

Appendix 5-5 *E. coli* Results at Indicator Points - Normal Operation - 2009

Note: Shaded and bolded - value exceeded the WQO

ID	Indicator Point	Scenario	Dry Season		Wet Season	
			Geometric Mean Level (no./100mL)	Maximum Level (no./100mL)	Geometric Mean Level (no./100mL)	Maximum Level (no./100mL)
Artificial Reefs [Depth-averaged results]						
AR1	Airport	HATS Stage 1 w/o Disinfection (Scenario 1a)	124	435	158	574
		HATS Stage 1 with Disinfection (Scenario 1b)	113	426	136	554
AR2	Sha Chau and Lung Kwu Chau	HATS Stage 1 w/o Disinfection (Scenario 1a)	156	566	305	799
		HATS Stage 1 with Disinfection (Scenario 1b)	155	565	301	792
WSD Flushing Water Intakes [Results at mid-depth] (WQO = 20,000 no./100mL at any time)						
WSD1	Near Butterfly Beach	HATS Stage 1 w/o Disinfection (Scenario 1a)	335	694	699	1,562
		HATS Stage 1 with Disinfection (Scenario 1b)	300	685	631	1,522
WSD2	Near LRT Terminus	HATS Stage 1 w/o Disinfection (Scenario 1a)	5,370	9,558	2,813	8,084
		HATS Stage 1 with Disinfection (Scenario 1b)	5,360	9,557	2,783	8,083
WSD3	Near Hong Kong Garden	HATS Stage 1 w/o Disinfection (Scenario 1a)	590	2,104	867	2,765
		HATS Stage 1 with Disinfection (Scenario 1b)	160	497	373	1,076
WSD4	Tsuen Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,158	3,372	1,151	3,935
		HATS Stage 1 with Disinfection (Scenario 1b)	962	3,343	880	3,890
WSD5	Tsing Yi	HATS Stage 1 w/o Disinfection (Scenario 1a)	2,394	9,079	1,292	5,926
		HATS Stage 1 with Disinfection (Scenario 1b)	1,968	8,918	608	5,713

WSD6	Cheung Sha Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	3,124	14,422	9,018	40,511
		HATS Stage 1 with Disinfection (Scenario 1b)	3,116	14,412	8,267	40,219
WSD7	Kowloon South	HATS Stage 1 w/o Disinfection (Scenario 1a)	4,765	7,258	5,006	10,412
		HATS Stage 1 with Disinfection (Scenario 1b)	4,361	6,943	2,024	8,586
WSD8	Yau Ma Tei	HATS Stage 1 w/o Disinfection (Scenario 1a)	2,779	9,645	4,915	13,925
		HATS Stage 1 with Disinfection (Scenario 1b)	1,937	3,833	1,624	4,670
WSD9	Tai Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,787	5,840	4,255	9,440
		HATS Stage 1 with Disinfection (Scenario 1b)	1,746	5,107	3,830	8,284
WSD10	Cha Kwo Ling	HATS Stage 1 w/o Disinfection (Scenario 1a)	437	1,214	1,963	5,544
		HATS Stage 1 with Disinfection (Scenario 1b)	434	1,214	1,800	4,337
WSD11	Yau Tong	HATS Stage 1 w/o Disinfection (Scenario 1a)	331	1,290	1,575	5,868
		HATS Stage 1 with Disinfection (Scenario 1b)	328	1,245	1,457	4,764
WSD12	Tseung Kwan O	HATS Stage 1 w/o Disinfection (Scenario 1a)	24	152	442	1,477
		HATS Stage 1 with Disinfection (Scenario 1b)	24	152	423	1,385
WSD13	Siu Sai Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	2,282	3,941	2,916	7,472
		HATS Stage 1 with Disinfection (Scenario 1b)	2,281	3,941	2,857	7,448
WSD14	Heng Fa Chuen	HATS Stage 1 w/o Disinfection (Scenario 1a)	518	2,500	1,051	6,682
		HATS Stage 1 with Disinfection (Scenario 1b)	516	2,477	1,003	5,943
WSD15	Sai Wan Ho	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,654	5,523	3,197	11,472
		HATS Stage 1 with Disinfection (Scenario 1b)	1,644	5,332	3,035	11,332
WSD16	Quarry Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	2,925	6,723	5,123	18,203
		HATS Stage 1 with Disinfection (Scenario 1b)	2,905	6,444	4,868	18,109

