

## Summary of water quality monitoring data for Shing Mun River (Main Channel and Siu Lek Yuen Nullah) in 2005

Parameter	Unit	Shing Mun Main Channel	Siu Lek Yuen Nullah	
		TR19I	TR23L	TR23A
Dissolved oxygen	mg/L	7.7 (5.6 – 9.2)	9.5 (8.0 – 10.8)	7.8 (5.1 – 8.9)
pH		7.9 (7.4 – 8.3)	8.5 (7.7 – 9.0)	7.8 (7.6 – 8.3)
Suspended solids	mg/L	3 (1 – 23)	2 (1 – 6)	4 (1 – 16)
5-day Biochemical Oxygen Demand	mg/L	3 (1 – 7)	1 (1 – 3)	3 (2 – 7)
Chemical Oxygen Demand	mg/L	15 (11 – 33)	5 (2 – 13)	14 (7 – 22)
Oil & grease	mg/L	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	21,000 (840 – 350,000)	20,000 (1,100 – 170,000)	89,000 (8,600 – 300,000)
<i>E. coli</i>	cfu/ 100mL	2,100 (120 – 19,000)	570 (120 – 4,000)	9,700 (2,500 – 38,000)
Ammonia-nitrogen	mg/L	0.19 (0.06 – 0.73)	0.02 (0.01 – 0.07)	0.21 (0.01 – 0.73)
Nitrate-nitrogen	mg/L	0.57 (0.18 – 2.00)	0.16 (0.06 – 0.58)	0.51 (0.17 – 1.50)
Total Kjeldahl nitrogen, SP	mg/L	0.51 (0.34 – 1.20)	0.13 (0.05 – 0.24)	0.47 (0.30 – 1.10)
Ortho-phosphate	mg/L	0.01 (0.01 – 0.06)	0.01 (0.01 – 0.05)	0.03 (0.01 – 0.08)
Total phosphorus, SP	mg/L	0.05 (0.02 – 0.14)	0.02 (0.02 – 0.06)	0.08 (0.04 – 0.14)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	90 (50 – 470)	65 (50 – 140)	120 (60 – 320)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	2 (1 – 3)	1 (1 – 1)	1 (1 – 2)
Copper	µg/L	4 (3 – 7)	2 (1 – 3)	3 (1 – 11)
Lead	µg/L	1 (1 – 2)	1 (1 – 1)	1 (1 – 2)
Zinc	µg/L	20 (10 – 60)	10 (10 – 30)	20 (10 – 50)
Flow	L/s	NM	26 (11 – 121)	NM

- Notes:
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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Shing Mun River (Fo Tan Nullah and Kwun Yam Shan Stream) in 2005

Parameter	Unit	Fo Tan Nullah		Kwun Yam Shan Stream
		TR17	TR17L	KY1
Dissolved oxygen	mg/L	8.1 (5.1 – 10.0)	6.9 (4.5 – 8.5)	8.6 (7.7 – 9.6)
pH		7.8 (7.2 – 8.6)	7.5 (7.1 – 8.0)	7.9 (7.4 – 8.4)
Suspended solids	mg/L	7 (2 – 66)	3 (1 – 12)	3 (1 – 10)
5-day Biochemical Oxygen Demand	mg/L	30 (2 – 42)	3 (2 – 10)	1 (1 – 5)
Chemical Oxygen Demand	mg/L	29 (5 – 160)	15 (6 – 36)	5 (2 – 28)
Oil & grease	mg/L	0.7 (0.5 – 22.0)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	550,000 (68,000 – 2,400,000)	93,000 (6,700 – 250,000)	3,500 (370 – 19,000)
<i>E. coli</i>	cfu/ 100mL	130,000 (10,000 – 900,000)	7,500 (1,000 – 48,000)	920 (40 – 18,000)
Ammonia-nitrogen	mg/L	0.62 (0.01 – 2.20)	0.33 (0.05 – 0.57)	0.02 (0.01 – 0.43)
Nitrate-nitrogen	mg/L	0.50 (0.01 – 1.10)	0.51 (0.26 – 1.50)	0.56 (0.36 – 4.90)
Total Kjeldahl nitrogen, SP	mg/L	2.55 (0.32 – 5.10)	0.57 (0.28 – 1.20)	0.12 (0.05 – 1.40)
Ortho-phosphate	mg/L	0.04 (0.01 – 1.60)	0.02 (0.01 – 0.04)	0.12 (0.08 – 0.49)
Total phosphorus, SP	mg/L	0.28 (0.05 – 3.40)	0.06 (0.03 – 0.14)	0.12 (0.09 – 0.51)
Sulphide, SP	mg/L	0.10 (0.02 – 0.40)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	205 (70 – 480)	70 (50 – 250)	50 (50 – 110)
Cadmium	µg/L	0.4 (0.1 – 1.1)	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 4)	2 (1 – 2)	1 (1 – 1)
Copper	µg/L	8 (3 – 17)	4 (3 – 10)	1 (1 – 4)
Lead	µg/L	3 (1 – 14)	1 (1 – 8)	1 (1 – 2)
Zinc	µg/L	65 (30 – 260)	20 (20 – 130)	10 (10 – 20)
Flow	L/s	69 (17 – 124)	NM	2 (1 – 72)

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  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Shing Mun River (Tai Wai Nullah and Tin Sum Nullah) in 2005

Parameter	Unit	Tai Wai Nullah			Tin Sum Nullah
		TR19A	TR19C	TR19	TR20B
Dissolved oxygen	mg/L	8.5 (7.2 – 9.8)	8.1 (6.9 – 9.6)	8.6 (7.2 – 9.7)	8.6 (7.3 – 9.9)
pH		7.5 (6.6 – 9.3)	7.2 (7.0 – 8.4)	7.3 (7.2 – 9.0)	7.8 (7.2 – 8.3)
Suspended solids	mg/L	43 (6 – 450)	26 (5 – 130)	14 (4 – 54)	2 (1 – 4)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 6)	3 (1 – 7)	5 (1 – 9)	1 (1 – 1)
Chemical Oxygen Demand	mg/L	9 (2 – 25)	15 (6 – 53)	14 (4 – 36)	5 (2 – 10)
Oil & grease	mg/L	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.7)	0.5 (0.5 – 3.0)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	47 (1 – 38,000)	3,400 (120 – 52,000)	5,300 (390 – 83,000)	1 (1 – 56)
<i>E. coli</i>	cfu/ 100mL	21 (1 – 28,000)	380 (6 – 25,000)	920 (55 – 28,000)	1 (1 – 1)
Ammonia-nitrogen	mg/L	0.17 (0.05 – 0.46)	0.10 (0.03 – 0.40)	0.13 (0.02 – 0.31)	0.06 (0.02 – 0.12)
Nitrate-nitrogen	mg/L	1.80 (0.94 – 2.30)	1.10 (0.97 – 1.30)	1.10 (0.89 – 1.50)	1.35 (0.69 – 2.30)
Total Kjeldahl nitrogen, SP	mg/L	0.45 (0.18 – 1.10)	0.63 (0.20 – 1.40)	0.39 (0.22 – 1.00)	0.15 (0.11 – 0.31)
Ortho-phosphate	mg/L	0.01 (0.01 – 0.02)	0.01 (0.01 – 0.01)	0.01 (0.01 – 0.01)	0.02 (0.01 – 0.04)
Total phosphorus, SP	mg/L	0.06 (0.02 – 0.21)	0.08 (0.04 – 0.26)	0.06 (0.03 – 0.17)	0.02 (0.02 – 0.05)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 1.20)
Aluminium	µg/L	425 (140 – 1,700)	260 (100 – 850)	195 (120 – 860)	90 (70 – 360)
Cadmium	µg/L	3.8 (0.2 – 14.0)	1.3 (0.6 – 2.6)	1.2 (0.4 – 2.1)	0.1 (0.1 – 0.4)
Chromium	µg/L	2 (1 – 9)	1 (1 – 7)	1 (1 – 5)	1 (1 – 2)
Copper	µg/L	4 (1 – 8)	16 (7 – 33)	16 (6 – 37)	3 (1 – 5)
Lead	µg/L	17 (1 – 59)	5 (1 – 13)	4 (2 – 6)	1 (1 – 1)
Zinc	µg/L	205 (20 – 690)	80 (50 – 150)	80 (40 – 200)	15 (10 – 60)
Flow	L/s	39 (19 – 206)	85 (34 – 374)	72 (24 – 620)	56 (43 – 211)

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  4. cfu - colony forming unit.
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## Summary of water quality monitoring data for Lam Tsuen River in 2005 (Part 1 of 3)

