

## EPD - Beach Water Quality

### Beach Water Quality in Hong Kong 2020

#### Our Mission:

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

[Photo: Hong Kong has many beautiful beaches with clear water and soft sand]

#### Introduction

Hong Kong is famous for its beautiful coastal beaches with clear water and white sands along its long and twisting coastline. In order to safeguard the health of bathers, the Government is devoted to upkeep the water quality of our beaches.

To achieve the goal, the Environmental Protection Department (EPD) has implemented a comprehensive Beach Water Quality Monitoring Programme since 1986. This report provides the beach monitoring data collected in 2020, and summarizes the corresponding grading and bacteriological Water Quality Objective (WQO) compliance rate for bathing waters.

[Photo: Beaches are perfect places to escape from the hustle and bustle of the city]

Despite the COVID-19 pandemic in Hong Kong during 2020, the EPD continued to monitor the 41 gazetted beaches and two non-gazetted beaches in the bathing season. In the period, the EPD staff monitored the water quality of beaches through field observation and water sample collection for laboratory analyses of *Escherichia coli* (*E. coli*) level. For reference purpose, dissolved oxygen, pH, salinity, temperature and turbidity of beach water were also measured in-situ.

[Photo: EPD staff conducting water sampling and field measurement at the beaches]

[Photo: Beach water sample analysis is conducted at EPD's environmental microbiology laboratory]

Hong Kong adopts a dual rating system for beach water quality assessment, which is based on the *E. coli* level in the beach water for assessing the annual ranking and weekly grading of the beaches. Different rankings or gradings represent different levels of risk of contracting swimming-associated minor gastrointestinal and skin illnesses. The annual ranking reflects the overall water quality of the beach over the whole bathing season, while the weekly grading traces more recent changes in water quality. Under this system, beaches are categorised into “Good”, “Fair”, “Poor” and “Very Poor”. Beaches with “Good” or “Fair” annual ranking meet the bacteriological WQO for bathing waters.

[Photo: Water quality grading displayed at the gazetted beaches]

#### Annual Beach Ranking in 2020

All 41 gazetted beaches complied with the bacteriological WQO in 2020. Compared with 2019, the number of beaches with “Good” ranking has increased from 21 (or 51 %) to 24 (or 59 %), and the number of beaches with “Fair” ranking has decreased from 20 (or 49%) to 17 (or 41%). No beaches were in the “Poor” or “Very Poor” ranking.

[Photo: Turtle Cove Beach in the Southern District has received “Good” annual ranking for 23 consecutive years]

The overall improvement in beach ranking in 2020 was primarily associated with the generally fine weather during the bathing season. Although the cumulative rainfall in the bathing season (2 294 mm) was only slightly lower than the same period in 2019 (2 309 mm), the prolonged period of sunshine was the key factor leading to enhanced natural recovery of water quality. The number of bright sunshine hours during the bathing season was 10.5% higher than that in 2019, and also 8.9% higher than the 30-year climatological normal during 1981-2010. In particular, the hot July and August brought very stable water quality to the territory. Occasional fluctuations of water quality could still be observed after heavy downpours during the wet and cloudy September, but the changes were transient and within the normal range of fluctuation.

The 41 gazetted beaches are distributed in five different districts, namely Tuen Mun, Tsuen Wan, Southern (Hong Kong Island South), Islands and Sai Kung. Similar to past records, the beaches in the Southern, Islands and Sai Kung Districts generally received better annual ranking.

There are 12 beaches in the Southern District, 11 of them were ranked as “Good”, with Shek O Beach and Rocky Bay Beach improved from “Fair” to “Good”, and Big Wave Bay Beach continued to receive a “Fair” ranking. In the Islands District, the seven beaches that were ranked as “Good” last year continued to receive the same ranking, and Lower Cheung Sha Beach also improved from “Fair” to “Good”, while Silver Mine Bay Beach remained as “Fair”. Beaches in the Sai Kung District attained the same record as in last year: Silverstrand Beach and the remaining five beaches continued to be ranked as “Fair” and “Good”, respectively.

All the eight beaches in the Tsuen Wan District and all the six beaches in the Tuen Mun District received a “Fair” annual ranking, on par with last year.

[Photo: Chung Hom Kok Beach embraced by trees]

Before 2010, seven Tsuen Wan beaches along Castle Peak Road had once been closed due to poor water quality. Since the completion of sewerage works in the beach hinterland and the commissioning of the disinfection facilities of the Harbour Area Treatment Scheme in March 2010, the water quality of these beaches has significantly improved and complied with the bacteriological WQO for bathing waters since then. This has led to the gradual re-opening of all these beaches during 2011 – 2014.

[Photo: Hoi Mei Wan Beach by the Tsing Ma Bridge]

In 2020, EPD’s monitoring programme also covered the following two non-gazetted beaches: Discovery Bay (a popular beach in Lantau Island) and New Kiu Tsui (a sandy beach adjacent to Kiu Tsui Beach in Sai Kung). Both beaches received a “Good” ranking. Monitoring at Lung Mei in Tai Po has been suspended since March 2019 due to the ongoing construction works under Lung Mei Beach Project. As the construction works were near completion, EPD commenced the preliminary work towards the end of 2020 to prepare for resumption of routine monitoring.

## Weekly Beach Grading in 2020

Besides the annual ranking, EPD also issues weekly grading of gazetted beaches during their usual opening periods, with an aim to closely trace the changes in beach water quality. The public can obtain up-to-date grading information through different channels including press releases, EPD's website, beach water quality hotline, GeoInfo Map of the GovHK website and noticeboards at the beaches. This chapter summarizes the weekly grading status of the beaches during the 2020 bathing season.

All the ten gazetted beaches in the Southern District had decent water quality, and on average maintained a “Good” grading for 85% of time in the bathing season. Among them, four beaches (Repulse Bay Beach, South Bay Beach, St. Stephen’s Beach and Shek O Beach) made a record of 100% “Good” grading throughout the entire bathing season. Chung Hom Kok Beach was the only beach in the district graded as “Very Poor” for two times after heavy rain between late May and early June.

Some beaches in the Islands District had fairly good water quality. Five beaches, namely, Kwun Yam Beach, Hung Shing Yeh Beach, Lo So Shing Beach, Tong Fuk Beach and Upper Cheung Sha Beach

received “Good” grading for at least 90% of the time. In addition, no beaches were graded “Very Poor” in the district during this bathing season.

[Photo: Moment of peace at Lo So Shing Beach]

Water quality of Sai Kung beaches continued to be satisfying where Hap Mun Bay Beach and Trio Beach had the best water quality among all, each attaining a “Good” grading for 93% of time in the bathing season. Only Silverstrand Beach and Kiu Tsui Beach received a rainfall-associated “Very Poor” grading this year.

