approval process of application of water supplies;
- strengthen regulatory control on inside service leakage to minimise water loss in inside services;
- analyse the public consultation results on the proposed legislative amendments to the Waterworks Ordinance and
 Waterworks Regulations and proceed with the corresponding law drafting work relating to regulation of
 plumbing works, control of plumbing materials, safeguarding drinking water safety at consumers' taps, the
 mandatory water efficiency labelling scheme, the enhancement of regulatory control of inside service leakage
 and supply of recycled water, as well as the revision of other parts of the legislation;
- provide necessary technical advice and support to building owners and property management agents and render assistance to the market in developing capacity to deal with inside service leakage;
- support and maintain the information technology systems to ensure the continual delivery of customer services in a cost-effective manner; and
- enhance the billing system.

ANALYSIS OF FINANCIAL PROVISION

Pro	gramme	2019–20 (Actual) (\$m)	2020–21 (Original) (\$m)	2020–21 (Revised) (\$m)	2021–22 (Estimate) (\$m)
(1)	Water Supply: Planning and				
, ,	Distribution	7,895.0	8,205.3	8,219.0	8,150.4
(2)	Water Quality Control	297.3	479.7	360.1	489.9
(3)	Customer Services	571.3	608.4	579.7	596.3
		8,763.6	9,293.4	9,158.8 (-1.4%)	9,236.6 (+0.8%)

(or -0.6% on 2020-21 Original)

Analysis of Financial and Staffing Provision

Programme (1)

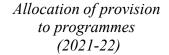
Provision for 2021–22 is \$68.6 million (0.8%) lower than the revised estimate for 2020–21. This is mainly due to the reduced provision for hire of services and professional fees, contract maintenance, general departmental expenses, partly offset by increased provision for personal emoluments, personnel related expenses, purchase of water and light and power. There will be a net decrease of four civil service posts primarily for handling water supply planning and distribution matters.

Programme (2)

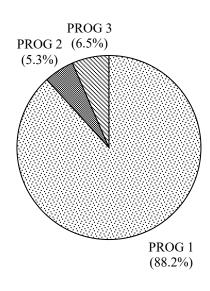
Provision for 2021–22 is \$129.8 million (36.0%) higher than the revised estimate for 2020–21. This is mainly due to the increased provision for implementation of the Water Safety Plan Subsidy Scheme, hire of services and professional fees and other operating expenses relating to water quality control. There will be a net decrease of two civil service posts for enhancing drinking water safety.

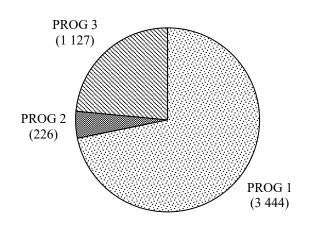
Programme (3)

Provision for 2021–22 is \$16.6 million (2.9%) higher than the revised estimate for 2020–21. This is mainly due to the increased provision for personal emoluments, personnel related expenses, acquisition of equipment for the customer telephone enquiry centre and other operating expenses relating to customer services.

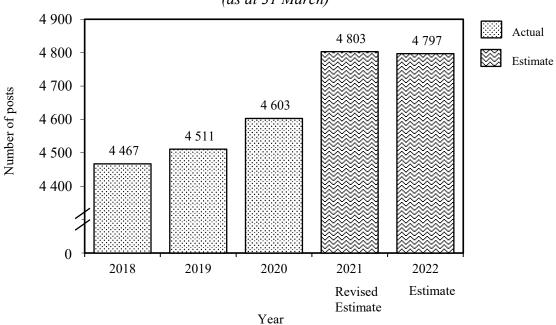


Staff by programme (as at 31 March 2022)





Changes in the size of the establishment (as at 31 March)



Sub- head (Code)		Actual expenditure 2019–20 8'000	Approved estimate 2020–21 \$'000	Revised estimate 2020–21	Estimate 2021–22
	Operating Account	\$ 000	\$ 000	\$ 000	\$ 000
	Recurrent				
000 223	Operational expenses	3,937,913 4,809,620	4,314,610 4,844,620	4,308,472 4,833,069	4,258,252 4,844,883
	Total, Recurrent	8,747,533	9,159,230	9,141,541	9,103,135
	Non-Recurrent				
700	General non-recurrent	_	120,000	4,000	120,000
	Total, Non-Recurrent		120,000	4,000	120,000
	Total, Operating Account	8,747,533	9,279,230	9,145,541	9,223,135
	Capital Account				
	Plant, Equipment and Works				
661	Minor plant, vehicles and equipment (block vote)	16,020	14,184	13,296	13,465
	Total, Plant, Equipment and Works	16,020	14,184	13,296	13,465
	Total, Capital Account	16,020	14,184	13,296	13,465
	Total Expenditure	8,763,553	9,293,414	9,158,837	9,236,600

Details of Expenditure by Subhead

The estimate of the amount required in 2021–22 for the salaries and expenses of the Water Supplies Department is \$9,236,600,000. This represents an increase of \$77,763,000 over the revised estimate for 2020–21 and \$473,047,000 over the actual expenditure in 2019–20.

Operating Account

Recurrent

- 2 Provision of \$4,258,252,000 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 2021 will be 4 803 posts including two supernumerary posts. It is expected that there will be a net decrease of six posts in 2021–22. Subject to certain conditions, the controlling officer may under delegated power create or delete non-directorate posts during 2021–22, but the notional annual mid-point salary value of all such posts must not exceed \$1,870,199,000.
 - 4 An analysis of the financial provision under Subhead 000 Operational expenses is as follows:

	2019–20 (Actual) (\$'000)	2020–21 (Original) (\$'000)	2020–21 (Revised) (\$'000)	2021–22 (Estimate) (\$'000)
Personal Emoluments				
- Salaries	1,816,921 156,736 10,837	1,891,508 135,708 12,580	1,855,595 150,000 12,581	1,895,947 148,201 12,581
- Mandatory Provident Fund				
contribution - Civil Service Provident Fund	13,374	17,798	15,397	17,850
contribution	80,348	101,188	93,633	118,486
Departmental Expenses		•	·	ŕ
- Light and power	740,768	776,700	780,390	791,980
- Hire of services and professional fees	125,298	290,972	227,312	160,981
- Fuel and lubricating oil	137	246	246	246
- Specialist supplies and equipment	100,196	145,862	140,734	136,660
- Maintenance materials	55,713	58,188	52,931	53,358
- Contract maintenance	579,816	595,316	714,488	665,740
- General departmental expenses	257,769	288,544	265,165	256,222
	3,937,913	4,314,610	4,308,472	4,258,252

⁵ Provision of \$4,844,883,000 under Subhead 223 Purchase of water is for the purchase of water from Guangdong.

Commitments

Sub- head (Code)	Item (Code)	Ambit	Approved commitment \$'000	Accumulated expenditure to 31.3.2020 \$'000	Revised estimated expenditure for 2020–21	Balance \$'000
Opera	ting Ac	count				
700		General non-recurrent				
	802	Water Safety Plan Subsidy Scheme	440,000	_	4,000	436,000
		Total	440,000		4,000	436,000