

Appendix 4-6

Model Results at Indicator Points for UDS – Dry Season

Results at Indicator Points - Normal Operation - UDS (Dry Season)

Note: Shaded and bolded - value exceeded the WQO

(I) WSD Flushing Water Intakes and Cooling Water Intakes

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
WSD Flushing Water Intakes								
Assessment Criteria								
WSD1	Near Butterfly Beach	without the Project (2a)	5.73	0.004	0.072	1070	7.98	0.70
		with the Project (2b)	5.74	0.004	0.072	325	7.93	0.70
		Sensitivity Test - Higher Treatment Level (2c)	5.80	0.003	0.066	323	7.88	0.67
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.74	0.004	0.072	1497	7.93	0.70
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.74	0.004	0.072	2636	7.93	0.70
		Treated Effluent at Emergency Bypass for 12 days (6)	5.73	0.004	0.080	339	7.93	0.70
WSD2	Near LRT Terminus	without the Project (2a)	5.74	0.004	0.069	3482	7.56	0.72
		with the Project (2b)	5.75	0.004	0.068	3182	7.51	0.72
		Sensitivity Test - Higher Treatment Level (2c)	5.82	0.003	0.063	3176	7.46	0.69
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.75	0.004	0.068	3182	7.51	0.72
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.74	0.004	0.068	3182	7.51	0.72
		Treated Effluent at Emergency Bypass for 12 days (6)	5.74	0.004	0.076	3210	7.51	0.72
WSD3	Near Hong Kong Garden	without the Project (2a)	5.74	0.003	0.059	475	6.60	0.57
		with the Project (2b)	5.75	0.003	0.059	137	6.56	0.56
		Sensitivity Test - Higher Treatment Level (2c)	5.80	0.003	0.055	133	6.52	0.54
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.75	0.003	0.059	137	6.56	0.56
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.75	0.003	0.059	215	6.56	0.56
		Treated Effluent at Emergency Bypass for 12 days (6)	5.73	0.003	0.060	150	6.56	0.56
WSD4	Tsuen Wan	without the Project (2a)	5.72	0.003	0.060	2746	5.67	0.53
		with the Project (2b)	5.72	0.003	0.060	2745	5.65	0.53
		Sensitivity Test - Higher Treatment Level (2c)	5.75	0.003	0.060	2745	5.63	0.53
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.72	0.003	0.060	2745	5.65	0.53
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.72	0.003	0.060	2745	5.65	0.53
		Treated Effluent at Emergency Bypass for 12 days (6)	5.70	0.003	0.060	2745	5.65	0.53
WSD5	Tsing Yi	without the Project (2a)	5.69	0.004	0.069	6949	5.71	0.61
		with the Project (2b)	5.70	0.004	0.069	6948	5.69	0.61
		Sensitivity Test - Higher Treatment Level (2c)	5.73	0.004	0.068	6948	5.67	0.61
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.70	0.004	0.069	6948	5.69	0.61
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.69	0.004	0.069	6948	5.69	0.61
		Treated Effluent at Emergency Bypass for 12 days (6)	5.68	0.004	0.069	6948	5.69	0.61
WSD6	Cheung Sha Wan	without the Project (2a)	4.04	0.020	0.381	16511	8.37	2.41
		with the Project (2b)	4.04	0.020	0.381	16511	8.37	2.41
		Sensitivity Test - Higher Treatment Level (2c)	4.04	0.020	0.381	16511	8.37	2.41
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.04	0.020	0.381	16511	8.37	2.41
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.04	0.020	0.381	16511	8.37	2.41
		Treated Effluent at Emergency Bypass for 12 days (6)	4.04	0.020	0.381	16511	8.43	2.43
WSD7	Kowloon South	without the Project (2a)	5.96	0.005	0.097	8699	5.00	0.73
		with the Project (2b)	5.96	0.005	0.097	8699	5.00	0.73
		Sensitivity Test - Higher Treatment Level (2c)	5.96	0.005	0.097	8699	5.00	0.73
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.96	0.005	0.097	8699	5.00	0.73
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.96	0.005	0.097	8699	5.00	0.73
		Treated Effluent at Emergency Bypass for 12 days (6)	5.93	0.005	0.097	8699	5.00	0.74
WSD8	Yau Ma Tei	without the Project (2a)	5.98	0.005	0.083	3684	4.86	0.53
		with the Project (2b)	5.98	0.005	0.083	3684	4.86	0.53
		Sensitivity Test - Higher Treatment Level (2c)	5.98	0.005	0.082	3684	4.85	0.53
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.98	0.005	0.083	3684	4.86	0.53
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.98	0.005	0.083	3684	4.86	0.53
		Treated Effluent at Emergency Bypass for 12 days (6)	5.95	0.005	0.083	3684	4.86	0.53
WSD9	Tai Wan	without the Project (2a)	6.07	0.008	0.146	1451	4.66	0.37
		with the Project (2b)	6.07	0.008	0.146	1451	4.66	0.37
		Sensitivity Test - Higher Treatment Level (2c)	6.07	0.008	0.146	1451	4.66	0.37
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.07	0.008	0.146	1451	4.66	0.37
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.07	0.008	0.146	1451	4.66	0.37
		Treated Effluent at Emergency Bypass for 12 days (6)	6.03	0.008	0.146	1451	4.66	0.37
WSD10	Cha Kwo Ling	without the Project (2a)	6.05	0.013	0.221	2501	4.66	0.38
		with the Project (2b)	6.05	0.013	0.221	2501	4.66	0.38
		Sensitivity Test - Higher Treatment Level (2c)	6.05	0.013	0.221	2501	4.66	0.38
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.05	0.013	0.221	2501	4.66	0.38
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.05	0.013	0.221	2501	4.66	0.38
		Treated Effluent at Emergency Bypass for 12 days (6)	6.05	0.013	0.221	2501	4.66	0.38