[Photo: Clear Water Bay Second Beach is open all year round for swimming]

Beaches in the Tuen Mun District maintained a “Fair” grading for most of the time in the bathing season, largely similar to the previous years. All beaches in the district, except Cafeteria New Beach, were graded as “Very Poor” one to two times in the first half of the year due to the effect of rainstorms.

Fluctuation of water quality was observed at beaches in the Tsuen Wan District in mid-June. The frequent heavy rainstorms in September also occasionally brought temporary water quality deterioration to the district. Nevertheless, water quality of Tsuen Wan beaches was largely fine in other months of the year, and their overall grading status was consistent when compared with the past few years.

### Water Quality Trend

Since 2010, all gazetted beaches have been in full compliance with the bacteriological WQO for 11 consecutive years. The compliance rate for beaches once decreased from 74% in 1986 (29 of 39 beaches) to 63% (26 of 41 beaches) in 1997, and then progressively increased to 100% in 2010, with the full compliance maintained since then.

### Comparison of annual beach ranking of gazetted beaches in 1986, 1997 and 2020

| 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)  |
| 2020 | 58.5% (24)    | 41.5% (17) | -                 | -         |

( ) No. of beaches

Note: Two beaches degazetted in 1995 were excluded from all the statistics above.

Looking back to the 1980s, many beaches were closed (e.g. 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) due to poor water quality. There was a further drop in compliance rate in the mid-1990s due to population growth primarily brought by new town development. In the last two decades, the Government has invested extensively to implement various pollution abatement measures, including enforcement of environmental legislation (e.g. Water Pollution Control Ordinance, Livestock Waste Control Scheme), extension of the sewerage network and provision of new sewage treatment facilities. The Harbour Area Treatment Scheme, the core infrastructure project in particular, has brought marked improvement in beach water quality. Major water quality improvement measures implemented in the past are summarized in the following table.

| <b>Major improvement measures for the beaches since the implementation of beach water quality monitoring programme in 1986</b>       |  |
|--|--|
| <b>1986 – 1990</b>   | <b>Beaches with Water Quality Improvement</b>    |
| 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) for legislative enforcement. | Southern beaches                                 |
| Interception and diversion of polluted storm drains at beaches in Southern District.   | Southern beaches                                 |
| <b>1991- 1995</b>  |  |
| Implementation of chemical waste control.  | All beaches                                      |
| Declaration of the North Western WCZ under the WPCO for legislative enforcement.   | Tuen Mun beaches                                 |
| Diversion of polluted storm water drains away from Castle Peak Beach.  | Castle Peak Beach                                |
| Provision of public sewers for So Kwun Wat and Sam Shing Estate.   | Tuen Mun Beaches                                 |
| Commissioning of Stanley Sewage Treatment Works (STW).   | Stanley Main Beach                               |
| <b>1996 - 2000</b>   |  |
| Full implementation of the 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 Sewerage Master Plan.   | Southern beaches                                 |
| Commissioning of the new 2 km long Pillar Point sewage submarine outfall.  | Tuen Mun beaches                                 |
| <b>2001 - 2005</b>   |  |
| Completion of Harbour Area Treatment Scheme 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                |
| <b>2006 - 2020</b>   |  |
| 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                |
| Full scale commissioning of all facilities of the Harbour Area Treatment Scheme (HATS) Stage 2A.                                     | Beaches along the Tsuen Wan coast                |

All gazetted beaches in Hong Kong have continuously met the required standard developed based on swimming-associated health risk. The EPD will continue to closely monitor the beach water quality to support water quality management policy, and to provide water quality data for beach users' reference.

## Compliance rate with bacteriological WQO at gazetted beaches during 1997 – 2020

[Figure: Compliance rate with bacteriological WQO at gazetted beaches during 1997 - 2020]

Water quality trend lines of all gazetted beaches in the last 35 years are provided in Appendix D of this report. The public is welcome to visit the beach water quality thematic website (<https://www.epd.gov.hk/epd/beach>) to obtain more details of the beach monitoring programme, as well as past annual beach water quality reports and data published since 2000.

[Photos: Leisure at beaches]

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

\*\* Non-gazetted beaches

### Beach monitoring frequency

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

\* March to October

## 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**<br>(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 **<br>(Cases per 1,000 swimmers) |
|-------|---------------------|-----------------------------------|---|
| 1     | Good                | ≤24                               | Undetectable  |
| 2     | Fair                | 25-180                            | ≤10   |
| 3     | Poor                | 181-610                           | 11-15   |
| 4     | Very Poor           | >610<br>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 2020 Findings**

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**2020 Annual ranking and bathing season geometric mean *E. coli* levels of Hong Kong's gazetted beaches**

| <b>Annual Ranking</b>  | <b>Beach</b>         | <b><i>E. coli</i> (counts/100ml)</b> |
|------------------------|----------------------|--------------------------------------|
| <b>Good</b>            | Hap Mun Bay          | 3                                    |
|                        | South Bay            | 3                                    |
|                        | Lo So Shing          | 4                                    |
|                        | Tong Fuk             | 4                                    |
|                        | Upper Cheung Sha     | 4                                    |
|                        | Hairpin *            | 5                                    |
|                        | Hung Shing Yeh       | 5                                    |
|                        | Repulse Bay          | 5                                    |
|                        | St. Stephen's        | 6                                    |
|                        | Stanley Main         | 6                                    |
|                        | Trio                 | 6                                    |
|                        | Shek O               | 7                                    |
|                        | Kwun Yam             | 8                                    |
|                        | Turtle Cove          | 8                                    |
|                        | Chung Hom Kok        | 9                                    |
|                        | Lower Cheung Sha     | 10                                   |
|                        | Rocky Bay *          | 10                                   |
|                        | Cheung Chau Tung Wan | 11                                   |
|                        | Kiu Tsui             | 11                                   |
|                        | Middle Bay           | 11                                   |
|                        | Deep Water Bay       | 13                                   |
| Clear Water Bay Second | 14                   |                                      |
| Clear Water Bay First  | 19                   |                                      |
| Pui O                  | 21                   |                                      |
| <b>Fair</b>            | Silverstrand         | 28                                   |
|                        | Big Wave Bay         | 37                                   |
|                        | Cafeteria New        | 37                                   |
|                        | Silver Mine Bay      | 37                                   |
|                        | Golden               | 45                                   |
|                        | Cafeteria Old        | 53                                   |
|                        | Kadoorie             | 55                                   |
|                        | Lido                 | 66                                   |
|                        | Casam                | 84                                   |
|                        | Hoi Mei Wan          | 84                                   |
|                        | Ma Wan Tung Wan      | 84                                   |
|                        | Ting Kau             | 93                                   |
|                        | Gemini *             | 101                                  |
|                        | Anglers'             | 105                                  |
|                        | Castle Peak          | 112                                  |
|                        | Butterfly            | 129                                  |
|                        | Approach             | 133                                  |

