

EPD - Beach Water Quality

Beach Water Quality in Hong Kong 2014

Our Mission:

To safeguard the health and welfare of the community and meet conservation goals by working to achieve and maintain the Water Quality Objective for bathing beaches

[Photo: Beaches in Hong Kong are popular places for both local people and tourists to enjoy their leisure time]

Introduction

Hong Kong has many beautiful and attractive beaches with white sands along its long and twisting coastline. Each year, millions of beach-goers enjoy bathing in these beaches with clean water.

The objective of the Environmental Protection Department (EPD)'s Beach Water Quality Monitoring Programme is to monitor beach water quality and protect the health of bathers. The background and details of the EPD's monitoring activities can be found at its [Hong Kong Water Quality Resource Centre \(HKWQRC\) website \(http://wqrc.epd.gov.hk\)](http://wqrc.epd.gov.hk) or its [beach water quality thematic website \(http://www.beachwq.gov.hk\)](http://www.beachwq.gov.hk).

[Photo: The beach is a perfect place for kids to play and enjoy sunshine]

This report summarises the beach monitoring data collected in 2014, the gradings of the beaches and their annual compliance with the Water Quality Objective (WQO) for bathing beaches. In 2014, the EPD monitored 41 gazetted beaches and three non-gazetted beaches in different parts of the territory. The gazetted beaches were monitored weekly during the bathing season from March to October. EPD staff made field observations and collected samples for laboratory analyses of *Escherichia coli* (*E. coli*) as the bacteriological water quality indicator. EPD staff also took measurements of dissolved oxygen, pH, salinity, temperature and turbidity of beach water.

[Photo: EPD staff monitoring beach water quality]

[Photo: Bacteriological analysis of beach water at EPD's microbiology laboratory]

Hong Kong's beaches are assessed using a dual system: annual ranking and weekly grading which are both based on the *E. coli* level in beach water to indicate potential health risks associated with swimming. The annual ranking reflects the overall water quality of the beach over the entire bathing season, while the weekly grading denotes the recent water quality of the beach. Under the dual rating system, beaches are categorised into "Good", "Fair", "Poor" and "Very Poor". Those ranked "Good" and "Fair" meet the WQO for bathing waters.

[Photo: Beach water quality grading board]

Annual Beach Ranking in 2014

All 41 gazetted beaches in Hong Kong complied with the WQO in 2014. Although the total rainfall recorded during the bathing season in 2014 (2523 mm) was 5.5% lower than that in 2013 (2671 mm), the accumulated rainfall was above normal for the same period. There were frequent heavy rainstorms in the territory from April, and the total rainfall in May was more than double the normal amount. There were occasional increases in the *E. coli* levels in beach water, which were recorded mostly for beaches in the western side of Hong Kong. The *E. coli* levels were, however, still generally within the normal range of fluctuation of their bacteriological water quality. Compared with the ranking in 2013, the number of beaches ranked as "Good" has changed from 24 (or 59 %) to 23 (or 56 %) and the number of beaches ranked as "Fair" has changed from 17 (or 41%) to 18 (or 44%). No beach was ranked as "Poor" or "Very Poor" in 2014.

[Photo: Clear Water Bay First Beach]

[Photo: Shek O Beach - great place for taking photos]

The beaches with a "Good" water quality ranking were largely located in the Southern District (Hong Kong Island South), Outlying Islands and Sai Kung. Eleven of the 12 beaches in the Southern District were ranked as "Good" in 2014. The ranking of Big Wave Bay Beach has changed to "Fair", but the change in *E. coli* levels was not statistically significant. Of the nine beaches on the Outlying Islands, seven were ranked as "Good" while Silver Mine Bay Beach and Pui O Beach were rated as "Fair". In the Sai Kung area, five beaches were "Good" in 2014 with Silverstrand Beach rated as "Fair". On the western side, all six beaches along the Tuen Mun coast and all eight beaches in the Tsuen Wan District received a "Fair" ranking in 2014.

The water quality of the Tsuen Wan beaches has been stable in 2014 following improvement in previous years, which is mainly due to the smooth operation of the Advance Disinfection Facilities (ADF) of the Stonecutters Island Sewage Treatment Works since March 2010, and the completion of the sewerage works in the hinterland of the beaches.

Since all the Tsuen Wan beaches have achieved the WQO for bathing, four previously closed beaches, namely Approach Beach, Casam Beach, Hoi Mei Wan Beach and Lido Beach, have been reopened to the public for swimming since June 2011. After the upgrading of beach facilities, Anglers' Beach and Ting Kau Beach have been reopened for swimming since September 2013 and April 2014 respectively. The Leisure and Cultural Services Department has also reopened Gemini Beaches for public use after the completion of improvement works in 2014, but the beach is not open for swimming since there is no lifeguard service.

[Photo: Scenic Ting Kau Beach]

EPD also monitored three non-gazetted beaches in Hong Kong: Discovery Bay (a popular beach on Lantau Island), a sandy beach adjacent to Kiu Tsui Beach in Sai Kung, and a planned artificial beach in Lung Mei, Tai Po. In 2014, Discovery Bay and the beach adjacent to Kiu Tsui Beach continued to be ranked as "Good". Lung Mei changed from "Poor" in 2013 to "Fair" in 2014. The public sewerage network is being extended to villages in the Lung Mei area, and other pollution abatement measures will be implemented to further improve the water quality.