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
WSD11	Yau Tong	without the Project (2a)	6.12	0.011	0.189	582	4.66	0.33
		with the Project (2b)	6.12	0.011	0.189	582	4.66	0.33
		Sensitivity Test - Higher Treatment Level (2c)	6.12	0.011	0.189	582	4.66	0.33
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.12	0.011	0.189	582	4.66	0.33
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.12	0.011	0.189	582	4.66	0.33
		Treated Effluent at Emergency Bypass for 12 days (6)	6.08	0.011	0.190	582	4.66	0.33
WSD12	Tseung Kwan O	without the Project (2a)	6.50	0.002	0.043	2084	4.10	0.39
		with the Project (2b)	6.50	0.002	0.043	2084	4.10	0.39
		Sensitivity Test - Higher Treatment Level (2c)	6.50	0.002	0.043	2084	4.10	0.39
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.50	0.002	0.043	2084	4.10	0.39
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.50	0.002	0.043	2084	4.10	0.39
		Treated Effluent at Emergency Bypass for 12 days (6)	6.48	0.002	0.043	2084	4.10	0.40
WSD13	Siu Sai Wan	without the Project (2a)	6.28	0.004	0.067	11478	4.47	0.65
		with the Project (2b)	6.28	0.004	0.067	11478	4.47	0.65
		Sensitivity Test - Higher Treatment Level (2c)	6.28	0.004	0.067	11478	4.47	0.65
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.28	0.004	0.067	11478	4.47	0.65
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.28	0.004	0.067	11478	4.47	0.65
		Treated Effluent at Emergency Bypass for 12 days (6)	6.28	0.004	0.067	11478	4.47	0.66
WSD14	Heng Fa Chuen	without the Project (2a)	6.22	0.003	0.059	3055	4.44	0.30
		with the Project (2b)	6.22	0.003	0.059	3055	4.44	0.30
		Sensitivity Test - Higher Treatment Level (2c)	6.22	0.003	0.059	3055	4.44	0.30
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.22	0.003	0.059	3055	4.44	0.30
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.22	0.003	0.059	3055	4.44	0.30
		Treated Effluent at Emergency Bypass for 12 days (6)	6.18	0.003	0.060	3055	4.44	0.30
WSD15	Sai Wan Ho	without the Project (2a)	6.18	0.004	0.063	5408	4.49	0.36
		with the Project (2b)	6.18	0.004	0.063	5408	4.49	0.36
		Sensitivity Test - Higher Treatment Level (2c)	6.18	0.004	0.063	5408	4.49	0.36
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.18	0.004	0.063	5408	4.49	0.36
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.18	0.004	0.063	5408	4.49	0.36
		Treated Effluent at Emergency Bypass for 12 days (6)	6.15	0.004	0.064	5408	4.49	0.36
WSD16	Quarry Bay	without the Project (2a)	6.17	0.004	0.074	16085	4.64	0.48
		with the Project (2b)	6.17	0.004	0.074	16085	4.64	0.48
		Sensitivity Test - Higher Treatment Level (2c)	6.18	0.004	0.074	16085	4.64	0.48
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.17	0.004	0.074	16085	4.64	0.48
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.17	0.004	0.074	16085	4.64	0.48
		Treated Effluent at Emergency Bypass for 12 days (6)	6.14	0.004	0.075	16085	4.64	0.48
WSD17	North Point	without the Project (2a)	6.15	0.004	0.065	4023	4.57	0.37
		with the Project (2b)	6.15	0.004	0.065	4023	4.56	0.37
		Sensitivity Test - Higher Treatment Level (2c)	6.15	0.004	0.065	4023	4.56	0.37
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.15	0.004	0.065	4023	4.56	0.37
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.15	0.004	0.065	4023	4.56	0.37
		Treated Effluent at Emergency Bypass for 12 days (6)	6.11	0.004	0.066	4023	4.56	0.37
WSD18	Central Water Front	without the Project (2a)	5.94	0.004	0.073	3323	5.00	0.55
		with the Project (2b)	5.94	0.004	0.073	3323	4.99	0.55
		Sensitivity Test - Higher Treatment Level (2c)	5.95	0.004	0.072	3323	4.99	0.55
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.94	0.004	0.073	3323	4.99	0.55
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.94	0.004	0.073	3323	4.99	0.55
		Treated Effluent at Emergency Bypass for 12 days (6)	5.91	0.004	0.074	3323	4.99	0.55
WSD19	Sheung Wan	without the Project (2a)	5.93	0.004	0.074	4194	5.03	0.57
		with the Project (2b)	5.93	0.004	0.074	4194	5.02	0.57
		Sensitivity Test - Higher Treatment Level (2c)	5.95	0.004	0.074	4194	5.02	0.57
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.93	0.004	0.074	4194	5.02	0.57
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.93	0.004	0.074	4194	5.02	0.57
		Treated Effluent at Emergency Bypass for 12 days (6)	5.90	0.004	0.075	4194	5.02	0.57
WSD20	Kennedy Town	without the Project (2a)	5.89	0.004	0.066	312	5.07	0.49
		with the Project (2b)	5.89	0.004	0.066	312	5.06	0.49
		Sensitivity Test - Higher Treatment Level (2c)	5.91	0.004	0.065	312	5.05	0.49
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.89	0.004	0.066	312	5.06	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.89	0.004	0.066	312	5.06	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	5.86	0.004	0.066	312	5.06	0.49
WSD21	Ap Lei Chau	without the Project (2a)	6.13	0.002	0.039	101	4.37	0.23
		with the Project (2b)	6.13	0.002	0.039	101	4.37	0.23
		Sensitivity Test - Higher Treatment Level (2c)	6.14	0.002	0.039	101	4.36	0.23
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.13	0.002	0.039	101	4.37	0.23
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.13	0.002	0.039	101	4.37	0.23
		Treated Effluent at Emergency Bypass for 12 days (6)	6.10	0.002	0.039	101	4.37	0.23

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Cooling Water Intakes								
Assessment Criteria								
			N/A	N/A	N/A	N/A	N/A	N/A
C1	CLP Black Point Power Station	without the Project (2a)	5.50	0.008	0.151	734	13.56	1.37
		with the Project (2b)	5.51	0.008	0.151	655	13.52	1.37
		Sensitivity Test - Higher Treatment Level (2c)	5.59	0.008	0.147	655	13.48	1.36
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.51	0.008	0.151	655	13.52	1.37
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.51	0.008	0.151	655	13.52	1.37
		Treated Effluent at Emergency Bypass for 12 days (6)	5.51	0.008	0.153	655	13.52	1.37
C2	Castle Peak Power Station	without the Project (2a)	5.59	0.005	0.106	1710	10.77	0.98
		with the Project (2b)	5.60	0.005	0.106	234	10.73	0.98
		Sensitivity Test - Higher Treatment Level (2c)	5.69	0.005	0.102	226	10.69	0.96
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.60	0.005	0.106	1128	10.73	0.98
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.60	0.005	0.106	3716	10.73	0.98
		Treated Effluent at Emergency Bypass for 12 days (6)	5.58	0.006	0.108	255	10.73	0.98
C3	Castle Peak Power Station	without the Project (2a)	5.59	0.005	0.103	1700	10.58	0.95
		with the Project (2b)	5.60	0.005	0.103	178	10.54	0.95
		Sensitivity Test - Higher Treatment Level (2c)	5.69	0.005	0.098	176	10.49	0.93
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.60	0.005	0.103	1220	10.54	0.95
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.60	0.005	0.103	4217	10.54	0.95
		Treated Effluent at Emergency Bypass for 12 days (6)	5.59	0.005	0.105	250	10.54	0.95
C4	China Cement Plant	without the Project (2a)	5.61	0.005	0.103	1459	10.40	0.93
		with the Project (2b)	5.63	0.005	0.103	146	10.35	0.93
		Sensitivity Test - Higher Treatment Level (2c)	5.71	0.005	0.097	145	10.31	0.91
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.62	0.005	0.103	1414	10.35	0.93
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.62	0.005	0.103	6662	10.35	0.93
		Treated Effluent at Emergency Bypass for 12 days (6)	5.61	0.006	0.109	351	10.35	0.93
C5	Shui Wing Steel Mill	without the Project (2a)	5.62	0.005	0.103	1449	10.40	0.93
		with the Project (2b)	5.63	0.005	0.103	141	10.35	0.93
		Sensitivity Test - Higher Treatment Level (2c)	5.72	0.005	0.097	140	10.31	0.92
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.63	0.005	0.103	1478	10.35	0.93
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.63	0.005	0.103	8459	10.35	0.93
		Treated Effluent at Emergency Bypass for 12 days (6)	5.62	0.006	0.112	378	10.35	0.93
C6	Tuen Mun	without the Project (2a)	5.72	0.004	0.071	1992	7.82	0.71
		with the Project (2b)	5.73	0.004	0.071	1830	7.76	0.70
		Sensitivity Test - Higher Treatment Level (2c)	5.80	0.003	0.065	1826	7.71	0.68
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.72	0.004	0.071	1886	7.76	0.70
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.72	0.004	0.071	2127	7.76	0.70
		Treated Effluent at Emergency Bypass for 12 days (6)	5.71	0.004	0.079	1844	7.76	0.70
C7	Airport 1	without the Project (2a)	5.77	0.004	0.078	102	8.93	0.79
		with the Project (2b)	5.78	0.004	0.078	30	8.89	0.79
		Sensitivity Test - Higher Treatment Level (2c)	5.85	0.004	0.072	29	8.85	0.78
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.78	0.004	0.078	44	8.90	0.79
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.78	0.004	0.077	30	8.89	0.79
		Treated Effluent at Emergency Bypass for 12 days (6)	5.79	0.004	0.077	30	8.89	0.79
C8	Airport 2	without the Project (2a)	6.13	0.003	0.058	48	8.34	0.94
		with the Project (2b)	6.15	0.003	0.058	46	8.30	0.94
		Sensitivity Test - Higher Treatment Level (2c)	6.22	0.003	0.056	46	8.27	0.94
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.14	0.003	0.058	46	8.30	0.94
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.14	0.003	0.058	46	8.30	0.94
		Treated Effluent at Emergency Bypass for 12 days (6)	6.15	0.003	0.058	46	8.30	0.94
C9	Airport 3	without the Project (2a)	6.96	0.003	0.053	634	9.01	1.29
		with the Project (2b)	6.97	0.003	0.053	634	8.97	1.29
		Sensitivity Test - Higher Treatment Level (2c)	7.04	0.003	0.053	633	8.93	1.28
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.97	0.003	0.053	634	8.97	1.29
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.97	0.003	0.053	634	8.97	1.29
		Treated Effluent at Emergency Bypass for 12 days (6)	6.98	0.003	0.053	634	9.02	1.30
C10	Airport 4	without the Project (2a)	6.68	0.003	0.053	423	9.11	1.28
		with the Project (2b)	6.69	0.003	0.053	422	9.08	1.28
		Sensitivity Test - Higher Treatment Level (2c)	6.74	0.003	0.053	422	9.04	1.27
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.69	0.003	0.053	422	9.08	1.28
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.69	0.003	0.053	422	9.08	1.28
		Treated Effluent at Emergency Bypass for 12 days (6)	6.69	0.003	0.053	422	9.12	1.30
C11	Tsuen Wan	without the Project (2a)	5.69	0.003	0.059	2077	5.66	0.51
		with the Project (2b)	5.70	0.003	0.059	2077	5.64	0.51
		Sensitivity Test - Higher Treatment Level (2c)	5.73	0.003	0.059	2077	5.62	0.51
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.70	0.003	0.059	2077	5.64	0.51
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.70	0.003	0.059	2077	5.64	0.51
		Treated Effluent at Emergency Bypass for 12 days (6)	5.68	0.003	0.060	2077	5.64	0.51

