

Appendix 4-7

Model Results at Indicator Points for UDS – Wet Season

Results at Indicator Points - Normal Operation - UDS (Wet 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								
			>2	N/A	<1	<20000	<10	<10
WSD1	Near Butterfly Beach	without the Project (2a)	4.10	0.004	0.037	458	13.10	0.43
		with the Project (2b)	4.11	0.004	0.037	359	13.07	0.43
		Sensitivity Test - Higher Treatment Level (2c)	4.16	0.004	0.034	357	13.03	0.41
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.11	0.004	0.037	359	13.07	0.43
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.11	0.004	0.037	1061	13.07	0.43
		Treated Effluent at Emergency Bypass for 12 days (6)	4.08	0.004	0.039	359	13.07	0.44
WSD2	Near LRT Terminus	without the Project (2a)	4.17	0.004	0.037	3269	12.19	0.49
		with the Project (2b)	4.17	0.004	0.037	3243	12.15	0.49
		Sensitivity Test - Higher Treatment Level (2c)	4.23	0.004	0.034	3242	12.12	0.48
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.18	0.004	0.037	3243	12.15	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.18	0.004	0.037	3370	12.15	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	4.15	0.005	0.045	3257	12.15	0.55
WSD3	Near Hong Kong Garden	without the Project (2a)	4.32	0.003	0.031	252	10.86	0.36
		with the Project (2b)	4.32	0.003	0.031	75	10.82	0.36
		Sensitivity Test - Higher Treatment Level (2c)	4.37	0.003	0.028	75	10.79	0.34
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.32	0.003	0.031	75	10.82	0.36
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.32	0.003	0.031	142	10.82	0.36
		Treated Effluent at Emergency Bypass for 12 days (6)	4.30	0.003	0.032	75	10.82	0.37
WSD4	Tsuen Wan	without the Project (2a)	4.62	0.003	0.028	1777	8.43	0.45
		with the Project (2b)	4.62	0.003	0.028	1777	8.42	0.45
		Sensitivity Test - Higher Treatment Level (2c)	4.65	0.003	0.027	1777	8.40	0.45
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.62	0.003	0.028	1777	8.42	0.45
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.62	0.003	0.028	1777	8.42	0.45
		Treated Effluent at Emergency Bypass for 12 days (6)	4.59	0.003	0.028	1777	8.42	0.48
WSD5	Tsing Yi	without the Project (2a)	4.63	0.003	0.032	2070	8.37	0.56
		with the Project (2b)	4.64	0.003	0.032	2070	8.36	0.56
		Sensitivity Test - Higher Treatment Level (2c)	4.66	0.003	0.031	2070	8.34	0.56
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.64	0.003	0.032	2070	8.36	0.56
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.64	0.003	0.032	2070	8.36	0.56
		Treated Effluent at Emergency Bypass for 12 days (6)	4.61	0.003	0.032	2070	8.36	0.58
WSD6	Cheung Sha Wan	without the Project (2a)	4.73	0.013	0.123	13830	9.51	2.49
		with the Project (2b)	4.73	0.013	0.123	13830	9.51	2.49
		Sensitivity Test - Higher Treatment Level (2c)	4.74	0.013	0.123	13829	9.51	2.49
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.73	0.013	0.123	13830	9.51	2.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.73	0.013	0.123	13830	9.51	2.49
		Treated Effluent at Emergency Bypass for 12 days (6)	4.73	0.013	0.123	13830	9.57	2.52
WSD7	Kowloon South	without the Project (2a)	5.14	0.006	0.060	7289	7.01	1.01
		with the Project (2b)	5.14	0.006	0.060	7289	7.01	1.01
		Sensitivity Test - Higher Treatment Level (2c)	5.15	0.006	0.060	7288	7.00	1.01
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.14	0.006	0.060	7289	7.01	1.01
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.14	0.006	0.060	7289	7.01	1.01
		Treated Effluent at Emergency Bypass for 12 days (6)	5.12	0.006	0.060	7289	7.01	1.05
WSD8	Yau Ma Tei	without the Project (2a)	5.06	0.005	0.045	2978	6.76	0.77
		with the Project (2b)	5.07	0.005	0.045	2978	6.76	0.77
		Sensitivity Test - Higher Treatment Level (2c)	5.08	0.005	0.045	2978	6.75	0.77
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.07	0.005	0.045	2978	6.76	0.77
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.07	0.005	0.045	2978	6.76	0.77
		Treated Effluent at Emergency Bypass for 12 days (6)	5.07	0.005	0.045	2978	6.76	0.81
WSD9	Tai Wan	without the Project (2a)	5.23	0.007	0.068	1782	6.50	0.73
		with the Project (2b)	5.24	0.007	0.068	1782	6.50	0.73
		Sensitivity Test - Higher Treatment Level (2c)	5.24	0.007	0.067	1782	6.49	0.73
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.24	0.007	0.068	1782	6.50	0.73
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.24	0.007	0.068	1782	6.50	0.73
		Treated Effluent at Emergency Bypass for 12 days (6)	5.24	0.007	0.068	1782	6.50	0.77
WSD10	Cha Kwo Ling	without the Project (2a)	5.25	0.011	0.113	1580	6.55	0.79
		with the Project (2b)	5.26	0.011	0.113	1580	6.54	0.79
		Sensitivity Test - Higher Treatment Level (2c)	5.26	0.011	0.113	1580	6.54	0.79
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.26	0.011	0.113	1580	6.54	0.79
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.26	0.011	0.113	1580	6.54	0.79
		Treated Effluent at Emergency Bypass for 12 days (6)	5.26	0.011	0.113	1580	6.54	0.84