\*Beaches not open for swimming (no lifeguard service)



## Annual ranking of gazetted beaches at a glance in 2020

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

\*Beaches not open for swimming (no lifeguard service)

**Weekly beach grading summary of open gazetted beaches by district in 2020**

| District         | Percentage of Weekly Gradings |         |         |         | Total no. of Grading Occasions |
|------------------|-------------------------------|---------|---------|---------|--------------------------------|
|                  | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |                                |
| <b>Southern</b>  | 85.2%                         | 13.9%   | 0.3%    | 0.7%    | 303                            |
| <b>Sai Kung</b>  | 75.3%                         | 22.5%   | 1.1%    | 1.1%    | 178                            |
| <b>Tsuen Wan</b> | 3.2%                          | 75.0%   | 19.4%   | 2.3%    | 216                            |
| <b>Tuen Mun</b>  | 19.5%                         | 60.5%   | 16.8%   | 3.2%    | 190                            |
| <b>Islands</b>   | 79.9%                         | 19.7%   | 0.4%    | 0.0%    | 264                            |

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           | 41 %                          | 55 %    | 3 %     | 0 %     |
| Chung Hom Kok  | Good           | 82 %                          | 12 %    | 0 %     | 6 %     |
| Deep Water Bay | Good           | 67 %                          | 33 %    | 0 %     | 0 %     |
| Hairpin *      | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Middle Bay     | Good           | 77 %                          | 23 %    | 0 %     | 0 %     |
| Repulse Bay    | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Rocky Bay *    | Good           | 80 %                          | 20 %    | 0 %     | 0 %     |
| Shek O         | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| South Bay      | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| St. Stephen's  | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Stanley Main   | Good           | 90 %                          | 10 %    | 0 %     | 0 %     |
| Turtle Cove    | Good           | 93 %                          | 7 %     | 0 %     | 0 %     |

Note: Figures may not add up to 100% due to roundings

\* Beaches not open for swimming (no lifeguard service)

## Annual ranking and weekly grading summary - Sai Kung District beaches

| Beach                  | Annual Ranking | Percentage of Weekly Gradings |         |         |         |
|------------------------|----------------|-------------------------------|---------|---------|---------|
|                        |                | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |
| Clear Water Bay First  | Good           | 72 %                          | 28 %    | 0 %     | 0 %     |
| Clear Water Bay Second | Good           | 73 %                          | 27 %    | 0 %     | 0 %     |
| Hap Mun Bay            | Good           | 93 %                          | 7 %     | 0 %     | 0 %     |
| Kiu Tsui               | Good           | 67 %                          | 30 %    | 0 %     | 3 %     |
| Silverstrand           | Fair           | 55 %                          | 35 %    | 6 %     | 3 %     |
| Trio                   | Good           | 93 %                          | 7 %     | 0 %     | 0 %     |

Note: Figures may not add up to 100% due to roundings

## Annual ranking and weekly grading summary - Tsuen Wan District beaches

| Beach                  | Annual Ranking | Percentage of Weekly Gradings |         |         |         |
|------------------------|----------------|-------------------------------|---------|---------|---------|
|                        |                | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |
| <b>Anglers'</b>        | Fair           | 0 %                           | 74 %    | 23 %    | 3 %     |
| <b>Approach</b>        | Fair           | 0 %                           | 64 %    | 27 %    | 9 %     |
| <b>Casam</b>           | Fair           | 7 %                           | 73 %    | 20 %    | 0 %     |
| <b>Gemini *</b>        | Fair           | 0 %                           | 77 %    | 20 %    | 3 %     |
| <b>Hoi Mei Wan</b>     | Fair           | 3 %                           | 77 %    | 20 %    | 0 %     |
| <b>Lido</b>            | Fair           | 7 %                           | 80 %    | 13 %    | 0 %     |
| <b>Ting Kau</b>        | Fair           | 7 %                           | 67 %    | 27 %    | 0 %     |
| <b>Ma Wan Tung Wan</b> | Fair           | 0 %                           | 91 %    | 6 %     | 3 %     |

Note: Figures may not add up to 100% due to roundings

\* Beaches not open for swimming (no lifeguard service)

**Annual ranking and weekly grading summary - Tuen Mun District beaches**

| Beach                | Annual Ranking | Percentage of Weekly Gradings |         |         |         |
|----------------------|----------------|-------------------------------|---------|---------|---------|
|                      |                | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |
| <b>Butterfly</b>     | Fair           | 0 %                           | 75 %    | 22 %    | 3 %     |
| <b>Cafeteria New</b> | Fair           | 42 %                          | 48 %    | 10 %    | 0 %     |
| <b>Cafeteria Old</b> | Fair           | 24 %                          | 55 %    | 15 %    | 6 %     |
| <b>Castle Peak</b>   | Fair           | 0 %                           | 72 %    | 25 %    | 3 %     |
| <b>Golden</b>        | Fair           | 30 %                          | 50 %    | 17 %    | 3 %     |
| <b>Kadoorie</b>      | Fair           | 22 %                          | 63 %    | 13 %    | 3 %     |

Note: Figures may not add up to 100% due to roundings

## Annual ranking and weekly grading summary - Islands District beaches

| Beach                       | Annual Ranking | Percentage of Weekly Gradings |         |         |         |
|-----------------------------|----------------|-------------------------------|---------|---------|---------|
|                             |                | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |
| <b>Cheung Chau Tung Wan</b> | Good           | 80 %                          | 20 %    | 0 %     | 0 %     |
| <b>Hung Shing Yeh</b>       | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| <b>Kwun Yam</b>             | Good           | 90 %                          | 10 %    | 0 %     | 0 %     |
| <b>Lo So Shing</b>          | Good           | 93 %                          | 7 %     | 0 %     | 0 %     |
| <b>Lower Cheung Sha</b>     | Good           | 83 %                          | 17 %    | 0 %     | 0 %     |
| <b>Pui O</b>                | Good           | 48 %                          | 52 %    | 0 %     | 0 %     |
| <b>Silver Mine Bay</b>      | Fair           | 34 %                          | 62 %    | 3 %     | 0 %     |
| <b>Tong Fuk</b>             | Good           | 90 %                          | 10 %    | 0 %     | 0 %     |
| <b>Upper Cheung Sha</b>     | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |

