

Water quality of Yan Chau Tong Marine Park In Year 2000*

	Wang Mun Hoi			Yan Chau Tong			Kat O Hoi			Lai Chi Wo		
No. of sample	5			5			5			5		
Depth	Surface	Middle	Bottom	Surface	Middle	Bottom	Surface	Middle	Bottom	Surface	Middle	Bottom
Temperature (°C)	25.30 (18.2-28.8)	23.04 (17.1-26.7)	22.78 (17.0-26.7)	25.53 (18.5-29.2)	23.69 (17.6-26.7)	23.07 (17.1-26.7)	25.67 (18.7-29.5)	23.90 (17.6-26.8)	23.20 (17.3-26.8)	25.52 (19.5-26.8)	24.43 (17.9-26.4)	23.77 (17.6-26.4)
Salinity (ppt)	30.46 (28.1-31.9)	31.90 (30.4-33.7)	32.42 (31.2-33.6)	30.32 (28.5-31.9)	31.48 (30.2-33.0)	31.98 (30.6-33.6)	30.04 (27.8-31.8)	31.50 (30.2-33.2)	31.88 (30.8-33.6)	29.90 (27.8-31.8)	30.98 (29.3-32.5)	31.60 (30.3-33.3)
Dissolved Oxygen (mg/L)	6.73 (5.73-8.88)	4.60 (1.55-7.54)	3.74 (2.00-7.41)	6.53 (5.31-9.13)	4.95 (2.79-8.47)	3.97 (1.33-6.36)	7.06 (5.48-11.6)	5.18 (2.89-9.61)	4.25 (1.56-6.78)	6.72 (5.69-8.70)	4.95 (1.93-9.45)	4.10 (0.61-7.43)
pH	8.36 (8.2-8.6)	8.26 (8.0-8.5)	8.14 (7.8-8.5)	8.44 (8.0-8.6)	8.28 (8.0-8.5)	8.26 (7.9-8.5)	8.42 (8.0-8.6)	8.32 (7.9-8.5)	8.30 (7.8-8.5)	8.40 (8.0-8.6)	8.38 (7.9-8.6)	8.34 (7.9-8.5)
Secchi Depth (m)	5.36 (2.3-7.5)			5.50 (3.5-7.7)			3.32 (2.0-5.4)			3.76 (2.7-6.0)		
Turbidity (NTU)	1.12 (0.0-3.8)	2.30 (0.2-5.1)	5.82 (3.3-8.2)	0.68 (0.0-2.0)	1.24 (0.3-2.9)	4.38 (0.7-9.1)	1.38 (0.0-4.6)	2.30 (0.6-5.2)	5.92 (2.2-10.7)	1.10 (0.2-2.7)	2.26 (0.3-4.1)	6.98 (1.7-14.1)
Suspended Solids (mg/L)	1.46 (0.73-2.96)	2.11 (0.97-4.57)	3.03 (1.66-4.32)	1.39 (0.92-2.07)	1.48 (1.00-2.21)	1.51 (0.87-5.53)	2.38 (0.69-4.43)	2.54 (0.82-4.89)	5.02 (1.37-9.25)	1.85 (1.27-4.50)	2.22 (1.27-4.50)	12.54 (1.30-50.0)
BOD (mg/L)	1.52 (1.26-1.69)	1.31 (1.01-1.48)	1.02 (0.58-1.63)	1.49 (1.29-1.70)	1.40 (1.25-1.71)	1.24 (0.83-1.61)	1.96 (1.13-4.10)	1.34 (0.91-1.85)	1.21 (0.85-1.69)	1.70 (1.36-1.94)	1.64 (1.50-1.91)	1.45 (0.89-2.04)
Ammoniacal Nitrogen (µg/L)	122.91 (17.2-406)	134.53 (14.6-409)	249.95 (0.49-791)	428.84 (12.1-413)	69.80 (28.5-170)	41.79 (1.96-165)	154.25 (9.11-386)	70.09 (27.7-170)	89.36 (30.9-218)	156.45 (14.0-400)	89.87 (33.9-247)	68.66 (52.6-146)
Unionized Ammonia (µg/L)	16.14 (1.40-39.5)	15.02 (1.18-39.7)	22.58 (0.03-76.9)	82.56 (0.80-32.5)	8.50 (2.31-24.2)	4.02 (0.11-30.6)	23.87 (0.50-37.5)	8.61 (2.25-25.8)	11.03 (1.68-35.1)	23.80 (0.93-38.8)	13.43 (2.72-24.1)	9.93 (3.49-27.1)
Nitrite Nitrogen (µg/L)	24.95 (4.97-47.6)	23.97 (10.5-57.3)	41.40 (16.1-119)	14.92 (3.22-37.7)	16.87 (5.18-33.0)	17.72 (10.7-45.0)	14.11 (3.29-27.7)	14.56 (4.74-24.0)	20.68 (5.98-36.8)	13.49 (7.18-22.9)	12.94 (5.52-21.7)	12.94 (5.71-19.9)
