

Table 5.10e

## Water Quality Modelling Results at Sensitive Receivers - Dry Season

Sensitive Receiver	DO (Depth Averaged)			DO (Bottom)			BOD			TIN			Unionised Ammonia			Chlorophyll-a			<i>E. coli</i>			Suspended Solids				
	(mg L <sup>-1</sup> )			(mg L <sup>-1</sup> )			(mg L <sup>-1</sup> )			(mg L <sup>-1</sup> )			(mg L <sup>-1</sup> )			(μg L <sup>-1</sup> )			(cfu 100mL <sup>-1</sup> )			(mg L <sup>-1</sup> )				
	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD	NSLD + CT	Baseline	NSLD
Sha Chau	5.5	5.5	5.5	5.4	5.4	5.4	0.6	0.6	0.6	0.40	0.41	0.40	0.007	0.007	0.007	3.7	3.7	3.7	2	2	2	18.5	18.5	18.5		
Castle Peak Power Station Intake	5.4	5.4	5.4	5.3	5.3	5.3	0.6	0.6	0.6	0.36	0.36	0.36	0.007	0.007	0.007	3.1	3.1	3.1	7	7	7	18.6	18.7	18.6		
Butterfly Beach	5.5	5.4	5.4	5.4	5.4	5.4	0.5	0.5	0.5	0.28	0.28	0.28	0.005	0.006	0.006	3.0	3.0	3.1	34	33	32	11.5	11.5	11.3		
Chek Lap Kok Intake	5.5	5.5	5.5	5.5	5.5	5.5	0.6	0.6	0.6	0.33	0.35	0.35	0.006	0.007	0.007	3.9	3.9	3.9	2	2	2	15.1	15.1	15.0		
Tung Chung Bay	6.2	6.2	6.3	6.1	6.1	6.2	3.0	3.0	3.0	0.32	0.33	0.32	0.010	0.010	0.010	23.5	23.8	24.0	13,990	13,960	13,940	16.9	17.0	17.0		
Castle Peak Beach	5.8	5.8	5.8	5.1	5.2	5.1	1.3	1.3	1.3	0.22	0.23	0.22	0.004	0.005	0.005	13.2	13.4	13.4	211	217	213	19.6	19.5	19.4		
Kadoorie Beach	5.8	5.8	5.8	5.3	5.4	5.3	1.1	1.1	1.1	0.25	0.25	0.25	0.005	0.005	0.005	9.8	10.0	10.0	1,221	1,249	1,222	14.8	14.6	15.1		
Cafeteria Old Beach	5.7	5.6	5.7	5.4	5.4	5.4	0.8	0.8	0.8	0.26	0.26	0.26	0.005	0.005	0.005	6.4	6.5	6.5	529	537	532	13.1	13.1	12.9		
Cafeteria New Beach	5.7	5.6	5.7	5.4	5.4	5.4	0.8	0.8	0.8	0.26	0.26	0.26	0.005	0.005	0.005	6.4	6.5	6.5	529	537	532	13.1	13.1	12.9		
Golden Beach	5.6	5.6	5.6	5.5	5.4	5.4	0.6	0.6	0.6	0.26	0.27	0.27	0.005	0.005	0.005	4.8	4.9	4.9	310	313	314	12.2	12.2	12.1		
Brothers	5.5	5.5	5.5	5.4	5.4	5.4	0.5	0.5	0.5	0.29	0.30	0.30	0.006	0.006	0.006	2.9	2.9	2.9	4	4	4	14.7	14.8	14.6		
Yam O Wan	5.5	5.7	5.7	5.4	5.4	5.4	0.4	0.6	0.6	0.23	0.24	0.24	0.005	0.005	0.005	2.5	5.1	5.1	6	3	3	10.2	10.0	9.8		
Dragon Beach	5.5	5.4	5.5	5.5	5.4	5.4	0.3	0.3	0.3	0.19	0.20	0.20	0.004	0.004	0.004	1.8	1.8	1.8	43	46	46	9.9	9.9	9.8		
Gemini Beaches	5.5	5.5	5.5	5.4	5.4	5.4	0.3	0.3	0.3	0.18	0.19	0.18	0.004	0.004	0.004	1.7	1.7	1.7	39	39	39	9.0	9.1	8.9		
Hoi Mei Wan	5.5	5.5	5.5	5.4	5.4	5.4	0.3	0.3	0.3	0.18	0.19	0.19	0.004	0.004	0.004	1.8	1.8	1.8	87	90	84	8.4	8.5	8.4		
Casam Beach	5.5	5.5	5.5	5.4	5.4	5.4	0.3	0.3	0.3	0.19	0.19	0.19	0.004	0.004	0.004	1.9	1.9	1.9	129	136	129	7.8	7.8	7.7		
