

Summary of Water Quality Statistics for the North Western Water Control Zone in 2018

Monitoring Station Parameter	Lantau Island (North)	Chek Lap Kok	
	NM1	(North) NM6	(West) NM8
Number of samples	12	12	12
Temperature (°C)	23.6	24.3	24.1
	(16.6 - 27.9)	(16.6 - 28.9)	(16.4 - 28.9)
Salinity	30.3	26.3	28.1
	(25.9 - 32.3)	(17.3 - 30.6)	(20.8 - 31.9)
Dissolved Oxygen (mg/L)	5.8	6.3	6.5
	(4.2 - 7.3)	(4.8 - 8.3)	(4.5 - 8.2)
Bottom	5.5	6.4	6.2
	(3.0 - 7.5)	(4.0 - 8.8)	(3.4 - 8.2)
Dissolved Oxygen (% saturation)	80	87	90
	(62 - 92)	(67 - 121)	(64 - 114)
Bottom	77	88	87
	(43 - 95)	(56 - 127)	(49 - 102)
pH	8.0	8.0	8.1
	(7.7 - 8.1)	(7.7 - 8.3)	(7.8 - 8.2)
Secchi Disc Depth (m)	2.8	2.2	2.3
	(2.0 - 4.0)	(1.6 - 3.0)	(1.9 - 3.0)
Turbidity (NTU)	5.3	8.9	6.9
	(1.9 - 8.7)	(1.6 - 28.8)	(2.2 - 10.6)
Suspended Solids (mg/L)	9.3	13.3	14.6
	(2.8 - 20.0)	(5.4 - 28.7)	(5.8 - 42.0)
5-day Biochemical Oxygen Demand (mg/L)	0.7	0.8	0.7
	(0.3 - 1.5)	(0.4 - 1.5)	(0.2 - 1.5)
Ammonia Nitrogen (mg/L)	0.084	0.085	0.040
	(0.014 - 0.137)	(0.009 - 0.287)	(0.007 - 0.098)
Unionised Ammonia (mg/L)	0.003	0.004	0.002
	(<0.001 - 0.005)	(<0.001 - 0.011)	(<0.001 - 0.005)
Nitrite Nitrogen (mg/L)	0.053	0.098	0.059
	(0.012 - 0.164)	(0.024 - 0.297)	(0.018 - 0.150)
Nitrate Nitrogen (mg/L)	0.221	0.504	0.329
	(0.070 - 0.510)	(0.253 - 1.100)	(0.160 - 0.857)
Total Inorganic Nitrogen (mg/L)	0.36	0.69	0.43
	(0.15 - 0.69)	(0.34 - 1.41)	(0.20 - 1.02)
Total Kjeldahl Nitrogen (mg/L)	0.40	0.35	0.31
	(0.19 - 1.05)	(0.17 - 0.74)	(0.14 - 0.93)
Total Nitrogen (mg/L)	0.68	0.95	0.70
	(0.33 - 1.23)	(0.52 - 1.62)	(0.41 - 1.25)
Orthophosphate Phosphorus (mg/L)	0.017	0.020	0.012
	(<0.002 - 0.029)	(0.002 - 0.041)	(<0.002 - 0.028)
Total Phosphorus (mg/L)	0.03	0.04	0.03
	(0.03 - 0.04)	(0.03 - 0.07)	(0.02 - 0.04)
Silica (as SiO ₂) (mg/L)	1.21	2.20	1.47
	(0.22 - 3.23)	(0.63 - 5.57)	(0.11 - 4.00)
Chlorophyll-a (µg/L)	3.1	4.1	4.6
	(0.5 - 15.4)	(0.9 - 20.3)	(0.6 - 19.2)
<i>E.coli</i> (cfu/100mL)	140	42	4
	(14 - 780)	(2 - 350)	(<1 - 270)
Faecal Coliforms (cfu/100mL)	290	77	9
	(30 - 1800)	(2 - 860)	(2 - 500)

Notes :

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