Parameter	Unit	Lam Tsuen River		
		TR12H	TR12D	TR12C
Dissolved oxygen	mg/L	8.9 (7.5 – 10.9)	8.7 (7.6 – 10.8)	7.8 (6.7 – 9.2)
pH		7.4 (6.9 – 7.8)	7.4 (6.9 – 7.6)	7.3 (6.9 – 7.7)
Suspended solids	mg/L	2 (1 – 3)	1 (1 – 1)	4 (1 – 37)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 1)	3 (1 – 8)
Chemical Oxygen Demand	mg/L	4 (2 – 9)	2 (2 – 5)	9 (5 – 20)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.9)
Faecal coliforms	cfu/ 100mL	3,500 (470 – 17,000)	1,300 (420 – 4,300)	62,000 (31,000 – 220,000)
<i>E. coli</i>	cfu/ 100mL	990 (240 – 4,800)	170 (46 – 1,200)	24,000 (7,000 – 90,000)
Ammonia-nitrogen	mg/L	0.02 (0.01 – 0.04)	0.02 (0.01 – 0.04)	0.43 (0.14 – 1.70)
Nitrate-nitrogen	mg/L	0.70 (0.44 – 1.10)	0.29 (0.10 – 0.74)	1.25 (0.62 – 1.90)
Total Kjeldahl nitrogen, SP	mg/L	0.09 (0.05 – 0.16)	0.05 (0.05 – 0.12)	0.62 (0.37 – 2.30)
Ortho-phosphate	mg/L	0.03 (0.02 – 0.05)	0.01 (0.01 – 0.02)	0.17 (0.07 – 0.32)
Total phosphorus, SP	mg/L	0.04 (0.02 – 0.06)	0.02 (0.02 – 0.03)	0.24 (0.11 – 0.58)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 90)	50 (50 – 50)	75 (50 – 130)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	1 (1 – 3)	1 (1 – 2)	2 (1 – 5)
Lead	µg/L	1 (1 – 1)	1 (1 – 2)	1 (1 – 2)
Zinc	µg/L	20 (10 – 50)	20 (10 – 50)	20 (10 – 40)
Flow	L/s	115 (1 – 3,660)	148 (4 – 2,468)	249 (8 – 2,145)

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## Summary of water quality monitoring data for Lam Tsuen River in 2005 (Part 2 of 3)

Parameter	Unit	Lam Tsuen River		
		TR12G	TR12F	TR12B
Dissolved oxygen	mg/L	8.1 (6.8 – 10.7)	8.2 (7.2 – 10.6)	9.1 (7.5 – 11.1)
pH		7.2 (6.6 – 7.3)	7.3 (6.9 – 7.7)	7.4 (6.8 – 7.8)
Suspended solids	mg/L	1 (1 – 5)	1 (1 – 3)	1 (1 – 3)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 3)
Chemical Oxygen Demand	mg/L	6 (2 – 9)	6 (2 – 13)	4 (2 – 13)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	2,200 (220 – 12,000)	6,100 (910 – 29,000)	5,600 (810 – 29,000)
<i>E. coli</i>	cfu/ 100mL	200 (63 – 5,200)	850 (350 – 2,200)	860 (150 – 4,200)
Ammonia-nitrogen	mg/L	0.02 (0.01 – 0.04)	0.06 (0.03 – 0.17)	0.06 (0.03 – 0.23)
Nitrate-nitrogen	mg/L	0.05 (0.02 – 0.08)	0.61 (0.27 – 1.00)	0.85 (0.51 – 2.10)
Total Kjeldahl nitrogen, SP	mg/L	0.09 (0.05 – 0.25)	0.18 (0.09 – 0.31)	0.14 (0.06 – 0.33)
Ortho-phosphate	mg/L	0.02 (0.02 – 0.03)	0.06 (0.03 – 0.08)	0.05 (0.03 – 0.10)
Total phosphorus, SP	mg/L	0.05 (0.03 – 0.11)	0.08 (0.04 – 0.12)	0.06 (0.03 – 0.11)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 50)	50 (50 – 50)	50 (50 – 100)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	1 (1 – 1)	1 (1 – 2)	2 (1 – 2)
Lead	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Zinc	µg/L	10 (10 – 100)	10 (10 – 60)	10 (10 – 80)
Flow	L/s	23 (1 – 178)	31 (7 – 108)	336 (74 – 1,112)

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  4. cfu - colony forming unit.
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## Summary of water quality monitoring data for Lam Tsuen River (Part 3 of 3) and Tai Po River in 2005

Parameter	Unit	Lam Tsuen River			Tai Po River
		TR12E	TR12	TR12I	TR13
Dissolved oxygen	mg/L	8.9 (7.6 – 9.9)	9.3 (6.7 – 10.6)	5.7 (2.5 – 8.1)	8.3 (5.3 – 9.2)
pH		7.8 (7.5 – 8.1)	7.5 (6.9 – 8.4)	7.4 (6.9 – 8.0)	7.0 (6.7 – 7.2)
Suspended solids	mg/L	2 (1 – 3)	4 (2 – 50)	4 (1 – 19)	3 (2 – 200)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 2)	7 (1 – 17)	3 (1 – 9)	2 (1 – 6)
Chemical Oxygen Demand	mg/L	4 (2 – 7)	16 (3 – 29)	16 (9 – 35)	8 (3 – 110)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 1.1)	0.5 (0.5 – 0.9)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	5,300 (890 – 51,000)	16,000 (1,500 – 120,000)	97,000 (7,300 – 1,900,000)	100,000 (19,000 – 300,000)
<i>E. coli</i>	cfu/ 100mL	1,900 (670 – 39,000)	1,900 (500 – 19,000)	15,000 (1,900 – 310,000)	60,000 (12,000 – 140,000)
Ammonia-nitrogen	mg/L	0.03 (0.02 – 0.23)	0.51 (0.03 – 3.40)	0.43 (0.05 – 1.10)	0.65 (0.10 – 2.70)
Nitrate-nitrogen	mg/L	0.54 (0.24 – 0.85)	3.85 (1.00 – 7.00)	0.39 (0.21 – 1.50)	0.69 (0.60 – 1.60)
Total Kjeldahl nitrogen, SP	mg/L	0.07 (0.05 – 0.32)	1.45 (0.13 – 4.00)	0.81 (0.19 – 2.00)	1.26 (0.26 – 3.70)
Ortho-phosphate	mg/L	0.03 (0.02 – 0.05)	1.10 (0.05 – 1.80)	0.09 (0.04 – 0.23)	0.18 (0.05 – 0.56)
Total phosphorus, SP	mg/L	0.03 (0.02 – 0.07)	1.30 (0.07 – 2.00)	0.15 (0.06 – 0.38)	0.30 (0.07 – 0.77)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.02)
Aluminium	µg/L	70 (50 – 210)	60 (50 – 540)	65 (50 – 280)	70 (50 – 550)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 1)	1 (1 – 3)	2 (1 – 4)	1 (1 – 1)
Copper	µg/L	1 (1 – 2)	3 (1 – 38)	3 (2 – 6)	5 (1 – 9)
Lead	µg/L	1 (1 – 1)	1 (1 – 16)	1 (1 – 2)	1 (1 – 38)
Zinc	µg/L	10 (10 – 40)	20 (10 – 220)	25 (10 – 80)	30 (10 – 300)
Flow	L/s	62 (4 – 228)	46 (17 – 2,550)	NM	102 (45 – 551)

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## Summary of water quality monitoring data for Tai Po Kau Stream, Shan Liu Stream and Tung Tze Stream in 2005

Parameter	Unit	Tai Po Kau Stream	Shan Liu Stream	Tung Tze Stream
		TR14	TR4	TR6
Dissolved oxygen	mg/L	8.3 (7.1 – 10.0)	7.5 (5.6 – 9.3)	5.8 (5.1 – 8.2)
pH		7.3 (7.0 – 7.5)	7.2 (6.9 – 7.7)	7.3 (7.1 – 7.5)
Suspended solids	mg/L	2 (1 – 15)	3 (1 – 9)	5 (1 – 16)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 2)	1 (1 – 5)	2 (1 – 7)
Chemical Oxygen Demand	mg/L	6 (2 – 12)	7 (4 – 12)	16 (14 – 27)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	3,100 (170 – 130,000)	13,000 (2,000 – 60,000)	16,000 (5,500 – 68,000)
<i>E. coli</i>	cfu/ 100mL	370 (51 – 3,900)	2,700 (900 – 6,900)	6,700 (1,700 – 23,000)
Ammonia-nitrogen	mg/L	0.05 (0.02 – 0.14)	0.30 (0.07 – 1.10)	0.65 (0.20 – 1.80)
Nitrate-nitrogen	mg/L	0.33 (0.11 – 0.56)	1.15 (0.17 – 2.60)	0.44 (0.12 – 0.69)
Total Kjeldahl nitrogen, SP	mg/L	0.15 (0.09 – 0.46)	0.50 (0.22 – 1.20)	0.83 (0.40 – 2.00)
Ortho-phosphate	mg/L	0.02 (0.01 – 0.04)	0.11 (0.04 – 0.27)	0.08 (0.04 – 0.13)
Total phosphorus, SP	mg/L	0.04 (0.03 – 0.07)	0.14 (0.04 – 0.33)	0.14 (0.06 – 0.17)
Sulphide, SP	mg/L	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 130)	55 (50 – 90)	60 (50 – 120)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	2 (1 – 3)
Copper	µg/L	2 (1 – 2)	2 (1 – 6)	3 (2 – 4)
Lead	µg/L	1 (1 – 2)	1 (1 – 1)	1 (1 – 2)
Zinc	µg/L	10 (10 – 20)	10 (10 – 20)	10 (10 – 40)
Flow	L/s	29 (4 – 120)	10 (1 – 408)	NM

