



水務監督辦事處
Office of the Water Authority

香港灣仔告士打道七號入境事務大樓
Immigration Tower, 7 Gloucester Road, Hong Kong.

電子郵遞
e-mail wsdinfo@wsd.gov.hk

26 August 2002

電話
Telephone 2829 4446

圖文傳真
Facsimile 2824 0578

權號
Reference (51) in WSD 3318/50 Pt.4

Distribution : To all Licensed Plumbers and Authorized Persons

Dear Sirs,

WSD Circular Letter No. 6/2002
Cleaning and Sterilization of
Fresh Water Mains of Inside Service

I attach a copy of the guidelines on the cleaning and sterilization of fresh water mains of inside service for your reference.

Yours faithfully,

(P.C. MAK)
for Water Authority

Encl.
(with Chinese translation)
c.c. WSD 3608/9/27/95
WSD 1612/4/7

Cleaning and Sterilization of Fresh Water Mains of Inside service

The newly installed fresh water mains of inside service should be cleaned and sterilized to the satisfaction of the Water Authority before they are put into operation. Also after repair or maintenance, if there is a possibility that extraneous materials can get into the fresh water mains, the fresh water mains should be cleaned and sterilized before water supply is resumed. The followings are the guidelines on how to clean and sterilize the affected water mains for your reference:-

(a) Newly Installed Fresh Water Mains

- (1) Remove all extraneous materials inside the water mains. Fill the fresh water mains slowly with water and carry out the required water pressure test. If the result of the water pressure test is satisfactory, clean the fresh water mains internally and flush them with potable water. For long fresh water mains of sizes less than 600 mm in diameter, swab to remove the dirt and materials inadvertently left in the water mains and flush them with potable water.
- (2) Fill the water mains completely with a homogeneous solution of chloride of lime for sterilization. The concentration of the solution has to meet the requirement that when the water mains are filled up with water, the free chlorine in the water will be at least 30 p.p.m. Keep the water mains under sterilization for 24 hours. After sterilization, flush the water mains thoroughly with potable water.
- (3) Arrange with the Waterworks Chemists of the Water Authority to collect bacteriological and chemical samples for analysis. The contact persons are:-

Areas	Contact Person	Telephone No.
Hong Kong and Outlying Islands	Chemist/Treatment (1)	2891 9276
Kowloon and New Territories East	Chemist/Treatment (2)	2691 7689
New Territories West	Chemist/Treatment (3)	2450 6121

If the result is satisfactory, the Water Authority will inform the Licensed Plumbers and the water mains can then be put into operation.

- (4) To avoid any possibility of contamination, the water mains should be put into operation within 7 days from the successful sterilization. In this respect, the Licensed Plumbers are advised to allow sufficient time for the Waterworks Chemists to carry out sampling and analysis and to avoid arranging sterilization immediately before long public holidays.

(b) Repair or Maintenance of Fresh Water Mains

- (1) Keep the excavation surfaces of trench clear from the pipe body and remove all extraneous materials in the fresh water mains. If the trench is flooded, pump water out of the trench.
- (2) Clean the internal surface of the exposed pipe ends and the replacement pipe with a solution of chloride of lime. The concentration of free chlorine in the solution should be at least 30 p.p.m.
- (3) Fill the section of the water mains that has been shut down for repair or maintenance with a homogeneous solution of chloride of lime for sterilization. The concentration of the solution has to meet the requirement that when the water mains are completely filled with water, the free chlorine in the water will be at least 30 p.p.m. Fill the water mains with water and isolate them again when filling is completed. Keep the water mains under sterilization for at least 30 minutes. After sterilization, flush the water mains thoroughly with potable water through a fire hydrant, washout or, if they are not available, through a submain temporarily put out of service.