ID	Indicator Point	Scenario	Mid-depth					
			Min DO	Max UIA	Max NH3-N	Max <i>E.coli</i>	Max SS	Max BOD5
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
C12	MTRC Tsing Yi Station	without the Project (2a)	5.69	0.004	0.069	6949	5.71	0.61
		with the Project (2b)	5.70	0.004	0.069	6948	5.69	0.61
		Sensitivity Test - Higher Treatment Level (2c)	5.73	0.004	0.068	6948	5.67	0.61
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.70	0.004	0.069	6948	5.69	0.61
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.69	0.004	0.069	6948	5.69	0.61
		Treated Effluent at Emergency Bypass for 12 days (6)	5.68	0.004	0.069	6948	5.69	0.61
C13	Tsing Yi Power Station	without the Project (2a)	5.77	0.004	0.080	237	5.45	0.65
		with the Project (2b)	5.77	0.004	0.080	230	5.43	0.65
		Sensitivity Test - Higher Treatment Level (2c)	5.79	0.004	0.080	230	5.42	0.65
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.77	0.004	0.080	230	5.43	0.65
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.77	0.004	0.080	230	5.43	0.65
		Treated Effluent at Emergency Bypass for 12 days (6)	5.75	0.004	0.080	230	5.43	0.65

Remarks:

N/A: Not Available

Results at Indicator Points - Normal Operation - UDS (Dry Season)

Note: Shaded and bolded - value exceeded the WQO

(II) Fish Culture Zones

ID	Indicator Point	Scenario	Surface Mean			90 percentile Bottom DO (mg/L)	90 percentile DA DO (mg/L)	DA Ecoli (no./100ml)	DA UIA (mg/L)	DA TIN (mg/L)
			DO	SS	NH4					
			(mg/L)	(mg/L)	(mg/L)					
Fish Culture Zones			Assessment Criteria for Local Marine Biota and Fisheries Resources			WQO (for Western Buffer WCZ)				
WQO (for Western Buffer WCZ)			≥5	N/A	≤0.7	≥2	≥5	≤610	≤0.021	≤0.4
F1	Ma Wan North	without the Project (2a)	5.97	5.58	0.06	5.35	5.35	37	0.003	0.49
		with the Project (2b)	5.98	5.56	0.06	5.35	5.36	17	0.003	0.49
		Sensitivity Test - Higher Treatment Level (2c)	6.02	5.54	0.05	5.37	5.38	16	0.003	0.49
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.98	5.56	0.06	5.35	5.36	17	0.003	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.98	5.56	0.06	5.35	5.36	17	0.003	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	5.97	5.55	0.06	5.35	5.35	17	0.003	0.49
F2	Ma Wan North	without the Project (2a)	5.99	5.43	0.05	5.38	5.38	22	0.003	0.47
		with the Project (2b)	5.99	5.41	0.05	5.38	5.38	10	0.003	0.47
		Sensitivity Test - Higher Treatment Level (2c)	6.03	5.40	0.05	5.41	5.42	10	0.003	0.47
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.99	5.41	0.05	5.38	5.38	10	0.003	0.47
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.99	5.41	0.05	5.38	5.38	10	0.003	0.47
		Treated Effluent at Emergency Bypass for 12 days (6)	5.99	5.40	0.05	5.37	5.38	10	0.003	0.48

DA = Depth Average

N/A = Not Available

(III) Others

ID	Indicator Point	Scenario	90 percentile DA DO (mg/L)	Mean Depth-averaged Results					90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)	
				DO	UIA	TIN	E.coli	SS			BOD5
				(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)			(mg/L)
Artificial Reefs			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
AR1	Airport	without the Project (2a)	5.46	6.07	0.003	0.55	46	7.77	0.70	5.42	5.64
		with the Project (2b)	5.48	6.08	0.003	0.55	17	7.73	0.70	5.44	5.60
		Sensitivity Test - Higher Treatment Level (2c)	5.70	6.14	0.003	0.54	16	7.69	0.69	5.55	5.56
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.48	6.08	0.003	0.55	18	7.73	0.70	5.44	5.60
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.48	6.08	0.003	0.55	17	7.73	0.70	5.44	5.60
		Treated Effluent at Emergency Bypass for 12 days (6)	5.50	6.08	0.003	0.55	17	7.72	0.69	5.45	5.60
AR2	Sha Chau and Lung Kwu Chau	without the Project (2a)	5.37	5.98	0.004	0.58	71	9.07	0.78	5.36	6.54
		with the Project (2b)	5.38	5.99	0.004	0.58	16	9.03	0.78	5.37	6.49
		Sensitivity Test - Higher Treatment Level (2c)	5.43	6.06	0.004	0.57	15	8.99	0.76	5.39	6.45
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.38	5.99	0.004	0.58	17	9.03	0.78	5.37	6.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.38	5.99	0.004	0.58	17	9.03	0.78	5.37	6.49
		Treated Effluent at Emergency Bypass for 12 days (6)	5.38	5.99	0.004	0.58	16	9.02	0.77	5.37	6.49
Gazetted Beaches			≥4	N/A	≤0.021	≤0.5	≤180	N/A	N/A	≥2	N/A
B1	Butterfly	without the Project (2a)	5.34	5.91	0.003	0.53	563	6.62	0.55	5.33	3.60
		with the Project (2b)	5.34	5.93	0.003	0.53	228	6.58	0.55	5.33	3.57
		Sensitivity Test - Higher Treatment Level (2c)	5.39	6.00	0.003	0.52	214	6.54	0.53	5.35	3.54
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.93	0.003	0.53	240	6.58	0.55	5.33	3.57
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.93	0.003	0.53	243	6.58	0.55	5.33	3.57
		Treated Effluent at Emergency Bypass for 12 days (6)	5.34	5.91	0.003	0.54	239	6.58	0.55	5.33	3.58

