



水務署
Water Supplies Department

總部 Headquarters

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24 December 2024

Distribution: To all Licensed Plumbers and Authorized Persons

Dear Sirs,

WSD Circular Letter No. 10/2024

**Simplified Flushing Protocol
for Commissioning Stainless Steel Fresh Water Plumbing System**

This Circular Letter promulgates a simplified flushing protocol for commissioning a Stainless Steel Fresh Water Plumbing System¹.

Simplified Flushing Protocol

2. With the low metal leaching behaviour of stainless steel pipes and fittings, the Water Supplies Department (WSD) has developed a simplified flushing protocol for Stainless Steel Fresh Water Plumbing System comprising the following major steps (please see **Appendix I** for details):

- (i) Flush with tap water for 20 minutes to remove any construction debris, foreign objects/particles and/or dirt;
- (ii) Soak in tap water for 24 hours;
- (iii) Final flush with tap water for at least 2 minutes;
- (iv) Disinfect by 50 ppm hypochlorite solution for 1 hour or 30 ppm hypochlorite solution for 24 hours;
- (v) Flush briefly with tap water before conducting test on bacteriological parameters;
- (vi) Collect water samples for on-site testing on free residual chlorine;
- (vii) Collect water samples for testing on bacteriological parameters;
- (viii) Carry out 6-hour stagnation; and

¹ Such system refers to fresh water inside services using (i) stainless steel and/or ductile iron pipes and fittings for upfeed and downfeed; and (ii) stainless steel pipes and fittings for the rest.

- (ix) Collect stagnated water samples for testing on chemical and physical parameters (excluding free residual chlorine) and metal parameters in accordance with the Sampling Protocol for Commissioning Test of Fresh Water Plumbing System²

3. The above simplified flushing protocol is an alternative option to the current systematic flushing protocol for commissioning a fresh water plumbing system. Project proponent or its responsible licensed plumber(s) who opts to adopt the simplified flushing protocol shall seek agreement from the Water Authority (WA) with the support of the as-built Form WWO 1149 appended to Form WWO 46 Part IV. Besides, the record of simplified flushing at **Appendix II**, in lieu of Appendix 18 or 18A of the “Guide to Application for Water Supply”, shall be submitted to the WA after receiving Form WWO 46 Part V(a).

Effective Date

4. The above arrangement shall take immediate effect.

Enquiry

5. Should you have any enquiry, please contact our Engineer/Technical Support(3) at telephone no. 2829 4726.

Yours faithfully,

(Original Signed)

(CHAN Chi Yuen, Stanley)
for Water Authority

Encl.
(with Chinese translation)

² See Appendix 19(B) of the “Guide to Application for Water Supply”.

c.c.

Housing Department (Attn: SM/QM)

Buildings Department

Architectural Services Department

Fire Services Department

The Hong Kong Housing Society

The Hong Kong Institute of Architects

The Hong Kong Institution of Engineers

The Hong Kong Institute of Surveyors

The Chartered Institute of Plumbing and Heating Engineering – Hong Kong Branch

Hong Kong Plumbing and Sanitary Ware Trade Association Ltd.

Hong Kong Licensed Plumbing Professionals Association Ltd.

Hong Kong Water Works Professionals Association Ltd.

The Hong Kong Institution of Plumbing and Drainage Ltd.

Plumbing Technology Student Association

The Association of Registered Fire Service Installation Contractors of Hong Kong Limited

Real Estate Developers Association of Hong Kong

The Hong Kong Construction Association, Ltd.

Hong Kong Registered Contractors Association Company Ltd.

The Hong Kong Federation of Electrical & Mechanical Contractors Ltd.

Contractor's Authorised Signatory Association Ltd.

Registered Minor Works Contractor Signatory Association Ltd.

Hong Kong General Building Contractors Association Ltd.

Hong Kong Institute of Vocational Education

Hong Kong Institute of Construction, Construction Industry Council

Hong Kong Licensed Plumbers Union Limited

Hong Kong Metropolitan University Li Ka Shing School of Professional and Continuing Education

The Association of Electrical and Mechanical Engineering (Hong Kong) Ltd.