Lido Beach	5.4	5.4	5.4	5.3	5.3	5.3	0.3	0.3	0.3	0.19	0.19	0.19	0.004	0.004	0.004	1.8	1.8	1.8	143	152	143	7.9	7.9	7.7		
Ting Kau Beach	5.4	5.4	5.4	5.4	5.3	5.3	0.3	0.3	0.3	0.19	0.19	0.19	0.004	0.005	0.004	1.8	1.8	1.8	209	232	218	8.3	8.3	8.1		
Approach Beach	5.4	5.4	5.4	5.4	5.4	5.4	0.3	0.3	0.3	0.18	0.19	0.19	0.004	0.005	0.004	1.8	1.8	1.8	318	344	325	8.3	8.3	8.1		
Ma Wan FCZ N	5.5	5.5	5.5	5.5	5.5	5.5	0.4	0.4	0.4	0.21	0.22	0.22	0.005	0.005	0.005	2.1	2.1	2.1	15	15	16	10.6	10.6	10.5		
Ma Wan FCZ S	5.5	5.5	5.5	5.5	5.5	5.5	0.4	0.4	0.3	0.20	0.20	0.20	0.004	0.005	0.004	2.0	2.0	2.0	8	9	9	10.5	10.5	10.3		
Tung Wan, Ma Wan	5.5	5.5	5.5	5.4	5.4	5.4	0.3	0.3	0.3	0.16	0.17	0.17	0.004	0.004	0.004	1.7	1.8	1.7	8	8	8	7.7	7.8	7.6		
Sze Pak Wan	6.0	6.3	6.2	6.0	6.2	6.2	0.5	0.8	0.7	0.12	0.08	0.07	0.003	0.002	0.002	5.4	8.6	7.9	8	2	3	7.3	7.0	6.6		
Discovery Bay Beach	6.6	6.4	6.4	6.6	6.3	6.3	1.0	1.2	1.1	0.05	0.03	0.03	0.001	0.001	0.001	12.7	12.4	12.1	2	1	1	7.9	7.0	6.6		
Kau Yi Chau	5.6	5.6	5.4	5.6	5.6	5.4	0.3	0.3	0.2	0.13	0.13	0.11	0.003	0.003	0.003	2.0	1.9	1.5	2	2	1	7.3	7.2	4.6		
Tsuen Wan WSD Intake	5.4	5.4	5.4	5.4	5.3	5.4	0.4	0.4	0.4	0.18	0.18	0.18	0.005	0.005	0.005	1.7	1.7	1.7	2,455	2,522	2,456	7.7	7.8	7.6		
Tsing Yi WSD Intake	5.4	5.3	5.4	5.3	5.3	5.3	0.3	0.3	0.3	0.16	0.17	0.16	0.004	0.005	0.005	1.6	1.6	1.6	1,433	1,417	1,418	7.7	7.8	7.6		
Cheung Sha Wan WSD Intake	5.2	5.2	5.2	5.2	5.2	5.2	0.9	0.9	0.9	0.21	0.21	0.20	0.010	0.010	0.010	3.1	3.1	3.0	18,780	18,780	18,720	5.4	5.5	5.4		
Yau Ma Tei WSD Intake	5.4	5.4	5.4	5.4	5.4	5.4	0.5	0.5	0.4	0.13	0.13	0.13	0.005	0.005	0.005	2.4	2.5	2.4	3,201	3,193	3,205	4.8	4.8	4.8		
Sheung Wan WSD Intake	5.5	5.5	5.5	5.5	5.5	5.5	0.3	0.3	0.3	0.09	0.09	0.09	0.003	0.003	0.003	1.3	1.3	1.3	1,531	1,530	1,513	4.9	4.9	4.9		
Kennedy Town WSD Intake	5.6	5.5	5.5	5.5	5.5	5.5	0.2	0.2	0.2	0.10	0.11	0.10	0.003	0.003	0.003	1.1	1.1	1.1	43	43	43	6.6	6.7	6.6		
Green Island	5.6	5.5	5.5	5.5	5.5	5.5	0.2	0.2	0.2	0.10	0.11	0.10	0.003	0.003	0.003	1.1	1.1	1.1	43	43	43	6.6	6.7	6.6		
Queen Mary Hospital/Shaw Wan Drive Intake	5.6	5.6	5.6	5.6	5.5	5.6	0.2	0.2	0.2	0.10	0.10	0.10	0.003	0.003	0.003	1.0	1.0	1.0	45	46	45	6.1	6.1	6.1		
Wah Fu Estate Intake	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.2	0.08	0.08	0.08	0.002	0.002	0.002	0.9	0.9	0.9	105	109	106	5.4	5.4	5.3		
Pak Kok	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.2	0.10	0.10	0.09	0.003	0.003	0.003	1.1	1.1	1.0	3	4	4	5.8	5.8	5.6		
Shek Kok Tsui	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.2	0.10	0.10	0.10	0.003	0.003	0.003	1.3	1.3	1.2	5	5	3	5.8	5.8	5.7		