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## Summary of water quality monitoring data for Ho Chung River in 2005

Parameter	Unit	Ho Chung River	
		PR1	PR2
Dissolved oxygen	mg/L	7.9 (6.8 – 9.5)	8.4 (8.1 – 9.1)
pH		7.3 (7.1 – 7.6)	7.5 (7.2 – 7.7)
Suspended solids	mg/L	3 (2 – 6)	3 (1 – 6)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 1)
Chemical Oxygen Demand	mg/L	8 (2 – 20)	3 (2 – 8)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	11,000 (940 – 57,000)	4,000 (890 – 57,000)
<i>E. coli</i>	cfu/ 100mL	2,100 (310 – 14,000)	1,200 (74 – 24,000)
Ammonia-nitrogen	mg/L	0.20 (0.02 – 0.30)	0.06 (0.02 – 0.13)
Nitrate-nitrogen	mg/L	0.25 (0.15 – 0.63)	0.26 (0.17 – 0.73)
Total Kjeldahl nitrogen, SP	mg/L	0.31 (0.07 – 0.51)	0.12 (0.05 – 0.30)
Ortho-phosphate	mg/L	0.04 (0.01 – 0.05)	0.02 (0.02 – 0.05)
Total phosphorus, SP	mg/L	0.05 (0.02 – 0.09)	0.03 (0.02 – 0.07)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 130)	50 (50 – 140)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 2)	1 (1 – 1)
Copper	µg/L	3 (1 – 3)	1 (1 – 3)
Lead	µg/L	1 (1 – 1)	1 (1 – 1)
Zinc	µg/L	10 (10 – 30)	10 (10 – 20)
Flow	L/s	NM	1,086 (60 – 7,410)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Sha Kok Mei Stream in 2005

Parameter	Unit	Sha Kok Mei Stream	
		PR5	PR6
Dissolved oxygen	mg/L	7.7 (5.5 – 8.5)	8.3 (7.2 – 8.9)
pH		7.4 (7.1 – 7.9)	7.4 (7.2 – 7.8)
Suspended solids	mg/L	3 (1 – 12)	4 (1 – 13)
5-day Biochemical Oxygen Demand	mg/L	2 (1 – 4)	2 (1 – 7)
Chemical Oxygen Demand	mg/L	7 (3 – 15)	7 (2 – 15)
Oil & grease	mg/L	0.5 (0.5 – 0.9)	0.5 (0.5 – 0.6)
Faecal coliforms	cfu/ 100mL	22,000 (3,700 – 54,000)	45,000 (4,300 – 230,000)
<i>E. coli</i>	cfu/ 100mL	6,400 (2,500 – 15,000)	8,400 (340 – 100,000)
Ammonia-nitrogen	mg/L	0.08 (0.04 – 0.75)	0.10 (0.01 – 0.90)
Nitrate-nitrogen	mg/L	0.55 (0.26 – 1.40)	1.75 (1.40 – 3.20)
Total Kjeldahl nitrogen, SP	mg/L	0.37 (0.11 – 1.10)	0.42 (0.05 – 1.40)
Ortho-phosphate	mg/L	0.07 (0.04 – 0.14)	0.07 (0.05 – 0.18)
Total phosphorus, SP	mg/L	0.11 (0.05 – 0.25)	0.10 (0.05 – 0.31)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	70 (50 – 130)	65 (50 – 140)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 2)	1 (1 – 1)
Copper	µg/L	1 (1 – 3)	2 (1 – 3)
Lead	µg/L	1 (1 – 1)	1 (1 – 5)
Zinc	µg/L	15 (10 – 40)	20 (10 – 160)
Flow	L/s	49 (8 – 273)	NM

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Tai Chung Hau Stream in 2005

Parameter	Unit	Tai Chung Hau Stream	
		PR7	PR8
Dissolved oxygen	mg/L	8.7 (7.9 – 9.4)	8.0 (7.2 – 8.8)
pH		7.5 (7.3 – 7.8)	7.4 (7.2 – 7.5)
Suspended solids	mg/L	2 (1 – 9)	2 (1 – 8)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 1)
Chemical Oxygen Demand	mg/L	6 (2 – 11)	7 (2 – 12)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	29,000 (18,000 – 54,000)	16,000 (2,100 – 43,000)
<i>E. coli</i>	cfu/ 100mL	13,000 (5,100 – 42,000)	6,800 (1,700 – 22,000)
Ammonia-nitrogen	mg/L	0.05 (0.03 – 0.12)	0.05 (0.01 – 0.07)
Nitrate-nitrogen	mg/L	0.76 (0.41 – 2.10)	1.04 (0.58 – 2.40)
Total Kjeldahl nitrogen, SP	mg/L	0.23 (0.07 – 0.39)	0.18 (0.05 – 0.39)
Ortho-phosphate	mg/L	0.05 (0.01 – 0.07)	0.06 (0.02 – 0.07)
Total phosphorus, SP	mg/L	0.06 (0.04 – 0.11)	0.07 (0.04 – 0.09)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	70 (50 – 780)	90 (50 – 450)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 2)
Copper	µg/L	2 (1 – 2)	2 (1 – 3)
Lead	µg/L	1 (1 – 1)	1 (1 – 4)
Zinc	µg/L	10 (10 – 40)	10 (10 – 20)
Flow	L/s	208 (65 – 945)	NM

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Tseng Lan Shue Stream in 2005

Parameter	Unit	Tseng Lan Shue Stream		
		JR3	JR6	JR11
Dissolved oxygen	mg/L	5.5 (4.0 – 7.5)	7.0 (6.4 – 7.9)	8.4 (7.8 – 9.6)
pH		7.1 (6.9 – 7.3)	7.6 (7.4 – 7.8)	7.8 (7.7 – 8.0)
Suspended solids	mg/L	4 (3 – 11)	6 (4 – 39)	2 (1 – 5)
5-day Biochemical Oxygen Demand	mg/L	9 (3 – 33)	4 (2 – 26)	1 (1 – 4)
Chemical Oxygen Demand	mg/L	24 (3 – 73)	20 (7 – 41)	7 (2 – 18)
Oil & grease	mg/L	0.7 (0.5 – 2.6)	0.6 (0.5 – 4.0)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	240,000 (110,000 – 650,000)	63,000 (26,000 – 190,000)	5,100 (920 – 55,000)
<i>E. coli</i>	cfu/ 100mL	130,000 (51,000 – 390,000)	27,000 (9,000 – 130,000)	1,000 (130 – 26,000)
Ammonia-nitrogen	mg/L	5.20 (1.10 – 12.00)	0.22 (0.02 – 1.00)	0.06 (0.03 – 0.19)
Nitrate-nitrogen	mg/L	0.97 (0.43 – 1.90)	3.30 (2.10 – 6.40)	4.10 (1.60 – 7.70)
Total Kjeldahl nitrogen, SP	mg/L	5.95 (1.10 – 14.00)	1.20 (0.37 – 3.50)	0.35 (0.20 – 1.00)
Ortho-phosphate	mg/L	0.67 (0.18 – 1.30)	1.20 (0.54 – 1.70)	0.60 (0.18 – 1.30)
Total phosphorus, SP	mg/L	0.85 (0.26 – 1.70)	1.40 (0.64 – 2.30)	0.64 (0.21 – 1.40)
Sulphide, SP	mg/L	0.02 (0.02 – 0.09)	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.02)
Aluminium	µg/L	115 (90 – 180)	125 (50 – 280)	50 (50 – 210)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 1)	1 (1 – 3)	1 (1 – 1)
Copper	µg/L	4 (2 – 6)	6 (3 – 16)	3 (2 – 4)
Lead	µg/L	1 (1 – 4)	2 (1 – 4)	1 (1 – 1)
Zinc	µg/L	20 (10 – 40)	60 (20 – 90)	20 (10 – 30)
Flow	L/s	NM	NM	189 (16 – 580)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for River Indus in 2005

