

Summary of water quality statistics for the Deep Bay WCZ in 2005

Parameter	Inner Deep Bay			Outer Deep Bay	
	DM1	DM2	DM3	DM4	DM5
Number of samples	12	12	12	12	12
Temperature (°C)	24.2 (15.7 - 31.8)	24.2 (15.6 - 32.1)	24.2 (16.1 - 31.5)	24.2 (16.2 - 30.1)	23.9 (16.3 - 29.2)
Salinity	16.6 (1.8 - 24.1)	18.5 (3.1 - 27.0)	21.5 (4.1 - 30.0)	23.0 (4.3 - 31.6)	26.1 (7.6 - 32.6)
Dissolved Oxygen (mg/L)	2.9 (1.3 - 6.3)	4.3 (2.2 - 9.0)	5.3 (4.1 - 7.2)	6.0 (4.8 - 9.7)	6.1 (4.8 - 9.0)
Bottom	NM	NM	NM	6.1 (4.8 - 10.2)	6.1 (4.7 - 8.1)
Dissolved Oxygen (% Saturation)	38 (16 - 87)	57 (26 - 106)	72 (56 - 89)	82 (63 - 139)	84 (65 - 129)
Bottom	NM	NM	NM	83 (63 - 145)	84 (64 - 116)
pH	7.5 (7.0 - 8.0)	7.6 (7.1 - 8.2)	7.8 (7.3 - 8.3)	7.9 (7.4 - 8.9)	8.0 (7.5 - 8.6)
Secchi Disc Depth (m)	0.3 (0.2 - 0.5)	0.4 (0.2 - 0.6)	0.6 (0.2 - 1.0)	1.0 (0.5 - 1.5)	1.6 (0.5 - 2.0)
Turbidity (NTU)	42.7 (21.2 - 80.7)	40.4 (16.1 - 96.4)	38.0 (12.9 - 87.6)	35.6 (10.4 - 150.5)	18.6 (9.3 - 47.4)
Suspended Solids (mg/L)	49.5 (12.0 - 130)	42.4 (15.0 - 100)	40.7 (7.8 - 93.0)	26.8 (5.3 - 88.5)	13.7 (5.8 - 36.4)
5-day Biochemical Oxygen Demand (mg/L)	5.0 (2.1 - 8.9)	3.8 (1.7 - 7.7)	1.7 (0.4 - 3.9)	1.3 (0.5 - 3.0)	0.9 (0.5 - 2.1)
Ammonia Nitrogen (mg/L)	4.84 (2.10 - 6.80)	3.00 (1.20 - 4.90)	0.75 (0.27 - 1.40)	0.43 (0.17 - 0.80)	0.27 (0.05 - 0.48)
Unionised Ammonia (mg/L)	0.096 (0.023 - 0.460)	0.060 (0.015 - 0.164)	0.025 (0.005 - 0.075)	0.020 (0.004 - 0.068)	0.012 (0.003 - 0.033)
Nitrite Nitrogen (mg/L)	0.29 (0.13 - 0.48)	0.38 (0.20 - 0.75)	0.25 (0.16 - 0.37)	0.17 (0.06 - 0.30)	0.12 (0.03 - 0.31)
Nitrate Nitrogen (mg/L)	0.35 (0.08 - 1.20)	0.51 (0.23 - 1.70)	0.73 (0.27 - 2.00)	0.67 (0.21 - 1.95)	0.50 (0.12 - 1.47)
Total Inorganic Nitrogen (mg/L)	5.48 (3.68 - 7.01)	3.89 (3.20 - 5.58)	1.73 (0.99 - 2.87)	1.27 (0.68 - 2.75)	0.89 (0.34 - 2.11)
Total Kjeldahl Nitrogen (mg/L)	5.79 (2.60 - 8.40)	3.68 (1.50 - 6.10)	1.19 (0.47 - 2.00)	0.71 (0.40 - 1.40)	0.49 (0.24 - 0.89)
Total Nitrogen (mg/L)	6.43 (4.18 - 8.61)	4.56 (3.50 - 6.78)	2.17 (1.47 - 3.18)	1.55 (0.82 - 2.99)	1.11 (0.46 - 2.44)
Orthophosphate Phosphorus (mg/L)	0.48 (0.23 - 0.65)	0.35 (0.18 - 0.53)	0.13 (0.07 - 0.19)	0.07 (0.03 - 0.14)	0.04 (0.01 - 0.09)
Total Phosphorus (mg/L)	0.68 (0.45 - 0.93)	0.48 (0.23 - 0.75)	0.21 (0.10 - 0.31)	0.11 (0.07 - 0.29)	0.07 (0.04 - 0.13)
Silica (as SiO ₂) (mg/L)	6.1 (1.0 - 11.0)	5.0 (1.2 - 9.9)	3.5 (0.8 - 7.3)	2.9 (0.3 - 7.6)	2.3 (0.3 - 7.5)
Chlorophyll- <i>a</i> (µg/L)	35.9 (0.6 - 260)	15.7 (0.4 - 140)	6.3 (0.2 - 39.0)	5.3 (0.3 - 43.0)	4.5 (0.5 - 34.0)
<i>E. coli</i> (count/100mL)	9800 (2100 - 360000)	1300 (160 - 26000)	150 (2 - 3800)	610 (51 - 2300)	490 (61 - 1700)
Faecal Coliforms (count/100mL)	17000 (3000 - 740000)	3100 (270 - 91000)	430 (8 - 5600)	1500 (600 - 5000)	1100 (260 - 4400)

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.

4. NM – not measured.