[Photo: Lung Mei (a planned artificial beach in Tai Po)]

Weekly Beach Grading in 2014

The EPD issues weekly gradings of gazetted beaches which are open for swimming. The information is disseminated to the public through weekly press release, EPD's websites, the beach enquiry hotline, GeoInfo Map of the GovHK website and noticeboards at the beaches.

In 2014, the water quality of beaches in the Southern District was largely satisfactory. All ten gazetted beaches received mostly "Good" or "Fair" grading in the bathing season, while Big Wave Bay Beach, Chung Hom Kok Beach and Shek O Beach were rated as "Very Poor" on one or two occasions after heavy rain. South Bay Beach continued to have the best water quality, achieving "Good" gradings on all occasions.

The beaches on the Outlying Islands were generally suitable for swimming, with Tong Fuk Beach achieving 100% "Good" gradings. Hung Shing Yeh Beach, Lo So Shing Beach and Upper Cheung Sha Beach achieved "Good" gradings over 90% of the occasions, while Kwun Yam Beach achieved "Good" gradings close to 90% of the time. Pui O Beach was rated as "Very Poor" on two occasions after heavy rain.

[Photo: Getting away from the crowds at Upper Cheung Sha Beach]

The water quality of the Sai Kung beaches was also generally good with weekly gradings mostly "Good" or "Fair". Except Clear Water Bay First Beach and Hap Mun Bay Beach, other beaches were rated as "Very Poor" on one or a few occasions after heavy rain. Clear Water Bay Second Beach was also rated as "Very Poor" once due to the temporary malfunction of the sewerage network of the beach facilities.

[Photo: Hap Mun Bay Beach - one of the favourite beaches in Sai Kung]

The water quality of the beaches in Tuen Mun area was generally fine and nearly all graded as "Good" or "Fair". Castle Peak Beach and Golden Beach were rated as "Very Poor" once after heavy rain.

The water quality of the beaches in Tsuen Wan was generally satisfactory with gradings mostly at "Fair". Only Anglers' Beach was rated as "Very Poor" after heavy rain on one occasion.

The 14 beaches in Tuen Mun and Tsuen Wan districts had been temporarily closed on August 25 and 26 as a precaution following the equipment breakdown and emergency bypass of sewage at the Pillar Point Sewage Treatment Works. They were reopened on August 27 after confirmation that the water quality was suitable for swimming.

Water Quality Trend

The beach water quality in Hong Kong is able to fully comply with the WQO for the last five years. The percentage of beaches complying with the WQO had changed from 74% in 1986 (29 of 39 beaches) to 63% (26 of 41 beaches) in 1997, and then improved to 100% since 2010 for all 41 gazetted beaches.

Comparison of annual beach ranking of gazetted beaches in 1986, 1997 and 2014

Year	WQO Compliant		WQO Non-compliant	
	Good	Fair	Poor	Very Poor
1986	23.1%(9)	51.3%(20)	17.9%(7)	7.7%(3)
1997	24.4% (10)	39.0% (16)	29.3% (12)	7.3% (3)
2014	56.1%(23)	43.9%(18)	-	-

() No. of beaches

Note: Two Beaches degazetted in 1995 were excluded from the calculation.

Back in the 1980s, many beaches were either closed, such as Cafeteria Old Beach, Castle Peak Beach and Silver Mine Bay Beach, or on the verge of being closed (e.g. Middle Bay Beach and Repulse Bay Beach) because of poor water quality.

There was a further drop in compliance rate in the mid-1990s due to population growth particularly in the new town areas. Since then, there has been progressive improvement in the last decade as a result of enforcement of environmental legislation, extension of the sewerage network and provision of new sewage treatment facilities across the territory including the beach hinterland. Major improvement measures implemented in the past are summarized in the following table.

Major improvement measures for the beaches since the implementation of beach water quality monitoring programme in 1986

1986 – 1990

Implementation of the Livestock Waste Control Scheme under the Waste Disposal (Livestock Waste) Regulation.	Most beaches, particularly Silver Mine Bay Beach
Declaration of the Southern Water Control Zone (WCZ) under the Water Pollution Control Ordinance (WPCO) and legislative enforcement.	Southern beaches
Interception and diversion of polluted storm drains at beaches in Southern District.	Southern beaches

1991- 1995

Implementation of chemical waste control.	All beaches
Declaration of the North Western WCZ under WPCO and legislative enforcement.	Tuen Mun beaches
Diversion of polluted storm water drains away from Castle Peak Beach.	
Provision of public sewers for So Kwun Wat and Sam Shing Estate.	
Commissioning of Stanley Sewage Treatment Works (STW).	Stanley Main Beach

1996 - 2000

Full implementation of WPCO in all WCZs.	All beaches
Commissioning of the Shek O Sewage Screening Plant and diversion of polluted storm water drains at Shek O Village.	Shek O Beach
Completion of all major works under Southern Southern Sewerage Master Plan.	Southern beaches
Commissioning of the new 2 km long Pillar Point sewage submarine outfall.	Tuen Mun beaches