Parameter	Unit	River Indus		
		IN1	IN2	IN3
Dissolved oxygen	mg/L	3.6 (1.6 – 9.8)	8.0 (5.7 – 13.4)	7.8 (6.5 – 10.2)
pH		7.1 (6.8 – 7.6)	7.1 (6.5 – 7.5)	7.3 (7.1 – 7.6)
Suspended solids	mg/L	34 (12 – 63)	13 (2 – 48)	5 (1 – 170)
5-day Biochemical Oxygen Demand	mg/L	11 (4 – 37)	3 (1 – 7)	3 (1 – 12)
Chemical Oxygen Demand	mg/L	31 (15 – 58)	12 (6 – 23)	8 (4 – 45)
Oil & grease	mg/L	0.5 (0.5 – 1.2)	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	700,000 (93,000 – 5,600,000)	31,000 (2,700 – 420,000)	15,000 (680 – 670,000)
<i>E. coli</i>	cfu/ 100mL	320,000 (18,000 – 4,200,000)	5,000 (340 – 120,000)	5,000 (380 – 130,000)
Ammonia-nitrogen	mg/L	5.80 (1.10 – 17.00)	1.01 (0.43 – 2.20)	0.79 (0.07 – 4.90)
Nitrate-nitrogen	mg/L	1.00 (0.01 – 2.40)	0.98 (0.67 – 2.60)	0.90 (0.39 – 5.10)
Total Kjeldahl nitrogen, SP	mg/L	6.80 (1.80 – 21.00)	1.55 (0.78 – 4.00)	1.56 (0.32 – 5.20)
Ortho-phosphate	mg/L	0.63 (0.22 – 1.40)	0.04 (0.01 – 0.15)	0.47 (0.11 – 1.30)
Total phosphorus, SP	mg/L	1.15 (0.44 – 2.00)	0.26 (0.16 – 0.45)	0.70 (0.20 – 1.80)
Sulphide, SP	mg/L	0.03 (0.02 – 0.56)	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.02)
Aluminium	µg/L	290 (70 – 640)	85 (50 – 280)	55 (50 – 370)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.3)
Chromium	µg/L	4 (1 – 19)	1 (1 – 4)	1 (1 – 1)
Copper	µg/L	8 (3 – 16)	3 (2 – 7)	5 (3 – 16)
Lead	µg/L	3 (1 – 10)	6 (1 – 16)	1 (1 – 7)
Zinc	µg/L	100 (50 – 1,400)	1,450 (190 – 11,000)	30 (10 – 100)
Flow	L/s	NM	NM	23 (10 – 520)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for River Beas in 2005

Parameter	Unit	River Beas		
		RB1	RB2	RB3
Dissolved oxygen	mg/L	8.8 (5.3 – 10.1)	7.9 (4.1 – 11.6)	6.8 (2.9 – 10.4)
pH		7.7 (7.2 – 8.2)	7.2 (6.9 – 8.2)	7.2 (6.9 – 7.6)
Suspended solids	mg/L	6 (3 – 23)	11 (3 – 44)	15 (3 – 42)
5-day Biochemical Oxygen Demand	mg/L	4 (2 – 14)	5 (3 – 19)	7 (3 – 17)
Chemical Oxygen Demand	mg/L	14 (5 – 46)	18 (8 – 35)	18 (7 – 88)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.7)
Faecal coliforms	cfu/ 100mL	65,000 (7,300 – 610,000)	52,000 (860 – 1,800,000)	110,000 (2,700 – 1,700,000)
<i>E. coli</i>	cfu/ 100mL	25,000 (2,500 – 250,000)	23,000 (120 – 1,600,000)	33,000 (900 – 1,200,000)
Ammonia-nitrogen	mg/L	0.62 (0.20 – 5.20)	2.75 (0.82 – 9.90)	4.85 (0.64 – 9.80)
Nitrate-nitrogen	mg/L	0.52 (0.17 – 0.83)	0.70 (0.04 – 1.10)	0.69 (0.11 – 2.00)
Total Kjeldahl nitrogen, SP	mg/L	1.10 (0.51 – 7.00)	3.65 (1.40 – 11.00)	6.00 (1.40 – 12.00)
Ortho-phosphate	mg/L	0.29 (0.14 – 0.91)	0.46 (0.22 – 1.80)	0.60 (0.19 – 1.90)
Total phosphorus, SP	mg/L	0.46 (0.21 – 1.50)	1.01 (0.42 – 2.50)	0.98 (0.48 – 2.60)
Sulphide, SP	mg/L	0.02 (0.02 – 0.15)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.08)
Aluminium	µg/L	65 (50 – 240)	55 (50 – 360)	85 (50 – 990)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 1)	1 (1 – 4)	1 (1 – 17)
Copper	µg/L	2 (1 – 4)	4 (1 – 15)	5 (3 – 32)
Lead	µg/L	1 (1 – 1)	1 (1 – 4)	2 (1 – 12)
Zinc	µg/L	20 (10 – 70)	30 (10 – 80)	55 (20 – 300)
Flow	L/s	131 (33 – 440)	30 (1 – 3,030)	NM

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for River Ganges in 2005

Parameter	Unit	River Ganges		
		GR1	GR2	GR3
Dissolved oxygen	mg/L	4.8 (2.2 – 8.0)	5.1 (1.3 – 6.9)	7.8 (5.9 – 8.6)
pH		7.4 (7.3 – 8.0)	7.1 (6.7 – 7.3)	7.1 (6.8 – 7.7)
Suspended solids	mg/L	29 (17 – 720)	14 (7 – 440)	9 (3 – 460)
5-day Biochemical Oxygen Demand	mg/L	32 (8 – 74)	15 (9 – 79)	1 (1 – 5)
Chemical Oxygen Demand	mg/L	78 (16 – 170)	40 (19 – 100)	5 (2 – 24)
Oil & grease	mg/L	1.0 (0.5 – 15.0)	2.5 (0.5 – 6.8)	0.5 (0.5 – 0.6)
Faecal coliforms	cfu/ 100mL	200,000 (25,000 – 2,500,000)	230,000 (28,000 – 850,000)	9,100 (340 – 230,000)
<i>E. coli</i>	cfu/ 100mL	120,000 (9,000 – 1,600,000)	53,000 (2,600 – 410,000)	490 (28 – 17,000)
Ammonia-nitrogen	mg/L	20.50 (4.20 – 61.00)	9.95 (0.90 – 25.00)	0.09 (0.02 – 0.22)
Nitrate-nitrogen	mg/L	0.25 (0.01 – 1.60)	0.25 (0.01 – 5.30)	0.18 (0.09 – 0.32)
Total Kjeldahl nitrogen, SP	mg/L	27.00 (5.20 – 69.00)	11.85 (2.30 – 31.00)	0.16 (0.07 – 0.78)
Ortho-phosphate	mg/L	5.20 (0.94 – 12.00)	1.65 (0.43 – 6.40)	0.01 (0.01 – 0.03)
Total phosphorus, SP	mg/L	6.90 (1.50 – 15.00)	2.60 (1.20 – 7.50)	0.02 (0.02 – 0.18)
Sulphide, SP	mg/L	0.03 (0.02 – 2.10)	0.02 (0.02 – 1.90)	0.02 (0.02 – 0.02)
Aluminium	µg/L	165 (70 – 1,300)	95 (60 – 1,500)	50 (50 – 890)
Cadmium	µg/L	0.1 (0.1 – 0.5)	0.1 (0.1 – 0.6)	0.1 (0.1 – 0.6)
Chromium	µg/L	1 (1 – 4)	1 (1 – 4)	1 (1 – 1)
Copper	µg/L	8 (4 – 73)	4 (2 – 31)	1 (1 – 6)
Lead	µg/L	3 (1 – 31)	1 (1 – 39)	1 (1 – 22)
Zinc	µg/L	50 (30 – 900)	40 (20 – 440)	10 (10 – 70)
Flow	L/s	25 (6 – 1,456)	37 (13 – 2,304)	90 (6 – 846)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Yuen Long Creek in 2005 (Part 1 of 2)

Parameter	Unit	Yuen Long Creek	
		YL1	YL2
Dissolved oxygen	mg/L	3.9 (1.8 – 7.8)	6.6 (3.2 – 9.9)
pH		7.4 (7.1 – 7.8)	7.4 (7.1 – 8.1)
Suspended solids	mg/L	25 (2 – 200)	15 (3 – 53)
5-day Biochemical Oxygen Demand	mg/L	38 (6 – 130)	8 (5 – 20)
Chemical Oxygen Demand	mg/L	46 (6 – 360)	19 (11 – 59)
Oil & grease	mg/L	0.9 (0.5 – 15.0)	0.5 (0.5 – 0.9)
Faecal coliforms	cfu/ 100mL	740,000 (84,000 – 4,700,000)	100,000 (29,000 – 330,000)
<i>E. coli</i>	cfu/ 100mL	510,000 (38,000 – 3,900,000)	42,000 (8,000 – 180,000)
Ammonia-nitrogen	mg/L	24.50 (0.62 – 59.00)	7.30 (1.50 – 16.00)
Nitrate-nitrogen	mg/L	0.12 (0.01 – 1.30)	1.50 (0.47 – 3.00)
Total Kjeldahl nitrogen, SP	mg/L	29.50 (1.40 – 72.00)	8.45 (2.50 – 19.00)
Ortho-phosphate	mg/L	3.10 (0.23 – 7.50)	1.65 (0.52 – 4.90)
Total phosphorus, SP	mg/L	3.65 (0.37 – 11.00)	2.00 (0.74 – 5.90)
Sulphide, SP	mg/L	0.04 (0.02 – 0.75)	0.02 (0.02 – 0.10)
Aluminium	µg/L	200 (90 – 280)	230 (80 – 580)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 3)	1 (1 – 2)
Copper	µg/L	19 (2 – 73)	7 (4 – 29)
Lead	µg/L	4 (2 – 6)	4 (1 – 8)
Zinc	µg/L	100 (20 – 240)	55 (20 – 110)
Flow	L/s	166 (32 – 990)	120 (68 – 255)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Yuen Long Creek in 2005 (Part 2 of 2)

