

Our Drinking Water Quality

The quality of our drinking water is regulated by the Environmental Public Health (EPH) (Quality of Piped Drinking Water) Regulations 2008. The drinking water standards set out under the EPH Regulations were based on the WHO Guidelines for Drinking-water Quality. PUB will make continuous effort to maintain drinking water quality at the highest possible level.

Singapore Drinking Water Quality (Jan 2015 - Dec 2015)

Source : PUB's Water Quality Office

Characteristics	Unit	WHO 2011 GV (4th Edition)	Environmental Public Health (Quality of Piped Drinking Water) Regulations 2008. (updated 1 Nov 2010)	PUB Water Quality, Average	PUB Water Quality, Range	PUB Water Quality, Compliance
Microbiological Parameter						
Escherichia coli (E. coli)	cfu/100 ml	<1	<1	<1	<1	P
Physical Parameters						
Colour	Hazen	-	15	<5	<5-5	P
Conductivity	uS/cm	-	-	256	92-527	-
Odour	TON	-	-	Unobjectionable	Unobjectionable	-
pH Value	Units	-	6.5-9.5	8.1	7.7-8.4	P
Total Dissolved Solid	mg/L	-	-	161	54-344	-
Turbidity	NTU	5	5	0.19	0.11-1.30	P
Radiological Parameters						
Gross Alpha	Bq/L	0.5Note (1)	0.5	0.040	<0.017-0.190	P
Gross Beta	Bq/L	1Note (1)	1	0.173	<0.021-0.499	P

Radon 222	Bq/L	-	100	<0.6	<0.6-0.89	P
Chemical Parameters						
Acrylamide	ug/L	0.5	0.5	<0.5	<0.5	P
Alachlor	ug/L	20	20	<1	<1	P
Aldicarb	ug/L	10	10	<2.5	<2.5	P
Aldrin and Dieldrin	ug/L	0.03	0.03	<0.01	<0.01	P
Antimony	ug/L	20	20	<1	<1-2	P
Arsenic	ug/L	10	10	<5	<5	P
Atrazine	ug/L	100Note (2)	2	<0.5	<0.5	P
Aluminium	mg/L	-	0.1, 0.2 Note (3)	0.029	<0.019 - 0.162	P
Barium	mg/L	0.7	0.7	0.021	<0.004 - 0.053	P
Benzene	ug/L	10	10	<5	<5	P
Benzo[a]pyrene	ug/L	0.7	0.7	<0.2	<0.2	P
Boron	mg/L	2.4	2.4	0.022	0.008 -0.052	P
Bromate	mg/L	0.01	0.01	<0.005	<0.005-0.007	P
Bromodichloromethane	ug/L	60	60	10.69	<5 - 25.00	P
Bromoform	ug/L	100	100	<5	<5 - 8.3	P
Cadmium	ug/L	3	3	<0.5	<0.5	P
Carbofuran	ug/L	7	7	<2.5	<2.5	P
Carbon Tetrachloride	ug/L	4	4	<1	<1	P
Chlorate	mg/L	0.7	0.7	<0.043	<0.043 - 0.358	P
Chlordane (total isomers)	ug/L	0.2	0.2	<0.02	<0.02	P
Chlorine Note(4)	mg/L	5	5	2.5	1.8 - 3.0	P
Chlorite	mg/L	0.7	0.7	<0.015	<0.015	P

Chloroform	ug/L	300	300	17	<5-47	P
Chlorotoluron	ug/L	30	30	<2.5	<2.5	P
Chlorpyrifos	ug/L	30	30	<0.1	<0.1	P
Chromium	mg/L	0.05	0.05	<0.005	<0.005	P
Copper	mg/L	2	2	<0.002	<0.002	P
Cyanazine	ug/L	0.6	0.6	<0.6	<0.6	P
Cyanide	mg/L	-	0.07	<0.03	<0.03	P
Cyanogen chloride (as cyanide)	ug/L	-	70	<50	<50	P
Chloride	mg/L	-	-	26	6 - 82	-
2,4-D (2,4-dichlorophenoxyacetic acid) in free acid form	ug/L	30	30	<2.5	<2.5	P
2,4-DB [4-(2,4-Dichlorophenoxy) butyric acid]	ug/L	90	90	<2.5	<2.5	P
DDT and metabolites	ug/L	1	1	<0.01	<0.01	P
Di(2-Ethylhexyl) phthalate	ug/L	8	8	<1	<1	P
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	1	1	<0.2	<0.2	P
Dibromoacetonitrile	ug/L	70	70	<10	<10	P
Dibromochloromethane	ug/L	100	100	<5	<5 - 18	P
Dibromoethane (Ethylene Dibromide) 1,2-	ug/L	0.4	0.4	<0.05	<0.05	P
Dichloroacetate	ug/L	50	50	13	<5 - 41	P
Dichloroacetonitrile	ug/L	20	20	<1	<1 - 3.1	P
Dichlorobenzene, 1,2-	ug/L	1000	1000	<1	<1	P
Dichlorobenzene, 1,4-	ug/L	300	300	<1	<1	P