Note: Figures may not add up to 100% due to roundings

### Annual beach rankings of gazetted beaches from 1986 to 2020

| Year | Number of Beaches in Each Rank |      |      |           | Total |
|------|--------------------------------|------|------|-----------|-------|
|      | Good                           | Fair | Poor | Very Poor |       |
| 1986 | 9                              | 20   | 7    | 3         | 39    |
| 1987 | 5                              | 21   | 9    | 5         | 40    |
| 1988 | 7                              | 19   | 7    | 7         | 40    |
| 1989 | 13                             | 18   | 7    | 2         | 40    |
| 1990 | 14                             | 19   | 5    | 2         | 40    |
| 1991 | 17                             | 14   | 7    | 2         | 40    |
| 1992 | 16                             | 14   | 7    | 3         | 40    |
| 1993 | 15                             | 12   | 10   | 3         | 40    |
| 1994 | 13                             | 14   | 11   | 2         | 40    |
| 1995 | 14                             | 10   | 13   | 4         | 41    |
| 1996 | 13                             | 14   | 10   | 4         | 41    |
| 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    |
| 2015 | 25                             | 16   | 0    | 0         | 41    |
| 2016 | 18                             | 23   | 0    | 0         | 41    |
| 2017 | 23                             | 18   | 0    | 0         | 41    |
| 2018 | 26                             | 15   | 0    | 0         | 41    |
| 2019 | 21                             | 20   | 0    | 0         | 41    |
| 2020 | 24                             | 17   | 0    | 0         | 41    |

Note: Two beaches degazetted in 1995 were excluded from all the statistics above



## Comparison of annual beach ranking of gazetted beaches in 1986 and 2020

| Year | WQO Compliant |            | WQO Non-compliant |           |
|------|---------------|------------|-------------------|-----------|
|      | Good          | Fair       | Poor              | Very Poor |
| 1986 | 23.1% (9)     | 51.3% (20) | 17.9% (7)         | 7.7% (3)  |
| 2020 | 58.5% (24)    | 41.5% (17) | 0% (0)            | 0% (0)    |

( ) No. of beaches

Note: Two beaches degazetted in 1995 were excluded from all the statistics above

## Annual geometric mean *E. coli* levels of gazetted beaches by district, 1997 - 2020

| Year | Southern | Sai Kung | Tsuen Wan | Tuen Mun | 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      |
| 2015 | 14       | 8        | 70        | 45       | 10      |
| 2016 | 17       | 18       | 57        | 66       | 16      |
| 2017 | 9        | 11       | 51        | 46       | 12      |
| 2018 | 8        | 10       | 97        | 31       | 8       |
| 2019 | 12       | 12       | 81        | 63       | 11      |
| 2020 | 8        | 11       | 93        | 65       | 8       |

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 - 2020)