Luk Chau	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.2	0.09	0.09	0.08	0.002	0.002	0.002	1.0	1.0	1.0	2	2	2	5.2	5.1	5.1		
Lo Tik Wan FCZ	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.2	0.09	0.09	0.08	0.002	0.002	0.002	1.0	1.0	1.0	2	2	2	5.2	5.1	5.1		
Hung Shing Yeh Beach	5.6	5.6	5.6	5.6	5.6	5.5	0.2	0.2	0.1	0.08	0.08	0.08	0.003	0.003	0.003	1.2	1.2	1.0	3	3	5	4.3	4.3	4.3		
Lo So Shing Beach	5.6	5.6	5.6	5.6	5.6	5.6	0.2	0.2	0.1	0.08	0.08	0.08	0.003	0.003	0.003	1.1	1.1	0.9	7	7	9	4.4	4.4	4.3		
Sok Kwu Wan FCZ	5.8	5.8	5.8	5.7	5.8	5.8	0.3	0.3	0.3	0.09	0.09	0.08	0.003	0.003	0.003	2.8	2.8	2.7	1	1	1	4.5	4.5	4.4		
Silvermine Bay Beach	6.4	6.3	6.3	6.3	6.3	6.2	1.1	1.1	1.1	0.02	0.02	0.02	0.001	0.001	0.001	11.5	11.3	11.0	369	368	367	6.3	6.1	5.7		
Cheung Sha Wan FCZ	6.2	6.2	6.2	6.2	6.2	6.2	0.6	0.7	0.7	0.06	0.06	0.06	0.002	0.002	0.002	7.1	7.6	7.7	101	104	106	6.0	5.8	5.4		
Tung Wan, Cheung Chau	5.9	5.9	5.9	4.7	4.6	5.1	0.5	0.5	0.5	0.08	0.08	0.08	0.003	0.003	0.003	5.0	5.4	5.4	1,208	1,239	1,279	5.3	5.2	5.1		
Kwun Yam Wan	5.7	5.7	5.7	5.5	5.6	5.6	0.2	0.2	0.1	0.07	0.07	0.07	0.002	0.002	0.002	1.2	1.2	1.1	3	3	2	4.7	4.7	4.6		
M1	6.0	6.3	6.2	6.0	6.3	6.2	0.6	0.7	0.6	0.11	0.08	0.08	0.003	0.002	0.002	5.7	8.1	6.9	22	18	21	7.2	6.8	6.4		
M2	5.8	5.9	5.8	5.8	5.8	5.8	0.4	0.5	0.4	0.13	0.12	0.11	0.003	0.003	0.003	3.7	4.5	4.0	7	7	11	7.6	6.7	6.9		
M3	5.6	5.7	5.6	5.6	5.7	5.6	0.3	0.3	0.3	0.16	0.14	0.14	0.004	0.003	0.003	2.3	2.7	2.6	3	2	5	8.6	7.3	7.6		
M4	5.6	5.5	5.5	5.5	5.5	5.5	0.3	0.3	0.3	0.17	0.17	0.17	0.004	0.004	0.004	1.9	2.1	2.0	4	4	5	8.8	9.0	8.8		
M5	5.5	5.5	5.5	5.5	5.4	5.4	0.5	0.5	0.5	0.27	0.29	0.29	0.006	0.006	0.006	2.8	2.8	2.8	7	10	10	14.0	13.9	13.7		
M6	5.5	5.4	5.5	5.4	5.4	5.4	0.4	0.5	0.5	0.25	0.26	0.26	0.005	0.006	0.006	2.5	2.5	2.4	9	10	10	13.1	13.2	13.0		
M7	5.5	5.5	5.5	5.5	5.4	5.4	0.4	0.4	0.4	0.22	0.23	0.23	0.005	0.005	0.005	2.2	2.2	2.2	11	12	12	11.8	11.9	11.7		
M8	5.5	5.5	5.5	5.5	5.4	5.4	0.4	0.4	0.4	0.20	0.21	0.21	0.005	0.005	0.005	2.0	2.0	1.9	19	20	21	11.1	11.2	11.0		
M9	6.3	6.3	6.3	6.3	6.3	6.3	1.1	1.1	1.1	0.25	0.27	0.26	0.004	0.005	0.005	13.0	13.4	13.5	11	10	9	15.0	15.4	15.2		

## Notes :

1. Shaded cells indicate exceedences of the Water Quality Objectives.
2. DO concentrations are presented as the values which are exceeded 90% of the time during the simulation duration.
3. BOD, TIN, Unionised Ammonia and Chlorophyll-a data are presented as mean depth averaged concentrations.
4. *E. coli* data are presented as depth averaged geometric mean concentrations.
5. Suspended sediment data are presented as maximum depth averaged concentrations.