Parameter	Unit	Yuen Long Creek	
		YL3	YL4
Dissolved oxygen	mg/L	3.1 (1.5 – 7.8)	3.6 (1.6 – 6.9)
pH		7.4 (7.1 – 7.7)	7.2 (7.0 – 7.5)
Suspended solids	mg/L	58 (10 – 130)	47 (25 – 220)
5-day Biochemical Oxygen Demand	mg/L	80 (18 – 150)	74 (24 – 120)
Chemical Oxygen Demand	mg/L	88 (24 – 410)	93 (30 – 180)
Oil & grease	mg/L	4.9 (0.5 – 15.0)	6.4 (0.7 – 23.0)
Faecal coliforms	cfu/ 100mL	3,100,000 (1,200,000 – 9,000,000)	3,900,000 (1,400,000 – 26,000,000)
<i>E. coli</i>	cfu/ 100mL	1,900,000 (660,000 – 6,500,000)	1,300,000 (360,000 – 4,700,000)
Ammonia-nitrogen	mg/L	12.50 (4.20 – 40.00)	4.20 (2.30 – 24.00)
Nitrate-nitrogen	mg/L	0.01 (0.01 – 1.30)	0.01 (0.01 – 0.03)
Total Kjeldahl nitrogen, SP	mg/L	18.00 (5.80 – 61.00)	7.85 (3.80 – 33.00)
Ortho-phosphate	mg/L	2.05 (0.85 – 6.90)	0.58 (0.25 – 3.80)
Total phosphorus, SP	mg/L	3.05 (1.20 – 11.00)	1.25 (0.56 – 5.10)
Sulphide, SP	mg/L	0.06 (0.02 – 0.19)	0.05 (0.02 – 0.09)
Aluminium	µg/L	260 (100 – 540)	295 (100 – 1,200)
Cadmium	µg/L	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.3)
Chromium	µg/L	2 (1 – 5)	1 (1 – 5)
Copper	µg/L	23 (7 – 59)	5 (2 – 32)
Lead	µg/L	5 (2 – 16)	6 (2 – 24)
Zinc	µg/L	75 (30 – 340)	60 (20 – 360)
Flow	L/s	615 (250 – 1,523)	230 (64 – 518)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Kam Tin River in 2005

Parameter	Unit	Kam Tin River	
		KT1	KT2
Dissolved oxygen	mg/L	4.3 (1.2 – 7.1)	3.8 (1.7 – 7.2)
pH		7.3 (7.1 – 7.4)	7.3 (7.1 – 7.5)
Suspended solids	mg/L	18 (5 – 750)	36 (3 – 200)
5-day Biochemical Oxygen Demand	mg/L	14 (6 – 740)	52 (5 – 150)
Chemical Oxygen Demand	mg/L	22 (12 – 1,600)	74 (8 – 210)
Oil & grease	mg/L	0.5 (0.5 – 140.0)	3.6 (0.5 – 40.0)
Faecal coliforms	cfu/ 100mL	550,000 (54,000 – 3,200,000)	970,000 (150,000 – 5,000,000)
<i>E. coli</i>	cfu/ 100mL	150,000 (24,000 – 1,700,000)	730,000 (80,000 – 3,700,000)
Ammonia-nitrogen	mg/L	9.65 (1.00 – 27.00)	15.00 (0.98 – 43.00)
Nitrate-nitrogen	mg/L	0.59 (0.01 – 1.00)	0.01 (0.01 – 0.72)
Total Kjeldahl nitrogen, SP	mg/L	11.40 (1.70 – 84.00)	20.00 (1.50 – 58.00)
Ortho-phosphate	mg/L	1.85 (0.47 – 8.30)	3.05 (0.36 – 8.60)
Total phosphorus, SP	mg/L	2.45 (0.63 – 26.00)	4.15 (0.48 – 11.00)
Sulphide, SP	mg/L	0.03 (0.02 – 2.40)	0.06 (0.02 – 0.43)
Aluminium	µg/L	110 (50 – 230)	110 (50 – 450)
Cadmium	µg/L	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.3)
Chromium	µg/L	1 (1 – 3)	1 (1 – 5)
Copper	µg/L	8 (3 – 47)	11 (3 – 65)
Lead	µg/L	2 (1 – 4)	2 (1 – 19)
Zinc	µg/L	45 (20 – 180)	85 (20 – 510)
Flow	L/s	474 (75 – 2,000)	158 (8 – 1,323)

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  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Tin Shui Wai Nullah and Fairview Park Nullah in 2005

Parameter	Unit	Tin Shui Wai Nullah		Fairview Park Nullah
		TSR1	TSR2	FVR1
Dissolved oxygen	mg/L	7.6 (1.6 – 10.6)	10.1 (8.0 – 12.4)	5.5 (1.9 – 13.6)
pH		7.5 (7.1 – 8.4)	8.7 (7.6 – 9.3)	7.4 (7.0 – 8.8)
Suspended solids	mg/L	13 (2 – 46)	13 (4 – 820)	37 (10 – 170)
5-day Biochemical Oxygen Demand	mg/L	12 (5 – 27)	1 (1 – 5)	10 (4 – 28)
Chemical Oxygen Demand	mg/L	13 (8 – 60)	7 (2 – 12)	33 (10 – 85)
Oil & grease	mg/L	0.5 (0.5 – 3.1)	0.5 (0.5 – 1.0)	0.5 (0.5 – 3.2)
Faecal coliforms	cfu/ 100mL	630,000 (100,000 – 7,900,000)	41,000 (3,600 – 350,000)	300,000 (53,000 – 1,700,000)
<i>E. coli</i>	cfu/ 100mL	250,000 (39,000 – 4,100,000)	15,000 (600 – 110,000)	62,000 (14,000 – 150,000)
Ammonia-nitrogen	mg/L	2.20 (0.73 – 7.50)	0.15 (0.04 – 2.00)	4.10 (0.72 – 16.00)
Nitrate-nitrogen	mg/L	0.96 (0.01 – 2.40)	1.25 (0.69 – 2.00)	0.46 (0.09 – 2.00)
Total Kjeldahl nitrogen, SP	mg/L	3.00 (1.50 – 12.00)	0.45 (0.13 – 2.50)	6.35 (1.60 – 22.00)
Ortho-phosphate	mg/L	0.15 (0.06 – 0.70)	0.03 (0.02 – 0.28)	0.95 (0.34 – 3.30)
Total phosphorus, SP	mg/L	0.36 (0.22 – 1.30)	0.05 (0.02 – 0.39)	1.40 (0.68 – 4.40)
Sulphide, SP	mg/L	0.02 (0.02 – 0.18)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.03)
Aluminium	µg/L	155 (50 – 430)	170 (90 – 980)	215 (90 – 460)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.3)
Chromium	µg/L	1 (1 – 14)	1 (1 – 1)	1 (1 – 2)
Copper	µg/L	5 (2 – 21)	2 (1 – 11)	5 (2 – 25)
Lead	µg/L	3 (1 – 15)	2 (1 – 97)	3 (2 – 11)
Zinc	µg/L	75 (20 – 1,500)	20 (10 – 120)	30 (10 – 80)
Flow	L/s	NM	84 (20 – 1,575)	NM

- Notes:
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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Ha Pak Nai Stream, Pak Nai Stream and Sheung Pak Nai Stream in 2005