Pipeman Engineering (International) Limited

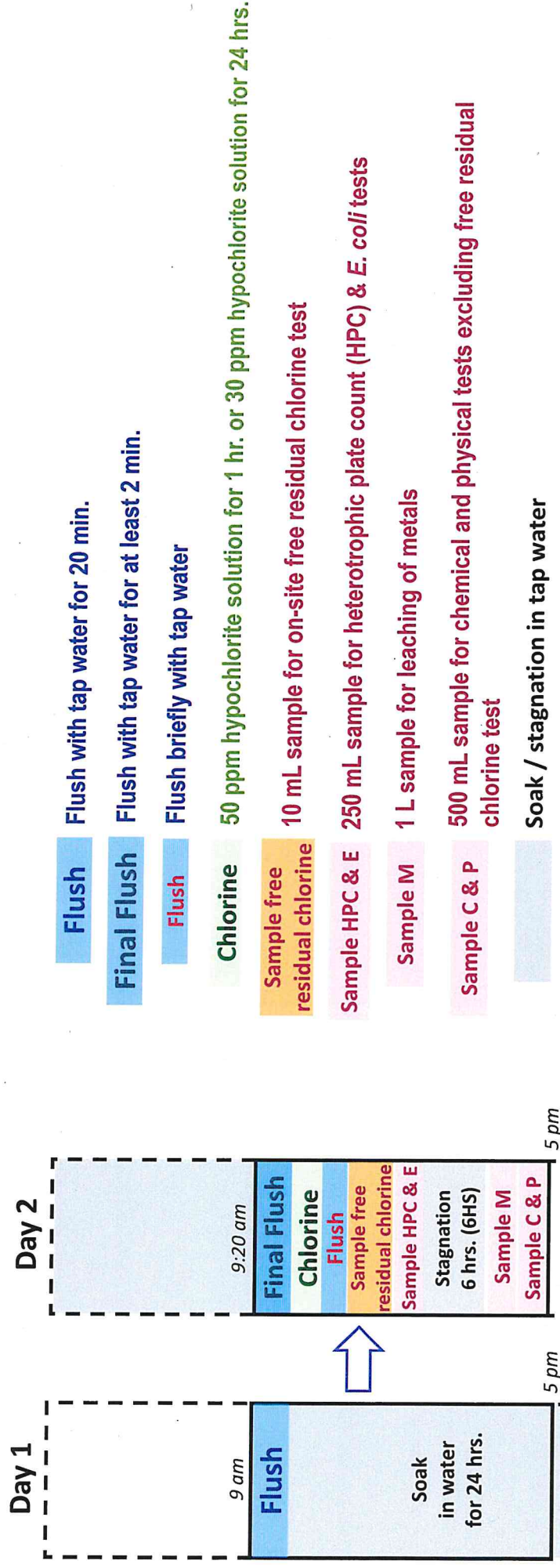
Hong Kong Institute of Water and Sanitation Safety

Hong Kong Plumbing General Union

WSD 3318/15

Proposed Simplified Flushing Protocol for Commissioning Stainless Steel Fresh Water Plumbing System¹

Appendix I



¹ Such system refers to fresh water inside services using (i) stainless steel and/or ductile iron pipes and fittings for upfeed and downfeed; and (ii) stainless steel pipes and fittings for the rest.

Record of Simplified Flushing for Commissioning Stainless Steel Fresh Water Plumbing System

(For new buildings, one record is required for each floor)

(For village type houses, only one record is required for each village type house)

Type of application: *New building / village type house

ASN: _____

Location of new plumbing works: _____

Simplified flushing has been carried out at the above-mentioned plumbing works as follows:

Floor [†]	Date	Step	Start Time	End Time
		Thoroughly flush with tap water at all drinking water tap(s) for at least 20 minutes		
		Soak in tap water for at least 24 hours		
		Final thorough flush with tap water at all drinking water tap(s) for at least 2 minutes		

LP should note that all strainers, if installed at drinking water taps, must be removed before carrying out simplified flushing.

Record of additional simplified flushing before re-testing (if applicable):

Floor [†]	Date	Step	Start Time	End Time
		Thoroughly flush with tap water at all drinking water tap(s) for at least 20 minutes		
		Soak in tap water for at least 24 hours		
		Final thorough flush with tap water at all drinking water tap(s) for at least 2 minutes		

[†] The record of water meter readings at the above-mentioned floor is detailed as follows:

Meter No.							
Reading before start of simplified flushing							
Reading after end of simplified flushing							
Meter No.							
Reading before start of simplified flushing							
Reading after end of simplified flushing							
Meter No.							
Reading before start of simplified flushing							
Reading after end of simplified flushing							

Signature of Licensed Plumber (LP)

Name in full

LP's Licence No.

Date

* Delete where inappropriate

[†] Applicable to new buildings