

**Statistics on Water quality of Dongjiang's Main Stream in 2016 as Monitored at the East Bank Section**

Item	Temperature ( o C )	pH	Dissolved Oxygen	Permanganate Index	Chemical Oxygen Demand	5-Day Biochemical Oxygen Demand (BOD5)	Ammoniacal Nitrogen	Total Phosphorus
January	20.3	7.03	6.4	1.6	12.0	2.0	0.47	0.08
March	15.7	7.28	8.8	1.5	12.3	1.7	0.42	0.09
May	22.9	7.19	8.2	1.7	11.7	1.7	0.28	0.10
July	25.9	6.94	5.3	1.9	12.3	1.6	0.37	0.18
September	26.8	6.76	5.6	2.2	7.7	1.6	0.36	0.13
November	25.2	7.32	5.9	1.6	9.7	1.9	0.15	0.12
Yearly Mean	22.8	7.04	6.7	1.8	10.9	1.8	0.34	0.11 <sup>Note 4</sup>
GB 3838-2002 Type II Standard for Surface Water	--	6 - 9	≥ 6	≤ 4	≤ 15	≤ 3	≤ 0.5	≤ 0.1

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Item	Copper	Zinc	Fluoride	Selenium	Arsenic	Mercury	Cadmium
January	0.00204	0.00040	0.26	0.0001	0.00090	0.000005	0.00003
March	0.00121	0.00040	0.22	0.0001	0.00060	0.000005	0.00003
May	0.00071	0.00200	0.30	0.0001	0.00087	0.000005	0.00003
July	0.00157	0.00157	0.25	0.0002	0.00123	0.000020	0.00003
September	0.00181	0.00203	0.24	0.0002	0.00123	0.000020	0.00003
November	0.00024	0.00040	0.28	0.0002	0.00167	0.000020	0.00003
Yearly Mean	0.00126	0.00113	0.26	0.0002	0.0011	0.000013	0.00003
GB 3838-2002 Type II Standard for Surface Water	≤ 1.0	≤ 1.0	≤ 1.0	≤ 0.01	≤ 0.05	≤ 0.00005	≤ 0.005

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Item	Chromium (VI)	Lead	Cyanide	Volatile Phenols	Petroleum Hydrocarbons	Anionic Surfactants	Sulphides
January	0.002	0.000035	0.0005	0.0005	0.020	0.02	0.002
March	0.002	0.000035	0.0005	0.0005	0.017	0.02	0.002
May	0.002	0.000035	0.0005	0.0005	0.010	0.02	0.002
July	0.002	0.000035	0.0005	0.0005	0.020	0.02	0.002
September	0.002	0.000035	0.0005	0.0005	0.017	0.02	0.002
November	0.002	0.000035	0.0005	0.0005	0.013	0.02	0.002
Yearly Mean	0.002	0.000035	0.0005	0.0005	0.016	0.02	0.002
GB 3838-2002 Type II Standard for Surface Water	≤ 0.05	≤ 0.01	≤ 0.05	≤ 0.002	≤ 0.05	≤ 0.2	≤ 0.1

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Notes :

1. Except pH and where specified, all units are in mg/L.
2. According to the “Measures on Assessment of Surface Water Environment Quality (Trial)” (No. [2011]22 promulgated by the Ministry of Environmental Protection on 9 March 2011, “Faecal Coliforms” was not taken as an indicator to assess the environmental quality of surface water.
3. Compliance is based on the annual average of monitoring data in accordance with international practice.
4. The average level of total phosphorus monitored in Dongjiang's Main Stream at the east bank section slightly exceeded standard of Type II waters in the “Environmental Quality Standards for Surface Water (GB3838-2002)”, and Water Supplies Department has expressed concern to the Guangdong (GD) authorities. The GD authorities stated that the annual rainfall in the Dongjiang river basin in 2016 was more than the long term average and its pattern was also uneven which affected the stability of water quality in Dongjiang’s Main Stream. As it takes a long distance and time for the Dongjiang water to travel from the east bank section to Hong Kong, its self-purification capability would reduce the level of total phosphorus during the transit and thus the average level of total phosphorus in Dongjiang water as received at Muk Wu Pumping Station was reduced to 0.05 mg/L and complied with the national standard set out for Type II waters at the same period.