Parameter	Unit	Ha Pak Nai Stream	Pak Nai Stream	Sheung Pak Nai Stream
		DB1	DB3	DB5
Dissolved oxygen	mg/L	8.5 (7.3 – 10.9)	7.9 (6.9 – 10.2)	9.0 (7.6 – 11.1)
pH		7.4 (6.5 – 7.9)	7.0 (6.2 – 7.4)	7.1 (6.3 – 7.4)
Suspended solids	mg/L	2 (1 – 75)	9 (2 – 61)	6 (2 – 51)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 3)	1 (1 – 3)
Chemical Oxygen Demand	mg/L	2 (2 – 12)	3 (2 – 20)	4 (2 – 38)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	810 (79 – 7,000)	5,300 (2,200 – 19,000)	2,000 (350 – 39,000)
<i>E. coli</i>	cfu/ 100mL	46 (1 – 1,300)	750 (160 – 4,300)	72 (19 – 3,000)
Ammonia-nitrogen	mg/L	0.01 (0.01 – 1.30)	0.03 (0.01 – 0.91)	0.02 (0.01 – 5.60)
Nitrate-nitrogen	mg/L	0.43 (0.18 – 1.50)	0.44 (0.26 – 1.40)	0.23 (0.10 – 2.20)
Total Kjeldahl nitrogen, SP	mg/L	0.05 (0.05 – 1.60)	0.25 (0.12 – 1.40)	0.06 (0.05 – 6.90)
Ortho-phosphate	mg/L	0.01 (0.01 – 0.02)	0.03 (0.01 – 0.11)	0.01 (0.01 – 2.00)
Total phosphorus, SP	mg/L	0.02 (0.02 – 0.03)	0.07 (0.02 – 0.13)	0.02 (0.02 – 2.60)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	60 (50 – 310)	50 (50 – 230)	75 (50 – 400)
Cadmium	µg/L	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	1 (1 – 2)	1 (1 – 6)	1 (1 – 23)
Lead	µg/L	1 (1 – 8)	1 (1 – 5)	1 (1 – 11)
Zinc	µg/L	10 (10 – 40)	10 (10 – 40)	10 (10 – 80)
Flow	L/s	16 (1 – 150)	17 (2 – 231)	61 (8 – 176)

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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
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## Summary of water quality monitoring data for Ngau Hom Sha Stream, Tai Shui Hang Stream and Tsang Kok Stream in 2005

Parameter	Unit	Ngau Hom Sha Stream	Tai Shui Hang Stream	Tsang Kok Stream
		DB6	DB2	DB8
Dissolved oxygen	mg/L	8.0 (6.4 – 9.9)	8.4 (7.2 – 10.2)	9.1 (7.1 – 11.5)
pH		7.2 (6.7 – 7.5)	7.1 (6.9 – 7.8)	7.6 (7.2 – 8.7)
Suspended solids	mg/L	6 (3 – 98)	5 (1 – 180)	3 (1 – 97)
5-day Biochemical Oxygen Demand	mg/L	3 (1 – 8)	1 (1 – 5)	1 (1 – 6)
Chemical Oxygen Demand	mg/L	9 (2 – 29)	3 (2 – 34)	5 (2 – 31)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	29,000 (6,600 – 110,000)	910 (90 – 12,000)	3,300 (720 – 50,000)
<i>E. coli</i>	cfu/ 100mL	14,000 (3,800 – 110,000)	120 (24 – 4,800)	120 (16 – 31,000)
Ammonia-nitrogen	mg/L	3.10 (0.74 – 13.00)	0.03 (0.02 – 0.98)	0.05 (0.01 – 2.60)
Nitrate-nitrogen	mg/L	1.09 (0.52 – 2.50)	0.27 (0.07 – 1.30)	0.44 (0.09 – 2.60)
Total Kjeldahl nitrogen, SP	mg/L	3.35 (0.88 – 18.00)	0.10 (0.05 – 2.00)	0.14 (0.05 – 3.10)
Ortho-phosphate	mg/L	0.96 (0.02 – 4.70)	0.01 (0.01 – 0.02)	0.01 (0.01 – 0.03)
Total phosphorus, SP	mg/L	1.05 (0.02 – 7.10)	0.02 (0.02 – 0.08)	0.02 (0.02 – 0.09)
Sulphide, SP	mg/L	0.02 (0.02 – 0.05)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	75 (50 – 320)	105 (50 – 630)	110 (50 – 420)
Cadmium	µg/L	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 6)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	4 (1 – 34)	1 (1 – 5)	1 (1 – 4)
Lead	µg/L	2 (1 – 9)	2 (1 – 24)	1 (1 – 16)
Zinc	µg/L	20 (10 – 80)	10 (10 – 50)	10 (10 – 60)
Flow	L/s	10 (2 – 66)	130 (7 – 610)	NM

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  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
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## Summary of water quality monitoring data for Mui Wo River in 2005 (Part 1 of 2)

Parameter	Unit	Mui Wo River		
		MW1	MW2	MW3
Dissolved oxygen	mg/L	8.1 (7.1 – 11.0)	8.2 (6.7 – 11.0)	8.2 (7.2 – 10.5)
pH		7.1 (6.7 – 7.5)	7.4 (6.9 – 7.8)	7.1 (6.9 – 7.6)
Suspended solids	mg/L	2 (1 – 4)	4 (1 – 9)	1 (1 – 3)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 4)	1 (1 – 1)
Chemical Oxygen Demand	mg/L	7 (2 – 9)	12 (3 – 24)	3 (2 – 7)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	4,200 (420 – 85,000)	21,000 (6,600 – 100,000)	2,300 (260 – 27,000)
<i>E. coli</i>	cfu/ 100mL	420 (110 – 11,000)	3,500 (900 – 34,000)	270 (37 – 3,500)
Ammonia-nitrogen	mg/L	0.04 (0.01 – 0.24)	0.26 (0.02 – 1.20)	0.02 (0.01 – 0.03)
Nitrate-nitrogen	mg/L	0.33 (0.15 – 1.60)	0.17 (0.07 – 0.41)	0.36 (0.16 – 1.50)
Total Kjeldahl nitrogen, SP	mg/L	0.19 (0.10 – 0.39)	0.50 (0.17 – 1.50)	0.09 (0.05 – 0.15)
Ortho-phosphate	mg/L	0.13 (0.03 – 0.22)	0.08 (0.04 – 0.16)	0.06 (0.02 – 0.09)
Total phosphorus, SP	mg/L	0.14 (0.04 – 0.23)	0.12 (0.09 – 0.28)	0.07 (0.02 – 0.09)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	60 (50 – 80)	55 (50 – 80)	50 (50 – 70)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	2 (1 – 3)	2 (1 – 3)	1 (1 – 2)
Lead	µg/L	1 (1 – 2)	1 (1 – 2)	1 (1 – 1)
Zinc	µg/L	10 (10 – 40)	20 (10 – 40)	20 (10 – 40)
Flow	L/s	77 (8 – 1,625)	NM	23 (4 – 672)

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  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
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## Summary of water quality monitoring data for Mui Wo River in 2005 (Part 2 of 2)

Parameter	Unit	Mui Wo River	
		MW4	MW5
Dissolved oxygen	mg/L	7.9 (5.9 – 9.5)	7.5 (6.0 – 10.3)
pH		7.1 (6.7 – 7.8)	7.0 (6.8 – 7.5)
Suspended solids	mg/L	7 (1 – 26)	6 (2 – 29)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 2)	2 (2 – 3)
Chemical Oxygen Demand	mg/L	12 (5 – 17)	14 (4 – 23)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	6,200 (730 – 110,000)	33,000 (5,100 – 310,000)
<i>E. coli</i>	cfu/ 100mL	1,300 (250 – 28,000)	5,800 (1,600 – 24,000)
Ammonia-nitrogen	mg/L	0.24 (0.10 – 1.10)	0.46 (0.12 – 2.20)
Nitrate-nitrogen	mg/L	0.26 (0.12 – 0.54)	0.20 (0.14 – 0.46)
Total Kjeldahl nitrogen, SP	mg/L	0.45 (0.34 – 1.30)	0.79 (0.41 – 2.50)
Ortho-phosphate	mg/L	0.05 (0.02 – 0.19)	0.07 (0.03 – 0.12)
Total phosphorus, SP	mg/L	0.12 (0.06 – 0.25)	0.15 (0.10 – 0.30)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	65 (50 – 100)	60 (50 – 120)
Cadmium	µg/L	0.1 (0.1 – 0.3)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 2)	1 (1 – 1)
Copper	µg/L	2 (1 – 4)	1 (1 – 2)
Lead	µg/L	1 (1 – 2)	1 (1 – 5)
Zinc	µg/L	10 (10 – 20)	20 (10 – 30)
Flow	L/s	100 (40 – 1,050)	30 (4 – 189)

- Notes:
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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
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## Summary of water quality monitoring data for Tung Chung River in 2005