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
B2	Castle Peak	without the Project (2a)	6.38	7.10	0.003	0.45	73	9.01	1.16	6.21	0.00
		with the Project (2b)	6.40	7.11	0.003	0.45	70	8.96	1.16	6.22	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.64	7.17	0.003	0.43	70	8.91	1.15	6.29	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.40	7.11	0.003	0.45	70	8.96	1.16	6.22	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.39	7.11	0.003	0.45	71	8.96	1.16	6.22	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	6.49	7.13	0.003	0.45	70	8.99	1.17	6.24	0.00
B3	Kadoorie	without the Project (2a)	6.10	6.61	0.003	0.49	334	7.54	0.82	5.69	0.07
		with the Project (2b)	6.10	6.62	0.003	0.49	314	7.50	0.82	5.69	0.07
		Sensitivity Test - Higher Treatment Level (2c)	6.12	6.69	0.003	0.48	313	7.46	0.81	5.81	0.07
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.10	6.62	0.003	0.49	315	7.51	0.82	5.69	0.07
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.10	6.62	0.003	0.49	316	7.51	0.82	5.69	0.07
		Treated Effluent at Emergency Bypass for 12 days (6)	6.10	6.62	0.003	0.49	313	7.51	0.82	5.71	0.07
B4	Cafeteria Old	without the Project (2a)	5.99	6.13	0.003	0.52	878	7.02	0.66	5.37	0.00
		with the Project (2b)	6.01	6.14	0.003	0.52	837	6.98	0.66	5.37	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.07	6.21	0.003	0.51	835	6.94	0.65	5.43	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.01	6.14	0.003	0.52	839	6.98	0.66	5.37	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.01	6.14	0.003	0.52	841	6.98	0.66	5.37	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	6.00	6.13	0.003	0.52	834	6.97	0.66	5.37	0.00
B5	Cafeteria New	without the Project (2a)	5.99	6.13	0.003	0.52	878	7.02	0.66	5.37	0.00
		with the Project (2b)	6.01	6.14	0.003	0.52	837	6.98	0.66	5.37	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.07	6.21	0.003	0.51	835	6.94	0.65	5.43	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.01	6.14	0.003	0.52	839	6.98	0.66	5.37	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.01	6.14	0.003	0.52	841	6.98	0.66	5.37	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	6.00	6.13	0.003	0.52	834	6.97	0.66	5.37	0.00
B6	Golden Beach	without the Project (2a)	5.50	6.05	0.003	0.53	1749	6.79	0.65	5.37	0.00
		with the Project (2b)	5.53	6.06	0.003	0.52	1689	6.75	0.64	5.38	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.04	6.13	0.003	0.51	1687	6.71	0.63	5.54	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.53	6.06	0.003	0.53	1692	6.75	0.65	5.38	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.53	6.06	0.003	0.53	1696	6.75	0.65	5.38	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.49	6.05	0.003	0.53	1683	6.75	0.65	5.38	0.00
B7	Anglers'	without the Project (2a)	5.33	5.90	0.003	0.50	140	5.38	0.40	5.33	4.41
		with the Project (2b)	5.33	5.91	0.003	0.50	114	5.36	0.40	5.33	4.39
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	113	5.35	0.40	5.34	4.36
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.91	0.003	0.50	114	5.36	0.40	5.33	4.39
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.91	0.003	0.50	115	5.37	0.40	5.33	4.39
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	114	5.35	0.40	5.33	4.39
WQO (for Western Buffer WCZ)			≥4	N/A	≤0.021	≤0.4	≤180	N/A	N/A	≥2	N/A
B8	Gemini	without the Project (2a)	5.33	5.90	0.003	0.50	84	5.35	0.40	5.33	4.43
		with the Project (2b)	5.33	5.91	0.003	0.50	63	5.34	0.40	5.33	4.40
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	63	5.32	0.40	5.34	4.38
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.91	0.003	0.50	64	5.34	0.40	5.33	4.40
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.91	0.003	0.50	64	5.34	0.40	5.33	4.40
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	63	5.32	0.39	5.33	4.40
B9	Hoi Mei Wan	without the Project (2a)	5.33	5.90	0.003	0.50	60	5.33	0.40	5.33	3.80
		with the Project (2b)	5.33	5.91	0.003	0.50	42	5.31	0.40	5.33	3.79
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	42	5.29	0.40	5.34	3.77
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.91	0.003	0.50	43	5.31	0.40	5.33	3.79
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.91	0.003	0.50	43	5.31	0.40	5.33	3.79
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	42	5.30	0.39	5.33	3.79
B10	Casam	without the Project (2a)	5.33	5.90	0.003	0.50	123	5.31	0.40	5.33	4.66
		with the Project (2b)	5.34	5.91	0.003	0.50	106	5.29	0.40	5.33	4.63
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.95	0.003	0.49	105	5.27	0.39	5.34	4.60
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.91	0.003	0.50	106	5.29	0.40	5.33	4.63
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.91	0.003	0.50	106	5.29	0.40	5.33	4.63
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	106	5.27	0.39	5.33	4.63