2001 - 2005

Completion of HATS Stage 1.	Big Wave Bay, Shek O, Rocky Bay Beaches
Provision of public sewers in the Silverstrand area.	Silverstrand Beach
Full operation of the Sham Tseng STW.	Beaches along the Tsuen Wan coast

2006 - 2014

Commissioning of the Advance Disinfection Facilities at Stonecutters Island STW.	All Tsuen Wan beaches
Extension of the public sewerage network to the beach hinterland along Castle Peak Road.	Beaches along the Tsuen Wan coast

Through continuous efforts of the government to implement pollution abatement measures over the years, there was significant improvement at the beaches in various districts in the last few years. Improvement at Silver Mine Bay Beach, Castle Peak Beach and Repulse Bay Beach was most remarkable as the beaches have consistently complied with the WQO in recent years. All beaches in Tsuen Wan have met the WQO since 2010. To sum up, all of Hong Kong's bathing beaches have now achieved the required standard for swimming.

Compliance with WQO at gazetted beaches, 1997 - 2014

[Figure: Compliance with WQO at gazetted beaches, 1997 - 2014]

Water quality trend lines of gazetted beaches over the last 29 years are included in this report to show the changes over the years. More in-depth background and details of the beach monitoring programme are available at the EPD's [Hong Kong Water Quality Resource Centre \(HKWQRC\) website](http://wqrc.epd.gov.hk) (<http://wqrc.epd.gov.hk>) or its [beach water quality thematic website](http://www.beachwq.gov.hk) (<http://www.beachwq.gov.hk>), which provides user-friendly access to the annual beach reports as well as data published since 2000.

[Photos: Family fun day at Stanley Main Beach]

The Monitoring Programme

Beaches monitored by the EPD

Southern District	Sai Kung District	Tsuen Wan District	Tuen Mun District	Islands District	Tai Po District
Deep Water Bay	Kiu Tsui	Ma Wan Tung Wan	Butterfly	Silver Mine Bay	Lung Mei**
Repulse Bay	Hap Mun Bay	Anglers'	Castle Peak	Pui O	
Middle Bay	Trio	Gemini	Kadoorie	Lower Cheung Sha	
South Bay	Silverstrand	Hoi Mei Wan	Cafeteria Old	Upper Cheung Sha	
Chung Hom Kok	Clear Water Bay First	Casam	Cafeteria New	Tong Fuk	
St. Stephen's	Clear Water Bay Second	Lido	Golden	Cheung Chau Tung Wan	
Stanley Main	Kiu Tsui (New)**	Ting Kau		Kwun Yam	
Turtle Cove		Approach		Hung Shing Yeh	
Shek O				Lo So Shing	
Big Wave Bay				Discovery Bay**	
Hairpin					
Rocky Bay					

** Non-gazetted beaches

Beach monitoring frequencies

Beach	Monitoring frequency per month	
	Bathing season *	Non-bathing season
Gazetted beaches open all year round**	at least 3 times	at least 3 times
Other gazetted beaches	at least 3 times	once
Non-gazetted beaches	at least 3 times	once

* March to October

** Clear Water Bay Second, Deep Water Bay, Golden and Silverstrand Beaches

Overview of Various Stages of the Beach Monitoring Programme

[Image of overview of various stages of the Beach Monitoring Programme]

Hong Kong's annual beach ranking system

Rank	<i>E. coli</i> counts per 100 mL*	Minor illness rate** (Cases per 1,000 swimmers)	WQO Compliance
Good	≤24	Undetectable	Compliant
Fair	25-180	≤10	
Poor	181-610	11-15	Non-compliant
Very Poor	>610	>15	

* Geometric mean *E. coli* count calculated based on all data collected between March and October.

** Skin and gastrointestinal illnesses

Hong Kong's weekly beach grading system

Grade	Beach water quality	<i>E. coli</i> counts per 100 mL*	Minor illness rate ** (Cases per 1,000 swimmers)
1	Good	≤24	Undetectable
2	Fair	25-180	≤10
3	Poor	181-610	11-15
4	Very Poor	>610 or last reading >1,600	>15

* Unless otherwise indicated, the *E. coli* count represents the geometric mean of the 5 most recent sampling occasions.

** Skin and gastrointestinal illnesses

The 2014 Findings

[Hong Kong's gazetted beaches 2014 annual ranking](#)

[Weekly beach grading summary of gazetted beaches by district in 2014](#)

[Image of Annual Ranking of gazetted beaches at a glance]

[Southern District beaches](#)

[Sai Kung beaches](#)

[Tsuen Wan beaches](#)

[Tuen Mun beaches](#)

[Outlying Islands beaches](#)

Water Quality Trend

[Annual beach rankings of gazetted beaches from 1986 to 2014](#)

[Comparision of annual beach ranking of gazetted beaches in 1986 and 2014](#)

[Annual geometric mean *E. coli* levels of gazetted beaches by district, 1997-2014](#)

Appendices

[Appendix A - Annual geometric mean *E. coli* levels \(1997 – 2014\)](#)

[Appendix B - 2014 Beach visitor number](#)

[Appendix C - Physicochemical water quality data for gazetted beaches, 2014](#)