Parameter	Unit	Tung Chung River		
		TC1	TC2	TC3
Dissolved oxygen	mg/L	7.1 (6.0 – 8.2)	8.2 (7.6 – 10.6)	8.4 (7.7 – 10.6)
pH		6.7 (6.4 – 7.4)	7.4 (7.0 – 8.1)	7.5 (7.1 – 7.8)
Suspended solids	mg/L	1 (1 – 3)	2 (1 – 14)	1 (1 – 4)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 6)
Chemical Oxygen Demand	mg/L	3 (2 – 12)	5 (2 – 12)	4 (2 – 9)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	1,100 (100 – 56,000)	1,800 (90 – 35,000)	17,000 (4,200 – 71,000)
<i>E. coli</i>	cfu/ 100mL	31 (1 – 4,600)	65 (12 – 4,200)	4,500 (580 – 25,000)
Ammonia-nitrogen	mg/L	0.01 (0.01 – 0.02)	0.01 (0.01 – 0.04)	0.30 (0.03 – 1.30)
Nitrate-nitrogen	mg/L	0.04 (0.01 – 0.27)	0.01 (0.01 – 0.12)	0.09 (0.02 – 0.39)
Total Kjeldahl nitrogen, SP	mg/L	0.08 (0.05 – 0.30)	0.11 (0.05 – 0.26)	0.43 (0.12 – 1.60)
Ortho-phosphate	mg/L	0.01 (0.01 – 0.01)	0.01 (0.01 – 0.01)	0.06 (0.01 – 0.16)
Total phosphorus, SP	mg/L	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.03)	0.07 (0.02 – 0.18)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.03)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 50)	50 (50 – 80)	50 (50 – 130)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 1.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 2)
Lead	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Zinc	µg/L	10 (10 – 30)	10 (10 – 20)	20 (10 – 30)
Flow	L/s	19 (1 – 516)	75 (9 – 251)	NM

- Notes:
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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
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## Summary of water quality monitoring data for Tuen Mun River in 2005 (Part 1 of 2)

Parameter	Unit	Tuen Mun River		
		TN1	TN2	TN3
Dissolved oxygen	mg/L	3.5 (2.3 – 5.9)	8.5 (7.7 – 9.9)	4.8 (3.1 – 6.0)
pH		7.5 (7.3 – 7.8)	7.3 (7.0 – 8.1)	7.7 (7.3 – 8.3)
Suspended solids	mg/L	32 (8 – 96)	15 (5 – 660)	4 (3 – 18)
5-day Biochemical Oxygen Demand	mg/L	48 (21 – 90)	1 (1 – 4)	3 (1 – 7)
Chemical Oxygen Demand	mg/L	57 (24 – 98)	5 (3 – 19)	15 (13 – 67)
Oil & grease	mg/L	2.2 (0.5 – 18.0)	0.5 (0.5 – 2.9)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	1,900,000 (370,000 – 21,000,000)	4,000 (1 – 210,000)	84,000 (6,700 – 1,100,000)
<i>E. coli</i>	cfu/ 100mL	240,000 (80,000 – 900,000)	1,700 (1 – 100,000)	9,100 (760 – 49,000)
Ammonia-nitrogen	mg/L	6.70 (2.90 – 9.50)	0.20 (0.12 – 1.70)	0.48 (0.22 – 1.60)
Nitrate-nitrogen	mg/L	0.29 (0.01 – 5.60)	1.70 (1.10 – 3.20)	0.50 (0.23 – 1.80)
Total Kjeldahl nitrogen, SP	mg/L	9.75 (5.40 – 14.00)	0.37 (0.17 – 2.30)	0.82 (0.59 – 2.10)
Ortho-phosphate	mg/L	0.83 (0.40 – 1.10)	0.06 (0.03 – 0.70)	0.05 (0.01 – 0.16)
Total phosphorus, SP	mg/L	1.45 (0.81 – 2.10)	0.09 (0.04 – 0.75)	0.10 (0.07 – 0.25)
Sulphide, SP	mg/L	0.04 (0.02 – 0.09)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	260 (90 – 650)	195 (50 – 1,300)	120 (60 – 250)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 5)	1 (1 – 2)	1 (1 – 2)
Copper	µg/L	5 (4 – 7)	3 (1 – 6)	4 (2 – 5)
Lead	µg/L	3 (1 – 11)	3 (1 – 53)	1 (1 – 2)
Zinc	µg/L	40 (20 – 80)	25 (10 – 90)	15 (10 – 40)
Flow	L/s	69 (33 – 304)	84 (14 – 465)	NM

- Notes:
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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Tuen Mun River in 2005 (Part 2 of 2)

Parameter	Unit	Tuen Mun River		
		TN4	TN5	TN6
Dissolved oxygen	mg/L	5.3 (3.5 – 8.9)	5.1 (3.1 – 6.7)	5.3 (3.2 – 6.7)
pH		7.7 (7.3 – 7.9)	7.7 (7.3 – 8.0)	7.6 (7.2 – 7.9)
Suspended solids	mg/L	6 (3 – 16)	5 (3 – 34)	4 (3 – 16)
5-day Biochemical Oxygen Demand	mg/L	3 (2 – 6)	3 (1 – 6)	3 (1 – 7)
Chemical Oxygen Demand	mg/L	18 (5 – 25)	16 (8 – 24)	15 (8 – 25)
Oil & grease	mg/L	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.9)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	100,000 (22,000 – 1,100,000)	81,000 (11,000 – 2,000,000)	33,000 (4,500 – 380,000)
<i>E. coli</i>	cfu/ 100mL	20,000 (2,800 – 80,000)	12,000 (1,100 – 66,000)	5,500 (320 – 46,000)
Ammonia-nitrogen	mg/L	0.55 (0.28 – 1.80)	0.52 (0.20 – 1.80)	0.40 (0.16 – 1.20)
Nitrate-nitrogen	mg/L	0.62 (0.23 – 1.90)	0.56 (0.21 – 1.80)	0.46 (0.18 – 1.20)
Total Kjeldahl nitrogen, SP	mg/L	1.00 (0.58 – 2.10)	0.79 (0.64 – 2.20)	0.71 (0.56 – 1.50)
Ortho-phosphate	mg/L	0.07 (0.02 – 0.19)	0.05 (0.02 – 0.18)	0.05 (0.01 – 0.13)
Total phosphorus, SP	mg/L	0.10 (0.05 – 0.27)	0.11 (0.06 – 0.29)	0.10 (0.06 – 0.18)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.04)
Aluminium	µg/L	115 (70 – 280)	120 (60 – 270)	80 (50 – 160)
Cadmium	µg/L	0.1 (0.1 – 0.2)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 2)	2 (1 – 2)	1 (1 – 2)
Copper	µg/L	4 (2 – 6)	4 (2 – 7)	4 (2 – 5)
Lead	µg/L	1 (1 – 2)	1 (1 – 2)	1 (1 – 1)
Zinc	µg/L	20 (10 – 30)	10 (10 – 20)	10 (10 – 20)
Flow	L/s	NM	NM	NM

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Pai Min Kok Stream and Kau Wa Keng Stream in 2005

Parameter	Unit	Pai Min Kok Stream		Kau Wa Keng Stream
		AN1	AN2	KW3
Dissolved oxygen	mg/L	8.0 (7.3 – 10.0)	8.2 (6.4 – 10.6)	8.0 (7.7 – 10.1)
pH		8.0 (7.5 – 9.3)	7.9 (7.3 – 8.9)	7.5 (7.1 – 9.1)
Suspended solids	mg/L	7 (3 – 430)	4 (1 – 24)	5 (3 – 13)
5-day Biochemical Oxygen Demand	mg/L	5 (1 – 58)	2 (1 – 9)	2 (1 – 8)
Chemical Oxygen Demand	mg/L	14 (6 – 130)	11 (5 – 39)	12 (5 – 29)
Oil & grease	mg/L	0.5 (0.5 – 1.4)	0.5 (0.5 – 1.4)	0.5 (0.5 – 0.7)
Faecal coliforms	cfu/ 100mL	150,000 (22,000 – 2,600,000)	76,000 (15,000 – 780,000)	88,000 (12,000 – 470,000)
<i>E. coli</i>	cfu/ 100mL	25,000 (6,800 – 190,000)	23,000 (2,400 – 520,000)	45,000 (8,900 – 340,000)
Ammonia-nitrogen	mg/L	0.29 (0.10 – 4.10)	0.35 (0.05 – 12.00)	0.56 (0.09 – 3.70)
Nitrate-nitrogen	mg/L	1.70 (0.91 – 5.00)	0.99 (0.40 – 5.20)	2.50 (1.90 – 3.60)
Total Kjeldahl nitrogen, SP	mg/L	0.72 (0.36 – 12.0)	0.52 (0.20 – 15.00)	0.96 (0.26 – 5.20)
Ortho-phosphate	mg/L	0.17 (0.08 – 0.89)	0.10 (0.05 – 1.60)	0.08 (0.01 – 0.22)
Total phosphorus, SP	mg/L	0.22 (0.10 – 2.60)	0.13 (0.06 – 2.00)	0.25 (0.05 – 0.46)
Sulphide, SP	mg/L	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.09)	0.02 (0.02 – 0.04)
Aluminium	µg/L	135 (90 – 4,800)	80 (50 – 210)	115 (60 – 320)
Cadmium	µg/L	0.1 (0.1 – 1.1)	0.1 (0.1 – 0.1)	1.2 (0.7 – 2.2)
Chromium	µg/L	1 (1 – 11)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	8 (3 – 140)	3 (1 – 6)	2 (2 – 5)
Lead	µg/L	2 (1 – 65)	1 (1 – 2)	3 (2 – 4)
Zinc	µg/L	50 (30 – 1,300)	35 (20 – 90)	110 (50 – 180)
Flow	L/s	NM	7 (3 – 23)	27 (11 – 47)

- Notes:
1. Data presented are in annual medians of monthly samples; except those for faecal coliforms and *E. coli* which are in annual geometric means.
  2. Figures in brackets are annual ranges.
  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
  7. Equal values for annual medians (or geometric means) and ranges indicate that all data are the same as or below laboratory reporting limits.

