Appendix 5.05 - Water Quality Modelling Results for Seawater Intakes - Annual

Note: Shaded and Bolded - value exceeded the WSD criteria; N/A - Not Available
*These represent the maximum values over the entire 1-year simulation period. The actual levels would be lower than these maximum values for most of the times, refer to the contour plots and time series plots in Appendices 5.04a-e.

ID (Ref: Figure 5.03)	Indicator Point	Scenario	Mid-Depth Maximum * UIA (mg/L)	*E.coli* (no./100mL)	NH_3-N (mg/L)	SS (mg/L)	BOD_5 (mg/L)	Minimum DO (mg/L)
WSD Seawater Intakes								
Assessment Criteria			N/A	≤ 20,000	≤ 1	≤ 10	≤ 10	≥ 2
W1	Sha Tin	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0.017	1,474	0.339	**11.1**	**12.2**	4.9
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0.012	1,447	0.242	**10.2**	9.1	5.2
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0.042	1,472	**1.094**	**10.7**	**15.9**	4.7
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0.029	1,447	0.314	**11.2**	9.1	5.1
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0.033	**27,020**	0.464	**10.3**	9.1	4.4
W2	Tai Po	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0.019	1,108	0.202	9.9	**10.5**	5.1
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0.019	1,087	0.200	9.3	8.5	5.3
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0.019	1,128	0.348	**10.8**	**20.3**	4.9
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0.036	1,087	0.385	**10.7**	8.5	5.3
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0.019	1,089	0.201	9.5	8.7	5.3
Other Cooling Water / Seawater Intakes								
Assessment Criteria			N/A	N/A	N/A	N/A	N/A	N/A
C1	CUHK Marine Science Laboratory	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0.012	615	0.236	11.8	9.5	5.1
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0.008	605	0.155	11.4	6.8	5.3
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0.024	616	0.662	11.7	14.1	4.9
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0.026	605	0.274	11.4	7.2	5.3
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0.010	16,990	0.258	11.5	6.8	5.3

Appendix 5.05 - Water Quality Modelling Results for Ecological Resources, Typhoon Shelter and Bathing Beach - Annual

Note: Shaded and Bolded - value exceeded the assessment criteria; N/A - Not Available
*These represent the maximum values over the entire 1-year simulation period. The actual levels would be lower than these maximum values for most of the times, refer to the contour plots and time series plots in Appendices 5.04a-e.