WSD17	North Point	HATS Stage 1 w/o Disinfection (Scenario 1a)	2,033	9,091	6,118	43,532
		HATS Stage 1 with Disinfection (Scenario 1b)	2,010	8,975	5,793	43,442
WSD18	Central Water Front	HATS Stage 1 w/o Disinfection (Scenario 1a)	5,847	21,113	6,361	21,381
		HATS Stage 1 with Disinfection (Scenario 1b)	4,243	7,207	3,613	8,805
WSD19	Sheung Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	8,354	21,659	4,861	29,493
		HATS Stage 1 with Disinfection (Scenario 1b)	5,842	10,201	1,965	22,596
WSD20	Kennedy Town	HATS Stage 1 w/o Disinfection (Scenario 1a)	5,726	27,403	1,582	14,615
		HATS Stage 1 with Disinfection (Scenario 1b)	1,519	3,236	556	3,155
WSD21	Ap Lei Chau	HATS Stage 1 w/o Disinfection (Scenario 1a)	682	7,852	57	4,106
		HATS Stage 1 with Disinfection (Scenario 1b)	663	7,849	54	4,056
Fish Culture Zones [Depth-averaged results] (WQO = 610 no./100mL for Geometric Mean)						
F1	Tung Lung Chau	HATS Stage 1 w/o Disinfection (Scenario 1a)	7	19	197	957
		HATS Stage 1 with Disinfection (Scenario 1b)	7	19	187	889
F2	Po Toi	HATS Stage 1 w/o Disinfection (Scenario 1a)	2	4	4	25
		HATS Stage 1 with Disinfection (Scenario 1b)	2	4	3	18
F3	Sok Kwu Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	4	23	27	78
		HATS Stage 1 with Disinfection (Scenario 1b)	3	11	20	55
F4	Lo Tik Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	5	59	56	253
		HATS Stage 1 with Disinfection (Scenario 1b)	2	21	28	80
F5	Ma Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	324	797	509	1,327
		HATS Stage 1 with Disinfection (Scenario 1b)	90	663	171	837
F6	Cheung Sha Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	14	33	27	54

		HATS Stage 1 with Disinfection (Scenario 1b)	12	33	24	52
Gazetted Beaches [Depth-averaged results] (WQO = 180 no./100mL for Geometric Mean)						
B1	Butterfly	HATS Stage 1 w/o Disinfection (Scenario 1a)	447	962	760	1,632
		HATS Stage 1 with Disinfection (Scenario 1b)	414	952	710	1,623
B2	Castle Peak	HATS Stage 1 w/o Disinfection (Scenario 1a)	707	1,463	721	1,817
		HATS Stage 1 with Disinfection (Scenario 1b)	699	1,454	694	1,756
B3	Kadoorie	HATS Stage 1 w/o Disinfection (Scenario 1a)	707	1,463	721	1,817
		HATS Stage 1 with Disinfection (Scenario 1b)	699	1,454	694	1,756
B4	Cafeteria Old	HATS Stage 1 w/o Disinfection (Scenario 1a)	506	1,067	1,162	2,276
		HATS Stage 1 with Disinfection (Scenario 1b)	483	1,033	1,110	2,261
B5	Cafeteria New	HATS Stage 1 w/o Disinfection (Scenario 1a)	506	1,067	1,162	2,276
		HATS Stage 1 with Disinfection (Scenario 1b)	483	1,033	1,110	2,261
B6	Golden Beach	HATS Stage 1 w/o Disinfection (Scenario 1a)	506	1,067	1,162	2,276
		HATS Stage 1 with Disinfection (Scenario 1b)	483	1,033	1,110	2,261
B7	Anglers'	HATS Stage 1 w/o Disinfection (Scenario 1a)	628	2,410	942	3,280
		HATS Stage 1 with Disinfection (Scenario 1b)	161	434	273	825
B8	Gemini	HATS Stage 1 w/o Disinfection (Scenario 1a)	687	2,727	1,043	3,678
		HATS Stage 1 with Disinfection (Scenario 1b)	158	535	298	997
B9	Hoi Mei Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	661	2,492	924	3,118
		HATS Stage 1 with Disinfection (Scenario 1b)	124	334	205	845
B10	Casam	HATS Stage 1 w/o Disinfection (Scenario 1a)	290	942	524	1,085
		HATS Stage 1 with Disinfection (Scenario 1b)	126	239	308	561