| Beach                     | 1997                     | 1998  | 1999 | 2000 | 2001 | 2002  | 2003 | 2004  | 2005  | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|---------------------------|--------------------------|-------|------|------|------|-------|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                           | <b>Southern District</b> |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Big Wave Bay              | 179                      | 114   | 77   | 98   | 106  | 23    | 33   | 26    | 101   | 50   | 17   | 31   | 46   | 149  | 17   | 31   | 21   | 40   | 21   | 78   | 36   | 34   | 103  | 37   |
| Chung Hom Kok             | 22                       | 40    | 14   | 8    | 15   | 13    | 14   | 9     | 13    | 10   | 9    | 13   | 14   | 9    | 5    | 5    | 8    | 13   | 13   | 6    | 6    | 4    | 6    | 9    |
| Deep Water Bay            | 55                       | 46    | 14   | 16   | 18   | 9     | 9    | 7     | 8     | 7    | 7    | 9    | 12   | 9    | 6    | 9    | 11   | 14   | 19   | 24   | 14   | 11   | 19   | 13   |
| Hairpin                   | 44                       | 72    | 17   | 18   | 10   | 6     | 7    | 7     | 13*   | 11*  | 19*  | 10*  | 12*  | 33*  | 6*   | 9*   | 14*  | 12*  | 8*   | 17*  | 5*   | 8*   | 7*   | 5*   |
| Middle Bay                | 40                       | 16    | 11   | 11   | 8    | 9     | 14   | 12    | 20    | 18   | 9    | 11   | 12   | 12   | 6    | 15   | 14   | 13   | 13   | 20   | 14   | 9    | 18   | 11   |
| Repulse Bay               | 23                       | 11    | 8    | 9    | 13   | 9     | 12   | 4     | 8     | 12   | 7    | 14   | 11   | 7    | 6    | 7    | 10   | 11   | 14   | 10   | 5    | 4    | 4    | 5    |
| Rocky Bay                 | 399*                     | 223*  | 72*  | 80*  | 118* | 43*   | 28*  | 19*   | 30*   | 33*  | 17*  | 15*  | 13*  | 50*  | 23*  | 30*  | 22*  | 16*  | 35*  | 47*  | 18*  | 29*  | 47*  | 10*  |
| Shek O                    | 102                      | 70    | 32   | 29   | 31   | 13    | 11   | 16    | 19    | 24   | 18   | 22   | 11   | 19   | 11   | 16   | 15   | 18   | 29   | 26   | 16   | 19   | 25   | 7    |
| South Bay                 | 17                       | 6     | 4    | 7    | 5    | 5     | 11   | 9     | 7     | 7    | 5    | 4    | 4    | 4    | 4    | 5    | 4    | 5    | 9    | 5    | 3    | 2    | 4    | 3    |
| St. Stephen's             | 40                       | 26    | 11   | 6    | 7    | 5     | 9    | 4     | 12    | 11   | 6    | 9    | 6    | 4    | 4    | 4    | 10   | 5    | 6    | 7    | 4    | 4    | 5    | 6    |
| Stanley Main              | 72                       | 24    | 13   | 12   | 9    | 8     | 6    | 5     | 7     | 10   | 9    | 10   | 13   | 20   | 6    | 34   | 19   | 9    | 20   | 23   | 8    | 11   | 7    | 6    |
| Turtle Cove               | 40                       | 14    | 12   | 11   | 15   | 8     | 4    | 5     | 8     | 7    | 5    | 5    | 5    | 8    | 4    | 6    | 6    | 8    | 5    | 11   | 5    | 3    | 9    | 8    |
| <b>Sai Kung District</b>  |                          |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Clear Water Bay First     | 62                       | 41    | 11   | 16   | 28   | 28    | 17   | 9     | 16    | 20   | 14   | 11   | 15   | 10   | 7    | 8    | 24   | 15   | 14   | 31   | 20   | 19   | 23   | 19   |
| Clear Water Bay Second    | 66                       | 44    | 12   | 26   | 22   | 14    | 21   | 10    | 19    | 13   | 9    | 19   | 27   | 13   | 5    | 18   | 15   | 18   | 17   | 32   | 16   | 13   | 17   | 14   |
| Hap Mun Bay               | 3                        | 2     | 2    | 2    | 1    | 2     | 4    | 3     | 4     | 4    | 3    | 5    | 3    | 3    | 2    | 2    | 7    | 4    | 2    | 4    | 3    | 3    | 2    | 3    |
| Kiu Tsui                  | 5                        | 4     | 4    | 5    | 5    | 4     | 5    | 17    | 14    | 11   | 6    | 13   | 16   | 13   | 9    | 10   | 13   | 11   | 6    | 10   | 5    | 8    | 8    | 11   |
| Silverstrand              | 148                      | 99    | 32   | 61   | 100  | 133   | 97   | 74    | 67    | 30   | 33   | 35   | 51   | 28   | 18   | 30   | 39   | 40   | 18   | 63   | 56   | 24   | 40   | 28   |
| Trio                      | 30                       | 21    | 17   | 10   | 12   | 6     | 10   | 2     | 6     | 5    | 2    | 12   | 5    | 6    | 2    | 9    | 8    | 10   | 4    | 13   | 7    | 7    | 9    | 6    |
| <b>Tsuen Wan District</b> |                          |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Anglers'                  | 691*                     | 502*  | 442* | 326* | 621* | 1169* | 693* | 619*  | 895*  | 772* | 496* | 510* | 276* | 134* | 27*  | 69*  | 133  | 130  | 77   | 76   | 45   | 143  | 88   | 105  |
| Approach                  | 1009*                    | 435*  | 387* | 316* | 411* | 696*  | 762* | 470*  | 663*  | 599* | 352* | 251* | 208* | 124* | 59   | 83   | 106  | 121  | 143  | 78   | 114  | 92   | 97   | 133  |
| Casam                     | 609                      | 239   | 231  | 209  | 233  | 741   | 702* | 594*  | 716*  | 426* | 305* | 289* | 144* | 102* | 21   | 50   | 71   | 63   | 52   | 42   | 43   | 94   | 79   | 84   |
| Gemini                    | 458                      | 399   | 350  | 258  | 323  | 1155  | 875* | 1102* | 1042* | 853* | 566* | 481* | 410* | 137* | 19*  | 40*  | 135* | 110* | 56*  | 40*  | 39*  | 120* | 79*  | 101* |
| Hoi Mei Wan               | 471                      | 280   | 109  | 177  | 199  | 547   | 442* | 287*  | 641*  | 308* | 286* | 271* | 130* | 87*  | 23   | 51   | 86   | 58   | 90   | 65   | 63   | 92   | 112  | 84   |
| Lido                      | 600                      | 262   | 231  | 181  | 269  | 683   | 734* | 523*  | 782*  | 459* | 280* | 296* | 178* | 87*  | 21   | 32   | 53   | 57   | 52   | 39   | 34   | 76   | 65   | 66   |
| Ma Wan Tung Wan           | 110                      | 92    | 51   | 39   | 133  | 201   | 159  | 101   | 132   | 171  | 78   | 53   | 60   | 17   | 10   | 24   | 41   | 31   | 20   | 32   | 29   | 74   | 46   | 84   |
| Ting Kau                  | 1583*                    | 1045* | 515* | 593* | 739* | 742*  | 831* | 412*  | 512*  | 469* | 405* | 258* | 145* | 141* | 58*  | 88*  | 107* | 89   | 151  | 140  | 75   | 101  | 102  | 93   |
| <b>Tuen Mun District</b>  |                          |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Butterfly                 | 259                      | 121   | 44   | 61   | 74   | 60    | 74   | 55    | 55    | 94   | 84   | 56   | 49   | 30   | 41   | 42   | 71   | 38   | 98   | 131  | 81   | 39   | 91   | 129  |
| Cafeteria New             | 309                      | 100   | 60   | 51   | 104  | 62    | 80   | 54    | 70    | 120  | 68   | 48   | 38   | 31   | 27   | 47   | 50   | 31   | 30   | 38   | 31   | 18   | 40   | 37   |
| Cafeteria Old             | 435                      | 138   | 58   | 57   | 125  | 74    | 76   | 61    | 81    | 150  | 67   | 45   | 46   | 34   | 29   | 48   | 39   | 45   | 41   | 70   | 50   | 30   | 64   | 53   |
| Castle Peak               | 332*                     | 199*  | 57*  | 58*  | 105* | 58*   | 64*  | 80*   | 90    | 139  | 64   | 47   | 35   | 63   | 49   | 48   | 78   | 91   | 71   | 106  | 65   | 70   | 128  | 112  |
| Golden Beach              | 352                      | 98    | 44   | 50   | 87   | 66    | 84   | 46    | 62    | 117  | 87   | 63   | 42   | 37   | 26   | 62   | 45   | 39   | 31   | 45   | 37   | 22   | 41   | 45   |
| Kadoorie                  | 290                      | 130   | 109  | 68   | 120  | 114   | 160  | 98    | 117   | 118  | 101  | 87   | 48   | 45   | 37   | 40   | 52   | 37   | 29   | 48   | 31   | 28   | 52   | 55   |
| <b>Islands District</b>   |                          |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Cheung Chau Tung Wan      | 24                       | 19    | 11   | 12   | 16   | 17    | 11   | 12    | 14    | 37   | 21   | 15   | 17   | 12   | 6    | 13   | 10   | 14   | 19   | 9    | 18   | 9    | 8    | 11   |
| Hung Shing Yeh            | 5                        | 3     | 3    | 5    | 6    | 2     | 5    | 4     | 4     | 4    | 6    | 4    | 6    | 4    | 3    | 4    | 4    | 5    | 4    | 6    | 5    | 4    | 4    | 5    |
| Kwun Yam                  | 32                       | 21    | 6    | 10   | 11   | 9     | 7    | 5     | 10    | 13   | 9    | 10   | 9    | 8    | 5    | 5    | 9    | 8    | 12   | 12   | 9    | 8    | 7    | 8    |
| Lo So Shing               | 3                        | 2     | 4    | 2    | 5    | 2     | 3    | 2     | 3     | 4    | 3    | 5    | 7    | 3    | 3    | 4    | 5    | 5    | 4    | 6    | 6    | 4    | 3    | 4    |
| Lower Cheung Sha          | 85                       | 23    | 10   | 12   | 22   | 10    | 14   | 7     | 12    | 11   | 12   | 20   | 13   | 11   | 9    | 10   | 17   | 21   | 17   | 47   | 19   | 9    | 25   | 10   |
| Pui O                     | 36                       | 16    | 10   | 10   | 17   | 10    | 15   | 9     | 10    | 16   | 30   | 24   | 12   | 14   | 13   | 22   | 51   | 60   | 24   | 29   | 34   | 19   | 22   | 21   |
| Silver Mine Bay           | 481                      | 123   | 39   | 50   | 67   | 42    | 50   | 14    | 34    | 52   | 22   | 43   | 45   | 31   | 28   | 38   | 39   | 51   | 59   | 119  | 141* | 36   | 106  | 37   |
| Tong Fuk                  | 14                       | 10    | 4    | 5    | 6    | 4     | 3    | 4     | 5     | 5    | 4    | 10   | 5    | 5    | 4    | 4    | 7    | 4    | 4    | 9    | 3    | 4    | 5    | 4    |
| Upper Cheung Sha          | 8                        | 3     | 2    | 3    | 5    | 3     | 3    | 3     | 3     | 4    | 4    | 7    | 5    | 4    | 3    | 4    | 4    | 5    | 3    | 7    | 3    | 4    | 7    | 4    |