ID (Ref: Figure 5.03)	Indicator Point	Scenario	Bottom		Middle	Surface	Depth Averaged				All Depth Max *
			Max * Sedimentation ($g/m^2/d$)	Min DO (mg/L)	Min DO (mg/L)	Min DO (mg/L)	Mean UIA (mg/L)	Mean TIN (mg/L)	Mean SS (mg/L)	G.Mean *E.coli* (no./100mL)	max 5-day moving average Chlorophyll-*a* (µg/L)
Ecological Resources (Fish Culture Zone)											
Assessment Criteria (for Harbour Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 2	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 20
F1	Yim Tin Tsai	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	51	4.9	5.0	5.4	0.004	0.08	2.8	7	**36**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	50	5.0	5.2	5.5	0.004	0.08	2.7	7	**25**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	50	4.9	5.2	5.5	0.004	0.09	2.9	7	**79**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	53	5.0	5.1	5.4	0.004	0.08	2.8	7	**49**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	51	5.0	5.2	5.5	0.004	0.08	2.7	7	**25**
Assessment Criteria (for Buffer Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 3	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 10
F2	Yim Tin Tsai (East)	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	14	5.8	5.8	5.8	0.002	0.04	1.9	1	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	14	5.7	5.8	5.8	0.003	0.05	1.8	1	**18**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	14	5.7	5.8	5.8	0.002	0.05	1.9	1	**30**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	14	5.7	5.7	5.7	0.003	0.05	1.8	1	**19**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	14	5.7	5.8	5.8	0.003	0.05	1.8	1	**18**
Assessment Criteria (for Channel Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 4	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 6
F3	Yung Shue Au	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	19	5.3	5.4	5.7	0.002	0.04	1.5	1	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	18	5.4	5.5	5.8	0.002	0.05	1.5	1	**16**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	18	5.4	5.5	5.8	0.002	0.05	1.5	1	**28**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	19	5.3	5.5	5.8	0.002	0.05	1.5	1	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	19	5.4	5.5	5.8	0.002	0.05	1.5	1	**16**
F4	Lo Fu Wat	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**18**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**12**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**22**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	11	4.9	5.6	5.8	0.002	0.06	0.9	1	**12**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**12**
Ecological Resources (Corals)											
Assessment Criteria (for Harbour Subzone in Tolo Harbour & Channel WCZ)			≤ 100	≥ 2	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 20
CR1	Tai Po Industrial Estate	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	55	4.6	4.9	5.4	0.004	0.10	3.3	7	**47**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	53	4.9	5.1	5.5	0.004	0.09	3.1	7	**38**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	55	4.4	4.8	5.3	0.004	0.12	3.4	7	**115**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	53	4.8	5.1	5.5	0.004	0.10	3.3	7	**57**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	53	4.9	5.1	5.5	0.004	0.09	3.2	7	**39**
CR15	Science Park	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	31	4.6	5.0	5.5	0.003	0.09	2.7	3	**41**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	30	4.9	5.3	5.6	0.003	0.08	2.5	3	**27**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	31	4.5	4.7	5.4	0.003	0.10	2.7	3	**81**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	36	4.8	5.3	5.6	0.003	0.08	2.6	3	**33**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	30	4.9	5.3	5.6	0.003	0.08	2.5	3	**27**