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)	5.27	0.010	0.100	474	6.71	0.71
		with the Project (2b)	5.27	0.010	0.100	474	6.71	0.71
		Sensitivity Test - Higher Treatment Level (2c)	5.28	0.010	0.100	474	6.70	0.71
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.27	0.010	0.100	474	6.71	0.71
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.27	0.010	0.100	474	6.71	0.71
		Treated Effluent at Emergency Bypass for 12 days (6)	5.26	0.010	0.101	474	6.71	0.74
WSD12	Tseung Kwan O	without the Project (2a)	5.52	0.003	0.029	493	5.35	0.69
		with the Project (2b)	5.52	0.003	0.029	493	5.35	0.69
		Sensitivity Test - Higher Treatment Level (2c)	5.52	0.003	0.029	493	5.35	0.69
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.52	0.003	0.029	493	5.35	0.69
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.52	0.003	0.029	493	5.35	0.69
		Treated Effluent at Emergency Bypass for 12 days (6)	5.51	0.003	0.029	493	5.35	0.72
WSD13	Siu Sai Wan	without the Project (2a)	5.46	0.005	0.049	7237	6.06	1.02
		with the Project (2b)	5.46	0.005	0.049	7237	6.05	1.02
		Sensitivity Test - Higher Treatment Level (2c)	5.46	0.005	0.049	7237	6.05	1.02
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.46	0.005	0.049	7237	6.05	1.02
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.46	0.005	0.049	7237	6.05	1.02
		Treated Effluent at Emergency Bypass for 12 days (6)	5.45	0.005	0.049	7237	6.06	1.05
WSD14	Heng Fa Chuen	without the Project (2a)	5.33	0.004	0.039	815	6.16	0.59
		with the Project (2b)	5.34	0.004	0.039	815	6.16	0.59
		Sensitivity Test - Higher Treatment Level (2c)	5.34	0.004	0.039	815	6.16	0.59
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.34	0.004	0.039	815	6.16	0.59
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.34	0.004	0.039	815	6.16	0.59
		Treated Effluent at Emergency Bypass for 12 days (6)	5.32	0.004	0.040	815	6.16	0.60
WSD15	Sai Wan Ho	without the Project (2a)	5.31	0.004	0.039	5127	6.26	0.69
		with the Project (2b)	5.31	0.004	0.039	5127	6.26	0.69
		Sensitivity Test - Higher Treatment Level (2c)	5.31	0.004	0.039	5127	6.26	0.69
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.31	0.004	0.039	5127	6.26	0.69
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.31	0.004	0.039	5127	6.26	0.69
		Treated Effluent at Emergency Bypass for 12 days (6)	5.28	0.004	0.039	5127	6.26	0.73
WSD16	Quarry Bay	without the Project (2a)	5.27	0.005	0.047	9885	6.40	0.78
		with the Project (2b)	5.28	0.005	0.047	9885	6.39	0.78
		Sensitivity Test - Higher Treatment Level (2c)	5.28	0.005	0.047	9885	6.39	0.78
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.28	0.005	0.047	9885	6.39	0.78
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.28	0.005	0.047	9885	6.39	0.78
		Treated Effluent at Emergency Bypass for 12 days (6)	5.26	0.005	0.047	9885	6.39	0.80
WSD17	North Point	without the Project (2a)	5.24	0.004	0.044	2335	6.37	0.65
		with the Project (2b)	5.25	0.004	0.044	2335	6.36	0.65
		Sensitivity Test - Higher Treatment Level (2c)	5.25	0.004	0.044	2335	6.36	0.65
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.25	0.004	0.044	2335	6.36	0.65
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.25	0.004	0.044	2335	6.36	0.65
		Treated Effluent at Emergency Bypass for 12 days (6)	5.23	0.004	0.044	2335	6.36	0.66
WSD18	Central Water Front	without the Project (2a)	5.01	0.004	0.040	2110	6.88	0.59
		with the Project (2b)	5.01	0.004	0.040	2110	6.87	0.59
		Sensitivity Test - Higher Treatment Level (2c)	5.02	0.004	0.040	2110	6.87	0.59
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.01	0.004	0.040	2110	6.87	0.59
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.01	0.004	0.040	2110	6.87	0.59
		Treated Effluent at Emergency Bypass for 12 days (6)	4.98	0.004	0.040	2110	6.87	0.62
WSD19	Sheung Wan	without the Project (2a)	4.99	0.004	0.041	2383	6.90	0.61
		with the Project (2b)	4.99	0.004	0.041	2383	6.89	0.61
		Sensitivity Test - Higher Treatment Level (2c)	5.00	0.004	0.041	2383	6.88	0.61
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.99	0.004	0.041	2383	6.89	0.61
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.99	0.004	0.041	2383	6.89	0.61
		Treated Effluent at Emergency Bypass for 12 days (6)	4.97	0.004	0.041	2383	6.89	0.64
WSD20	Kennedy Town	without the Project (2a)	4.99	0.003	0.029	186	7.04	0.42
		with the Project (2b)	5.00	0.003	0.029	186	7.03	0.42
		Sensitivity Test - Higher Treatment Level (2c)	5.01	0.003	0.029	186	7.02	0.42
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.00	0.003	0.029	186	7.03	0.42
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.00	0.003	0.029	186	7.03	0.42
		Treated Effluent at Emergency Bypass for 12 days (6)	4.97	0.003	0.029	186	7.03	0.43
WSD21	Ap Lei Chau	without the Project (2a)	5.26	0.003	0.026	28	6.14	0.27
		with the Project (2b)	5.26	0.003	0.026	28	6.14	0.27
		Sensitivity Test - Higher Treatment Level (2c)	5.27	0.003	0.026	28	6.13	0.27
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.26	0.003	0.026	28	6.14	0.27
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.26	0.003	0.026	28	6.14	0.27
		Treated Effluent at Emergency Bypass for 12 days (6)	5.24	0.003	0.026	28	6.14	0.28