Note:

\* Beach not open for swimming that year

## 2020 Beach visitor number

| Beach                     | Daily Average |                            | Peak Day | Peak Month | Total   |
|---------------------------|---------------|----------------------------|----------|------------|---------|
|                           | Weekdays      | Weekends & Public Holidays |          |            |         |
| <b>Southern District</b>  |               |                            |          |            |         |
| Big Wave Bay              | 307           | 942                        | 1 500    | 9 550      | 17 430  |
| Chung Hom Kok             | ---           | ---                        | ---      | ---        | ---     |
| Deep Water Bay            | 1 289         | 6 061                      | 14 000   | 83 900     | 154 200 |
| Hairpin                   | ---           | ---                        | ---      | ---        | ---     |
| Middle Bay                | ---           | ---                        | ---      | ---        | ---     |
| Repulse Bay               | 10 697        | 11 576                     | 15 000   | 343 060    | 582 760 |
| Rocky Bay                 | ---           | ---                        | ---      | ---        | ---     |
| Shek O                    | 3 109         | 8 811                      | 26 000   | 164 500    | 267 400 |
| South Bay                 | 163           | 488                        | 650      | 3 250      | 3 250   |
| St. Stephen's             | ---           | ---                        | ---      | ---        | ---     |
| Stanley Main              | 987           | 3 428                      | 10 000   | 55 850     | 96 250  |
| Turtle Cove               | ---           | ---                        | ---      | ---        | ---     |
| <b>Sai Kung District</b>  |               |                            |          |            |         |
| Clear Water Bay First     | 350           | 1 205                      | 1 230    | 7 620      | 7 620   |
| Clear Water Bay Second    | 1 476         | 3 252                      | 9 100    | 80 120     | 110 190 |
| Hap Mun Bay               | 557           | 1 271                      | 2 920    | 22 185     | 41 105  |
| Kiu Tsui                  | ---           | ---                        | ---      | ---        | ---     |
| Silverstrand              | 443           | 3 151                      | 6 100    | 25 950     | 46 660  |
| Trio                      | 311           | 1 867                      | 4 000    | 16 140     | 28 610  |
| <b>Tsuen Wan District</b> |               |                            |          |            |         |
| Anglers'                  | ---           | ---                        | ---      | ---        | ---     |
| Approach                  | 129           | 158                        | 180      | 1 660      | 1 660   |
| Casam                     | 90            | 133                        | 200      | 3 280      | 5 550   |
| Gemini                    | ---           | ---                        | ---      | ---        | ---     |
| Hoi Mei Wan               | ---           | ---                        | ---      | ---        | ---     |
| Lido                      | 414           | 775                        | 3 670    | 18 490     | 28 430  |
| Ma Wan Tung Wan           | 281           | 901                        | 2 300    | 15 290     | 26 040  |
| Ting Kau                  | 133           | 399                        | 870      | 4 750      | 7 440   |
| <b>Tuen Mun District</b>  |               |                            |          |            |         |
| Butterfly                 | 729           | 1 181                      | 1 900    | 24 000     | 46 750  |
| Cafeteria New             | 1 293         | 2 721                      | 3 700    | 31 400     | 58 500  |
| Cafeteria Old             | ---           | ---                        | ---      | ---        | ---     |
| Castle Peak               | 49            | 302                        | 1 000    | 3 675      | 4 595   |
| Golden                    | 2 103         | 5 739                      | 9 000    | 89 200     | 176 900 |
| Kadoorie                  | ---           | ---                        | ---      | ---        | ---     |
| <b>Islands District</b>   |               |                            |          |            |         |
| Cheung Chau Tung Wan      | 452           | 2 580                      | 4 100    | 34 280     | 62 270  |
| Hung Shing Yeh            | 736           | 999                        | 2 000    | 24 300     | 43 740  |
| Kwun Yam                  | ---           | ---                        | ---      | ---        | ---     |
| Lo So Shing               | ---           | ---                        | ---      | ---        | ---     |
| Lower Cheung Sha          | 500           | 2 300                      | 2 300    | 13 200     | 13 200  |
| Pui O                     | 1 511         | 2 832                      | 4 550    | 60 600     | 103 870 |
| Silver Mine Bay           | 348           | 887                        | 1 740    | 15 870     | 28 150  |
| Tong Fuk                  | ---           | ---                        | ---      | ---        | ---     |
| Upper Cheung Sha          | ---           | ---                        | ---      | ---        | ---     |

Note: Information provided by the Leisure and Cultural Services Department

In view of the latest developments of COVID-19, gazetted beaches were temporarily closed during the whole or part of the bathing season.