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile DA DO (mg/L)	DO (mg/L)	UIA (mg/L)	TIN (mg/L)	E.coli (no./100mL)	SS (mg/L)	BOD5 (mg/L)		
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
B11	Lido	without the Project (2a)	5.33	5.90	0.003	0.49	196	5.31	0.40	5.33	4.50
		with the Project (2b)	5.33	5.90	0.003	0.49	177	5.29	0.40	5.33	4.48
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	177	5.28	0.40	5.33	4.45
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.90	0.003	0.49	177	5.29	0.40	5.33	4.48
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.90	0.003	0.49	178	5.29	0.40	5.33	4.48
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	177	5.28	0.40	5.33	4.48
B12	Ting Kau	without the Project (2a)	5.33	5.90	0.003	0.49	196	5.31	0.40	5.33	4.50
		with the Project (2b)	5.33	5.90	0.003	0.49	177	5.29	0.40	5.33	4.48
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	177	5.28	0.40	5.33	4.45
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.90	0.003	0.49	177	5.29	0.40	5.33	4.48
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.90	0.003	0.49	178	5.29	0.40	5.33	4.48
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	177	5.28	0.40	5.33	4.48
B13	Approach	without the Project (2a)	5.33	5.90	0.003	0.49	326	5.31	0.41	5.33	4.40
		with the Project (2b)	5.33	5.90	0.003	0.49	297	5.29	0.41	5.33	4.38
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	296	5.27	0.41	5.33	4.36
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.90	0.003	0.49	297	5.29	0.41	5.33	4.38
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.90	0.003	0.49	298	5.29	0.41	5.33	4.38
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.89	0.003	0.49	296	5.27	0.41	5.33	4.38
B14	Tung Wan, Ma Wan	without the Project (2a)	7.02	7.58	0.002	0.39	2	6.70	0.95	6.90	0.00
		with the Project (2b)	7.03	7.59	0.002	0.39	1	6.68	0.95	6.90	0.00
		Sensitivity Test - Higher Treatment Level (2c)	7.13	7.61	0.002	0.38	1	6.67	0.94	6.92	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	7.03	7.59	0.002	0.39	1	6.68	0.95	6.90	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	7.03	7.59	0.002	0.39	1	6.68	0.95	6.90	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	7.10	7.62	0.002	0.39	1	6.70	0.95	6.92	0.00
Non - Gazetted Beaches											
WQO (for North Western WCZ)											
			≥4	N/A	≤0.021	≤0.5	≤180	N/A	N/A	≥2	N/A
U1	Lung Kwu Upper	without the Project (2a)	5.49	6.10	0.003	0.61	132	10.06	0.92	5.35	0.00
		with the Project (2b)	5.50	6.11	0.003	0.61	77	10.01	0.92	5.35	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.60	6.19	0.003	0.60	75	9.95	0.90	5.38	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.50	6.11	0.003	0.61	77	10.01	0.92	5.35	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.50	6.11	0.003	0.61	77	10.01	0.92	5.35	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.50	6.10	0.003	0.62	77	10.01	0.92	5.35	0.00
U2	Lung Kwu Lower	without the Project (2a)	5.34	5.89	0.004	0.64	2448	9.40	0.89	5.33	0.00
		with the Project (2b)	5.34	5.91	0.004	0.64	2258	9.34	0.89	5.33	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.37	5.98	0.004	0.62	2253	9.29	0.87	5.34	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.90	0.004	0.64	2261	9.34	0.89	5.33	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.90	0.004	0.64	2264	9.34	0.89	5.33	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.34	5.90	0.005	0.64	2254	9.34	0.89	5.33	0.00
Marine Parks											
WQO (for North Western WCZ)											
			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
MP1	Indicator Point 1 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	5.36	5.94	0.004	0.59	88	8.89	0.76	5.35	6.77
		with the Project (2b)	5.36	5.96	0.004	0.59	20	8.85	0.76	5.35	6.71
		Sensitivity Test - Higher Treatment Level (2c)	5.39	6.02	0.004	0.58	18	8.81	0.75	5.38	6.66
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.36	5.95	0.004	0.59	21	8.85	0.76	5.35	6.72
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.36	5.95	0.004	0.59	20	8.85	0.76	5.35	6.72
		Treated Effluent at Emergency Bypass for 12 days (6)	5.36	5.95	0.004	0.59	19	8.84	0.76	5.35	6.71
MP2	Indicator Point 2 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	5.33	5.80	0.005	0.65	549	9.33	0.83	5.33	8.50
		with the Project (2b)	5.33	5.81	0.005	0.65	73	9.28	0.83	5.33	8.45
		Sensitivity Test - Higher Treatment Level (2c)	5.33	5.88	0.005	0.64	54	9.23	0.80	5.33	8.41
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.81	0.005	0.65	78	9.28	0.83	5.33	8.45
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.81	0.005	0.65	75	9.28	0.83	5.33	8.45
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.80	0.005	0.65	66	9.27	0.82	5.33	8.45

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
MP3	Indicator Point 3 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	5.34	5.90	0.005	0.65	193	10.04	0.88	5.34	6.44
		with the Project (2b)	5.34	5.91	0.005	0.65	39	10.00	0.87	5.34	6.40
		Sensitivity Test - Higher Treatment Level (2c)	5.36	5.97	0.005	0.64	33	9.95	0.86	5.35	6.37
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.91	0.005	0.65	41	10.00	0.87	5.34	6.41
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.91	0.005	0.65	40	10.00	0.87	5.34	6.41
		Treated Effluent at Emergency Bypass for 12 days (6)	5.34	5.91	0.005	0.65	37	9.98	0.87	5.33	6.40
MP4	Indicator Point 4 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	5.54	6.14	0.003	0.52	28	8.75	0.75	5.50	3.77
		with the Project (2b)	5.56	6.15	0.003	0.52	7	8.72	0.75	5.51	3.76
		Sensitivity Test - Higher Treatment Level (2c)	5.88	6.20	0.003	0.52	7	8.69	0.74	5.66	3.74
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.56	6.15	0.003	0.52	8	8.72	0.75	5.51	3.76
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.56	6.15	0.003	0.52	7	8.72	0.75	5.51	3.76
		Treated Effluent at Emergency Bypass for 12 days (6)	5.57	6.15	0.003	0.53	7	8.71	0.75	5.52	3.75
Seagrass Beds											
WQO (for Deep Bay WCZ - Inner Subzone)			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
SG8	Mai Po	without the Project (2a)	2.01	3.14	0.092	3.03	3678	44.10	7.81	1.96	0.00
		with the Project (2b)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Sensitivity Test - Higher Treatment Level (2c)	2.02	3.15	0.091	3.02	3676	44.02	7.81	1.97	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	2.03	3.16	0.091	3.03	3656	44.09	7.82	1.98	0.00
SG2	Sha Kong Tsuen	without the Project (2a)	5.33	5.78	0.020	1.30	285	21.48	2.76	5.33	0.00
		with the Project (2b)	5.33	5.79	0.020	1.30	285	21.44	2.76	5.33	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.33	5.81	0.020	1.29	285	21.40	2.76	5.33	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.79	0.020	1.30	285	21.44	2.76	5.33	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.79	0.020	1.30	285	21.44	2.76	5.33	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.79	0.020	1.30	283	21.45	2.77	5.33	0.00
SG3	Ngau Hom Shek	without the Project (2a)	5.36	5.94	0.018	1.22	342	20.32	2.55	5.35	0.00
		with the Project (2b)	5.36	5.94	0.018	1.22	341	20.28	2.55	5.35	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.38	5.97	0.017	1.21	341	20.24	2.55	5.36	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.36	5.94	0.018	1.22	341	20.28	2.55	5.35	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.36	5.94	0.018	1.22	341	20.28	2.55	5.35	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.37	5.95	0.018	1.22	339	20.30	2.55	5.35	0.00
SG4	Ngau Hom Shek	without the Project (2a)	5.44	6.06	0.018	1.22	22815	20.33	3.03	5.41	0.00
		with the Project (2b)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.47	6.09	0.018	1.21	22809	20.25	3.03	5.43	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.45	6.08	0.018	1.22	22767	20.30	3.03	5.42	0.00
SG1	Sheung Pak Nai	without the Project (2a)	5.59	6.09	0.009	0.85	13357	14.14	1.76	5.40	0.00
		with the Project (2b)	5.63	6.10	0.009	0.85	13343	14.10	1.76	5.42	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.00	6.14	0.009	0.84	13341	14.06	1.76	5.53	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.70	6.10	0.009	0.85	13314	14.11	1.76	5.43	0.00
SG9	Ha Pak Nai	without the Project (2a)	5.59	6.09	0.009	0.85	13357	14.14	1.76	5.40	0.00
		with the Project (2b)	5.63	6.10	0.009	0.85	13343	14.10	1.76	5.42	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.00	6.14	0.009	0.84	13341	14.06	1.76	5.53	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.70	6.10	0.009	0.85	13314	14.11	1.76	5.43	0.00