CR16	Sha Tin Hoi North	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	20	4.8	5.2	5.1	0.004	0.12	2.8	176	**46**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	19	5.0	5.4	5.1	0.003	0.08	2.6	172	**30**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	19	4.6	5.0	5.1	0.004	0.14	2.8	174	**81**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	23	5.0	5.3	5.1	0.004	0.09	2.7	174	**33**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	19	5.0	4.7	5.1	0.003	0.09	2.6	175	**30**
CR17	Sha Tin Hoi South	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	21	4.9	5.1	5.2	0.005	0.17	3.6	572	**54**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	19	5.1	5.3	5.2	0.004	0.10	3.2	562	**35**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	20	4.8	4.9	5.1	0.006	0.21	3.5	567	**90**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	22	5.0	5.3	5.2	0.004	0.11	3.3	565	**45**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	19	4.8	4.2	5.0	0.004	0.10	3.3	570	**35**
Assessment Criteria (for Buffer Subzone in Tolo Harbour & Channel WCZ)			≤ 100	≥ 3	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 10
CR2	Yeung Chau	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	11	5.6	5.7	5.7	0.002	0.04	1.8	7	**22**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	11	5.6	5.7	5.8	0.002	0.05	1.7	6	**16**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	11	5.5	5.7	5.6	0.002	0.05	1.8	7	**29**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	12	5.5	5.7	5.7	0.002	0.05	1.8	7	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	11	5.6	5.7	5.8	0.002	0.05	1.7	6	**16**
CR3	Tai Mei Tuk	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	28	5.3	5.7	5.8	0.002	0.05	1.7	3	**21**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	27	5.3	5.7	5.8	0.003	0.06	1.6	3	**16**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	28	5.3	5.7	5.8	0.003	0.06	1.6	3	**30**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	30	5.3	5.6	5.8	0.002	0.06	1.6	3	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	27	5.3	5.7	5.8	0.003	0.06	1.6	3	**16**
CR4	Ma Shi Chau North	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	14	5.1	5.7	5.9	0.003	0.06	1.5	1	**22**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	14	5.1	5.8	5.8	0.003	0.06	1.4	1	**15**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	14	5.1	5.6	5.8	0.003	0.06	1.5	1	**33**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	16	5.2	5.7	5.8	0.003	0.06	1.4	1	**17**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	14	5.1	5.8	5.8	0.003	0.06	1.4	1	**15**
CR5	Pak Sha Tau	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	15	4.7	5.1	5.8	0.003	0.08	1.1	1	**22**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	15	4.7	5.1	5.8	0.003	0.08	1.1	1	**14**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	15	4.7	5.1	5.8	0.003	0.08	1.1	1	**34**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	15	4.7	5.1	5.8	0.003	0.08	1.1	1	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	15	4.7	5.1	5.8	0.003	0.08	1.1	1	**14**
CR6	Whitehead Peninsula	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	16	4.8	5.5	5.7	0.003	0.08	1.9	50	**28**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	16	4.8	5.7	5.8	0.003	0.08	1.8	49	**17**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	16	4.7	5.3	5.5	0.003	0.09	1.9	49	**54**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	18	4.9	5.7	5.8	0.003	0.08	1.8	49	**37**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	16	4.8	5.6	5.8	0.003	0.08	1.8	49	**18**

