

Summary of Water Quality Statistics for Typhoon Shelters in 2018

Monitoring Station Parameter	Cheung Chau	Hei Ling Chau
	ST 1	ST 3
Number of samples	6	6
Temperature (°C)	23.7 (16.5 - 30.0)	23.7 (16.7 - 29.9)
Salinity	31.1 (27.6 - 32.6)	30.8 (27.6 - 32.4)
Dissolved Oxygen (mg/L)	6.4 (4.4 - 8.2)	7.0 (4.3 - 9.1)
Bottom	6.1 (3.8 - 7.8)	6.5 (3.9 - 8.6)
Dissolved Oxygen (% saturation)	91 (64 - 127)	99 (63 - 140)
Bottom	87 (56 - 120)	92 (57 - 126)
pH	8.0 (7.6 - 8.3)	8.0 (7.6 - 8.3)
Secchi Disc Depth (m)	2.2 (1.8 - 3.0)	2.1 (1.8 - 2.5)
Turbidity (NTU)	5.1 (1.3 - 9.5)	7.7 (1.7 - 23.3)
Suspended Solids (mg/L)	10.5 (4.1 - 17.7)	13.4 (4.0 - 33.0)
5-day Biochemical Oxygen Demand (mg/L)	0.9 (0.4 - 1.7)	1.4 (0.4 - 2.6)
Ammonia Nitrogen (mg/L)	0.066 (0.034 - 0.127)	0.054 (0.014 - 0.123)
Unionised Ammonia (mg/L)	0.003 (0.001 - 0.006)	0.002 (<0.001 - 0.004)
Nitrite Nitrogen (mg/L)	0.022 (<0.002 - 0.064)	0.028 (0.002 - 0.079)
Nitrate Nitrogen (mg/L)	0.144 (0.054 - 0.250)	0.168 (0.110 - 0.310)
Total Inorganic Nitrogen (mg/L)	0.23 (0.09 - 0.38)	0.25 (0.16 - 0.42)
Total Kjeldahl Nitrogen (mg/L)	0.40 (0.25 - 0.65)	0.38 (0.25 - 0.74)
Total Nitrogen (mg/L)	0.56 (0.40 - 0.71)	0.58 (0.40 - 0.87)
Orthophosphate Phosphorus (mg/L)	0.014 (0.004 - 0.023)	0.015 (0.005 - 0.026)
Total Phosphorus (mg/L)	0.04 (<0.02 - 0.07)	0.03 (<0.02 - 0.05)
Silica (as SiO ₂) (mg/L)	0.76 (0.07 - 1.57)	0.79 (0.06 - 1.90)
Chlorophyll-a (µg/L)	5.8 (1.0 - 16.7)	6.6 (0.9 - 17.7)
<i>E.coli</i> (cfu/100mL)	63 (14 - 190)	2 (<1 - 10)
Faecal Coliforms (cfu/100mL)	120 (20 - 340)	5 (1 - 30)

Note :

1. Unless otherwise specified, data presented are depth-averaged (A) values calculated by taking the means of three depths: Surface (S), Mid-depth (M), Bottom (B).
2. Data presented are annual arithmetic means of the depth-averaged results except for *E. coli* and faecal coliforms which are annual geometric means.
3. Data in brackets indicate the ranges.

Source of information : Environmental Protection Department