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)	3.45	0.008	0.079	616	22.65	0.69
		with the Project (2b)	3.45	0.008	0.079	613	22.64	0.69
		Sensitivity Test - Higher Treatment Level (2c)	3.48	0.008	0.077	613	22.63	0.69
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.45	0.008	0.079	613	22.64	0.69
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.45	0.008	0.079	613	22.64	0.69
		Treated Effluent at Emergency Bypass for 12 days (6)	3.44	0.008	0.079	613	22.64	0.69
C2	Castle Peak Power Station	without the Project (2a)	3.73	0.005	0.047	804	19.10	0.52
		with the Project (2b)	3.74	0.005	0.047	95	19.07	0.52
		Sensitivity Test - Higher Treatment Level (2c)	3.78	0.005	0.045	94	19.04	0.51
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.74	0.005	0.047	176	19.07	0.52
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.74	0.005	0.047	619	19.07	0.52
		Treated Effluent at Emergency Bypass for 12 days (6)	3.73	0.005	0.048	98	19.07	0.53
C3	Castle Peak Power Station	without the Project (2a)	3.75	0.005	0.044	806	19.16	0.51
		with the Project (2b)	3.76	0.005	0.044	71	19.13	0.51
		Sensitivity Test - Higher Treatment Level (2c)	3.80	0.004	0.041	71	19.10	0.49
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.76	0.005	0.044	253	19.13	0.51
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.76	0.005	0.044	820	19.13	0.51
		Treated Effluent at Emergency Bypass for 12 days (6)	3.75	0.005	0.049	106	19.13	0.52
C4	China Cement Plant	without the Project (2a)	3.79	0.004	0.042	786	17.93	0.49
		with the Project (2b)	3.80	0.004	0.042	64	17.90	0.49
		Sensitivity Test - Higher Treatment Level (2c)	3.84	0.004	0.039	63	17.86	0.46
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.80	0.004	0.042	231	17.90	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.80	0.004	0.042	1844	17.90	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	3.78	0.005	0.052	153	17.90	0.54
C5	Shui Wing Steel Mill	without the Project (2a)	3.79	0.004	0.042	806	18.07	0.49
		with the Project (2b)	3.80	0.004	0.042	60	18.04	0.49
		Sensitivity Test - Higher Treatment Level (2c)	3.84	0.004	0.038	59	18.01	0.46
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.80	0.004	0.042	224	18.04	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.80	0.004	0.042	2424	18.04	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	3.78	0.006	0.053	170	18.04	0.54
C6	Tuen Mun	without the Project (2a)	4.14	0.004	0.038	1015	12.38	0.47
		with the Project (2b)	4.15	0.004	0.038	852	12.35	0.46
		Sensitivity Test - Higher Treatment Level (2c)	4.20	0.004	0.035	850	12.31	0.44
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.15	0.004	0.038	852	12.35	0.46
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.15	0.004	0.038	2550	12.35	0.46
		Treated Effluent at Emergency Bypass for 12 days (6)	4.12	0.004	0.042	852	12.35	0.49
C7	Airport 1	without the Project (2a)	3.86	0.004	0.039	54	16.04	0.46
		with the Project (2b)	3.87	0.004	0.039	35	16.01	0.45
		Sensitivity Test - Higher Treatment Level (2c)	3.91	0.004	0.037	35	15.98	0.44
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.87	0.004	0.039	35	16.01	0.45
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.87	0.004	0.039	35	16.01	0.45
		Treated Effluent at Emergency Bypass for 12 days (6)	3.87	0.004	0.039	35	16.01	0.46
C8	Airport 2	without the Project (2a)	4.17	0.004	0.037	22	11.90	0.62
		with the Project (2b)	4.17	0.004	0.037	21	11.88	0.62
		Sensitivity Test - Higher Treatment Level (2c)	4.22	0.004	0.034	21	11.85	0.61
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.17	0.004	0.037	21	11.88	0.62
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.17	0.004	0.037	21	11.88	0.62
		Treated Effluent at Emergency Bypass for 12 days (6)	4.16	0.004	0.037	21	11.88	0.65
C9	Airport 3	without the Project (2a)	4.03	0.005	0.042	1828	14.14	0.88
		with the Project (2b)	4.03	0.005	0.042	1827	14.12	0.88
		Sensitivity Test - Higher Treatment Level (2c)	4.07	0.004	0.041	1827	14.10	0.88
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.03	0.005	0.042	1827	14.12	0.88
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.03	0.005	0.042	1827	14.12	0.88
		Treated Effluent at Emergency Bypass for 12 days (6)	4.03	0.005	0.042	1827	14.12	0.94
C10	Airport 4	without the Project (2a)	4.02	0.005	0.042	872	13.73	0.84
		with the Project (2b)	4.03	0.004	0.042	871	13.71	0.84
		Sensitivity Test - Higher Treatment Level (2c)	4.06	0.004	0.041	871	13.69	0.84
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.03	0.004	0.042	871	13.71	0.84
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.03	0.004	0.042	871	13.71	0.84
		Treated Effluent at Emergency Bypass for 12 days (6)	4.03	0.004	0.042	871	13.71	0.90
C11	Tsuen Wan	without the Project (2a)	4.63	0.003	0.029	1328	8.36	0.49
		with the Project (2b)	4.63	0.003	0.029	1328	8.34	0.49
		Sensitivity Test - Higher Treatment Level (2c)	4.66	0.003	0.029	1328	8.32	0.49
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.63	0.003	0.029	1328	8.34	0.49
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.63	0.003	0.029	1328	8.34	0.49
		Treated Effluent at Emergency Bypass for 12 days (6)	4.60	0.003	0.029	1328	8.34	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)	4.63	0.003	0.032	2070	8.37	0.56
		with the Project (2b)	4.64	0.003	0.032	2070	8.36	0.56
		Sensitivity Test - Higher Treatment Level (2c)	4.66	0.003	0.031	2070	8.34	0.56
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.64	0.003	0.032	2070	8.36	0.56
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.64	0.003	0.032	2070	8.36	0.56
		Treated Effluent at Emergency Bypass for 12 days (6)	4.61	0.003	0.032	2070	8.36	0.58
C13	Tsing Yi Power Station	without the Project (2a)	4.85	0.005	0.047	188	7.19	0.62
		with the Project (2b)	4.85	0.005	0.047	188	7.18	0.62
		Sensitivity Test - Higher Treatment Level (2c)	4.87	0.005	0.046	188	7.17	0.62
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.85	0.005	0.047	188	7.18	0.62
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.85	0.005	0.047	188	7.18	0.62
		Treated Effluent at Emergency Bypass for 12 days (6)	4.85	0.005	0.047	188	7.18	0.65

Remarks:

N/A: Not Available

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

Note: Shaded and bolded - value exceeded the WQO

(II) Fish Culture Zones

ID	Indicator Point	Scenario	Surface Mean			90 percentile	90 percentile	DA	DA	DA
			DO	SS	NH4	Bottom DO	DA DO	Ecoli	UIA	TIN
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100ml)	(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)	4.91	7.28	0.03	4.56	4.55	12	0.003	0.63
		with the Project (2b)	4.91	7.27	0.03	4.56	4.55	8	0.003	0.63
		Sensitivity Test - Higher Treatment Level (2c)	4.94	7.26	0.03	4.57	4.56	8	0.003	0.62
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.91	7.27	0.03	4.56	4.55	8	0.003	0.63
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.91	7.27	0.03	4.56	4.55	8	0.003	0.63
		Treated Effluent at Emergency Bypass for 12 days (6)	4.92	7.27	0.03	4.56	4.55	8	0.003	0.63
F2	Ma Wan North	without the Project (2a)	4.95	7.18	0.02	4.56	4.56	7	0.002	0.62
		with the Project (2b)	4.95	7.17	0.02	4.56	4.56	5	0.002	0.62
		Sensitivity Test - Higher Treatment Level (2c)	4.97	7.16	0.02	4.57	4.57	4	0.002	0.62
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.95	7.17	0.02	4.56	4.56	5	0.002	0.62
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.95	7.17	0.02	4.56	4.56	5	0.002	0.62
		Treated Effluent at Emergency Bypass for 12 days (6)	4.96	7.17	0.02	4.56	4.56	5	0.002	0.62