Appendix 5.05 - Water Quality Modelling Results for Ecological Resources, Typhoon Shelter and Bathing Beach - Annual

Note: Shaded and Bolded - value exceeded the assessment criteria; N/A - Not Available
*These represent the maximum values over the entire 1-year simulation period. The actual levels would be lower than these maximum values for most of the times, refer to the contour plots and time series plots in Appendices 5.04a-e.

ID (Ref: Figure 5.03)	Indicator Point	Scenario	Bottom		Middle	Surface	Depth Averaged				All Depth Max *
			Max * Sedimentation ($g/m^2/d$)	Min DO (mg/L)	Min DO (mg/L)	Min DO (mg/L)	Mean UIA (mg/L)	Mean TIN (mg/L)	Mean SS (mg/L)	G.Mean *E.coli* (no./100mL)	max 5-day moving average Chlorophyll-*a* (µg/L)
Ecological Resources (Corals)											
Assessment Criteria (for Channel Subzone in Tolo Harbour & Channel WCZ)			≤ 100	≥ 4	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 6
CR7	Wong Wan Tsui	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	9	4.5	4.7	5.9	0.003	0.08	0.8	1	**15**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	9	4.5	4.7	5.9	0.003	0.08	0.7	1	**10**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	9	4.5	4.7	5.9	0.003	0.08	0.8	1	**18**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	9	4.5	4.8	5.9	0.003	0.08	0.7	1	**12**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	9	4.5	4.7	5.9	0.003	0.08	0.7	1	**10**
CR8	Fung Wong Wat	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	8	4.7	5.3	5.9	0.002	0.07	0.6	1	**14**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	8	4.7	5.3	5.9	0.002	0.07	0.6	1	**10**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	8	4.7	5.3	5.9	0.002	0.07	0.6	1	**17**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	8	4.7	5.4	5.9	0.002	0.07	0.6	1	**10**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	8	4.7	5.3	5.9	0.002	0.07	0.6	1	**10**
CR9	Gruff Head	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	11	4.3	4.6	5.8	0.003	0.07	0.7	1	**13**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	11	4.4	4.6	5.8	0.003	0.07	0.7	1	**9**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	11	4.3	4.6	5.8	0.003	0.07	0.7	1	**15**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	11	4.3	4.6	5.8	0.003	0.07	0.7	1	**11**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	11	4.3	4.6	5.8	0.003	0.07	0.7	1	**9**
CR10	South Wong Chuk Kok Tsui	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	7	4.6	5.1	5.7	0.002	0.06	0.6	1	**12**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	7	4.6	5.1	5.7	0.002	0.07	0.6	1	**9**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	7	4.6	5.1	5.7	0.002	0.07	0.6	1	**14**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	7	4.6	5.1	5.7	0.002	0.06	0.6	1	**10**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	7	4.6	5.1	5.7	0.002	0.07	0.6	1	**9**
CR11	Wong Chuk Kok Tsui	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	10	4.2	4.7	5.5	0.002	0.06	0.5	1	**9**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	10	4.2	4.7	5.5	0.002	0.06	0.5	1	**8**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	10	4.2	4.7	5.5	0.002	0.06	0.5	1	**11**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	10	4.2	4.7	5.5	0.002	0.06	0.5	1	**8**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	10	4.2	4.7	5.5	0.002	0.06	0.5	1	**8**
CR12	Hoi Ha Wan Moon Island	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	17	4.8	5.5	5.8	0.002	0.06	0.6	1	**10**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	16	4.8	5.5	5.8	0.002	0.06	0.6	1	**9**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	17	4.8	5.5	5.8	0.002	0.06	0.6	1	**12**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	17	4.8	5.6	5.8	0.002	0.06	0.6	1	**9**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	17	4.8	5.5	5.8	0.002	0.06	0.6	1	**9**