Appendix D – Images of Long-term trend of beach water quality (1986 – 2014)

[\[Back to top\]](#)

Hong Kong's gazetted beaches 2014 annual ranking

Annual Rank			
Good	Fair	Poor	Very Poor
Hap Mun Bay	Cafeteria New	--	--
Tong Fuk	Ma Wan Tung Wan		
Hung Shing Yeh	Kadoorie		
Lo So Shing	Butterfly		
South Bay	Golden		
St. Stephen's	Big Wave Bay		
Upper Cheung Sha	Silverstrand		
Kwun Yam	Cafeteria Old		
Turtle Cove	Silver Mine Bay		
Stanley Main	Lido		
Trio	Hoi Mei Wan		
Kiu Tsui	Pui O		
Repulse Bay	Casam		
Hairpin *	Ting Kau		
Chung Hom Kok	Castle Peak		
Middle Bay	Gemini *		
Cheung Chau Tung Wan	Approach		
Deep Water Bay	Anglers'		
Clear Water Bay First			
Rocky Bay *			
Clear Water Bay Second			
Shek O			
Lower Cheung Sha			

*Beaches not open for swimming
(no lifeguard service)

Weekly beach grading summary of gazetted beaches by district in 2014

District	Percentage of Weekly Gradings				Total no. of Grading Occasions
	Grade 1	Grade 2	Grade 3	Grade 4	
Southern	75%	23%	1%	1%	345
Sai Kung	69%	25%	3%	3%	216
Tsuen Wan	15%	62%	23%	0%	258
Tuen Mun	25%	66%	8%	1%	212
Outlying Islands	70%	26%	3%	1%	308

Figures may not add up to 100% due to roundings

Annual ranking and weekly grading summary - Southern District beaches

Beach	Annual Ranking	Percentage of Weekly Gradings			
		Grade 1	Grade 2	Grade 3	Grade 4
Big Wave Bay	Fair	33%	56%	6%	6%
Chung Hom Kok	Good	71%	26%	0%	3%
Deep Water Bay	Good	71%	29%	0%	0%
Hairpin *	Good	No grading			
Middle Bay	Good	82%	18%	0%	0%
Repulse Bay	Good	74%	26%	0%	0%
Rocky Bay *	Good	No grading			
Shek O	Good	64%	31%	0%	6%
South Bay	Good	100%	0%	0%	0%
St. Stephen's	Good	94%	6%	0%	0%
Stanley Main	Good	85%	15%	0%	0%
Turtle Cove	Good	76%	24%	0%	0%

* Beaches not open for swimming (no lifeguard service)

Annual ranking and weekly grading summary - Sai Kung beaches

Beach	Annual Ranking	Percentage of Weekly Gradings			
		Grade 1	Grade 2	Grade 3	Grade 4
Clear Water Bay First	Good	66%	34%	0%	0%
Clear Water Bay Second	Good	56%	36%	3%	6%
Hap Mun Bay	Good	97%	3%	0%	0%
Kiu Tsui	Good	72%	25%	0%	3%
Silverstrand	Fair	42%	37%	13%	8%
Trio	Good	81%	17%	0%	3%

Annual ranking and weekly grading summary - Tsuen Wan beaches

District	Beach	Annual Ranking	Percentage of Weekly Gradings			
			Grade 1	Grade 2	Grade 3	Grade 4
Tsuen Wan	Anglers'	Fair	0%	66%	32%	3%
	Approach	Fair	0%	73%	27%	0%
	Casam	Fair	14%	59%	27%	0%
	Gemini *	Fair	No grading			
	Hoi Mei Wan	Fair	22%	57%	22%	0%
	Lido	Fair	27%	49%	24%	0%
	Ting Kau	Fair	3%	70%	27%	0%
	Ma Wan Tung Wan	Fair	40%	57%	3%	0%

* Beaches not open for swimming (no lifeguard service)

Annual ranking and weekly grading summary - Tuen Mun beaches

District	Beach	Annual Ranking	Percentage of Weekly Gradings			
			Grade 1	Grade 2	Grade 3	Grade 4
Tuen Mun	Butterfly	Fair	29%	71%	0%	0%
	Cafeteria New	Fair	31%	66%	3%	0%
	Cafeteria Old	Fair	31%	63%	6%	0%
	Castle Peak	Fair	8%	58%	31%	3%
	Golden	Fair	31%	61%	6%	3%
	Kadoorie	Fair	23%	74%	3%	0%

Annual ranking and weekly grading summary - Beaches on the Outlying Islands

Beach	Annual Ranking	Percentage of Weekly Gradings			
		Grade 1	Grade 2	Grade 3	Grade 4
Cheung Chau Tung Wan	Good	77%	23%	0%	0%
Hung Shing Yeh	Good	91%	9%	0%	0%
Kwun Yam	Good	89%	11%	0%	0%
Lo So Shing	Good	97%	3%	0%	0%
Lower Cheung Sha	Good	56%	44%	0%	0%
Pui O	Fair	17%	56%	22%	6%
Silver Mine Bay	Fair	15%	85%	0%	0%
Tong Fuk	Good	100%	0%	0%	0%
Upper Cheung Sha	Good	97%	3%	0%	0%

