

Summary of water quality statistics for the Eastern Buffer WCZ in 2005

Parameter	Chai Wan		Tathong Channel	
	EM1	EM2	EM2	EM3
Number of samples	12	12		12
Temperature (°C)	22.7 (15.8 - 28.0)	22.8 (15.7 - 27.9)		22.6 (15.5 - 27.8)
Salinity	32.4 (29.7 - 33.8)	32.4 (29.2 - 33.8)		32.7 (30.1 - 34.0)
Dissolved Oxygen (mg/L)	5.7 (4.3 - 6.8)	6.0 (4.7 - 7.2)		6.2 (5.0 - 8.1)
	5.7 (3.7 - 6.8)	5.9 (3.6 - 7.1)		6.0 (3.8 - 9.7)
Dissolved Oxygen (% Saturation)	80 (64 - 97)	84 (68 - 109)		86 (70 - 101)
	79 (51 - 98)	82 (51 - 101)		82 (53 - 119)
pH	8.1 (7.8 - 8.4)	8.2 (7.8 - 8.5)		8.2 (7.9 - 8.5)
Secchi Disc Depth (m)	2.1 (1.5 - 2.7)	2.4 (1.5 - 3.7)		2.7 (1.8 - 4.1)
Turbidity (NTU)	10.0 (5.0 - 14.9)	9.7 (5.1 - 14.1)		10.1 (5.9 - 13.2)
Suspended Solids (mg/L)	3.2 (1.3 - 5.0)	3.2 (0.7 - 6.5)		3.0 (1.4 - 4.4)
5-day Biochemical Oxygen Demand (mg/L)	0.6 (0.2 - 1.0)	0.5 (0.2 - 1.1)		0.5 (0.1 - 1.1)
Ammonia Nitrogen (mg/L)	0.07 (0.03 - 0.12)	0.05 (0.02 - 0.09)		0.03 (0.01 - 0.07)
Unionised Ammonia (mg/L)	0.004 (0.001 - 0.013)	0.003 (0.001 - 0.012)		0.002 (0.001 - 0.005)
Nitrite Nitrogen (mg/L)	0.02 (0.01 - 0.05)	0.01 (<0.01 - 0.05)		0.01 (<0.01 - 0.04)
Nitrate Nitrogen (mg/L)	0.07 (0.03 - 0.17)	0.06 (0.02 - 0.18)		0.05 (0.01 - 0.12)
Total Inorganic Nitrogen (mg/L)	0.16 (0.07 - 0.25)	0.12 (0.05 - 0.25)		0.09 (0.03 - 0.16)
Total Kjeldahl Nitrogen (mg/L)	0.18 (0.10 - 0.25)	0.15 (0.10 - 0.20)		0.12 (0.08 - 0.23)
Total Nitrogen (mg/L)	0.27 (0.14 - 0.40)	0.23 (0.13 - 0.40)		0.19 (0.10 - 0.32)
Orthophosphate Phosphorus (mg/L)	0.02 (0.01 - 0.02)	0.01 (0.01 - 0.02)		0.01 (<0.01 - 0.02)
Total Phosphorus (mg/L)	0.03 (0.02 - 0.05)	0.02 (0.02 - 0.04)		0.02 (0.02 - 0.03)
Silica (as SiO ₂) (mg/L)	0.6 (0.4 - 1.0)	0.6 (0.3 - 0.9)		0.6 (0.3 - 1.2)
Chlorophyll- <i>a</i> (µg/L)	1.7 (0.8 - 5.1)	1.7 (0.5 - 5.1)		1.6 (0.6 - 5.1)
<i>E. coli</i> (count/100mL)	130 (29 - 1300)	36 (2 - 1800)		5 (1 - 57)
Faecal Coliforms (count/100mL)	290 (41 - 4200)	86 (3 - 4400)		13 (2 - 220)

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.