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
SG6	Yam O	without the Project (2a)	6.18	6.83	0.003	0.47	11	7.10	0.80	6.18	0.00
		with the Project (2b)	6.19	6.84	0.003	0.47	4	7.07	0.80	6.18	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.24	6.89	0.003	0.46	4	7.04	0.79	6.23	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.19	6.84	0.003	0.47	4	7.07	0.80	6.18	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.19	6.84	0.003	0.47	4	7.07	0.80	6.18	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	6.21	6.86	0.003	0.47	4	7.08	0.80	6.20	0.00
SG7	Tai Ho Wan	without the Project (2a)	5.65	6.17	0.003	0.54	26	7.65	0.72	5.45	0.26
		with the Project (2b)	5.67	6.18	0.003	0.54	17	7.62	0.72	5.46	0.26
		Sensitivity Test - Higher Treatment Level (2c)	6.01	6.25	0.003	0.53	17	7.58	0.72	5.52	0.26
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.67	6.18	0.003	0.54	18	7.62	0.72	5.46	0.26
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.67	6.18	0.003	0.54	18	7.62	0.72	5.46	0.26
		Treated Effluent at Emergency Bypass for 12 days (6)	5.72	6.19	0.003	0.54	17	7.61	0.72	5.47	0.26
SG5	San Tau	without the Project (2a)	6.83	7.12	0.003	0.50	872	8.46	1.20	6.83	3.76
		with the Project (2b)	6.83	7.12	0.003	0.50	872	8.42	1.20	6.83	3.74
		Sensitivity Test - Higher Treatment Level (2c)	6.83	7.17	0.003	0.49	871	8.39	1.20	6.83	3.72
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.83	7.12	0.003	0.50	872	8.42	1.20	6.83	3.74
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.83	7.12	0.003	0.50	872	8.42	1.20	6.83	3.74
		Treated Effluent at Emergency Bypass for 12 days (6)	6.83	7.16	0.003	0.50	869	8.45	1.21	6.83	3.74
Chinese White Dolphins			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
CWD1	near North of Lung Kwu Chau	without the Project (2a)	5.33	5.81	0.005	0.66	433	9.70	0.86	5.33	7.95
		with the Project (2b)	5.33	5.82	0.005	0.66	69	9.65	0.86	5.33	7.92
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.89	0.005	0.65	53	9.60	0.83	5.33	7.88
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.82	0.005	0.66	73	9.65	0.86	5.33	7.92
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.82	0.005	0.66	71	9.65	0.86	5.33	7.92
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.82	0.005	0.66	63	9.64	0.85	5.33	7.92
CWD2	North of Airport	without the Project (2a)	5.42	6.03	0.003	0.57	47	8.40	0.72	5.38	5.17
		with the Project (2b)	5.43	6.05	0.003	0.57	10	8.36	0.72	5.38	5.13
		Sensitivity Test - Higher Treatment Level (2c)	5.63	6.11	0.003	0.56	9	8.32	0.71	5.44	5.10
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.43	6.05	0.003	0.57	11	8.36	0.72	5.38	5.13
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.43	6.05	0.003	0.57	11	8.36	0.72	5.38	5.13
		Treated Effluent at Emergency Bypass for 12 days (6)	5.43	6.05	0.003	0.57	10	8.35	0.72	5.38	5.13
CWD3	near The Brothers	without the Project (2a)	5.34	5.90	0.003	0.55	125	7.19	0.60	5.34	5.81
		with the Project (2b)	5.34	5.91	0.003	0.55	17	7.15	0.60	5.34	5.76
		Sensitivity Test - Higher Treatment Level (2c)	5.36	5.97	0.003	0.54	14	7.11	0.59	5.35	5.72
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.91	0.003	0.55	18	7.15	0.60	5.34	5.77
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.91	0.003	0.55	18	7.15	0.60	5.34	5.77
		Treated Effluent at Emergency Bypass for 12 days (6)	5.34	5.90	0.003	0.55	16	7.13	0.59	5.33	5.76
CWD4	between Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	5.36	5.95	0.004	0.60	94	9.27	0.79	5.35	7.15
		with the Project (2b)	5.36	5.96	0.004	0.60	21	9.23	0.79	5.36	7.11
		Sensitivity Test - Higher Treatment Level (2c)	5.39	6.02	0.004	0.59	19	9.18	0.78	5.38	7.06
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.36	5.96	0.004	0.60	22	9.23	0.79	5.35	7.11
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.36	5.96	0.004	0.60	21	9.23	0.79	5.35	7.11
		Treated Effluent at Emergency Bypass for 12 days (6)	5.36	5.96	0.004	0.60	20	9.21	0.79	5.35	7.10
Site of Special Scientific Interests			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
WQO (for Deep Bay WCZ - Inner Subzone)			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
S1	Tsim Bei Tsui SSSI	without the Project (2a)	4.57	4.83	0.054	2.19	6621	34.06	5.50	4.56	0.00
		with the Project (2b)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.57	4.85	0.054	2.18	6618	33.98	5.50	4.57	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.57	4.84	0.054	2.19	6585	34.04	5.51	4.56	0.00

