

Water quality of the Hoi Ha Wan Marine Park in Year 2002

	Coral Beach			Moon Island			Heung Lo Kok		
No. of sample	4			4			3		
Depth	Surface	Middle	Bottom	Surface	Middle	Bottom	Surface	Middle	Bottom
Temperature (°C)	24.21	23.57	23.25	23.79	23.59	23.26	25.80	25.45	24.05
Salinity (ppt)	31.10	32.00	32.20	31.98	32.23	31.20	30.60	31.87	32.80
Dissolved Oxygen (mg/L)	6.01	5.38	5.02	5.96	5.52	5.22	5.56	4.87	3.44
pH	8.15	8.13	8.10	8.15	8.13	8.10	8.13	8.17	8.10
Secchi Depth (m)	4.08			4.75			4.33		
Turbidity (NTU)	0.18	5.05	2.33	0.30	0.63	1.93	0.13	0.50	3.87
Suspended Solids (mg/L)	1.61	1.44	2.63	1.48	1.64	1.94	2.14	2.20	2.18
BOD (mg/L)	1.03	0.84	0.70	1.02	0.71	0.64	1.29	0.69	0.66
Ammoniacal Nitrogen (mg/L)	0.040	0.049	0.043	0.042	0.051	0.062	0.055	0.074	0.108
Unionized Ammonia (mg/L)	0.004	0.005	0.006	0.005	0.006	0.008	0.006	0.008	0.013
Nitrite Nitrogen (mg/L)	0.017	0.023	0.021	0.020	0.024	0.028	0.023	0.034	0.038
Nitrate Nitrogen (mg/L)	0.060	0.041	0.070	0.093	0.046	0.072	0.046	0.028	0.050
Total Inorganic Nitrogen (mg/L)	0.117	0.110	0.133	0.155	0.120	0.161	0.123	0.136	0.197
Total Kjeldahl Nitrogen (mg/L)	1.478	1.001	0.879	0.540	0.605	0.584	0.781	0.663	0.624
Total Nitrogen (mg/L)	1.674	1.242	0.982	0.795	0.821	0.769	0.850	0.725	0.908
Orthophosphate Phosphorus (mg/L)	0.063	0.044	0.029	0.017	0.047	0.011	0.035	0.054	0.051
Total Phosphorus (mg/L)	0.039	0.049	0.089	0.025	0.036	0.045	0.049	0.039	0.035
Silica (mg/L)	0.308	0.345	0.370	0.345	0.380	0.338	0.410	0.273	0.480
Chlorophyll-a (µg/L)	3.893	2.365	1.858	3.503	1.703	1.485	3.787	1.907	1.223
Phaeopigment (µg/L)	1.258	1.308	1.100	1.193	0.943	0.870	1.350	1.340	1.257
<i>E. coli</i> (CFU/100 mL)	14	15	6	8	5	8	55	10	7
Faecal Coliforms (CFU/100 mL)	310	295	514	285	291	583	920	503	818
Phytoplankton – Diatoms (cells/mL)	2977	1747	2412	2578	1978	2563	126	40	23
Phytoplankton – Dinoflagellates (cells/mL)	225	225	75	76	225	75	0	0	0
Phytoplankton – Others (cells/mL)	3901	4876	4876	3751	3301	4201	0	0	0
Zooplankton – Biomass (mg/m ³)	30			51			29		
Zooplankton – Copepoda (number/m ³)	8873			10377			6970		
Zooplankton – Cladocera (number/m ³)	903			799			503		
Zooplankton – Larvae (number/m ³)	783			912			400		
Zooplankton – Noctiluca (number/m ³)	11			15			0		
Zooplankton – Others (number/m ³)	1398			1655			933		