Appendix F

Calculation of Action and Limit Levels of Marine Water

The Hongkong Electric Company Limited
Marine Water Baseline Monitoring for the Lamma Power Station Extension
Calculation of Action and Limit Levels

1. Field Measurement of Dissolved Oxygen (mg/L)

1.1 Surface & Middle

	SR1	SR2	SR4	SR5	SR6	SR7
Action Level (5%-ile)	6.0	6.0	6.1	6.0	6.0	6.0
Limit Level (1%-ile)	6.0	6.0	6.0	6.0	5.8	5.7

1.2 Bottom

	SR1	SR2	SR4	SR5	SR6	SR7
Action Level (5%-ile)	5.9	6.0	6.1	6.1	6.1	6.1
Limit Level (1%-ile)	5.9	5.9	5.9	5.9	5.7	5.7

2. Turbidity (NTU)

	SR1	SR2	SR4	SR5	SR6	SR7
Action Level (95%-ile)	17.9	16.3	13.2	17.5	17.2	17.3
Limit Level (99%-ile)	22.8	19.0	13.6	18.3	17.9	21.5

Note: Action and Limit Levels of Turbidity are presented in depth-average values.

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1. Suspended Solids (mg/L)

	SR1	SR2	SR3	SR4	SR5	SR6	SR7
(95%-ile)	16.8	15.3	13.8	17.6	17.5	16.9	17.5
Action Level	16.8	15.3	--	17.6	17.5	16.9	17.5
(99%-ile)	18.9	15.5	17.0	19.1	18.4	23.5	19.0
Limit Level	18.9	15.5	100.0	19.1	18.4	23.5	19.0

Note: 1. No Action Level is applied for SR3 according to the EM&A Manual.
2. Limit Level of SR3 is 100 mg/L according to the EM&A Manual.

2. Unionized Ammonia (mg/L)

	SR1	SR2	SR4	SR5	SR6	SR7
Action Level (95%-ile)	0.006	0.005	0.003	0.001	0.001	0.001
(99%-ile)	0.007	0.005	0.003	0.002	0.001	0.003
Limit Level	0.021	0.021	0.021	0.021	0.021	0.021

3. Total Inorganic Nitrogen (mg/L)

	SR1	SR2	SR4	SR5	SR6	SR7
Action Level (95%-ile)	0.25	0.23	0.11	0.11	0.11	0.12
(99%-ile)	0.27	0.25	0.12	0.11	0.11	0.13
Limit Level	0.40	0.25	0.12	0.11	0.11	0.13