

Summary of water quality statistics for the North Western WCZ in 2005

Parameter	Lantau Island	Pearl Island	Pillar Point	Urmston Road	Chek Lap Kok	
	(North) NM1	NM2	NM3	NM5	(North) NM6	(West) NM8
Number of samples	12	12	12	12	12	12
Temperature (°C)	22.8 (16.0 - 28.1)	23.2 (16.1 - 28.1)	23.0 (16.2 - 28.2)	23.1 (16.2 - 28.2)	23.3 (15.4 - 28.7)	23.1 (15.5 - 28.3)
Salinity	31.0 (27.4 - 33.1)	28.9 (21.0 - 33.1)	29.6 (22.8 - 33.1)	28.4 (21.8 - 32.8)	27.6 (17.2 - 33.1)	28.7 (18.0 - 33.3)
Dissolved Oxygen (mg/L)	5.9 (3.7 - 7.2)	6.4 (4.8 - 7.6)	6.2 (4.1 - 7.5)	6.1 (4.1 - 7.4)	6.7 (4.7 - 9.1)	6.9 (5.1 - 8.8)
	Bottom					
	5.5 (2.3 - 7.2)	6.1 (4.0 - 7.3)	5.9 (3.2 - 7.2)	5.8 (3.3 - 7.3)	6.5 (3.3 - 8.6)	6.6 (3.6 - 8.5)
Dissolved Oxygen (% Saturation)	81 (53 - 102)	88 (68 - 108)	86 (58 - 107)	84 (58 - 103)	92 (66 - 123)	94 (71 - 119)
	Bottom					
	77 (33 - 99)	84 (57 - 109)	82 (46 - 107)	79 (47 - 101)	89 (47 - 117)	91 (51 - 116)
pH	8.1 (7.7 - 8.4)	8.1 (7.4 - 8.4)	8.0 (7.6 - 8.4)	8.0 (7.6 - 8.4)	8.1 (7.6 - 8.4)	8.1 (7.7 - 8.5)
Secchi Disc Depth (m)	1.8 (1.2 - 3.0)	1.7 (0.8 - 2.8)	1.7 (0.8 - 2.7)	1.5 (0.5 - 2.3)	1.5 (1.0 - 2.8)	1.4 (0.8 - 2.3)
Turbidity (NTU)	13.3 (5.6 - 27.3)	12.7 (5.0 - 28.2)	13.9 (4.9 - 22.6)	19.2 (6.1 - 30.3)	16.0 (5.5 - 27.5)	16.5 (7.8 - 38.5)
Suspended Solids (mg/L)	8.4 (3.9 - 22.7)	8.2 (3.1 - 26.0)	9.9 (2.5 - 17.0)	16.1 (4.7 - 32.7)	11.3 (4.5 - 26.0)	11.7 (4.9 - 30.3)
5-day Biochemical Oxygen Demand (mg/L)	0.7 (0.1 - 1.4)	0.9 (0.4 - 1.9)	0.7 (0.3 - 1.3)	0.8 (0.5 - 1.1)	0.8 (0.4 - 2.4)	0.7 (0.3 - 2.0)
Ammonia Nitrogen (mg/L)	0.11 (0.06 - 0.15)	0.12 (0.07 - 0.18)	0.13 (0.07 - 0.22)	0.20 (0.12 - 0.30)	0.13 (0.05 - 0.28)	0.06 (0.01 - 0.16)
Unionised Ammonia (mg/L)	0.005 (0.002 - 0.012)	0.007 (<0.001 - 0.015)	0.007 (0.001 - 0.014)	0.009 (0.003 - 0.016)	0.007 (0.001 - 0.017)	0.004 (<0.001 - 0.012)
Nitrite Nitrogen (mg/L)	0.05 (0.01 - 0.10)	0.06 (0.02 - 0.13)	0.06 (0.02 - 0.12)	0.08 (0.03 - 0.15)	0.08 (0.02 - 0.16)	0.06 (0.01 - 0.14)
Nitrate Nitrogen (mg/L)	0.20 (0.05 - 0.56)	0.31 (0.06 - 0.87)	0.27 (0.07 - 0.65)	0.34 (0.11 - 0.86)	0.38 (0.07 - 1.15)	0.30 (0.05 - 1.02)
Total Inorganic Nitrogen (mg/L)	0.36 (0.17 - 0.75)	0.49 (0.17 - 1.13)	0.47 (0.18 - 0.87)	0.62 (0.31 - 1.18)	0.58 (0.20 - 1.46)	0.42 (0.09 - 1.27)
Total Kjeldahl Nitrogen (mg/L)	0.25 (0.19 - 0.39)	0.27 (0.16 - 0.38)	0.27 (0.19 - 0.42)	0.35 (0.27 - 0.56)	0.29 (0.16 - 0.43)	0.19 (0.10 - 0.33)
Total Nitrogen (mg/L)	0.49 (0.29 - 0.88)	0.64 (0.25 - 1.27)	0.61 (0.30 - 1.03)	0.77 (0.43 - 1.35)	0.74 (0.30 - 1.65)	0.55 (0.17 - 1.43)
Orthophosphate Phosphorus (mg/L)	0.02 (0.02 - 0.03)	0.02 (0.02 - 0.03)	0.03 (0.02 - 0.03)	0.03 (0.02 - 0.06)	0.03 (0.01 - 0.06)	0.02 (0.01 - 0.04)
Total Phosphorus (mg/L)	0.04 (0.03 - 0.05)	0.04 (0.03 - 0.05)	0.04 (0.03 - 0.05)	0.06 (0.04 - 0.08)	0.04 (0.03 - 0.07)	0.03 (0.02 - 0.05)
Silica (as SiO ₂) (mg/L)	1.1 (0.5 - 2.5)	1.5 (0.7 - 3.4)	1.5 (0.7 - 3.6)	1.8 (0.8 - 3.8)	1.8 (0.7 - 4.9)	1.5 (0.7 - 4.4)
Chlorophyll- <i>a</i> (µg/L)	2.7 (0.4 - 8.2)	3.9 (0.6 - 15.0)	2.4 (0.6 - 10.5)	2.5 (0.4 - 8.8)	4.3 (0.9 - 21.0)	4.2 (0.8 - 19.7)
<i>E. coli</i> (count/100mL)	700 (80 - 7200)	370 (98 - 1800)	460 (140 - 1400)	740 (380 - 1500)	55 (10 - 510)	2 (1 - 25)
Faecal Coliforms (count/100mL)	1500 (120 - 16000)	910 (220 - 6000)	1000 (320 - 5600)	1600 (700 - 2800)	130 (16 - 1200)	6 (1 - 140)

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.