Annual beach rankings of gazetted beaches from 1997 to 2014

Year	Number of Beaches in Each Rank				Total
	Good	Fair	Poor	Very Poor	
1997	10	16	12	3	41
1998	16	16	8	1	41
1999	22	13	6	0	41
2000	21	14	6	0	41
2001	21	13	5	2	41
2002	23	10	2	6	41
2003	23	11	1	6	41
2004	25	9	5	2	41
2005	23	11	1	6	41
2006	22	12	5	2	41
2007	25	9	7	0	41
2008	24	10	7	0	41
2009	23	15	3	0	41
2010	23	18	0	0	41
2011	31	10	0	0	41
2012	23	18	0	0	41
2013	24	17	0	0	41
2014	23	18	0	0	41

Comparison of annual beach ranking of gazetted beaches in 1997 and 2014

Year	WQO Compliant		WQO Non-compliant	
	Good	Fair	Poor	Very Poor
1997	24.4% (10)	39.0% (16)	29.3% (12)	7.3% (3)
2014	56.1% (23)	43.9% (18)	0% (0)	0% (0)

() No. of beaches

Annual geometric mean *E. coli* levels of gazetted beaches by district, 1997 - 2014

Year	Southern	Sai Kung	Tsuen Wan	Tuen Mun	Outlying Islands
1997	55	26	562	326	24
1998	34	17	321	125	12
1999	16	9	231	59	7
2000	16	11	219	57	8
2001	18	13	321	101	12
2002	10	12	666	70	7
2003	11	14	566	85	8
2004	9	10	405	64	5
2005	14	14	576	77	8
2006	13	11	447	122	11
2007	9	8	294	77	9
2008	11	13	247	56	12
2009	11	13	163	43	10
2010	14	10	90	39	8
2011	7	5	25	34	7
2012	11	10	50	47	8
2013	12	15	85	54	11
2014	12	13	76	44	12

Note: Annual geometric mean *E.coli* levels calculated based on all the data collected between March and October

Annual geometric mean *E. coli* levels (1997 - 2014)

Beach	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Southern District																		
Big Wave Bay	179	114	77	98	106	23	33	26	101	50	17	31	46	149	17	31	21	40
Chung Hom Kok	22	40	14	8	15	13	14	9	13	10	9	13	14	9	5	5	8	13
Deep Water Bay	55	46	14	16	18	9	9	7	8	7	7	9	12	9	6	9	11	14
Hairpin	44	72	17	18	10	6	7	7	13#	11#	19#	10#	12#	33#	6#	9#	14#	12#
Middle Bay	40	16	11	11	8	9	14	12	20	18	9	11	12	12	6	15	14	13
Repulse Bay	23	11	8	9	13	9	12	4	8	12	7	14	11	7	6	7	10	11
Rocky Bay	399#	223#	72#	80#	118#	43#	28#	19#	30#	33#	17#	15#	13#	50#	23#	30#	22#	16#
Shek O	102	70	32	29	31	13	11	16	19	24	18	22	11	19	11	16	15	18
South Bay	17	6	4	7	5	5	11	9	7	7	5	5	4	4	4	5	4	5
St. Stephen's	40	26	11	6	7	5	9	4	12	11	6	9	6	4	4	4	10	5
Stanley Main	72	24	13	12	9	8	6	5	7	10	9	10	13	20	6	34	19	9
Turtle Cove	40	14	12	11	15	8	4	5	8	7	5	5	5	8	4	6	6	8
Sai Kung District																		
Clear Water Bay First	62	41	11	16	28	28	17	9	16	20	14	11	15	10	7	8	24	15
Clear Water Bay Second	66	44	12	26	22	14	21	10	19	13	9	19	27	13	5	18	15	18
Hap Mun Bay	3	2	2	2	1	2	4	3	4	4	3	5	3	3	2	2	7	4
Kiu Tsui	5	4	4	5	5	4	5	17	14	11	6	13	16	13	9	10	13	11
Silverstrand	148	99	32	61	100	133	97	74	67	30	33	35	51	28	18	30	39	40
Trio	30	21	17	10	12	6	10	2	6	5	2	12	5	6	2	9	8	10
Tsuen Wan District																		
Anglers'	691#	502#	442#	326#	621#	1169#	693#	619#	895#	772#	496#	510#	276#	134#	27#	69#	133	130
Approach	1009#	435#	387#	316#	411#	696#	762#	470#	663#	599#	352#	251#	208#	124#	59	83	106	121
Casam	609	239	231	209	233	741	702#	594#	716#	426#	305#	289#	144#	102#	21	50	71	63
Gemini	458	399	350	258	323	1155	875#	1102#	1042#	853#	566#	481#	410#	137#	19#	40#	135#	110#
Hoi Mei Wan	471	280	109	177	199	547	442#	287#	641#	308#	286#	271#	130#	87#	23	51	86	58
Lido	600	262	231	181	269	683	734#	523#	782#	459#	280#	296#	178#	87#	21	32	53	57
Ma Wan Tung Wan	110	92	51	39	133	201	159	101	132	171	78	53	60	17	10	24	41	31
Ting Kau	1583#	1045#	515#	593#	739#	742#	831#	412#	512#	469#	405#	258#	145#	141#	58#	88#	107#	89
Tuen Mun District																		
Butterfly	259	121	44	61	74	60	74	55	55	94	84	56	49	30	41	42	71	38
Cafeteria New	309	100	60	51	104	62	80	54	70	120	68	48	38	31	27	47	50	31
Cafeteria Old	435	138	58	57	125	74	76	61	81	150	67	45	46	34	29	48	39	45
Castle Peak	332#	199#	57#	58#	105#	58#	64#	80#	90	139	64	47	35	63	49	48	78	91
Golden Beach	352	98	44	50	87	66	84	46	62	117	87	63	42	37	26	62	45	39
Kadoorie	290	130	109	68	120	114	160	98	117	118	101	87	48	45	37	40	52	37
Outlying Islands																		
Cheung Chau Tung Wan	24	19	11	12	16	17	11	12	14	37	21	15	17	12	6	13	10	14
Hung Shing Yeh	5	3	3	5	6	2	5	4	4	4	6	4	6	4	3	4	4	5
Kwun Yam	32	21	6	10	11	9	7	5	10	13	9	10	9	8	5	5	9	8
Lo So Shing	3	2	4	2	5	2	3	2	3	4	3	5	7	3	3	4	5	5
Lower Cheung Sha	85	23	10	12	22	10	14	7	12	11	12	20	13	11	9	10	17	21
Pui O	36	16	10	10	17	10	15	9	10	16	30	24	12	14	13	22	51	60
Silver Mine Bay	481	123	39	50	67	42	50	14	34	52	22	43	45	31	28	38	39	51
Tong Fuk	14	10	4	5	6	4	3	4	5	5	4	10	5	5	4	4	7	4
Upper Cheung Sha	8	3	2	3	5	3	3	3	3	4	4	7	5	4	3	4	4	5