Nitrate Nitrogen (µg/L)	445.80 (165-982)	405.20 (197-651)	554.60 (319-1246)	461.20 (138-918)	492.00 (119-901)	430.40 (168-856)	408.20 (168-903)	456.80 (228-1148)	552.80 (208-1441)	488.60 (150-1237)	476.00 (216-1149)	401.90 (71.5-879)
Total Inorganic Nitrogen (µg/L)	99.85 (321-1410)	86.25 (402-977)	126.14 (466-1866)	48.91 (229-1350)	56.52 (263-940)	54.75 (263-940)	62.70 (300-1311)	77.51 (278-1336)	68.01 (354-1552)	59.61 (280-1660)	73.68 (282-1417)	45.70 (217-1023)
Total Kjeldahl Nitrogen (mg/L)	0.46 (0.10-1.08)	0.44 (0.10-0.98)	0.40 (0.10-1.12)	1.08 (0.26-2.58)	1.37 (0.23-4.23)	2.22 (0.26-8.27)	3.03 (0.29-13.6)	2.63 (0.15-10.7)	4.47 (0.09-20.5)	2.59 (0.12-10.6)	3.23 (0.28-14.0)	2.59 (0.15-10.6)
Total Nitrogen (mg/L)	2.72 (0.53-2.77)	1.19 (0.49-3.96)	2.92 (0.66-2.49)	3.25 (0.40-3.52)	2.34 (0.35-4.64)	4.23 (0.44-9.14)	5.13 (0.47-14.5)	5.21 (0.38-11.9)	7.65 (0.30-21.9)	5.36 (0.28-11.9)	5.83 (0.57-15.2)	5.59 (0.24-11.5)
Orthophosphate Phosphorus (µg/L)	6.55 (0.02-14.1)	6.89 (3.56-13.4)	23.08 (0.93-41.8)	7.42 (4.24-13.4)	21.63 (0.88-52.7)	9.60 (2.90-18.7)	5.36 (0.93-13.3)	10.93 (0.93-33.4)	13.88 (0.93-18.2)	5.39 (0.37-11.1)	24.28 (0.47-27.2)	38.65 (1.01-96.3)
Total Phosphorus (mg/L)	0.19 (0.02-0.66)	0.08 (0.01-0.21)	0.06 (0.02-0.17)	0.62 (0.02-2.88)	0.71 (0.02-3.29)	3.00 (0.02-14.8)	0.93 (0.02-4.41)	0.34 (0.02-1.49)	2.37 (0.02-11.6)	0.11 (0.02-0.25)	0.12 (0.02-0.34)	0.11 (0.02-0.16)
Silica (mg/L)	0.16 (0.04-0.35)	0.16 (0.04-0.35)	0.34 (0.06-0.59)	0.16 (0.04-0.36)	0.19 (0.04-0.35)	0.21 (0.05-0.37)	0.15 (0.03-0.31)	0.20 (0.04-0.31)	0.24 (0.04-0.31)	0.17 (0.04-0.31)	0.18 (0.04-0.30)	0.24 (0.04-0.32)
Chlorophyll-a (µg/L)	4.00 (1.41-8.81)	2.88 (0.85-6.63)	2.32 (0.48-10.7)	3.19 (1.63-7.90)	2.57 (0.54-4.92)	2.63 (0.54-10.5)	6.42 (2.09-13.9)	2.86 (1.32-8.76)	4.77 (1.22-12.3)	4.49 (1.71-11.1)	4.06 (2.10-6.70)	2.59 (0.91-4.06)
Phaeopigment (µg/L)	0.43 (0.00-0.91)	1.29 (0.04-3.31)	1.06 (0.30-2.32)	0.42 (0.00-0.83)	0.73 (0.12-1.75)	1.33 (0.17-3.75)	0.44 (0.00-2.26)	1.03 (0.14-2.47)	1.28 (0.00-2.81)	0.52 (0.00-0.98)	0.60 (0.00-1.38)	1.62 (0.59-3.41)
<i>E. coli</i> (CFU/100 mL)	9.8 (0-41.5)	5.8 (0-28.5)	7.4 (0-34.5)	17.7 (0-88.5)	25.4 (0-127)	16.3 (0-80.5)	20.9 (0-52)	15.2 (0-60)	11.2 (0-42)	10.6 (0-50.5)	8.6 (0-36.5)	15.3 (0.5-73)
Faecal Coliforms (CFU/100 mL)	44.1 (0-200)	40.0 (0-200)	40.0 (0-200)	40.0 (0-200)	40.1 (0-200)	40.0 (0-200)	61.1 (0-200)	44.6 (1-200)	46.1 (0-200)	40.6 (0-200)	40.8 (0-200)	43.3 (0-200)

* Data presented in mean value (range)