

Water quality of the Sha Chau and Lung Kwu Chau Marine Park in Year 2002

	N Lung Kwu Chau			Pak Chau		
No. of sample	4			4		
Depth	Surface	Middle	Bottom	Surface	Middle	Bottom
Temperature (°C)	25.34	24.56	24.31	25.20	24.76	24.39
Salinity (ppt)	20.35	26.08	28.13	21.53	24.50	27.30
Dissolved Oxygen (mg/L)	5.63	5.19	4.96	5.74	5.42	5.26
pH	7.90	7.95	7.98	7.95	7.95	7.95
Secchi Depth (m)	1.15			1.05		
Turbidity (NTU)	16.55	25.13	130.68	16.88	23.23	58.20
Suspended Solids (mg/L)	12.46	16.18	35.37	12.61	19.95	27.25
BOD (mg/L)	1.85	1.75	1.77	1.94	1.96	2.46
Ammoniacal Nitrogen (mg/L)	0.162	0.092	0.089	0.224	0.138	0.102
Unionized Ammonia (mg/L)	0.110	0.044	0.038	0.102	0.049	0.033
Nitrite Nitrogen (mg/L)	0.109	0.118	0.110	0.112	0.096	0.097
Nitrate Nitrogen (mg/L)	0.597	0.693	0.474	0.642	0.583	0.437
Total Inorganic Nitrogen (mg/L)	0.878	0.931	0.696	0.979	0.816	0.636
Total Kjeldahl Nitrogen (mg/L)	1.207	1.418	0.610	1.431	1.625	1.128
Total Nitrogen (mg/L)	1.852	2.966	1.158	2.114	2.270	1.622
Orthophosphate Phosphorus (mg/L)	0.015	0.014	0.015	0.015	0.012	0.013
Total Phosphorus (mg/L)	0.099	0.095	0.089	0.097	0.144	0.092
Silica (mg/L)	1.103	1.258	0.983	1.133	1.065	0.938
Chlorophyll-a (µg/L)	4.025	2.943	1.738	3.595	3.173	2.003
Phaeopigment (µg/L)	2.478	2.220	3.390	1.738	2.415	1.953
<i>E. coli</i> (CFU/100 mL)	78	109	89	65	44	50
Faecal Coliforms (CFU/100 mL)	1914	2543	3284	1803	1979	2444
Phytoplankton – Diatoms (cells/mL)	3164	2789	3981	4063	4296	3913
Phytoplankton – Dinoflagellates (cells/mL)	80	3	0	151	2	75
Phytoplankton – Others (cells/mL)	6602	7652	8177	5327	5253	5626
Zooplankton – Biomass (mg/m ³)	53			144		
Zooplankton – Copepoda (number/m ³)	12127			19448		
Zooplankton – Cladocera (number/m ³)	44			273		
Zooplankton – Larvae (number/m ³)	706			906		
Zooplankton – Noctiluca (number/m ³)	14			48		
Zooplankton – Others (number/m ³)	805			1802		