CR13	Hoi Ha Wan Coral Beach	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	19	5.0	5.6	6.0	0.002	0.05	0.6	1	**11**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	19	5.0	5.6	6.0	0.002	0.05	0.6	1	**10**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	19	5.0	5.6	6.0	0.002	0.05	0.6	1	**12**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	19	5.0	5.6	6.0	0.002	0.05	0.6	1	**10**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	19	5.0	5.6	6.0	0.002	0.05	0.6	1	**10**
CR14	Hoi Ha Wan Pier	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	25	5.0	5.4	5.8	0.002	0.04	0.8	1	**12**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	25	5.0	5.4	5.8	0.002	0.04	0.8	1	**10**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	25	5.0	5.4	5.8	0.002	0.04	0.8	1	**12**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	25	5.0	5.4	5.8	0.002	0.04	0.8	1	**10**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	25	5.0	5.4	5.8	0.002	0.04	0.8	1	**10**
Ecological Resources (Mangroves / Site of Special Scientific Interest)											
Assessment Criteria (for Harbour Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 2	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 20
M1	Tolo Pond	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	33	3.9	**3.4**	**1.5**	0.003	0.08	4.4	**806**	**64**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	32	4.0	**3.5**	**1.5**	0.003	0.08	4.2	**787**	**58**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	32	3.9	**3.2**	**1.5**	0.003	0.11	4.4	**803**	**159**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	33	4.0	**3.5**	**1.5**	0.003	0.08	4.3	**792**	**58**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	32	4.0	**3.5**	**1.5**	0.003	0.08	4.2	**787**	**62**
Assessment Criteria (for Buffer Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 3	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 10
M2	Sam Mun Tsai	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	3	5.8	5.8	5.4	0.001	0.03	2.0	1	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	2	5.8	5.8	5.2	0.002	0.04	1.9	1	**18**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	2	5.8	5.8	5.5	0.002	0.04	2.0	1	**30**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	2	5.8	5.8	5.2	0.002	0.04	2.0	1	**18**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	2	5.8	5.8	5.2	0.002	0.04	1.9	1	**18**
M3	Shuen Wan	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	2	4.7	4.7	4.7	0.002	0.03	2.1	64	**24**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	2	4.8	4.8	4.8	0.002	0.04	2.1	63	**19**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	2	4.6	4.7	4.7	0.002	0.04	2.1	64	**31**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	2	4.8	4.8	4.8	0.002	0.04	2.1	63	**19**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	2	4.8	4.8	4.8	0.002	0.04	2.1	63	**19**
M4	Ting Kok	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0	5.1	5.1	5.1	0.001	0.02	2.3	124	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0	5.1	5.1	5.1	0.002	0.04	2.2	122	**19**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0	5.1	5.1	5.1	0.002	0.03	2.2	123	**35**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0	5.2	5.2	5.1	0.002	0.04	2.2	123	**20**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0	5.1	5.1	5.1	0.002	0.04	2.2	122	**19**
M6	Nai Chung	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0	5.7	5.7	5.7	0.002	0.06	1.3	2	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0	5.7	5.7	5.7	0.002	0.06	1.2	2	**15**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0	5.7	5.7	5.7	0.002	0.06	1.2	2	**32**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0	5.7	5.7	5.7	0.002	0.06	1.2	2	**19**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0	5.7	5.7	5.7	0.002	0.06	1.2	2	**15**
S1	Ting Kok	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	3	5.5	5.5	5.4	0.001	0.03	2.1	51	**24**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	3	5.5	5.5	5.5	0.002	0.04	2.1	50	**18**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	3	5.4	5.4	5.3	0.002	0.04	2.1	51	**31**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	3	5.5	5.5	5.5	0.002	0.04	2.1	50	**18**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	3	5.5	5.5	5.5	0.002	0.04	2.1	50	**18**