**Physicochemical water quality data for gazetted beaches, 2020**

| Beach Name               | pH                      | Salinity (psu) <sup>1</sup> | Turbidity (NTU) <sup>2</sup> | Temperature (°C)        | Dissolved Oxygen (mg/L) | (% Saturation)      |
|--------------------------|-------------------------|-----------------------------|------------------------------|-------------------------|-------------------------|---------------------|
| <b>Southern District</b> |                         |                             |                              |                         |                         |                     |
| Big Wave Bay Beach       | 8.29<br>( 8.06 - 8.46 ) | 29.5<br>( 20.4 - 33.2 )     | 4.40<br>( 1.22 - 11.80 )     | 26.6<br>( 20.0 - 30.2 ) | 6.8<br>( 5.9 - 8.5 )    | 95<br>( 83 - 108 )  |
| Chung Hom Kok Beach      | 8.32<br>( 8.09 - 8.59 ) | 29.5<br>( 20.2 - 33.3 )     | 3.84<br>( 1.15 - 8.59 )      | 26.9<br>( 19.7 - 30.0 ) | 7.0<br>( 5.1 - 9.3 )    | 99<br>( 75 - 130 )  |
| Deep Water Bay Beach     | 8.27<br>( 8.06 - 8.53 ) | 28.7<br>( 20.3 - 33.3 )     | 5.63<br>( 1.94 - 11.60 )     | 27.6<br>( 19.8 - 31.2 ) | 7.0<br>( 4.6 - 9.5 )    | 100<br>( 70 - 127 ) |
| Hairpin Beach *          | 8.35<br>( 8.13 - 8.61 ) | 30.4<br>( 21.8 - 33.5 )     | 2.16<br>( 0.57 - 11.80 )     | 27.1<br>( 19.8 - 31.2 ) | 7.2<br>( 5.7 - 10.0 )   | 102<br>( 84 - 130 ) |
| Middle Bay Beach         | 8.31<br>( 8.06 - 8.54 ) | 29.2<br>( 21.1 - 33.2 )     | 3.63<br>( 1.07 - 8.47 )      | 26.8<br>( 19.9 - 30.1 ) | 6.9<br>( 4.9 - 8.6 )    | 99<br>( 72 - 130 )  |
| Repulse Bay Beach        | 8.32<br>( 8.08 - 8.56 ) | 29.8<br>( 22.4 - 33.4 )     | 4.28<br>( 1.25 - 11.40 )     | 26.9<br>( 19.8 - 30.2 ) | 6.9<br>( 5.3 - 8.5 )    | 98<br>( 76 - 130 )  |
| Rocky Bay Beach *        | 8.26<br>( 8.06 - 8.45 ) | 30.9<br>( 23.6 - 33.1 )     | 3.42<br>( 0.86 - 10.09 )     | 25.7<br>( 19.2 - 29.7 ) | 6.8<br>( 5.6 - 8.9 )    | 95<br>( 82 - 130 )  |
| Shek O Beach             | 8.31<br>( 8.12 - 8.47 ) | 31.2<br>( 24.3 - 33.2 )     | 3.77<br>( 1.33 - 14.40 )     | 26.2<br>( 19.0 - 30.5 ) | 6.9<br>( 5.4 - 8.2 )    | 96<br>( 83 - 117 )  |
| South Bay Beach          | 8.31<br>( 8.06 - 8.58 ) | 29.8<br>( 22.3 - 33.3 )     | 2.91<br>( 0.75 - 10.50 )     | 26.8<br>( 19.9 - 30.8 ) | 7.1<br>( 4.7 - 9.9 )    | 100<br>( 71 - 130 ) |
| St. Stephen's Beach      | 8.29<br>( 8.06 - 8.59 ) | 29.4<br>( 20.0 - 33.4 )     | 2.87<br>( 1.07 - 5.86 )      | 27.0<br>( 19.4 - 30.8 ) | 6.7<br>( 4.5 - 9.7 )    | 97<br>( 67 - 130 )  |
| Stanley Main Beach       | 8.35<br>( 8.12 - 8.60 ) | 30.0<br>( 22.2 - 33.4 )     | 3.18<br>( 0.69 - 8.74 )      | 27.2<br>( 19.6 - 30.6 ) | 7.3<br>( 5.6 - 10.0 )   | 103<br>( 83 - 130 ) |
| Turtle Cove Beach        | 8.34<br>( 8.13 - 8.54 ) | 29.4<br>( 20.2 - 33.5 )     | 5.33<br>( 0.66 - 20.20 )     | 26.9<br>( 19.7 - 30.9 ) | 6.8<br>( 5.6 - 8.2 )    | 98<br>( 82 - 117 )  |

**Sai Kung District**

|                              |                         |                         |                          |                         |                      |                    |
|------------------------------|-------------------------|-------------------------|--------------------------|-------------------------|----------------------|--------------------|
| Clear Water Bay First Beach  | 8.30<br>( 8.16 - 8.47 ) | 30.2<br>( 18.4 - 32.9 ) | 4.38<br>( 0.87 - 13.60 ) | 27.6<br>( 20.4 - 31.6 ) | 6.7<br>( 5.7 - 7.8 ) | 97<br>( 86 - 116 ) |
| Clear Water Bay Second Beach | 8.28<br>( 8.16 - 8.48 ) | 31.1<br>( 24.7 - 33.8 ) | 4.03<br>( 1.09 - 10.30 ) | 27.4<br>( 20.4 - 31.7 ) | 6.5<br>( 5.5 - 7.4 ) | 94<br>( 84 - 108 ) |
| Hap Mun Bay Beach            | 8.30<br>( 8.14 - 8.49 ) | 30.9<br>( 21.2 - 33.6 ) | 2.88<br>( 0.92 - 10.80 ) | 28.1<br>( 20.4 - 31.9 ) | 6.3<br>( 5.6 - 7.7 ) | 94<br>( 82 - 106 ) |
| Kiu Tsui Beach               | 8.30<br>( 8.13 - 8.50 ) | 30.5<br>( 21.4 - 33.6 ) | 2.11<br>( 0.57 - 7.12 )  | 28.2<br>( 20.4 - 32.0 ) | 6.5<br>( 5.6 - 7.6 ) | 97<br>( 76 - 119 ) |
| Silverstrand Beach           | 8.31<br>( 8.13 - 8.49 ) | 29.0<br>( 15.9 - 32.4 ) | 4.32<br>( 1.03 - 16.80 ) | 27.5<br>( 20.1 - 31.5 ) | 6.5<br>( 5.3 - 8.1 ) | 95<br>( 77 - 110 ) |
| Trio Beach                   | 8.27<br>( 7.95 - 8.44 ) | 29.1<br>( 11.3 - 33.3 ) | 3.17<br>( 0.88 - 6.85 )  | 28.2<br>( 20.5 - 32.9 ) | 6.3<br>( 5.5 - 7.6 ) | 93<br>( 80 - 103 ) |

**Tsuen Wan District**

|                       |                         |                         |                          |                         |                      |                    |
|-----------------------|-------------------------|-------------------------|--------------------------|-------------------------|----------------------|--------------------|
| Anglers' Beach        | 8.21<br>( 7.99 - 8.71 ) | 27.6<br>( 11.1 - 33.1 ) | 4.08<br>( 1.13 - 10.90 ) | 26.4<br>( 19.5 - 30.7 ) | 6.5<br>( 4.7 - 9.3 ) | 92<br>( 70 - 130 ) |
| Approach Beach        | 8.22<br>( 7.92 - 8.61 ) | 25.8<br>( 11.4 - 32.8 ) | 4.64<br>( 0.98 - 11.40 ) | 26.6<br>( 19.8 - 30.0 ) | 6.8<br>( 5.1 - 9.4 ) | 96<br>( 74 - 130 ) |
| Casam Beach           | 8.22<br>( 8.04 - 8.65 ) | 26.8<br>( 13.6 - 33.1 ) | 3.20<br>( 1.06 - 4.83 )  | 26.4<br>( 19.6 - 30.2 ) | 6.7<br>( 5.3 - 8.8 ) | 94<br>( 80 - 128 ) |
| Gemini Beaches *      | 8.19<br>( 7.98 - 8.66 ) | 27.5<br>( 13.7 - 33.0 ) | 3.30<br>( 1.15 - 7.31 )  | 26.4<br>( 20.1 - 30.5 ) | 6.4<br>( 4.3 - 7.9 ) | 91<br>( 64 - 113 ) |
| Hoi Mei Wan Beach     | 8.20<br>( 8.00 - 8.65 ) | 26.6<br>( 13.7 - 33.0 ) | 3.25<br>( 1.11 - 7.31 )  | 26.7<br>( 20.3 - 30.6 ) | 6.7<br>( 5.2 - 8.3 ) | 95<br>( 79 - 123 ) |
| Lido Beach            | 8.20<br>( 8.03 - 8.63 ) | 26.8<br>( 13.8 - 32.8 ) | 3.51<br>( 1.20 - 6.45 )  | 26.4<br>( 20.1 - 29.9 ) | 6.6<br>( 4.8 - 7.9 ) | 92<br>( 73 - 110 ) |
| Ma Wan Tung Wan Beach | 8.19<br>( 7.97 - 8.56 ) | 28.0<br>( 16.9 - 33.1 ) | 5.23<br>( 1.46 - 13.50 ) | 26.6<br>( 19.8 - 30.9 ) | 6.7<br>( 5.1 - 8.9 ) | 95<br>( 79 - 130 ) |
| Ting Kau Beach        | 8.22<br>( 7.95 - 8.57 ) | 26.0<br>( 11.8 - 32.0 ) | 3.61<br>( 0.80 - 10.20 ) | 26.6<br>( 19.7 - 30.3 ) | 6.8<br>( 5.2 - 8.7 ) | 96<br>( 77 - 128 ) |