## Summary of water quality monitoring data for Sam Dip Tam Stream in 2005

Parameter	Unit	Sam Dip Tam Stream		
		TW1	TW2	TW3
Dissolved oxygen	mg/L	7.6 (4.4 – 9.3)	8.2 (7.8 – 9.9)	8.2 (7.5 – 10.2)
pH		7.5 (6.9 – 7.8)	7.9 (7.4 – 8.0)	7.6 (7.2 – 8.0)
Suspended solids	mg/L	2 (1 – 7)	2 (1 – 5)	2 (1 – 9)
5-day Biochemical Oxygen Demand	mg/L	1 (1 – 22)	2 (1 – 5)	2 (1 – 5)
Chemical Oxygen Demand	mg/L	8 (3 – 27)	7 (3 – 14)	8 (4 – 14)
Oil & grease	mg/L	0.5 (0.5 – 0.8)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	250,000 (18,000 – 11,000,000)	120,000 (42,000 – 370,000)	53,000 (10,000 – 660,000)
<i>E. coli</i>	cfu/ 100mL	55,000 (3,800 – 3,600,000)	37,000 (11,000 – 140,000)	14,000 (1,100 – 80,000)
Ammonia-nitrogen	mg/L	0.04 (0.01 – 0.67)	0.13 (0.02 – 0.37)	0.12 (0.01 – 0.28)
Nitrate-nitrogen	mg/L	0.51 (0.23 – 2.90)	1.60 (0.41 – 3.00)	1.90 (0.54 – 3.20)
Total Kjeldahl nitrogen, SP	mg/L	0.21 (0.07 – 1.60)	0.30 (0.18 – 0.63)	0.28 (0.12 – 0.51)
Ortho-phosphate	mg/L	0.05 (0.02 – 0.07)	0.14 (0.05 – 0.30)	0.15 (0.05 – 0.28)
Total phosphorus, SP	mg/L	0.07 (0.02 – 0.20)	0.15 (0.07 – 0.37)	0.16 (0.06 – 0.36)
Sulphide, SP	mg/L	0.02 (0.02 – 0.05)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.04)
Aluminium	µg/L	50 (50 – 70)	50 (50 – 70)	50 (50 – 110)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)
Chromium	µg/L	1 (1 – 1)	1 (1 – 1)	1 (1 – 1)
Copper	µg/L	2 (1 – 4)	2 (1 – 2)	2 (1 – 5)
Lead	µg/L	2 (1 – 6)	1 (1 – 3)	1 (1 – 4)
Zinc	µg/L	40 (10 – 90)	30 (10 – 50)	20 (10 – 40)
Flow	L/s	NM	81 (2 – 918)	NM

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  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
  6. Values at or below laboratory reporting limits are presented as laboratory reporting limits (see Appendix B).
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## Summary of water quality monitoring data for Kai Tak Nullah in 2005 (Part 1 of 2)

Parameter	Unit	Kai Tak Nullah		
		KN1	KN2	KN3
Dissolved oxygen	mg/L	6.5 (4.4 – 7.3)	6.6 (5.4 – 7.3)	7.5 (6.5 – 8.0)
pH		7.3 (7.1 – 7.6)	7.2 (7.0 – 7.6)	7.4 (7.2 – 7.5)
Suspended solids	mg/L	5 (3 – 44)	35 (5 – 60)	24 (6 – 47)
5-day Biochemical Oxygen Demand	mg/L	6 (2 – 23)	8 (5 – 14)	6 (3 – 14)
Chemical Oxygen Demand	mg/L	32 (24 – 54)	29 (19 – 44)	25 (16 – 80)
Oil & grease	mg/L	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.6)
Faecal coliforms	cfu/ 100mL	490,000 (95,000 – 18,000,000)	300,000 (61,000 – 1,200,000)	290,000 (100,000 – 840,000)
<i>E. coli</i>	cfu/ 100mL	210,000 (36,000 – 9,200,000)	130,000 (34,000 – 530,000)	95,000 (55,000 – 160,000)
Ammonia-nitrogen	mg/L	0.77 (0.20 – 3.90)	0.23 (0.05 – 1.50)	0.16 (0.09 – 0.52)
Nitrate-nitrogen	mg/L	4.65 (0.95 – 5.50)	4.95 (0.86 – 5.40)	5.15 (1.40 – 7.20)
Total Kjeldahl nitrogen, SP	mg/L	1.90 (1.00 – 5.80)	1.40 (1.20 – 2.80)	1.15 (1.10 – 3.10)
Ortho-phosphate	mg/L	1.65 (0.28 – 2.30)	1.55 (0.21 – 1.80)	1.50 (0.39 – 1.80)
Total phosphorus, SP	mg/L	1.80 (0.49 – 2.40)	1.80 (0.40 – 2.00)	1.95 (0.56 – 2.00)
Sulphide, SP	mg/L	0.05 (0.02 – 0.27)	0.03 (0.02 – 0.07)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 150)	95 (50 – 200)	95 (50 – 410)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	2 (1 – 5)	1 (1 – 3)	2 (1 – 7)
Copper	µg/L	8 (5 – 13)	9 (7 – 10)	10 (6 – 25)
Lead	µg/L	1 (1 – 3)	1 (1 – 5)	2 (1 – 9)
Zinc	µg/L	30 (20 – 70)	50 (30 – 70)	55 (20 – 120)
Flow	L/s	NM	NM	NM

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  3. NM indicates no measurement taken.
  4. cfu - colony forming unit.
  5. SP - soluble and particulate fractions i.e. total value.
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## Summary of water quality monitoring data for Kai Tak Nullah in 2005 (Part 2 of 2)

Parameter	Unit	Kai Tak Nullah		
		KN4	KN5	KN7
Dissolved oxygen	mg/L	7.7 (7.1 – 8.7)	7.9 (6.5 – 8.9)	7.5 (6.7 – 8.0)
pH		7.3 (7.2 – 7.6)	7.3 (7.2 – 7.6)	7.2 (7.1 – 7.4)
Suspended solids	mg/L	8 (4 – 47)	8 (5 – 14)	6 (3 – 11)
5-day Biochemical Oxygen Demand	mg/L	4 (2 – 8)	4 (2 – 9)	4 (2 – 9)
Chemical Oxygen Demand	mg/L	33 (18 – 54)	31 (22 – 58)	32 (26 – 54)
Oil & grease	mg/L	0.5 (0.5 – 0.6)	0.5 (0.5 – 0.5)	0.5 (0.5 – 0.5)
Faecal coliforms	cfu/ 100mL	110,000 (21,000 – 450,000)	99,000 (30,000 – 370,000)	89,000 (22,000 – 270,000)
<i>E. coli</i>	cfu/ 100mL	39,000 (9,400 – 120,000)	39,000 (17,000 – 160,000)	36,000 (15,000 – 100,000)
Ammonia-nitrogen	mg/L	0.15 (0.06 – 1.40)	0.13 (0.07 – 1.20)	0.10 (0.07 – 1.20)
Nitrate-nitrogen	mg/L	5.55 (1.40 – 7.90)	5.25 (4.00 – 7.70)	5.25 (3.80 – 7.40)
Total Kjeldahl nitrogen, SP	mg/L	1.20 (0.73 – 2.30)	1.20 (0.88 – 2.30)	1.20 (0.86 – 2.20)
Ortho-phosphate	mg/L	1.70 (0.46 – 2.20)	1.75 (1.20 – 2.20)	1.75 (1.20 – 2.20)
Total phosphorus, SP	mg/L	1.90 (0.55 – 2.40)	1.90 (1.40 – 2.40)	1.90 (1.40 – 2.40)
Sulphide, SP	mg/L	0.02 (0.02 – 0.06)	0.02 (0.02 – 0.02)	0.02 (0.02 – 0.02)
Aluminium	µg/L	50 (50 – 130)	50 (50 – 100)	50 (50 – 70)
Cadmium	µg/L	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.1)	0.1 (0.1 – 0.2)
Chromium	µg/L	1 (1 – 6)	1 (1 – 3)	2 (1 – 3)
Copper	µg/L	11 (4 – 15)	10 (4 – 16)	12 (4 – 16)
Lead	µg/L	1 (1 – 3)	1 (1 – 2)	1 (1 – 1)
Zinc	µg/L	30 (20 – 70)	30 (20 – 60)	30 (20 – 50)
Flow	L/s	NM	NM	NM

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