Appendix 5.05 - Water Quality Modelling Results for Ecological Resources, Typhoon Shelter and Bathing Beach - Annual

Note: Shaded and Bolded - value exceeded the assessment criteria; N/A - Not Available
*These represent the maximum values over the entire 1-year simulation period. The actual levels would be lower than these maximum values for most of the times, refer to the contour plots and time series plots in Appendices 5.04a-e.

ID (Ref: Figure 5.03)	Indicator Point	Scenario	Bottom		Middle	Surface	Depth Averaged				All Depth Max *
			Max * Sedimentation ($g/m^2/d$)	Min DO (mg/L)	Min DO (mg/L)	Min DO (mg/L)	Mean UIA (mg/L)	Mean TIN (mg/L)	Mean SS (mg/L)	G.Mean *E.coli* (no./100mL)	max 5-day moving average Chlorophyll-*a* (µg/L)
Ecological Resources (Mangroves / Site of Special Scientific Interest)											
Assessment Criteria (for Channel Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 4	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 6
M5	Lo Fu Wat	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**18**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**12**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**22**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	11	4.9	5.6	5.8	0.002	0.06	0.9	1	**12**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	11	4.8	5.6	5.8	0.002	0.06	0.9	1	**12**
M7	Sai Keng	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	2	5.9	5.9	5.9	0.001	0.02	1.7	2	**26**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	2	5.9	5.9	5.9	0.002	0.04	1.7	2	**19**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	2	5.9	5.9	5.9	0.001	0.03	1.7	2	**36**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	2	5.9	5.9	5.9	0.001	0.03	1.7	2	**20**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	2	5.9	5.9	5.9	0.002	0.04	1.7	2	**19**
M8	Kei Ling Ha Lo Wai	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	0	5.3	5.3	5.3	0.001	0.02	1.8	1	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	0	5.3	5.3	5.3	0.001	0.03	1.7	1	**20**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	0	5.3	5.3	5.3	0.001	0.02	1.8	1	**38**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	0	5.4	5.4	5.3	0.001	0.03	1.8	1	**20**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	0	5.3	5.3	5.3	0.001	0.03	1.7	1	**20**
M9	Kei Ling Ha Hoi	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	3	5.7	6.0	5.7	0.002	0.04	1.5	1	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	3	5.7	5.9	5.7	0.002	0.05	1.5	1	**16**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	3	5.7	5.9	5.7	0.002	0.04	1.5	1	**29**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	3	5.7	5.9	5.7	0.002	0.04	1.5	1	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	3	5.7	5.9	5.7	0.002	0.05	1.5	1	**16**
M10	Sham Chung	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	19	5.2	5.7	5.9	0.002	0.06	1.2	1	**21**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	19	5.2	5.7	5.8	0.002	0.06	1.2	1	**14**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	19	5.2	5.7	5.8	0.002	0.06	1.2	1	**27**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	20	5.2	5.7	5.9	0.002	0.06	1.2	1	**14**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	19	5.2	5.7	5.8	0.002	0.06	1.2	1	**14**
M11	Lai Chi Chong	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	8	5.2	5.7	6.0	0.002	0.06	0.8	1	**17**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	7	5.2	5.7	5.9	0.002	0.06	0.8	1	**12**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	8	5.2	5.7	5.9	0.002	0.06	0.8	1	**19**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	7	5.2	5.7	5.9	0.002	0.06	0.8	1	**12**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	7	5.2	5.7	5.9	0.002	0.06	0.8	1	**12**
M12	Fung Wong Wat	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	10	4.7	5.4	6.0	0.002	0.07	0.6	1	**14**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	10	4.7	5.4	6.0	0.002	0.07	0.6	1	**11**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	10	4.7	5.4	6.0	0.002	0.07	0.6	1	**18**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	10	4.7	5.4	6.0	0.002	0.07	0.6	1	**11**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	10	4.7	5.4	6.0	0.002	0.07	0.6	1	**11**
S2	Kei Ling Ha Mangal	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	6	5.6	5.8	5.8	0.002	0.04	1.5	12	**26**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	6	5.7	5.8	5.8	0.002	0.05	1.5	12	**17**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	6	5.7	5.8	5.8	0.002	0.04	1.5	12	**30**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	6	5.7	5.8	5.8	0.002	0.05	1.5	12	**18**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	6	5.7	5.8	5.8	0.002	0.05	1.5	12	**17**
S3	Hoi Ha Wan	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	11	4.5	5.1	5.7	0.002	0.06	0.7	1	**11**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	11	4.6	5.1	5.7	0.002	0.06	0.6	1	**9**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	11	4.5	5.1	5.7	0.002	0.06	0.7	1	**13**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	11	4.5	5.1	5.7	0.002	0.06	0.7	1	**9**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	11	4.5	5.1	5.7	0.002	0.07	0.7	1	**9**
Typhoon Shelter											
Assessment Criteria (for Harbour Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 2	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 20
TS1	Shuen Wan	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	63	5.4	5.8	5.9	0.002	0.05	3.0	172	**37**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	61	5.5	5.9	5.9	0.002	0.05	2.9	169	**27**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	62	5.2	5.6	5.9	0.002	0.06	3.1	172	**80**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	65	5.5	5.8	5.9	0.002	0.05	3.0	171	**41**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	62	5.5	5.9	5.9	0.002	0.06	2.9	169	**27**
Beaches											
Assessment Criteria (for Buffer Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 3	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 10
B1	Lung Mei	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	21	5.6	5.7	5.8	0.002	0.05	1.6	5	**21**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	20	5.6	5.7	5.8	0.002	0.06	1.6	4	**16**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	20	5.5	5.7	5.8	0.002	0.06	1.6	5	**30**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	22	5.5	5.7	5.8	0.002	0.05	1.6	5	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	20	5.6	5.7	5.8	0.002	0.06	1.6	4	**16**

Appendix 5.05 - Water Quality Modelling Results for EPD Routine Monitoring Station - Annual

Note: Shaded and Bolded - value exceeded the WQOs; N/A - Not Available
*These represent the maximum values over the entire 1-year simulation period. The actual levels would be lower than these maximum values for most of the times, refer to the contour plots and time series plots in Appendices 5.04a-e.