**Tuen Mun District**

|                     |                         |                        |                          |                         |                       |                    |
|---------------------|-------------------------|------------------------|--------------------------|-------------------------|-----------------------|--------------------|
| Butterfly Beach     | 8.22<br>( 7.86 - 8.63 ) | 24.1<br>( 8.8 - 32.4 ) | 6.08<br>( 2.34 - 15.50 ) | 27.1<br>( 20.4 - 31.0 ) | 6.8<br>( 5.1 - 9.9 )  | 97<br>( 79 - 130 ) |
| Cafeteria New Beach | 8.23<br>( 7.85 - 8.67 ) | 23.3<br>( 7.3 - 32.9 ) | 6.34<br>( 2.36 - 14.30 ) | 27.2<br>( 20.4 - 31.1 ) | 6.6<br>( 5.1 - 9.2 )  | 95<br>( 79 - 128 ) |
| Cafeteria Old Beach | 8.20<br>( 7.82 - 8.64 ) | 22.8<br>( 6.2 - 32.4 ) | 6.26<br>( 2.54 - 13.20 ) | 27.1<br>( 20.4 - 31.1 ) | 6.5<br>( 5.0 - 8.9 )  | 92<br>( 77 - 126 ) |
| Castle Peak Beach   | 8.22<br>( 7.82 - 8.62 ) | 23.0<br>( 7.2 - 31.8 ) | 4.90<br>( 1.73 - 10.90 ) | 27.3<br>( 20.4 - 31.5 ) | 6.9<br>( 4.6 - 9.8 )  | 99<br>( 70 - 130 ) |
| Golden Beach        | 8.21<br>( 7.82 - 8.64 ) | 22.4<br>( 6.3 - 33.0 ) | 7.43<br>( 2.07 - 18.00 ) | 27.7<br>( 20.4 - 30.8 ) | 6.7<br>( 5.1 - 8.7 )  | 94<br>( 69 - 123 ) |
| Kadoorie Beach      | 8.21<br>( 7.83 - 8.65 ) | 22.7<br>( 6.3 - 32.6 ) | 4.89<br>( 1.75 - 10.50 ) | 27.4<br>( 20.5 - 31.1 ) | 6.7<br>( 4.6 - 10.0 ) | 94<br>( 69 - 130 ) |

**Islands District**

|                            |                         |                         |                           |                         |                       |                    |
|----------------------------|-------------------------|-------------------------|---------------------------|-------------------------|-----------------------|--------------------|
| Cheung Chau Tung Wan Beach | 8.27<br>( 8.08 - 8.58 ) | 28.5<br>( 20.5 - 32.7 ) | 4.01<br>( 1.02 - 9.67 )   | 26.8<br>( 19.9 - 30.5 ) | 6.8<br>( 5.8 - 9.3 )  | 97<br>( 82 - 129 ) |
| Hung Shing Yeh Beach       | 8.28<br>( 8.06 - 8.53 ) | 28.2<br>( 16.2 - 33.2 ) | 6.69<br>( 1.45 - 28.10 )  | 27.4<br>( 19.3 - 31.5 ) | 6.7<br>( 5.1 - 8.1 )  | 96<br>( 77 - 128 ) |
| Kwun Yam Beach             | 8.25<br>( 8.03 - 8.59 ) | 28.0<br>( 20.6 - 33.0 ) | 3.24<br>( 1.14 - 8.64 )   | 26.6<br>( 19.8 - 30.0 ) | 6.9<br>( 5.6 - 9.9 )  | 98<br>( 84 - 130 ) |
| Lo So Shing Beach          | 8.32<br>( 8.07 - 8.62 ) | 28.3<br>( 17.8 - 33.4 ) | 4.42<br>( 1.32 - 10.80 )  | 27.2<br>( 19.2 - 31.8 ) | 6.9<br>( 6.0 - 8.7 )  | 97<br>( 84 - 126 ) |
| Lower Cheung Sha Beach     | 8.32<br>( 8.08 - 8.57 ) | 27.6<br>( 13.0 - 33.1 ) | 9.83<br>( 1.39 - 30.20 )  | 27.8<br>( 20.4 - 32.0 ) | 6.5<br>( 5.5 - 8.0 )  | 93<br>( 76 - 108 ) |
| Pui O Beach                | 8.28<br>( 8.07 - 8.55 ) | 27.2<br>( 11.9 - 33.1 ) | 15.28<br>( 4.04 - 49.60 ) | 28.5<br>( 19.9 - 33.9 ) | 6.3<br>( 5.0 - 7.5 )  | 92<br>( 80 - 103 ) |
| Silver Mine Bay Beach      | 8.22<br>( 7.95 - 8.70 ) | 24.9<br>( 9.7 - 32.3 )  | 8.81<br>( 3.24 - 31.90 )  | 28.4<br>( 20.7 - 33.6 ) | 6.5<br>( 4.8 - 10.0 ) | 93<br>( 67 - 130 ) |
| Tong Fuk Beach             | 8.32<br>( 8.07 - 8.58 ) | 28.0<br>( 12.7 - 33.1 ) | 7.59<br>( 1.86 - 25.30 )  | 27.7<br>( 20.3 - 32.3 ) | 6.7<br>( 5.5 - 8.1 )  | 95<br>( 83 - 107 ) |
| Upper Cheung Sha Beach     | 8.31<br>( 8.08 - 8.54 ) | 28.1<br>( 12.9 - 33.2 ) | 8.40<br>( 2.40 - 26.70 )  | 27.7<br>( 20.3 - 31.7 ) | 6.6<br>( 5.6 - 8.3 )  | 94<br>( 84 - 108 ) |

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

## Footnote:

1. Practical Salinity Unit

2. Nephelometric Turbidity Unit

\*Beaches not open for swimming (no lifeguard service)