DA = Depth Average

N/A = Not Available

(III) Others

ID	Indicator Point	Scenario	90 percentile	Mean Depth-averaged Results					90 percentile	Max.	
			DA DO	DO	UIA	TIN	E.coli	SS	BOD5	Bottom DO	Sedimentation Rate
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(no./100mL)	(mg/L)	(mg/L)	(mg/L)	(g/m ² /d)
Artificial Reefs			≥4	N/A	≤0.021	≤0.5	N/A	N/A	N/A	≥2	N/A
AR1	Airport	without the Project (2a)	3.85	4.35	0.004	0.74	20	10.42	0.38	3.85	7.39
		with the Project (2b)	3.85	4.35	0.004	0.74	11	10.40	0.38	3.85	7.37
		Sensitivity Test - Higher Treatment Level (2c)	3.86	4.39	0.003	0.74	10	10.37	0.37	3.86	7.35
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.85	4.35	0.004	0.74	11	10.40	0.38	3.85	7.37
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.85	4.35	0.004	0.74	11	10.40	0.38	3.85	7.37
		Treated Effluent at Emergency Bypass for 12 days (6)	3.85	4.36	0.004	0.74	11	10.39	0.38	3.85	7.37
AR2	Sha Chau and Lung Kwu Chau	without the Project (2a)	3.78	3.98	0.004	0.80	37	13.95	0.43	3.36	8.69
		with the Project (2b)	3.78	3.98	0.004	0.80	8	13.92	0.43	3.38	8.67
		Sensitivity Test - Higher Treatment Level (2c)	3.81	4.03	0.003	0.80	7	13.89	0.42	3.76	8.65
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.78	3.98	0.004	0.80	9	13.92	0.43	3.38	8.67
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.78	3.98	0.004	0.80	8	13.92	0.43	3.38	8.67
		Treated Effluent at Emergency Bypass for 12 days (6)	3.78	3.99	0.004	0.80	8	13.91	0.43	3.38	8.67
Gazetted Beaches			≥4	N/A	≤0.021	≤0.5	≤180	N/A	N/A	≥2	N/A
B1	Butterfly	without the Project (2a)	3.94	4.60	0.003	0.70	119	8.96	0.34	3.91	5.02
		with the Project (2b)	3.94	4.60	0.003	0.70	68	8.94	0.34	3.92	5.00
		Sensitivity Test - Higher Treatment Level (2c)	3.99	4.65	0.003	0.69	65	8.91	0.33	3.93	4.98
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.95	4.60	0.003	0.70	69	8.94	0.34	3.92	5.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.95	4.60	0.003	0.70	73	8.94	0.34	3.91	5.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.95	4.60	0.003	0.70	77	8.94	0.35	3.91	5.01

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)	4.60	5.13	0.003	0.67	133	8.80	0.44	4.01	0.00
		with the Project (2b)	4.60	5.13	0.003	0.67	124	8.77	0.44	4.02	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.62	5.18	0.003	0.67	124	8.75	0.43	4.07	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.60	5.13	0.003	0.67	125	8.77	0.44	4.02	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.60	5.13	0.003	0.67	126	8.78	0.44	4.02	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.60	5.14	0.003	0.68	124	8.79	0.45	4.02	0.00
B3	Kadoorie	without the Project (2a)	4.53	4.89	0.003	0.68	229	8.87	0.42	3.93	0.00
		with the Project (2b)	4.53	4.89	0.003	0.68	207	8.85	0.42	3.94	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.94	0.003	0.68	206	8.82	0.41	3.98	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.53	4.89	0.003	0.68	208	8.85	0.42	3.94	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.53	4.89	0.003	0.68	210	8.85	0.42	3.94	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.52	4.90	0.003	0.68	207	8.86	0.43	3.94	0.00
B4	Cafeteria Old	without the Project (2a)	4.09	4.75	0.003	0.69	432	8.91	0.41	3.92	0.00
		with the Project (2b)	4.10	4.76	0.003	0.69	396	8.88	0.40	3.93	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.26	4.80	0.003	0.69	395	8.85	0.39	3.95	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.10	4.76	0.003	0.69	396	8.88	0.40	3.93	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.10	4.76	0.003	0.69	401	8.88	0.41	3.93	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.09	4.76	0.003	0.69	395	8.89	0.42	3.93	0.00
B5	Cafeteria New	without the Project (2a)	4.09	4.75	0.003	0.69	432	8.91	0.41	3.92	0.00
		with the Project (2b)	4.10	4.76	0.003	0.69	396	8.88	0.40	3.93	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.26	4.80	0.003	0.69	395	8.85	0.39	3.95	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.10	4.76	0.003	0.69	396	8.88	0.40	3.93	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.10	4.76	0.003	0.69	401	8.88	0.41	3.93	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.09	4.76	0.003	0.69	395	8.89	0.42	3.93	0.00
B6	Golden Beach	without the Project (2a)	4.00	4.68	0.003	0.70	511	8.99	0.42	3.90	0.00
		with the Project (2b)	4.00	4.69	0.003	0.70	468	8.97	0.42	3.91	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.07	4.73	0.003	0.69	467	8.94	0.41	3.93	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.01	4.69	0.003	0.70	469	8.97	0.42	3.91	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.01	4.69	0.003	0.70	475	8.97	0.42	3.91	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.00	4.69	0.003	0.70	468	8.97	0.43	3.91	0.00
B7	Anglers'	without the Project (2a)	4.56	4.94	0.002	0.62	95	7.07	0.30	4.57	6.10
		with the Project (2b)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Sensitivity Test - Higher Treatment Level (2c)	4.57	4.96	0.002	0.62	85	7.05	0.30	4.58	6.06
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Treated Effluent at Emergency Bypass for 12 days (6)	4.56	4.95	0.002	0.62	86	7.06	0.30	4.57	6.08
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)	4.56	4.95	0.002	0.62	37	7.01	0.30	4.57	5.61
		with the Project (2b)	4.56	4.96	0.002	0.62	33	7.00	0.30	4.57	5.60
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.98	0.002	0.61	33	6.99	0.30	4.58	5.59
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.56	4.96	0.002	0.62	33	7.00	0.30	4.57	5.60
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.56	4.96	0.002	0.62	33	7.00	0.30	4.57	5.60
		Treated Effluent at Emergency Bypass for 12 days (6)	4.57	4.96	0.002	0.62	33	7.00	0.30	4.57	5.60
B9	Hoi Mei Wan	without the Project (2a)	4.58	4.97	0.002	0.61	18	6.92	0.30	4.58	6.03
		with the Project (2b)	4.58	4.98	0.002	0.61	14	6.91	0.30	4.58	6.01
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.99	0.002	0.61	14	6.90	0.29	4.58	6.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	4.98	0.002	0.61	14	6.91	0.30	4.58	6.01
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	4.98	0.002	0.61	14	6.91	0.30	4.58	6.01
		Treated Effluent at Emergency Bypass for 12 days (6)	4.58	4.98	0.002	0.61	14	6.91	0.30	4.58	6.01
B10	Casam	without the Project (2a)	4.58	4.95	0.002	0.62	39	6.98	0.29	4.58	6.68
		with the Project (2b)	4.58	4.95	0.002	0.62	35	6.97	0.29	4.58	6.66
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.97	0.002	0.61	35	6.96	0.29	4.58	6.64
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	4.95	0.002	0.62	35	6.97	0.29	4.58	6.66
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	4.95	0.002	0.62	35	6.97	0.29	4.58	6.66
		Treated Effluent at Emergency Bypass for 12 days (6)	4.58	4.95	0.002	0.62	35	6.97	0.29	4.58	6.66