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
S2	Pak Nai SSSI	without the Project (2a)	5.38	6.00	0.010	0.91	1207	15.43	1.72	5.36	0.00
		with the Project (2b)	5.39	6.00	0.010	0.91	1199	15.39	1.72	5.36	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.47	6.04	0.009	0.90	1199	15.36	1.72	5.37	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.39	6.00	0.010	0.91	1199	15.39	1.72	5.36	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.39	6.00	0.010	0.91	1199	15.40	1.72	5.36	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.40	6.01	0.009	0.91	1195	15.40	1.72	5.36	0.00
S3	Inner Deep Bay	without the Project (2a)	3.75	4.58	0.052	2.08	4181	32.33	5.23	3.72	0.00
		with the Project (2b)	3.75	4.58	0.052	2.08	4180	32.29	5.23	3.72	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.76	4.60	0.052	2.07	4179	32.25	5.23	3.74	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.75	4.58	0.052	2.08	4180	32.29	5.23	3.72	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.75	4.58	0.052	2.08	4180	32.29	5.23	3.72	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	4.59	0.052	2.08	4159	32.31	5.23	3.75	0.00
S4	Mai Po	without the Project (2a)	2.01	3.14	0.092	3.03	3678	44.10	7.81	1.96	0.00
		with the Project (2b)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Sensitivity Test - Higher Treatment Level (2c)	2.02	3.15	0.091	3.02	3676	44.02	7.81	1.97	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	2.01	3.14	0.092	3.03	3677	44.06	7.81	1.96	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	2.03	3.16	0.091	3.03	3656	44.09	7.82	1.98	0.00
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
S5	Lung Kwu Chau, Tree Island and Sha Chau	without the Project (2a)	5.36	5.95	0.004	0.60	94	9.27	0.79	5.35	7.15
		with the Project (2b)	5.36	5.96	0.004	0.60	21	9.23	0.79	5.36	7.11
		Sensitivity Test - Higher Treatment Level (2c)	5.39	6.02	0.004	0.59	19	9.18	0.78	5.38	7.06
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.36	5.96	0.004	0.60	22	9.23	0.79	5.35	7.11
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.36	5.96	0.004	0.60	21	9.23	0.79	5.35	7.11
		Treated Effluent at Emergency Bypass for 12 days (6)	5.36	5.96	0.004	0.60	20	9.21	0.79	5.35	7.10
Corals			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	≤100
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	≤100
CR1	Near Sha Chau	without the Project (2a)	5.42	6.05	0.004	0.56	48	8.89	0.76	5.39	4.50
		with the Project (2b)	5.43	6.06	0.004	0.56	12	8.86	0.76	5.40	4.47
		Sensitivity Test - Higher Treatment Level (2c)	5.52	6.12	0.004	0.55	11	8.82	0.75	5.46	4.44
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.43	6.06	0.004	0.56	12	8.86	0.76	5.40	4.47
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.43	6.06	0.004	0.56	12	8.86	0.76	5.40	4.47
		Treated Effluent at Emergency Bypass for 12 days (6)	5.44	6.06	0.004	0.56	12	8.85	0.76	5.41	4.47
WQO (for Western Buffer WCZ)			≥4	N/A	≤0.021	≤0.4	N/A	N/A	N/A	≥2	≤100
CR2	Tsing Lung Tau	without the Project (2a)	5.33	5.90	0.003	0.50	55	5.43	0.41	5.33	4.91
		with the Project (2b)	5.33	5.90	0.003	0.50	33	5.41	0.41	5.33	4.87
		Sensitivity Test - Higher Treatment Level (2c)	5.35	5.94	0.003	0.49	32	5.39	0.40	5.34	4.84
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.90	0.003	0.50	33	5.41	0.41	5.33	4.87
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.90	0.003	0.50	33	5.41	0.41	5.33	4.87
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	33	5.40	0.40	5.33	4.87
CR3	Sham Tseng West	without the Project (2a)	5.34	5.91	0.003	0.50	48	5.41	0.41	5.33	4.74
		with the Project (2b)	5.34	5.91	0.003	0.50	28	5.39	0.41	5.33	4.71
		Sensitivity Test - Higher Treatment Level (2c)	5.35	5.95	0.003	0.49	28	5.37	0.40	5.34	4.67
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.91	0.003	0.50	29	5.39	0.41	5.33	4.71
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.91	0.003	0.50	29	5.39	0.41	5.33	4.71
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	28	5.38	0.40	5.33	4.71
CR4	Sham Tseng East	without the Project (2a)	5.33	5.90	0.003	0.50	140	5.38	0.40	5.33	4.41
		with the Project (2b)	5.33	5.91	0.003	0.50	114	5.36	0.40	5.33	4.39
		Sensitivity Test - Higher Treatment Level (2c)	5.34	5.94	0.003	0.49	113	5.35	0.40	5.34	4.36
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.33	5.91	0.003	0.50	114	5.36	0.40	5.33	4.39
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.33	5.91	0.003	0.50	115	5.37	0.40	5.33	4.39
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.90	0.003	0.50	114	5.35	0.40	5.33	4.39

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
CR5	Ap Lei Chau	without the Project (2a)	6.08	6.21	0.002	0.22	52	4.09	0.16	6.08	3.51
		with the Project (2b)	6.08	6.21	0.002	0.22	52	4.09	0.16	6.08	3.50
		Sensitivity Test - Higher Treatment Level (2c)	6.08	6.21	0.002	0.22	52	4.09	0.16	6.08	3.50
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.08	6.21	0.002	0.22	52	4.09	0.16	6.08	3.50
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.08	6.21	0.002	0.22	52	4.09	0.16	6.08	3.50
		Treated Effluent at Emergency Bypass for 12 days (6)	6.08	6.20	0.002	0.22	52	4.08	0.16	6.08	3.50
CR6	Sandy bay	without the Project (2a)	6.04	6.10	0.002	0.32	57	4.36	0.24	6.01	3.78
		with the Project (2b)	6.04	6.10	0.002	0.32	57	4.36	0.24	6.02	3.77
		Sensitivity Test - Higher Treatment Level (2c)	6.06	6.11	0.002	0.32	57	4.35	0.24	6.05	3.76
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.04	6.10	0.002	0.32	57	4.36	0.24	6.02	3.77
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.04	6.10	0.002	0.32	57	4.36	0.24	6.02	3.77
		Treated Effluent at Emergency Bypass for 12 days (6)	6.01	6.10	0.002	0.32	57	4.35	0.23	5.88	3.77
Horsehoe Crab											
WQO (for Deep Bay WCZ - Inner Subzone)			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
HC1	near Sheung Pak Nai	without the Project (2a)	5.39	5.98	0.011	0.98	1332	16.57	1.91	5.35	0.00
		with the Project (2b)	5.39	5.98	0.011	0.98	1327	16.53	1.91	5.35	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.43	6.02	0.011	0.97	1327	16.49	1.91	5.38	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.39	5.98	0.011	0.98	1327	16.53	1.91	5.35	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.39	5.98	0.011	0.98	1327	16.53	1.91	5.35	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.40	5.99	0.011	0.98	1323	16.54	1.91	5.36	0.00
HC2	Ha Pak Nai	without the Project (2a)	5.59	6.09	0.009	0.85	13357	14.14	1.76	5.40	0.00
		with the Project (2b)	5.63	6.10	0.009	0.85	13343	14.10	1.76	5.42	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.00	6.14	0.009	0.84	13341	14.06	1.76	5.53	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.70	6.10	0.009	0.85	13314	14.11	1.76	5.43	0.00
HC3	Ha Pak Nai	without the Project (2a)	5.59	6.09	0.009	0.85	13357	14.14	1.76	5.40	0.00
		with the Project (2b)	5.63	6.10	0.009	0.85	13343	14.10	1.76	5.42	0.00
		Sensitivity Test - Higher Treatment Level (2c)	6.00	6.14	0.009	0.84	13341	14.06	1.76	5.53	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.63	6.09	0.009	0.85	13344	14.10	1.76	5.42	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.70	6.10	0.009	0.85	13314	14.11	1.76	5.43	0.00
WQO (for Deep Bay WCZ - Outer Subzone)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
HC4	Nim Wan	without the Project (2a)	5.34	5.89	0.007	0.79	4179	12.91	1.36	5.33	0.00
		with the Project (2b)	5.34	5.90	0.007	0.79	4145	12.87	1.36	5.33	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.36	5.96	0.007	0.78	4143	12.84	1.35	5.34	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.90	0.007	0.79	4145	12.88	1.36	5.33	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.90	0.007	0.79	4145	12.88	1.36	5.33	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.34	5.90	0.007	0.79	4136	12.88	1.36	5.33	0.00
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
HC5	Lung Kwu Tan	without the Project (2a)	5.33	5.88	0.004	0.64	287	9.27	0.81	5.33	0.00
		with the Project (2b)	5.34	5.89	0.004	0.64	121	9.22	0.81	5.33	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.35	5.96	0.004	0.62	117	9.17	0.78	5.33	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	5.89	0.004	0.64	124	9.22	0.81	5.33	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	5.89	0.004	0.64	125	9.22	0.81	5.33	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.33	5.88	0.004	0.64	123	9.22	0.81	5.33	0.00
HC6	San Tau	without the Project (2a)	6.83	7.14	0.003	0.49	605	8.51	1.18	6.83	0.09
		with the Project (2b)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Sensitivity Test - Higher Treatment Level (2c)	6.83	7.19	0.003	0.48	604	8.44	1.18	6.83	0.09
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Treated Effluent at Emergency Bypass for 12 days (6)	6.83	7.18	0.003	0.49	603	8.49	1.19	6.83	0.09

