

政府總部
發展局
工務科

香港添馬政府總部



Works Branch
Development Bureau
Government Secretariat
Central Government Offices, Tamar,
Hong Kong

本局網址 Our Website: <http://www.devb.gov.hk>
本局檔號 Our Ref.: in DEVB(W)4058/345/WF
來函檔號 Your Ref.: CB1/F/A/6

電話 Tel No.: 3509 8277
傳真 Fax No.: 2801 5034
電郵 E-mail: Jimmy_pm_chan@devb.gov.hk

4 June 2012

Clerk to the Public Works Subcommittee
Legislative Council Complex
1 Legislative Council Road,
Central, Hong Kong
(Attn: Mr Derek LO)

Dear Mr LO,

Public Works Subcommittee
Follow-up to meeting on 16 May 2012
PWSC(2012-13)18

Thank you for your letter of 21 May 2012 to the Secretary for Financial Services and the Treasury regarding the above matter.

When item **345WF** entitled "Planning and investigation study of desalination plant at Tseung Kwan O" (Item No. PWSC(2012-13)18) was discussed at the above meeting, Members requested the Administration to provide supplementary information on the following –

- (a) the annual rainfall during the past 30 years in tabulated format; and
- (b) the basis of the population forecast to support the Administration's calculation that the annual fresh water demand would increase steadily from 923 to about 1 100 million cubic metres from 2011 to 2030.

I am pleased to provide the requested information at **Annex**.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Jimmy PM Chan'.

(Jimmy PM CHAN)
for Secretary for Development

Encl.

c.c. Ir Dr Hon Raymond HO Chung-tai, SBS, S.B.St.J., JP
Chairman of the Public Works Subcommittee, w/e
Secretary for Financial Services and the Treasury (attn.: Ms Joyce HO), w/e
Director of Water Supplies, w/e

Public Works Subcommittee
Follow-up to meeting on 16 May 2012
PWSC(2012-13)18

(a) Annual Rainfall during the Past 30 Years

1. The annual rainfall recorded in the past 30 years are tabulated below –

Year	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
annual rainfall (mm)	1 660	3 248	2 894	2 017	2 191	2 338	2 319	1 685	1 945	2 047

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
annual rainfall (mm)	1 639	2 679	2 344	2 726	2 754	2 249	3 343	2 565	2 129	2 752

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
annual rainfall (mm)	3 092	2 490	1 942	1 739	3 215	2 628	1 707	3 066	2 182	2 372

mm: millimetres

2. The average annual rainfall over the past 30 years from 1981 to 2010 is 2 399 mm. Taking the rainfall of 1 477 mm in 2011 into account, the average annual rainfall during the period from 1982 to 2011 is 2 392 mm.

(b) Basis of the Population Forecast

3. We estimated that the annual fresh water demand would increase from 923 million cubic metres (mcm) in 2011 to about 1079 mcm, say 1100 mcm in 2030. In our long-term projection of water consumption in Hong Kong, we take into account projected growth in population and economy. The projection in domestic water consumption is based on the population forecast in the “Hong Kong Population Projections 2010-2039” published by the Census and Statistics

Department, which uses the standard method of population projections, i.e. the “component method”. The population at a certain base year is brought forward by age and sex under separate projections of fertility, mortality and movement, year after year until the end of the projection period. The projection in non-domestic water consumption is mainly governed by the projected economic growth advised by the Government Economist, which takes account of the Gross Domestic Product projection in Hong Kong.

**Development Bureau
Water Supplies Department
June 2012**