ID (Ref: Figure 5.03)	Indicator Point	Scenario	Bottom		Middle	Surface	Depth Averaged				All Depth Max * max 5-day moving average
			Max * Sedimentation ($g/m^2/d$)	Min DO (mg/L)	Min DO (mg/L)	Min DO (mg/L)	Mean UIA (mg/L)	Mean TIN (mg/L)	Mean SS (mg/L)	G.Mean *E.coli* (no./100mL)	Chlorophyll-*a* (µg/L)
EPD Routine Monitoring Station											
Assessment Criteria (for Harbour Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 2	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 20
TM2	EPD Routine Monitoring Station - TM2	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	17	4.9	5.0	4.3	0.005	0.18	4.3	136	**59**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	15	5.2	5.0	4.3	0.004	0.10	3.8	131	**39**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	15	4.7	4.8	4.3	0.006	0.22	4.2	134	**96**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	18	5.2	5.0	4.3	0.005	0.12	4.0	133	**51**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	15	4.4	4.4	4.3	0.004	0.11	3.9	135	**42**
TM3	EPD Routine Monitoring Station - TM3	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	24	4.7	5.2	5.8	0.003	0.08	2.6	2	**39**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	23	4.9	5.3	5.8	0.003	0.08	2.4	2	**28**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	23	4.4	5.1	5.7	0.004	0.10	2.6	2	**89**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	27	4.9	5.3	5.8	0.003	0.08	2.5	2	**50**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	23	4.9	5.3	5.8	0.003	0.08	2.4	2	**29**
TM4	EPD Routine Monitoring Station - TM4	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	18	4.8	5.4	5.4	0.003	0.09	2.2	6	**34**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	17	5.0	5.4	5.4	0.003	0.08	2.0	6	**22**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	17	4.4	5.2	5.4	0.004	0.10	2.2	6	**69**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	20	5.0	5.4	5.4	0.003	0.08	2.1	6	**33**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	17	5.0	5.4	5.4	0.003	0.08	2.1	6	**22**
Assessment Criteria (for Buffer Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 3	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 10
TM5	EPD Routine Monitoring Station - TM5	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	16	5.7	5.8	5.8	0.002	0.04	1.8	1	**23**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	16	5.7	5.8	5.8	0.002	0.05	1.7	1	**17**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	16	5.6	5.8	5.8	0.002	0.05	1.8	1	**28**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	17	5.7	5.7	5.7	0.002	0.05	1.7	1	**17**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	16	5.7	5.8	5.8	0.002	0.05	1.7	1	**17**
TM6	EPD Routine Monitoring Station - TM6	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	16	4.6	5.3	5.8	0.003	0.08	1.3	2	**25**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	15	4.7	5.2	5.8	0.003	0.08	1.3	2	**15**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	16	4.6	5.1	5.8	0.003	0.09	1.3	2	**43**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	16	4.7	5.4	5.8	0.003	0.08	1.3	2	**23**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	15	4.7	5.2	5.8	0.003	0.08	1.3	2	**15**
Assessment Criteria (for Channel Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 4	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 6
TM7	EPD Routine Monitoring Station - TM7	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	12	4.7	5.4	5.8	0.003	0.08	1.0	1	**21**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	12	4.7	5.4	5.8	0.003	0.08	1.0	1	**14**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	12	4.7	5.4	5.8	0.003	0.08	1.0	1	**26**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	13	4.7	5.5	5.8	0.003	0.08	1.0	1	**16**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	12	4.7	5.4	5.8	0.003	0.08	1.0	1	**14**
Assessment Criteria (for Channel Subzone in Tolo Harbour & Channel WCZ)			N/A	≥ 4	≥ 4	≥ 4	N/A	N/A	N/A	≤ 610	≤ 6
TM8	EPD Routine Monitoring Station - TM8	Scenario 4 – UDS "Without Project" Condition (Normal Operation with Overflow at TPSTW and Existing STSTW)	9	4.5	4.9	5.9	0.003	0.08	0.8	1	**15**
		Scenario 5 – UDS "With Project" Condition (Normal Operation with Overflow at TPSTW Only)	9	4.5	4.9	5.8	0.003	0.08	0.7	1	**10**
		Scenario 6a – UDS THEES Maintenance Discharge from TPSTW and STSTW (following Existing Practice)	9	4.5	4.9	5.9	0.003	0.08	0.8	1	**18**
		Scenario 6b – UDS THEES Maintenance Discharge from TPSTW and STSTW (outside Algae Blooming Season)	9	4.5	4.9	5.8	0.003	0.08	0.8	1	**12**
		Scenario 7 – UDS Emergency Sewage Discharge from STSTW	9	4.5	4.9	5.8	0.003	0.08	0.7	1	**10**