

政府總部

發展局

工務科

香港添馬政府總部



CB(1)289/12-13(01)
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)4058/334/WF

來函檔號 Your Ref.:

電話 Tel No.: 3509 8277

傳真 Fax No.: 2801 5034

電郵 E-mail: Jimmy_pm_chan@devb.gov.hk

7 December 2012

Clerk to the Panel on Development
Legislative Council Complex
1 Legislative Council Road,
Central, Hong Kong
(Attn: Ms Sharon CHUNG)

Dear Ms CHUNG,

Panel on Development
Follow-up to Meeting on 27 November 2012
334WF – Expansion of Tai Po water treatment works and
ancillary raw water and fresh water transfer facilities – part 2 works

When item **334WF** entitled “Expansion of Tai Po water treatment works and ancillary raw water and fresh water transfer facilities – part 2 works” (Item No. CB(1)168/12-13(01)) was discussed at the above meeting, Members requested the Administration to provide supplementary information on the following –

(a) the costs for the following two options –

Option 1 - To uprate the water treatment facilities at Tai Po WTW as proposed and to reprovise Sha Tin WTW;

Option 2 - To uprate the water treatment facilities at Tai Po WTW to increase its output capacity (currently at 400 million litre per day) to the extent that it can take up the full loading of Sha Tin WTW, which will then have no need for reproviseing; and

(b) a comparison between the cost-effectiveness of Options 1 and 2, taking into account the potential value of the land to be released from the closure of Sha Tin WTW.

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

Yours sincerely,

A handwritten signature in black ink, appearing to be 'Jimmy PM Chan', with a long horizontal flourish extending to the right.

(Jimmy PM CHAN)
for Secretary for Development

Encl.

c.c. Director of Water Supplies, w/e

Question

(a) the costs for the following two options –

Option 1 – To uprate the water treatment facilities at Tai Po WTW as proposed and to reprovision Sha Tin WTW;

Option 2 – To uprate the water treatment facilities at Tai Po WTW to increase its output capacity (currently at 400 million litre per day) to the extent that it can take up the full loading of Sha Tin WTW, which will then have no need for reprovisioning; and

(b) a comparison between the cost-effectiveness of Options 1 and 2, taking into account the potential value of the land to be released from the closure of Sha Tin WTW.

Response

The total water demand of the areas currently supplied by Tai Po water treatment works (WTW) and Sha Tin WTW will require a combined water treatment capacity exceeding 1,200 million litres per day by 2016. Based on our water consumption projection beyond 2030, the demand for fresh water in Hong Kong will continue to grow. However, the existing site of Tai Po WTW can at most be expanded to treat 1 200 million litres of water per day even with an already very compact design. The existing Tai Po WTW site cannot be further expanded due to severe site constraints and technical considerations. Therefore, it is not possible to meet the water supply demand to the areas serviced by Tai Po WTW and Sha Tin WTW in the long run by merely expanding TPWTW.

It is also undesirable to rely on a single water treatment works to provide over half of the total demand of fresh water in Hong Kong. Our proposed strategy can achieve a more balanced distribution of treatment capacity between Tai Po WTW and Sha Tin WTW, thereby enhancing the overall resilience, flexibility and reliability of the water supply system.

The cost estimate of the works in the South Works of Sha Tin WTW, which would be the first phase of the Sha Tin WTW reprovisioning project, is in the same order as that for the works in expanding Tai Po WTW pending more detailed estimation upon completion of detailed design of the reprovisioning works for Sha Tin WTW.