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)		
B11	Lido	without the Project (2a)	4.58	4.92	0.002	0.62	51	7.03	0.29	4.58	6.72
		with the Project (2b)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.94	0.002	0.62	47	7.00	0.28	4.58	6.68
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Treated Effluent at Emergency Bypass for 12 days (6)	4.58	4.93	0.002	0.62	47	7.02	0.29	4.58	6.70
B12	Ting Kau	without the Project (2a)	4.58	4.92	0.002	0.62	51	7.03	0.29	4.58	6.72
		with the Project (2b)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.94	0.002	0.62	47	7.00	0.28	4.58	6.68
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	4.92	0.002	0.62	47	7.02	0.29	4.58	6.70
		Treated Effluent at Emergency Bypass for 12 days (6)	4.58	4.93	0.002	0.62	47	7.02	0.29	4.58	6.70
B13	Approach	without the Project (2a)	4.58	4.91	0.002	0.62	78	7.07	0.29	4.58	6.08
		with the Project (2b)	4.58	4.91	0.002	0.62	70	7.06	0.29	4.58	6.06
		Sensitivity Test - Higher Treatment Level (2c)	4.58	4.94	0.002	0.62	70	7.05	0.29	4.58	6.05
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	4.91	0.002	0.62	70	7.06	0.29	4.58	6.06
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	4.91	0.002	0.62	70	7.06	0.29	4.58	6.06
		Treated Effluent at Emergency Bypass for 12 days (6)	4.58	4.92	0.002	0.62	70	7.06	0.29	4.58	6.06
B14	Tung Wan, Ma Wan	without the Project (2a)	4.58	5.04	0.002	0.60	107	7.14	0.31	4.58	0.00
		with the Project (2b)	4.58	5.04	0.002	0.60	105	7.13	0.31	4.58	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.59	5.06	0.002	0.60	105	7.12	0.31	4.58	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.58	5.04	0.002	0.60	105	7.13	0.31	4.58	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.58	5.04	0.002	0.60	105	7.13	0.31	4.58	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.59	5.05	0.002	0.60	105	7.14	0.31	4.58	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)	3.88	4.46	0.004	0.78	31	13.15	0.44	3.45	0.00
		with the Project (2b)	3.88	4.46	0.004	0.78	21	13.12	0.43	3.46	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.89	4.50	0.003	0.78	21	13.10	0.42	3.59	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.88	4.46	0.004	0.78	21	13.12	0.43	3.46	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.88	4.46	0.004	0.78	22	13.12	0.43	3.46	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.88	4.46	0.004	0.78	21	13.11	0.44	3.46	0.00
U2	Lung Kwu Lower	without the Project (2a)	3.83	4.22	0.005	0.81	569	12.69	0.57	3.78	0.00
		with the Project (2b)	3.83	4.22	0.005	0.81	542	12.66	0.57	3.78	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.26	0.004	0.80	541	12.63	0.56	3.79	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.22	0.005	0.81	543	12.66	0.57	3.78	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.22	0.005	0.81	543	12.66	0.57	3.78	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.22	0.005	0.81	539	12.65	0.58	3.78	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)	3.77	4.02	0.004	0.79	52	13.15	0.42	3.66	8.92
		with the Project (2b)	3.77	4.03	0.004	0.79	10	13.12	0.42	3.71	8.88
		Sensitivity Test - Higher Treatment Level (2c)	3.79	4.07	0.004	0.79	8	13.10	0.41	3.78	8.86
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	4.03	0.004	0.79	10	13.12	0.42	3.72	8.88
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	4.03	0.004	0.79	10	13.12	0.42	3.72	8.88
		Treated Effluent at Emergency Bypass for 12 days (6)	3.77	4.03	0.004	0.79	9	13.11	0.42	3.70	8.88
MP2	Indicator Point 2 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	3.56	4.02	0.004	0.79	280	14.01	0.46	3.74	7.46
		with the Project (2b)	3.57	4.03	0.004	0.79	33	13.97	0.45	3.75	7.40
		Sensitivity Test - Higher Treatment Level (2c)	3.76	4.08	0.004	0.79	22	13.94	0.42	3.79	7.35
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.58	4.03	0.004	0.79	35	13.97	0.45	3.75	7.40
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.58	4.03	0.004	0.79	34	13.97	0.45	3.75	7.40
		Treated Effluent at Emergency Bypass for 12 days (6)	3.57	4.03	0.004	0.79	29	13.95	0.45	3.75	7.40