B11	Lido	HATS Stage 1 w/o Disinfection (Scenario 1a)	267	768	477	893
		HATS Stage 1 with Disinfection (Scenario 1b)	106	321	286	576
B12	Ting Kau	HATS Stage 1 w/o Disinfection (Scenario 1a)	306	756	458	853
		HATS Stage 1 with Disinfection (Scenario 1b)	197	500	316	652
B13	Approach	HATS Stage 1 w/o Disinfection (Scenario 1a)	589	1,964	532	1,274
		HATS Stage 1 with Disinfection (Scenario 1b)	443	1,884	244	928
B14	Tung Wan, Ma Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	221	1,212	616	2,147
		HATS Stage 1 with Disinfection (Scenario 1b)	21	105	140	364
B15	Tong Fuk	HATS Stage 1 w/o Disinfection (Scenario 1a)	291	331	191	262
		HATS Stage 1 with Disinfection (Scenario 1b)	291	331	191	262
B16	Cheung Sha Upper	HATS Stage 1 w/o Disinfection (Scenario 1a)	34	49	29	48
		HATS Stage 1 with Disinfection (Scenario 1b)	34	49	29	48
B17	Cheung Sha Lower	HATS Stage 1 w/o Disinfection (Scenario 1a)	231	261	155	253
		HATS Stage 1 with Disinfection (Scenario 1b)	231	261	155	253
B18	Pui O	HATS Stage 1 w/o Disinfection (Scenario 1a)	206	253	147	224
		HATS Stage 1 with Disinfection (Scenario 1b)	206	253	147	224
B19	Silvermine Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	9	17	118	199
		HATS Stage 1 with Disinfection (Scenario 1b)	9	17	117	199
B20	Kwun Yam Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	832	1,108	335	764
		HATS Stage 1 with Disinfection (Scenario 1b)	831	1,108	319	762
B21	Tung Wan, Cheung Chau	HATS Stage 1 w/o Disinfection (Scenario 1a)	457	762	457	770
		HATS Stage 1 with Disinfection (Scenario 1b)	457	761	450	756

B22	Lo So Shing	HATS Stage 1 w/o Disinfection (Scenario 1a)	1	3	4	33
		HATS Stage 1 with Disinfection (Scenario 1b)	1	2	2	9
B23	Hung Shing Yeh	HATS Stage 1 w/o Disinfection (Scenario 1a)	1	1	3	11
		HATS Stage 1 with Disinfection (Scenario 1b)	1	0	1	4
B24	Big Wave Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	2	13	54	143
		HATS Stage 1 with Disinfection (Scenario 1b)	2	13	52	140
B25	Rocky Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	623	801	869	1,719
		HATS Stage 1 with Disinfection (Scenario 1b)	623	801	866	1,719
B26	Shek O	HATS Stage 1 w/o Disinfection (Scenario 1a)	39	217	82	359
		HATS Stage 1 with Disinfection (Scenario 1b)	39	217	81	352
B27	Turtle Cove	HATS Stage 1 w/o Disinfection (Scenario 1a)	83	90	70	103
		HATS Stage 1 with Disinfection (Scenario 1b)	83	90	69	103
B28	Hairpin	HATS Stage 1 w/o Disinfection (Scenario 1a)	140	153	90	158
		HATS Stage 1 with Disinfection (Scenario 1b)	140	153	90	158
B29	Stanley Main	HATS Stage 1 w/o Disinfection (Scenario 1a)	140	153	90	158
		HATS Stage 1 with Disinfection (Scenario 1b)	140	153	90	158
B30	St. Stephen's	HATS Stage 1 w/o Disinfection (Scenario 1a)	28	95	37	122
		HATS Stage 1 with Disinfection (Scenario 1b)	28	95	35	121
B31	Chung Hom Kok	HATS Stage 1 w/o Disinfection (Scenario 1a)	129	198	144	543
		HATS Stage 1 with Disinfection (Scenario 1b)	129	198	139	446
B32	South Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	783	1,000	580	1,023
		HATS Stage 1 with Disinfection (Scenario 1b)	782	1,000	568	1,018

