

Water quality of the Yan Chau Tong Marine Park in Year 2002

	Yan Chau Tong			Lai Chi Wo			Kau Ma Shek		
No. of sample	4			4			3		
Depth	Surface	Middle	Bottom	Surface	Middle	Bottom	Surface	Middle	Bottom
Temperature (°C)	24.60	23.82	23.37	24.76	24.09	23.83	26.29	25.64	25.52
Salinity (ppt)	30.98	31.80	32.05	30.55	31.55	31.80	30.27	31.50	31.70
Dissolved Oxygen (mg/L)	4.75	4.44	4.68	4.87	4.60	6.24	4.01	4.26	6.32
pH	8.15	8.13	8.10	8.13	8.10	8.05	8.13	8.13	8.10
Secchi Depth (m)	4.95			3.68			3.33		
Turbidity (NTU)	0.10	0.68	3.48	0.60	0.98	4.18	0.50	1.10	4.67
Suspended Solids (mg/L)	1.52	1.47	1.63	1.70	1.77	1.92	2.38	1.90	2.25
BOD (mg/L)	1.11	0.86	0.74	1.43	0.92	0.92	1.28	0.95	0.78
Ammoniacal Nitrogen (mg/L)	0.049	0.063	0.073	0.057	0.098	0.093	0.222	0.080	0.116
Unionized Ammonia (mg/L)	0.005	0.007	0.010	0.006	0.011	0.012	0.006	0.009	0.015
Nitrite Nitrogen (mg/L)	0.011	0.018	0.021	0.017	0.019	0.029	0.027	0.031	0.037
Nitrate Nitrogen (mg/L)	0.039	0.032	0.069	0.070	0.074	0.043	0.063	0.029	0.035
Total Inorganic Nitrogen (mg/L)	0.098	0.112	0.164	0.144	0.190	0.164	0.150	0.139	0.187
Total Kjeldahl Nitrogen (mg/L)	1.761	1.241	1.505	1.422	1.250	1.004	1.836	2.652	1.284
Total Nitrogen (mg/L)	1.958	1.461	1.740	1.570	1.461	1.253	1.926	2.711	1.355
Orthophosphate Phosphorus (mg/L)	0.004	0.029	0.038	0.005	0.004	0.004	0.002	0.005	0.006
Total Phosphorus (mg/L)	0.025	0.048	0.055	0.041	0.041	0.036	0.074	0.031	0.035
Silica (mg/L)	0.295	0.350	0.425	0.603	0.390	0.388	0.457	0.447	0.363
Chlorophyll-a (µg/L)	3.220	1.960	2.003	5.240	2.933	1.613	9.609	2.380	2.367
Phaeopigment (µg/L)	1.055	0.985	1.025	1.235	1.310	1.130	2.104	1.150	1.232
<i>E. coli</i> (CFU/100 mL)	11	8	4	21	9	16	30	22	23
Faecal Coliforms (CFU/100 mL)	169	294	445	426	305	548	553	1167	1323
Phytoplankton – Diatoms (cells/mL)	2354	2734	2795	2573	2956	4589	55	27	48
Phytoplankton – Dinoflagellates (cells/mL)	376	376	225	76	3	75	5	1	0
Phytoplankton – Others (cells/mL)	6076	6601	6677	6976	6301	6302	3	1	4
Zooplankton – Biomass (mg/m ³)	26			56			45		
Zooplankton – Copepoda (number/m ³)	14027			24807			16602		
Zooplankton – Cladocera (number/m ³)	672			2429			543		
Zooplankton – Larvae (number/m ³)	1030			922			899		
Zooplankton – Noctiluca (number/m ³)	46			96			0		
Zooplankton – Others (number/m ³)	1293			2744			3011		