Note:

Figure in red indicates that the beach was not open for swimming in that year

2014 Beach visitor number

Beach	Daily Average		Peak Day	Peak Month	Total
	Weekdays	Weekends & Public Holidays			
Southern District					
Big Wave Bay	364	852	2,300	23,580	127,750
Chung Hom Kok	251	646	1,800	15,200	92,620
Deep Water Bay	917	4,732	15,000	126,300	526,050
Hairpin	150	279	600	7,800	46,920
Middle Bay	245	335	850	15,300	67,200
Repulse Bay	9,167	12,584	19,000	342,880	2,515,870
Rocky Bay	-	-	-	-	-
Shek O	2,648	7,243	23,500	327,200	1,011,800
South Bay	226	653	2,900	27,450	89,100
St. Stephen's	154	394	1,000	12,100	56,700
Stanley Main	707	2,804	15,600	75,490	338,900
Turtle Cove	64	422	1,320	9,480	43,910
Sai Kung District					
Clear Water Bay First	168	595	1,910	15,270	74,970
Clear Water Bay Second	1,998	4,509	22,300	224,050	687,880
Hap Mun Bay	355	1,083	4,400	42,980	144,540
Kiu Tsui	173	892	2,400	15,550	99,140
Silverstrand	161	1,129	6,020	32,480	115,860
Trio	290	1,046	3,610	32,250	130,760
Tsuen Wan District					
Anglers'	179	557	1,020	10,420	73,650
Approach	179	505	960	12,550	69,550
Casam	60	151	280	3,460	21,840
Gemini	9	32	50	590	4,020
Hoi Mei Wan	61	170	550	3,450	23,550
Lido	333	914	8,550	23,980	127,460
Ma Wan Tung Wan	514	2,399	4,400	50,120	274,820
Ting Kau	178	285	1,040	10,080	52,070
Tuen Mun District					
Butterfly	793	1,484	2,500	36,560	248,900
Cafeteria New	873	1,759	4,750	63,600	283,950
Cafeteria Old	811	1,206	3,130	38,460	229,930
Castle Peak	393	1,359	1,850	22,200	172,550
Golden	2,044	4,619	9,500	114,400	704,250
Kadoorie	626	1,025	1,850	36,610	184,950
Outlying Islands					
Cheung Chau Tung Wan	278	709	2,700	20,310	102,190
Hung Shing Yeh	236	866	2,200	19,310	107,700
Kwun Yam	79	343	900	8,180	40,270
Lo So Shing	82	211	380	4,830	30,280
Lower Cheung Sha	204	780	1,500	20,500	95,490
Pui O	512	1,242	4,750	44,180	183,210
Silver Mine Bay	300	933	4,100	22,940	123,580
Tong Fuk	180	411	1,040	13,720	62,440
Upper Cheung Sha	194	406	900	13,320	64,330