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)	3.23	3.85	0.004	0.83	98	16.74	0.50	3.16	8.05
		with the Project (2b)	3.24	3.85	0.004	0.83	25	16.71	0.50	3.16	8.02
		Sensitivity Test - Higher Treatment Level (2c)	3.31	3.89	0.004	0.82	21	16.69	0.48	3.22	7.99
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.24	3.85	0.004	0.83	26	16.71	0.50	3.16	8.02
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.24	3.85	0.004	0.83	25	16.71	0.50	3.17	8.02
		Treated Effluent at Emergency Bypass for 12 days (6)	3.24	3.85	0.004	0.83	24	16.69	0.49	3.17	8.02
MP4	Indicator Point 4 for Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	3.83	4.00	0.003	0.79	15	14.94	0.43	3.77	7.63
		with the Project (2b)	3.83	4.00	0.003	0.79	6	14.91	0.42	3.78	7.61
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.04	0.003	0.79	5	14.89	0.41	3.82	7.59
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.00	0.003	0.79	6	14.91	0.42	3.78	7.61
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.00	0.003	0.79	6	14.91	0.42	3.78	7.61
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.01	0.003	0.79	6	14.90	0.42	3.78	7.61
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)	0.00	0.35	0.208	3.06	2472	63.57	12.95	0.00	0.00
		with the Project (2b)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Sensitivity Test - Higher Treatment Level (2c)	0.00	0.35	0.207	3.06	2472	63.55	12.94	0.00	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	0.00	0.35	0.208	3.06	2459	63.56	12.95	0.00	0.00
SG2	Sha Kong Tsuen	without the Project (2a)	3.76	4.01	0.021	1.05	276	21.71	1.25	3.45	0.00
		with the Project (2b)	3.76	4.01	0.021	1.05	276	21.70	1.25	3.46	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.77	4.03	0.021	1.05	276	21.68	1.25	3.51	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.76	4.01	0.021	1.05	276	21.70	1.25	3.46	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.76	4.01	0.021	1.05	276	21.70	1.25	3.46	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	4.02	0.021	1.05	274	21.69	1.25	3.46	0.00
SG3	Ngau Hom Shek	without the Project (2a)	3.82	4.05	0.018	1.02	822	21.22	1.35	3.78	0.00
		with the Project (2b)	3.82	4.06	0.018	1.02	822	21.20	1.35	3.78	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	4.07	0.018	1.01	822	21.19	1.35	3.79	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.82	4.06	0.018	1.02	822	21.20	1.35	3.78	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.82	4.06	0.018	1.02	822	21.20	1.35	3.78	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.82	4.06	0.018	1.02	816	21.20	1.35	3.78	0.00
SG4	Ngau Hom Shek	without the Project (2a)	3.82	3.97	0.023	1.07	20174	23.36	3.05	3.65	0.00
		with the Project (2b)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.99	0.022	1.07	20171	23.33	3.05	3.76	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.82	3.97	0.023	1.07	20115	23.34	3.05	3.66	0.00
SG1	Sheung Pak Nai	without the Project (2a)	3.76	3.89	0.009	0.91	8849	16.94	1.34	3.20	0.00
		with the Project (2b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.92	0.009	0.91	8844	16.90	1.33	3.25	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	3.90	0.009	0.91	8822	16.91	1.34	3.20	0.00
SG9	Ha Pak Nai	without the Project (2a)	3.76	3.89	0.009	0.91	8849	16.94	1.34	3.20	0.00
		with the Project (2b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.92	0.009	0.91	8844	16.90	1.33	3.25	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	3.90	0.009	0.91	8822	16.91	1.34	3.20	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)	4.69	5.34	0.002	0.60	2	9.53	0.51	4.51	0.00
		with the Project (2b)	4.69	5.34	0.002	0.60	1	9.51	0.51	4.51	0.00
		Sensitivity Test - Higher Treatment Level (2c)	4.71	5.37	0.002	0.59	1	9.49	0.51	4.54	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.69	5.34	0.002	0.60	1	9.51	0.51	4.51	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.69	5.34	0.002	0.60	1	9.51	0.51	4.51	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	4.70	5.36	0.002	0.60	1	9.52	0.52	4.52	0.00
SG7	Tai Ho Wan	without the Project (2a)	3.91	4.53	0.003	0.73	6	9.51	0.36	3.85	1.41
		with the Project (2b)	3.92	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Sensitivity Test - Higher Treatment Level (2c)	3.94	4.58	0.003	0.72	5	9.46	0.36	3.87	1.40
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.92	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.91	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Treated Effluent at Emergency Bypass for 12 days (6)	3.92	4.55	0.003	0.73	5	9.48	0.36	3.86	1.41
SG5	San Tau	without the Project (2a)	3.88	4.47	0.004	0.72	968	10.85	0.71	3.83	7.23
		with the Project (2b)	3.88	4.47	0.004	0.72	968	10.82	0.72	3.83	7.21
		Sensitivity Test - Higher Treatment Level (2c)	3.89	4.51	0.004	0.71	968	10.80	0.71	3.84	7.19
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.88	4.47	0.004	0.72	968	10.82	0.72	3.83	7.21
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.88	4.47	0.004	0.72	968	10.82	0.72	3.83	7.21
		Treated Effluent at Emergency Bypass for 12 days (6)	3.88	4.49	0.004	0.71	963	10.83	0.72	3.83	7.21
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)	3.34	3.93	0.004	0.81	202	15.37	0.47	3.34	7.48
		with the Project (2b)	3.35	3.94	0.004	0.81	31	15.33	0.47	3.37	7.43
		Sensitivity Test - Higher Treatment Level (2c)	3.47	3.98	0.004	0.80	23	15.30	0.44	3.51	7.38
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.36	3.94	0.004	0.81	32	15.33	0.47	3.36	7.42
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.36	3.94	0.004	0.81	32	15.33	0.47	3.37	7.42
		Treated Effluent at Emergency Bypass for 12 days (6)	3.36	3.94	0.004	0.81	29	15.31	0.47	3.36	7.42
CWD2	North of Airport	without the Project (2a)	3.83	4.11	0.004	0.79	19	11.93	0.41	3.82	6.55
		with the Project (2b)	3.83	4.11	0.004	0.79	6	11.90	0.40	3.83	6.52
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.16	0.003	0.79	5	11.88	0.39	3.83	6.50
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.11	0.004	0.79	6	11.90	0.40	3.83	6.52
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.11	0.004	0.79	6	11.90	0.40	3.83	6.52
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.12	0.004	0.79	6	11.89	0.40	3.83	6.52
CWD3	near The Brothers	without the Project (2a)	3.87	4.40	0.003	0.73	26	9.88	0.34	3.86	7.67
		with the Project (2b)	3.87	4.41	0.003	0.73	7	9.86	0.34	3.86	7.64
		Sensitivity Test - Higher Treatment Level (2c)	3.88	4.45	0.003	0.72	6	9.83	0.33	3.87	7.61
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.87	4.41	0.003	0.73	7	9.86	0.34	3.86	7.64
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.87	4.41	0.003	0.73	7	9.86	0.34	3.86	7.64
		Treated Effluent at Emergency Bypass for 12 days (6)	3.87	4.41	0.003	0.73	6	9.84	0.34	3.87	7.64
CWD4	between Sha Chau and Lung Kwu Chau Marine Park	without the Project (2a)	3.77	3.97	0.004	0.81	45	14.26	0.44	3.32	6.42
		with the Project (2b)	3.77	3.98	0.004	0.81	9	14.23	0.44	3.35	6.40
		Sensitivity Test - Higher Treatment Level (2c)	3.81	4.02	0.004	0.80	8	14.21	0.42	3.58	6.37
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.98	0.004	0.81	10	14.23	0.44	3.35	6.40
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.98	0.004	0.81	10	14.23	0.44	3.35	6.40
		Treated Effluent at Emergency Bypass for 12 days (6)	3.77	3.98	0.004	0.81	9	14.22	0.44	3.35	6.40
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)	1.69	2.36	0.115	2.01	2008	41.25	5.68	1.68	0.00
		with the Project (2b)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Sensitivity Test - Higher Treatment Level (2c)	1.69	2.36	0.115	2.00	2008	41.22	5.68	1.68	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	1.69	2.36	0.115	2.01	1995	41.23	5.68	1.68	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)	3.34	3.85	0.009	0.91	485	17.25	0.76	3.16	0.00
		with the Project (2b)	3.37	3.85	0.009	0.91	482	17.24	0.76	3.16	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.54	3.88	0.008	0.91	482	17.22	0.76	3.19	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.37	3.85	0.009	0.91	482	17.24	0.76	3.16	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.37	3.85	0.009	0.91	482	17.24	0.76	3.16	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.37	3.85	0.009	0.91	480	17.23	0.76	3.16	0.00
S3	Inner Deep Bay	without the Project (2a)	1.71	2.41	0.092	1.81	822	36.18	4.48	1.70	0.00
		with the Project (2b)	1.71	2.42	0.092	1.81	822	36.17	4.48	1.70	0.00
		Sensitivity Test - Higher Treatment Level (2c)	1.71	2.42	0.092	1.81	822	36.15	4.48	1.70	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	1.71	2.42	0.092	1.81	822	36.17	4.48	1.70	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	1.71	2.42	0.092	1.81	822	36.17	4.48	1.70	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	1.71	2.42	0.092	1.81	817	36.16	4.48	1.70	0.00
S4	Mai Po	without the Project (2a)	0.00	0.35	0.208	3.06	2472	63.57	12.95	0.00	0.00
		with the Project (2b)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Sensitivity Test - Higher Treatment Level (2c)	0.00	0.35	0.207	3.06	2472	63.55	12.94	0.00	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	0.00	0.35	0.208	3.06	2472	63.56	12.95	0.00	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	0.00	0.35	0.208	3.06	2459	63.56	12.95	0.00	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)	3.77	3.97	0.004	0.81	45	14.26	0.44	3.32	6.42
		with the Project (2b)	3.77	3.98	0.004	0.81	9	14.23	0.44	3.35	6.40
		Sensitivity Test - Higher Treatment Level (2c)	3.81	4.02	0.004	0.80	8	14.21	0.42	3.58	6.37
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.98	0.004	0.81	10	14.23	0.44	3.35	6.40
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.98	0.004	0.81	10	14.23	0.44	3.35	6.40
		Treated Effluent at Emergency Bypass for 12 days (6)	3.77	3.98	0.004	0.81	9	14.22	0.44	3.35	6.40
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)	3.82	3.99	0.004	0.80	23	14.13	0.43	3.52	7.74
		with the Project (2b)	3.82	4.00	0.004	0.80	7	14.10	0.43	3.59	7.72
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.04	0.003	0.79	6	14.07	0.41	3.79	7.69
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.82	4.00	0.004	0.80	7	14.10	0.43	3.60	7.72
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.82	4.00	0.004	0.80	7	14.10	0.43	3.60	7.72
		Treated Effluent at Emergency Bypass for 12 days (6)	3.82	4.00	0.004	0.80	6	14.09	0.43	3.57	7.72
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)	4.55	4.92	0.002	0.62	22	7.15	0.29	4.57	6.93
		with the Project (2b)	4.55	4.92	0.002	0.62	15	7.14	0.29	4.57	6.90
		Sensitivity Test - Higher Treatment Level (2c)	4.56	4.94	0.002	0.62	15	7.13	0.29	4.57	6.88
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.55	4.92	0.002	0.62	15	7.14	0.29	4.57	6.90
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.55	4.92	0.002	0.62	16	7.14	0.29	4.57	6.90
		Treated Effluent at Emergency Bypass for 12 days (6)	4.55	4.93	0.002	0.62	15	7.14	0.30	4.57	6.90
CR3	Sham Tseng West	without the Project (2a)	4.56	4.93	0.002	0.62	19	7.09	0.30	4.57	5.87
		with the Project (2b)	4.56	4.94	0.002	0.62	13	7.08	0.30	4.57	5.86
		Sensitivity Test - Higher Treatment Level (2c)	4.57	4.96	0.002	0.61	13	7.07	0.29	4.58	5.85
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.56	4.94	0.002	0.62	14	7.08	0.30	4.57	5.86
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.56	4.94	0.002	0.62	14	7.08	0.30	4.57	5.86
		Treated Effluent at Emergency Bypass for 12 days (6)	4.56	4.94	0.002	0.62	14	7.08	0.30	4.57	5.86
CR4	Sham Tseng East	without the Project (2a)	4.56	4.94	0.002	0.62	95	7.07	0.30	4.57	6.10
		with the Project (2b)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Sensitivity Test - Higher Treatment Level (2c)	4.57	4.96	0.002	0.62	85	7.05	0.30	4.58	6.06
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.56	4.94	0.002	0.62	86	7.06	0.30	4.57	6.08
		Treated Effluent at Emergency Bypass for 12 days (6)	4.56	4.95	0.002	0.62	86	7.06	0.30	4.57	6.08