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile	DO	UIA	TIN	E.coli	SS	BOD5		
			DA DO (mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
HC7	Sha Lo Wan	without the Project (2a)	6.08	6.27	0.003	0.46	9	8.26	0.73	5.83	6.57
		with the Project (2b)	6.08	6.28	0.003	0.46	5	8.23	0.73	5.90	6.54
		Sensitivity Test - Higher Treatment Level (2c)	6.08	6.33	0.003	0.46	5	8.20	0.73	6.03	6.51
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.08	6.28	0.003	0.46	5	8.23	0.73	5.89	6.54
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.08	6.28	0.003	0.46	5	8.23	0.73	5.89	6.54
		Treated Effluent at Emergency Bypass for 12 days (6)	6.08	6.29	0.003	0.47	5	8.22	0.73	5.99	6.54
HC8	Sai Tso Wan	without the Project (2a)	6.08	6.30	0.003	0.44	12	8.05	0.70	6.01	5.97
		with the Project (2b)	6.08	6.31	0.003	0.44	7	8.03	0.70	6.02	5.94
		Sensitivity Test - Higher Treatment Level (2c)	6.08	6.35	0.003	0.43	6	8.00	0.70	6.07	5.91
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.08	6.31	0.003	0.44	7	8.03	0.70	6.02	5.94
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.08	6.31	0.003	0.44	7	8.03	0.70	6.02	5.94
		Treated Effluent at Emergency Bypass for 12 days (6)	6.08	6.31	0.003	0.44	6	8.02	0.70	6.04	5.94
HC9	Nga Ying Kok	without the Project (2a)	6.11	6.67	0.003	0.33	5	7.22	0.72	6.10	4.76
		with the Project (2b)	6.11	6.67	0.003	0.33	4	7.21	0.72	6.10	4.76
		Sensitivity Test - Higher Treatment Level (2c)	6.12	6.69	0.003	0.32	4	7.20	0.72	6.11	4.75
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.11	6.67	0.003	0.33	4	7.21	0.72	6.10	4.76
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.11	6.67	0.003	0.33	4	7.21	0.72	6.10	4.76
		Treated Effluent at Emergency Bypass for 12 days (6)	6.11	6.67	0.003	0.33	4	7.21	0.72	6.10	4.76
HC10	Nga Ying Kok, Yi O	without the Project (2a)	6.15	6.73	0.003	0.31	3	7.14	0.74	6.15	5.42
		with the Project (2b)	6.15	6.74	0.003	0.31	3	7.13	0.74	6.15	5.40
		Sensitivity Test - Higher Treatment Level (2c)	6.16	6.75	0.003	0.31	3	7.13	0.74	6.16	5.39
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.15	6.74	0.003	0.31	3	7.13	0.74	6.15	5.40
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.15	6.74	0.003	0.31	3	7.13	0.74	6.15	5.40
		Treated Effluent at Emergency Bypass for 12 days (6)	6.15	6.74	0.003	0.31	3	7.13	0.74	6.15	5.40
HC11	Nga Ying Kok, Yi O	without the Project (2a)	6.25	6.86	0.003	0.28	2	6.94	0.76	6.24	5.36
		with the Project (2b)	6.25	6.86	0.003	0.28	2	6.94	0.76	6.24	5.35
		Sensitivity Test - Higher Treatment Level (2c)	6.26	6.87	0.003	0.28	2	6.93	0.76	6.26	5.34
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.25	6.86	0.003	0.28	2	6.94	0.76	6.24	5.35
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.25	6.86	0.003	0.28	2	6.94	0.76	6.24	5.35
		Treated Effluent at Emergency Bypass for 12 days (6)	6.25	6.86	0.003	0.28	2	6.94	0.76	6.24	5.35
Mangrove Communities											
WQO (for Deep Bay WCZ - Inner Subzone)											
			≥4	N/A	≤0.021	≤0.7	N/A	N/A	N/A	≥2	N/A
MG2	Lut Chau	without the Project (2a)	3.79	4.23	0.066	2.51	5926	38.14	6.32	3.77	0.00
		with the Project (2b)	3.79	4.23	0.066	2.51	5925	38.10	6.32	3.77	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.79	4.24	0.066	2.51	5923	38.06	6.31	3.78	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.79	4.23	0.066	2.51	5925	38.10	6.32	3.77	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.79	4.23	0.066	2.51	5925	38.10	6.32	3.77	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.79	4.24	0.066	2.51	5892	38.12	6.32	3.78	0.00
MG3	Tsim Bei Tsui	without the Project (2a)	4.57	4.83	0.054	2.19	6621	34.06	5.50	4.56	0.00
		with the Project (2b)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.57	4.85	0.054	2.18	6618	33.98	5.50	4.57	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.57	4.83	0.054	2.19	6619	34.02	5.50	4.56	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.57	4.84	0.054	2.19	6585	34.04	5.51	4.56	0.00
MG4	Sheung Pak Nai	without the Project (2a)	5.44	6.06	0.018	1.22	22815	20.33	3.03	5.41	0.00
		with the Project (2b)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Sensitivity Test - Higher Treatment Level (2c)	5.47	6.09	0.018	1.21	22809	20.25	3.03	5.43	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.44	6.07	0.018	1.22	22812	20.29	3.03	5.41	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	5.45	6.08	0.018	1.22	22767	20.30	3.03	5.42	0.00

ID	Indicator Point	Scenario	Mean Depth-averaged Results							90 percentile Bottom DO (mg/L)	Max. Sedimentation Rate (g/m ² /d)
			90 percentile DA DO	DO	UIA	TIN	E.coli	SS	BOD5		
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)		
WQO (for North Western WCZ)			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
MG5	Tai Ho Wan	without the Project (2a)	5.65	6.17	0.003	0.54	26	7.65	0.72	5.45	0.26
		with the Project (2b)	5.67	6.18	0.003	0.54	17	7.62	0.72	5.46	0.26
		Sensitivity Test - Higher Treatment Level (2c)	6.01	6.25	0.003	0.53	17	7.58	0.72	5.52	0.26
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.67	6.18	0.003	0.54	18	7.62	0.72	5.46	0.26
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.67	6.18	0.003	0.54	18	7.62	0.72	5.46	0.26
		Treated Effluent at Emergency Bypass for 12 days (6)	5.72	6.19	0.003	0.54	17	7.61	0.72	5.47	0.26
MG6	San Tau	without the Project (2a)	6.83	7.14	0.003	0.49	605	8.51	1.18	6.83	0.09
		with the Project (2b)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Sensitivity Test - Higher Treatment Level (2c)	6.83	7.19	0.003	0.48	604	8.44	1.18	6.83	0.09
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.83	7.14	0.003	0.49	605	8.47	1.18	6.83	0.09
		Treated Effluent at Emergency Bypass for 12 days (6)	6.83	7.18	0.003	0.49	603	8.49	1.19	6.83	0.09
MG7	Yi O	without the Project (2a)	6.61	6.82	0.002	0.32	1	7.07	0.69	6.09	4.16
		with the Project (2b)	6.70	6.83	0.002	0.32	1	7.06	0.69	6.09	4.15
		Sensitivity Test - Higher Treatment Level (2c)	6.80	6.85	0.002	0.32	1	7.05	0.69	6.11	4.14
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	6.70	6.83	0.002	0.32	1	7.06	0.69	6.09	4.15
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	6.70	6.83	0.002	0.32	1	7.06	0.69	6.09	4.15
		Treated Effluent at Emergency Bypass for 12 days (6)	6.76	6.83	0.002	0.32	1	7.06	0.69	6.09	4.15

Remarks:

N/A: Not Available