Note: Information provided by the Leisure and Cultural Services Department

Physicochemical water quality data for gazetted beaches, 2014

Beach Name	pH	Salinity(psu)	Turbidity(NTU)	Temperature(°C)	Dissolved Oxygen	
					(mg/L)	(% Saturation)
Southern District						
Big Wave Bay Beach	8.35 (8.01 - 8.71)	28.5 (8.6 - 33.4)	2.82 (0.84 - 7.23)	26.0 (15.6 - 31.0)	6.8 (5.7 - 8.8)	95 (76 - 114)
Chung Hom Kok Beach	8.37 (8.13 - 8.89)	29.5 (18.8 - 33.4)	3.62 (1.38 - 14.70)	26.4 (17.1 - 30.7)	6.9 (5.4 - 9.6)	97 (74 - 130)
Deep Water Bay Beach	8.36 (7.93 - 8.74)	29.2 (18.3 - 33.5)	4.87 (1.29 - 18.90)	26.7 (16.5 - 31.5)	6.9 (4.8 - 9.5)	97 (71 - 125)
Hairpin Beach *	8.40 (7.42 - 9.06)	29.9 (21.7 - 33.6)	3.75 (0.74 - 66.00)	26.9 (16.7 - 32.2)	7.1 (5.4 - 9.3)	99 (80 - 128)
Middle Bay Beach	8.39 (8.19 - 8.79)	29.7 (19.1 - 33.3)	3.79 (1.42 - 7.45)	26.2 (16.6 - 30.9)	7.0 (5.4 - 9.9)	97 (76 - 135)
Repulse Bay Beach	8.39 (8.22 - 8.88)	30.1 (22.5 - 33.5)	3.51 (1.33 - 10.20)	26.1 (16.5 - 31.0)	6.8 (5.3 - 8.4)	96 (76 - 123)
Rocky Bay Beach *	8.31 (8.11 - 8.64)	30.6 (20.8 - 33.4)	2.64 (0.94 - 11.80)	26.1 (16.2 - 31.0)	6.7 (5.3 - 8.4)	93 (75 - 118)
Shek O Beach	8.40 (8.25 - 8.71)	30.5 (20.4 - 33.5)	3.45 (1.02 - 29.60)	26.3 (16.3 - 32.0)	6.9 (5.6 - 8.5)	96 (70 - 118)
South Bay Beach	8.38 (8.18 - 8.80)	30.0 (22.8 - 33.5)	2.75 (0.96 - 7.39)	26.4 (17.2 - 31.5)	6.9 (5.5 - 9.6)	97 (74 - 130)
St. Stephen's Beach	8.33 (7.89 - 8.73)	30.0 (20.4 - 33.6)	4.54 (1.08 - 52.40)	26.3 (17.2 - 31.5)	6.9 (5.4 - 8.6)	96 (76 - 114)
Stanley Main Beach	8.43 (8.24 - 9.20)	29.7 (21.8 - 33.5)	2.67 (1.12 - 6.93)	26.9 (15.4 - 32.0)	6.9 (5.4 - 9.4)	98 (85 - 130)
Turtle Cove Beach	8.35 (6.34 - 8.96)	29.7 (15.8 - 33.4)	14.27 (1.08 - 348.00)	26.7 (16.1 - 32.3)	6.8 (5.4 - 8.4)	96 (75 - 119)

Sai Kung District

Clear Water Bay First Beach	8.42 (8.25 - 8.82)	30.0 (15.3 - 33.4)	4.73 (1.16 - 16.40)	26.8 (15.5 - 32.4)	6.8 (4.9 - 8.7)	96 (79 - 124)
Clear Water Bay Second Beach	8.39 (8.20 - 8.82)	30.6 (14.6 - 33.5)	5.61 (0.65 - 17.70)	27.0 (15.5 - 32.8)	6.8 (4.8 - 8.6)	96 (78 - 124)
Hap Mun Bay Beach	8.42 (8.20 - 8.77)	30.6 (19.7 - 33.5)	2.25 (0.73 - 8.76)	27.1 (16.2 - 32.2)	6.9 (5.6 - 8.8)	98 (70 - 114)
Kiu Tsui Beach	8.41 (8.15 - 8.78)	30.2 (16.6 - 33.1)	2.22 (0.75 - 8.89)	26.9 (16.2 - 32.4)	6.8 (5.5 - 8.3)	98 (83 - 110)
Silverstrand Beach	8.38 (7.66 - 8.65)	28.7 (15.6 - 32.9)	5.52 (0.97 - 39.10)	26.4 (15.2 - 31.9)	6.9 (5.0 - 8.9)	96 (75 - 115)
Trio Beach	8.41 (8.11 - 8.69)	28.9 (9.2 - 33.4)	2.36 (0.82 - 8.89)	27.1 (16.1 - 33.2)	7.0 (5.9 - 8.5)	99 (88 - 119)