Dichloroethane, 1,2-	ug/L	30	30	<2	<2	P
Dichloroethene, 1,2-	ug/L	50	50	<5	<5	P
Dichloromethane	ug/L	20	20	<5	<5	P
Dichloropropane, 1,2-	ug/L	40	40	<5	<5	P
Dichloropropene, 1,3-	ug/L	20	20	<10	<10	P
Dichlorprop	ug/L	100	100	<2.5	<2.5	P
Dimethoate	ug/L	6	6	<0.1	<0.1	P
Dioxane, 1,4	ug/L	50	50	<1	<1	P
Endrin	ug/L	0.6	0.6	<0.01	<0.01	P
Epichlorohydrin	ug/L	0.4	0.4	<0.4	<0.4	P
Ethylbenzene	ug/L	300	300	<1	<1	P
Edetic acid (EDTA-Ethylene Diamine Tetraacetic Acid) in free acid form	ug/L	600	600	<1	<1	P
Fenoprop (2,4,5-TP; 2,4,5-trichlorophenoxy propionic acid)	ug/L	9	9	<2.5	<2.5	P
Fluoride	mg/L	1.5	0.7	0.47	0.36-0.66	P
Hexachlorobutadiene	ug/L	0.6	0.6	<0.01	<0.01	P
Isoproturon	ug/L	9	9	<2.5	<2.5	P
Iron	mg/L	-	-	0.005	<0.003 - 0.013	-
Lead	ug/L	10	10	<2	<2	P
Lindane	ug/L	2	2	<0.01	<0.01	P
MCPA (4-Chloro-2-methylphenoxyacetic acid)	ug/L	2	2	<2	<2	P
Mecoprop (MCP; [2(2-methyl-chlorophenoxy) propionic acid])	ug/L	10	10	<2.5	<2.5	P

Mercury, in inorganic form	ug/L	6	6	<0.03	<0.03	P
Methoxychlor	ug/L	20	20	<0.01	<0.01	P
Metolachlor	ug/L	10	10	<1	<1	P
Microcystin-LR	ug/L	1	1	<0.1	<0.1	P
Molinate	ug/L	6	6	<1	<1	P
Monochloramine Note(5)	mg/L	3	3	1.9	0.5-2.5	P
Monochloroacetic acid (chloroacetic acid)	ug/L	20	20	<10	<10	P
Manganese	mg/L	-	0.4	0.004	<0.002 - 0.010	P
Molybdenum	mg/L	-	0.07	<0.004	<0.004 - 0.005	P
Nickel	mg/L	0.07	0.07	<0.003	<0.003	P
Nitrate (as N)	mg/L	11	11	0.31	<0.01 - 1.13	P
Nitrilotriacetic acid (NTA)	ug/L	200	200	<1	<1	P
Nitrite (as N)	mg/L	0.9	0.9	<0.01	<0.01	P
Nitrate plus nitrite combined	units	1	1	0.029	<0.011 - 0.103	P
Nitrosodimethylamine (NDMA)	ng/L	100	-	<2 Note (6)	<2 - 4.24 Note (6)	P
Pendimethalin	ug/L	20	20	<1	<1	P
Pentachlorophenol	ug/L	9	9	<1	<1	P
Permethrin, where used as a larvicide for public health purposes	ug/L	-	300	<2	<2	P
Pyriproxyfen	ug/L	-	300	<10	<10	P
Selenium	ug/L	40	10	<10	<10	P
Simazine	ug/L	2	2	<1	<1	P
Styrene	ug/L	20	20	<5	<5	P

Sulphate	mg/L	-	-	48	10-220	-
Silica (as SiO ₂)	mg/L	-	-	3.62	0.47-7.26	-
Terbutylazine (TBA)	ug/L	7	7	<1	<1	P
Tetrachloroethene	ug/L	40	40	<5	<5	P
Toluene	ug/L	700	700	<5	<5	P
Trichloroethene	ug/L	20	20	<5	<5	P
Trichlorophenol 2,4,6-	ug/L	200	200	<1	<1	P
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ug/L	9	9	<2.5	<2.5	P
Trichloroacetate	ug/L	200	200	8.5	<5 - 23.3	P
Trifluralin	ug/L	20	20	<1	<1	P
Total Trihalomethanes Ratio	units	<1	<1	0.30	<0.2 - 0.65	P
Total Organic Carbon (TOC)	mg/L	-	-	1.4	0.4 - 4.8	-
Total Alkalinity (as CaCO ₃)	mg/L	-	-	19	5 - 43	-
Total Hardness (as CaCO ₃)	mg/L	-	-	66	26 - 203	-
Total Phosphorous (as P)	mg/L	-	-	0.013	<0.003 – 0.034	-
Uranium	ug/L	30	15	0.008	<0.001 - 0.016	P
Vinyl Chloride	ug/L	0.3	0.3	<0.3	<0.3	P
Xylenes	ug/L	500	500	<15	<15	P

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Note (1) : These are WHO screening values and not guideline values.

Note (2) : The WHO Guideline value is for Atrazine and its chloro-s-triazine metabolites.

Note (3) : Code of Practice on Piped Drinking Water Sampling and Safety Plans
Aluminium controlled at 0.1mg/L or less in large water treatment facilities that serve 10,000 or more people.
(Applicable to all Singapore and Johor Waterworks except Pulau Tekong Waterworks)



Water for All: Conserve, Value, Enjoy

Aluminium controlled at 0.2mg/L or less for in small facilities that serve less than 10,000 people. (Applicable only to Pulau Tekong Waterworks)

Note (4) : Chlorine data included all waterworks.

Note (5) : Monochloramine data included all waterworks except Pulau Tekong Waterworks. No monochloramine was used in Pulau Tekong Waterworks as a secondary disinfectant.

Note (6) : Six readings were recorded at 4.24 ng/L , 3.70 ng/L, 2.92 ng/L, 2.82 ng/L, 2.78 ng/L and 2.15 ng/L. All other data showed non-detect. The average reading was <2 ng/L.