B33	Middle Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	783	1,000	580	1,023
		HATS Stage 1 with Disinfection (Scenario 1b)	782	1,000	568	1,018
B34	Repulse Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,342	1,602	1,171	1,587
		HATS Stage 1 with Disinfection (Scenario 1b)	1,342	1,602	1,160	1,584
B35	Deep Water Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	125	242	44	138
		HATS Stage 1 with Disinfection (Scenario 1b)	125	242	43	137
Marine Parks [Depth-averaged results]						
MP1	Indicator Point 1 for Sha Chau and Lung Kwu Chau Marine Park	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,431	4,907	1,346	4,454
		HATS Stage 1 with Disinfection (Scenario 1b)	1,424	4,904	1,331	4,450
MP2	Indicator Point 2 for Sha Chau and Lung Kwu Chau Marine Park	HATS Stage 1 w/o Disinfection (Scenario 1a)	291	1,036	470	1,313
		HATS Stage 1 with Disinfection (Scenario 1b)	289	1,034	463	1,302
MP3	Indicator Point 3 for Sha Chau and Lung Kwu Chau Marine Park	HATS Stage 1 w/o Disinfection (Scenario 1a)	82	391	185	626
		HATS Stage 1 with Disinfection (Scenario 1b)	82	391	183	616
MP4	Indicator Point 4 for Sha Chau and Lung Kwu Chau Marine Park	HATS Stage 1 w/o Disinfection (Scenario 1a)	289	1,206	377	1,472
		HATS Stage 1 with Disinfection (Scenario 1b)	287	1,205	373	1,471
Non - Gazetted Beaches [Depth-averaged results]						
U1	Lung Kwu Upper	HATS Stage 1 w/o Disinfection (Scenario 1a)	373	723	422	734
		HATS Stage 1 with Disinfection (Scenario 1b)	369	722	417	732
U2	Lung Kwu Lower	HATS Stage 1 w/o Disinfection (Scenario 1a)	3,292	5,744	4,441	7,417
		HATS Stage 1 with Disinfection (Scenario 1b)	3,287	5,742	4,436	7,416
U3	Discovery Bay	HATS Stage 1 w/o Disinfection (Scenario 1a)	3	13	15	45
		HATS Stage 1 with Disinfection (Scenario 1b)	2	5	4	15

U4	Tai Kwai Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	40	477	282	620
		HATS Stage 1 with Disinfection (Scenario 1b)	36	477	280	615
Seagrass Beds [Depth-averaged results]						
SG1	San Tau	HATS Stage 1 w/o Disinfection (Scenario 1a)	381	907	782	2,066
		HATS Stage 1 with Disinfection (Scenario 1b)	381	907	781	2,066
SG2	San Tau	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,936	2,257	1,953	2,669
		HATS Stage 1 with Disinfection (Scenario 1b)	1,936	2,257	1,953	2,669
SG3	San Tau	HATS Stage 1 w/o Disinfection (Scenario 1a)	1,936	2,257	1,953	2,669
		HATS Stage 1 with Disinfection (Scenario 1b)	1,936	2,257	1,953	2,669
SG4	Tai Ho Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	44	133	85	189
		HATS Stage 1 with Disinfection (Scenario 1b)	38	119	72	163
Finless Porpoises [Depth-averaged results]						
FP1	Tathong Channel	HATS Stage 1 w/o Disinfection (Scenario 1a)	1	25	25	136
		HATS Stage 1 with Disinfection (Scenario 1b)	1	25	24	129
FP2	East Lamma Channel	HATS Stage 1 w/o Disinfection (Scenario 1a)	7	392	36	432
		HATS Stage 1 with Disinfection (Scenario 1b)	7	310	30	319
Cape D'Aguilar Marine Reserve [Depth-averaged results]						
CDA1	CDA1	HATS Stage 1 w/o Disinfection (Scenario 1a)	2	4	11	118
		HATS Stage 1 with Disinfection (Scenario 1b)	2	4	11	110
CDA2	CDA2	HATS Stage 1 w/o Disinfection (Scenario 1a)	2	4	11	118
		HATS Stage 1 with Disinfection (Scenario 1b)	2	4	11	110
Site of Special Scientific Interests [Depth-averaged results]						

S1	Shek O Headland	HATS Stage 1 w/o Disinfection (Scenario 1a)	180	932	575	3,484
		HATS Stage 1 with Disinfection (Scenario 1b)	180	932	574	3,483
S2	Cape D'Aguilar - Kau Pei Chau	HATS Stage 1 w/o Disinfection (Scenario 1a)	2	4	11	118
		HATS Stage 1 with Disinfection (Scenario 1b)	2	4	11	110
Green Turtle Nesting Ground [Depth-averaged result]						
TNG1	Sham Wan	HATS Stage 1 w/o Disinfection (Scenario 1a)	1	0	1	2
		HATS Stage 1 with Disinfection (Scenario 1b)	1	0	1	1