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)	5.32	5.36	0.002	0.43	21	5.81	0.25	5.25	5.04
		with the Project (2b)	5.32	5.36	0.002	0.43	21	5.81	0.25	5.25	5.04
		Sensitivity Test - Higher Treatment Level (2c)	5.33	5.37	0.002	0.43	21	5.81	0.25	5.27	5.04
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	5.32	5.36	0.002	0.43	21	5.81	0.25	5.25	5.04
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	5.32	5.36	0.002	0.43	21	5.81	0.25	5.25	5.04
		Treated Effluent at Emergency Bypass for 12 days (6)	5.31	5.37	0.002	0.43	20	5.81	0.25	5.25	5.04
CR6	Sandy bay	without the Project (2a)	4.82	5.33	0.002	0.47	21	5.96	0.26	4.71	5.11
		with the Project (2b)	4.82	5.33	0.002	0.47	21	5.96	0.26	4.71	5.10
		Sensitivity Test - Higher Treatment Level (2c)	4.85	5.34	0.002	0.47	21	5.96	0.26	4.73	5.10
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.82	5.33	0.002	0.47	21	5.96	0.26	4.71	5.10
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.82	5.33	0.002	0.47	21	5.96	0.26	4.71	5.10
		Treated Effluent at Emergency Bypass for 12 days (6)	4.82	5.34	0.002	0.47	21	5.96	0.27	4.72	5.10
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)	3.33	3.85	0.011	0.94	594	18.06	0.84	3.19	0.00
		with the Project (2b)	3.34	3.85	0.011	0.94	592	18.05	0.84	3.19	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.54	3.87	0.010	0.93	592	18.03	0.83	3.23	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.34	3.85	0.011	0.94	592	18.05	0.84	3.19	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.34	3.85	0.011	0.94	592	18.05	0.84	3.19	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.34	3.85	0.011	0.94	589	18.04	0.84	3.19	0.00
HC2	Ha Pak Nai	without the Project (2a)	3.76	3.89	0.009	0.91	8849	16.94	1.34	3.20	0.00
		with the Project (2b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.92	0.009	0.91	8844	16.90	1.33	3.25	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	3.90	0.009	0.91	8822	16.91	1.34	3.20	0.00
HC3	Ha Pak Nai	without the Project (2a)	3.76	3.89	0.009	0.91	8849	16.94	1.34	3.20	0.00
		with the Project (2b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.92	0.009	0.91	8844	16.90	1.33	3.25	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.77	3.90	0.009	0.91	8845	16.92	1.34	3.20	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.76	3.90	0.009	0.91	8822	16.91	1.34	3.20	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)	3.16	3.78	0.007	0.88	2337	16.49	0.77	3.09	0.00
		with the Project (2b)	3.16	3.78	0.007	0.88	2328	16.47	0.77	3.10	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.19	3.81	0.006	0.87	2327	16.45	0.77	3.10	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.16	3.78	0.007	0.88	2328	16.47	0.77	3.10	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.16	3.78	0.007	0.88	2328	16.47	0.77	3.10	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.16	3.78	0.007	0.88	2322	16.47	0.77	3.10	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)	3.83	4.18	0.004	0.80	120	12.83	0.46	3.77	0.00
		with the Project (2b)	3.83	4.19	0.004	0.80	71	12.80	0.46	3.78	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.23	0.004	0.79	69	12.77	0.45	3.80	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.19	0.004	0.80	72	12.80	0.46	3.78	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.19	0.004	0.80	72	12.80	0.46	3.78	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.19	0.004	0.80	71	12.79	0.46	3.77	0.00
HC6	San Tau	without the Project (2a)	3.89	4.53	0.004	0.71	481	10.92	0.64	3.85	0.62
		with the Project (2b)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Sensitivity Test - Higher Treatment Level (2c)	3.91	4.57	0.004	0.71	481	10.87	0.64	3.86	0.62
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Treated Effluent at Emergency Bypass for 12 days (6)	3.90	4.55	0.004	0.71	478	10.90	0.65	3.86	0.62