Tsuen Wan District

Anglers' Beach	8.18 (8.07 - 8.43)	27.2 (16.5 - 32.9)	6.12 (1.31 - 29.40)	26.2 (17.5 - 30.2)	6.5 (5.2 - 7.7)	91 (71 - 104)
Approach Beach	8.19 (7.96 - 8.36)	26.0 (16.3 - 32.8)	4.97 (1.75 - 12.60)	26.3 (17.3 - 30.1)	6.6 (4.9 - 8.6)	92 (70 - 117)
Casam Beach	8.19 (8.01 - 8.37)	26.8 (19.7 - 33.2)	4.06 (1.56 - 9.17)	26.3 (17.6 - 30.3)	6.4 (4.9 - 7.6)	91 (73 - 104)
Gemini Beaches *	8.17 (8.03 - 8.40)	27.6 (18.2 - 33.0)	4.70 (0.85 - 12.40)	26.1 (17.5 - 30.3)	6.4 (4.8 - 7.8)	91 (67 - 102)
Hoi Mei Wan Beach	8.17 (8.01 - 8.44)	26.3 (19.3 - 33.1)	3.69 (1.49 - 9.13)	26.5 (17.6 - 30.7)	6.3 (4.9 - 7.9)	91 (73 - 104)
Lido Beach	8.18 (8.02 - 8.37)	26.7 (19.4 - 33.0)	4.55 (1.68 - 16.80)	26.3 (17.4 - 30.3)	6.4 (4.9 - 7.6)	90 (64 - 103)
Ma Wan Tung Wan Beach	8.20 (8.06 - 8.52)	28.2 (22.4 - 33.0)	5.57 (1.43 - 18.90)	26.4 (15.5 - 31.0)	6.4 (5.0 - 8.9)	91 (71 - 130)
Ting Kau Beach	8.21 (8.01 - 8.39)	26.0 (17.9 - 33.0)	4.00 (1.29 - 10.30)	26.4 (17.4 - 30.1)	6.5 (4.9 - 8.3)	92 (73 - 113)

Tuen Mun District

Butterfly Beach	8.16 (7.87 - 8.53)	23.7 (14.3 - 32.7)	9.17 (2.85 - 28.10)	27.0 (15.7 - 31.6)	6.6 (4.7 - 8.0)	93 (68 - 106)
Cafeteria New Beach	8.20 (7.92 - 8.54)	23.2 (12.3 - 32.6)	10.51 (2.92 - 19.90)	26.8 (15.6 - 30.9)	6.5 (5.1 - 7.9)	92 (77 - 105)
Cafeteria Old Beach	8.20 (7.90 - 8.57)	23.0 (11.9 - 32.6)	18.34 (3.79 - 239.00)	26.8 (15.7 - 31.0)	6.5 (4.8 - 7.8)	93 (74 - 105)
Castle Peak Beach	8.19 (7.88 - 8.51)	21.9 (11.4 - 32.0)	6.62 (1.83 - 39.60)	27.1 (15.6 - 31.2)	6.8 (5.3 - 8.7)	96 (74 - 127)
Golden Beach	8.21 (7.96 - 8.63)	23.1 (12.6 - 32.6)	12.55 (3.41 - 27.30)	26.7 (15.6 - 31.0)	6.4 (4.9 - 8.0)	92 (75 - 104)
Kadoorie Beach	8.19 (7.90 - 8.47)	22.9 (12.2 - 32.6)	12.36 (2.22 - 215.00)	26.9 (15.6 - 31.2)	6.5 (4.8 - 7.9)	90 (8 - 104)

Islands District

Cheung Chau Tung Wan Beach	8.32 (8.16 - 8.63)	28.3 (16.3 - 33.1)	3.23 (0.92 - 11.80)	26.2 (16.7 - 30.4)	7.0 (4.7 - 9.0)	96 (70 - 115)
Hung Shing Yeh Beach	8.27 (8.07 - 8.71)	28.2 (18.9 - 33.5)	5.32 (1.35 - 23.20)	26.8 (17.8 - 30.8)	6.6 (4.6 - 8.4)	96 (69 - 122)
Kwun Yam Beach	8.32 (8.13 - 8.62)	28.0 (15.6 - 33.1)	3.33 (1.05 - 8.73)	26.1 (16.6 - 30.2)	7.0 (5.4 - 8.7)	96 (76 - 115)
Lo So Shing Beach	8.28 (8.09 - 8.59)	28.5 (19.8 - 33.5)	3.78 (1.44 - 8.33)	27.3 (17.8 - 32.7)	7.0 (5.4 - 9.7)	98 (80 - 130)
Lower Cheung Sha Beach	8.39 (8.22 - 8.74)	27.9 (20.1 - 33.2)	7.65 (1.77 - 36.90)	27.3 (17.4 - 32.6)	6.7 (5.2 - 8.1)	93 (73 - 111)
Pui O Beach	8.39 (8.20 - 8.74)	27.8 (17.1 - 33.2)	12.72 (1.64 - 40.20)	27.5 (17.3 - 33.2)	6.7 (4.7 - 8.4)	95 (68 - 110)
Silver Mine Bay Beach	8.28 (8.03 - 8.75)	25.8 (14.3 - 32.9)	10.53 (2.33 - 56.30)	27.7 (16.8 - 33.9)	6.6 (4.7 - 8.3)	95 (70 - 130)
Tong Fuk Beach	8.40 (8.19 - 8.73)	28.5 (19.5 - 33.3)	6.99 (1.43 - 39.70)	27.1 (17.0 - 32.2)	6.6 (5.1 - 8.0)	94 (72 - 115)
Upper Cheung Sha Beach	8.40 (8.21 - 8.79)	28.5 (20.1 - 33.3)	6.44 (1.22 - 29.50)	27.1 (17.0 - 32.6)	6.6 (4.8 - 8.0)	92 (70 - 110)

*Beaches not open for swimming (no lifeguard service)

Note: Data presented are arithmetic means; figures in brackets are ranges.

Footnote:

1. Practical Salinity Unit
2. Nephelometric Turbidity Unit