

Please address any correspondence to Water Supply (Network) Department

Your Ref :

Our Ref : WSN 00300/38

4 Aug 16

To Relevant Government Agencies, Statutory Boards, Professional Engineers, Licensed Plumbers, M&E Consultants, Associations and Organisations

Dear Sir/Madam

**(A) WATER SAMPLING REQUIREMENTS FOR NEW DEVELOPMENTS
(B) INDICATION OF PIPE JOINING METHODS**

This circular is to inform water service workers (i.e. Professional Engineers/Licensed Water Service Plumbers) of the following new requirements to be complied with in carrying out water service work.

(A) WATER SAMPLING REQUIREMENTS FOR NEW DEVELOPMENTS

2 Currently, upon disinfection of the water service installation, water service workers are required to carry out water sampling from water storage tanks and water service pipes for bacteriological and chemical testing by a SAC-SINGLAS accredited testing laboratories.

3 For Notification of Water Service Work for new developments submitted to PUB **from 1 Dec 2016**, in addition to the existing bacteriological and chemical tests conducted for water storage tanks, water service workers are required to carry out additional water sampling tests for leaching of heavy metals. A 1-litre water sample is to be taken as a first drawn sample (i.e without flushing) from the water service installation after the water has been left stagnant in the water service installation for at least 24 hours. The heavy metals to be tested and their maximum allowable concentration are indicated below :

Parameter	Max. allowable concentration (ppm)
Antimony	0.02
Arsenic	0.01
Barium	0.7
Cadmium	0.003
Chromium	0.05
Lead	0.01
Mercury	0.006
Nickel	0.07
Selenium	0.01
Silver	0.01
Manganese	0.4
Copper	2
Molybdenum	0.07

4 Water samples for leaching of heavy metals tests shall be taken from the following sampling points:

Type of Development	Water Sample
a) New development with potable water tanks	Taken from at least one potable water tank and one terminal fitting (eg. tap/mixer) per development
b) New Development without potable water tanks	Taken from at least one terminal fitting (eg. tap/mixer) per development

5 The water sample(s) shall be collected by water service workers and tested by a SAC-SINGLAS accredited laboratory prior to the application of the Temporary Occupation Permit (TOP) for the development. The water service worker shall check and ensure that the results of the water sampling tests are satisfactory before the water service installation is put into use. These satisfactory test results shall be kept by the water service worker and shall be produced for verification purposes as and when requested by PUB.

(B) INDICATION OF PIPE JOINING METHODS

6 For Notification of Water Service Work for new developments submitted to PUB **from 1 Dec 2016**, water service workers are required to indicate clearly in their submission drawings the joining methods (eg. brazed joints, press fit joints, compression joint, mechanical joint, etc.) used in the water service installation. Water service workers are reminded to ensure that no lead soldering alloys are used in these joints.

7 For any further clarification, please contact the following officers:

Name of Officer	Contact No	Email address
Lee Cai Jie	67313250	lee_cai_jie@pub.gov.sg
Tham Tuck Kuan	67313622	tham_tuck_kuan@pub.gov.sg
Olivia Teo (Ms)	67313967	olivia_teo@pub.gov.sg
Ow Zhao Hui	67313934	ow_zhao_hui@pub.gov.sg

Yours faithfully



MICHAEL TOH
DIRECTOR
WATER SUPPLY (NETWORK) DEPARTMENT