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)	3.83	4.18	0.003	0.76	4	11.65	0.36	3.83	9.13
		with the Project (2b)	3.83	4.19	0.003	0.76	4	11.63	0.36	3.83	9.11
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.22	0.003	0.75	4	11.61	0.36	3.83	9.09
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.19	0.003	0.76	4	11.63	0.36	3.83	9.11
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.19	0.003	0.76	4	11.63	0.36	3.83	9.11
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.19	0.003	0.76	4	11.63	0.36	3.83	9.11
HC8	Sai Tso Wan	without the Project (2a)	3.83	4.22	0.003	0.76	5	11.49	0.36	3.83	7.95
		with the Project (2b)	3.83	4.23	0.003	0.76	3	11.46	0.36	3.83	7.93
		Sensitivity Test - Higher Treatment Level (2c)	3.83	4.26	0.003	0.76	3	11.44	0.35	3.83	7.91
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.83	4.23	0.003	0.76	4	11.46	0.36	3.83	7.93
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.83	4.23	0.003	0.76	3	11.46	0.36	3.83	7.93
		Treated Effluent at Emergency Bypass for 12 days (6)	3.83	4.23	0.003	0.76	3	11.46	0.36	3.83	7.93
HC9	Nga Ying Kok	without the Project (2a)	3.86	4.46	0.003	0.73	10	11.22	0.40	3.84	7.92
		with the Project (2b)	3.86	4.46	0.003	0.73	10	11.21	0.40	3.84	7.91
		Sensitivity Test - Higher Treatment Level (2c)	3.88	4.48	0.003	0.73	10	11.20	0.40	3.85	7.91
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.86	4.46	0.003	0.73	10	11.21	0.40	3.84	7.91
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.86	4.46	0.003	0.73	10	11.21	0.40	3.84	7.91
		Treated Effluent at Emergency Bypass for 12 days (6)	3.87	4.46	0.003	0.73	10	11.20	0.40	3.84	7.91
HC10	Nga Ying Kok, Yi O	without the Project (2a)	3.89	4.48	0.003	0.72	15	11.49	0.43	3.88	9.18
		with the Project (2b)	3.89	4.48	0.003	0.72	14	11.48	0.42	3.88	9.17
		Sensitivity Test - Higher Treatment Level (2c)	3.90	4.50	0.003	0.72	14	11.47	0.42	3.88	9.15
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.89	4.48	0.003	0.72	14	11.48	0.42	3.88	9.17
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.89	4.48	0.003	0.72	14	11.48	0.42	3.88	9.17
		Treated Effluent at Emergency Bypass for 12 days (6)	3.89	4.48	0.003	0.72	14	11.47	0.42	3.88	9.17
HC11	Nga Ying Kok, Yi O	without the Project (2a)	3.98	4.60	0.004	0.70	24	10.92	0.46	3.96	8.98
		with the Project (2b)	3.98	4.61	0.004	0.70	23	10.91	0.46	3.96	8.97
		Sensitivity Test - Higher Treatment Level (2c)	4.01	4.62	0.004	0.70	23	10.90	0.46	3.97	8.96
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.98	4.61	0.004	0.70	23	10.91	0.46	3.96	8.97
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.98	4.61	0.004	0.70	23	10.91	0.46	3.96	8.97
		Treated Effluent at Emergency Bypass for 12 days (6)	3.98	4.61	0.004	0.70	23	10.91	0.46	3.96	8.97
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)	0.52	1.20	0.170	2.53	2000	53.50	9.20	0.33	0.00
		with the Project (2b)	0.52	1.20	0.170	2.53	2000	53.49	9.20	0.33	0.00
		Sensitivity Test - Higher Treatment Level (2c)	0.52	1.20	0.170	2.53	2000	53.47	9.20	0.33	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	0.52	1.20	0.170	2.53	2000	53.49	9.20	0.33	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	0.52	1.20	0.170	2.53	2000	53.49	9.20	0.33	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	0.52	1.20	0.170	2.53	1989	53.48	9.20	0.33	0.00
MG3	Tsim Bei Tsui	without the Project (2a)	1.69	2.36	0.115	2.01	2008	41.25	5.68	1.68	0.00
		with the Project (2b)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Sensitivity Test - Higher Treatment Level (2c)	1.69	2.36	0.115	2.00	2008	41.22	5.68	1.68	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	1.69	2.36	0.115	2.01	2008	41.23	5.68	1.68	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	1.69	2.36	0.115	2.01	1995	41.23	5.68	1.68	0.00
MG4	Sheung Pak Nai	without the Project (2a)	3.82	3.97	0.023	1.07	20174	23.36	3.05	3.65	0.00
		with the Project (2b)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Sensitivity Test - Higher Treatment Level (2c)	3.82	3.99	0.022	1.07	20171	23.33	3.05	3.76	0.00
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.82	3.97	0.023	1.07	20173	23.35	3.05	3.66	0.00
		Treated Effluent at Emergency Bypass for 12 days (6)	3.82	3.97	0.023	1.07	20115	23.34	3.05	3.66	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)	3.91	4.53	0.003	0.73	6	9.51	0.36	3.85	1.41
		with the Project (2b)	3.92	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Sensitivity Test - Higher Treatment Level (2c)	3.94	4.58	0.003	0.72	5	9.46	0.36	3.87	1.40
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.92	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.91	4.54	0.003	0.73	5	9.48	0.36	3.86	1.41
		Treated Effluent at Emergency Bypass for 12 days (6)	3.92	4.55	0.003	0.73	5	9.48	0.36	3.86	1.41
MG6	San Tau	without the Project (2a)	3.89	4.53	0.004	0.71	481	10.92	0.64	3.85	0.62
		with the Project (2b)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Sensitivity Test - Higher Treatment Level (2c)	3.91	4.57	0.004	0.71	481	10.87	0.64	3.86	0.62
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	3.90	4.53	0.004	0.71	481	10.89	0.64	3.85	0.62
		Treated Effluent at Emergency Bypass for 12 days (6)	3.90	4.55	0.004	0.71	478	10.90	0.65	3.86	0.62
MG7	Yi O	without the Project (2a)	4.02	4.55	0.003	0.73	4	10.34	0.38	3.84	4.64
		with the Project (2b)	4.04	4.56	0.003	0.73	4	10.33	0.38	3.84	4.63
		Sensitivity Test - Higher Treatment Level (2c)	4.18	4.58	0.003	0.73	4	10.32	0.38	3.84	4.63
		Untreated Effluent at Twins Outfall for 6 hrs (4a)	4.04	4.56	0.003	0.73	4	10.33	0.38	3.84	4.63
		Untreated Effluent at Emergency Bypass for 6 hrs (4b)	4.04	4.56	0.003	0.73	4	10.33	0.38	3.84	4.63
		Treated Effluent at Emergency Bypass for 12 days (6)	4.04	4.56	0.003	0.73	4	10.33	0.38	3.84	4.63

Remarks:

N/A: Not Available