

# **Beach Water Quality in Hong Kong 2021**

### **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: Charming beaches under clear sky]

### **Introduction**

Sea bathing at scenic beaches is one of the popular outdoor activities of Hong Kong residents and tourists. To safeguard public health, the Government is committed to maintain a clean and safe swimming environment for beachgoers.

Since the establishment of the Environmental Protection Department (EPD) in 1986, a comprehensive Beach Water Quality Monitoring Programme has been implemented. This report summarizes the beach monitoring data collected in 2021, corresponding grading and bacteriological Water Quality Objective (WQO) compliance rate for bathing waters.

[Photo: Public enjoying sea bathing on a sunny day]

The COVID-19 pandemic still prevailed in 2021. In spite of that, EPD had strived to continue the water quality monitoring work at all beaches in the territory. In the period, EPD staff conducted field visits to inspect the beach conditions and collect water samples for laboratory analysis of *Escherichia coli* (*E. coli*) level. Physicochemical water quality parameters including dissolved oxygen, pH, salinity, temperature and turbidity of beach water were also measured in-situ for reference purpose.

[Photo: Water sampling and field measurement at beaches]

[Photo: Analysis of water samples at EPD's environmental microbiology laboratory]

EPD has established a dual rating system for beach water quality based on *E. coli* level as an indicator to assess the annual ranking and weekly grading of the beaches. Each ranking or grading represents a defined risk level of contracting minor swimming-associated gastrointestinal and skin illnesses. The annual ranking reflects the overall water quality of the beach in the entire bathing season, while the weekly grading traces recent water quality changes. 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 information displayed at the gazetted beaches]

### **Annual Beach Ranking in 2021**

Upon the opening of Tai Po Lung Mei Beach to the public on 23 June 2021, the number of gazetted beaches in Hong Kong increased to a total of 42. All these 42 gazetted beaches complied with the bacteriological WQO in 2021, among which 30 beaches (or 71%), 6 more than in 2020, received a “Good” ranking and 12 (or 29%) received a “Fair” ranking. No beaches were in the “Poor” or “Very Poor” ranking in both years.

[Photo: Middle Bay Beach has maintained a “Good” annual ranking since 1998]

The overall beach water quality this year was satisfactory, with number of “Good” ranking beaches reaching close to the record high. The cumulative rainfall in the 2021 bathing season (2 220 mm) was on par with the 30-year climatological average in 1991-2020 (2 285 mm), while the months of March to May and August to September were drier than normal. Hence the water quality remained largely stable during these periods, and presented higher extent of fluctuation in the exceptionally humid October. At the same time, the number of bright sunshine hours during the 2021 bathing season was 8.4% higher than the 30-year climatological average, enhancing the natural recovery of water quality.

The 42 gazetted beaches are distributed in 6 districts, namely Tuen Mun, Tsuen Wan, Southern (Hong Kong Island South), Islands, Sai Kung and Tai Po.

Across the territory, Sai Kung District remained better in beach water quality in 2021 with all its 6 beaches receiving a “Good” annual ranking. All the 12 beaches in the Southern District and the 9 beaches in the Islands District maintained the same ranking as in last year, with each district having one beach with “Fair” ranking (Big Wave Bay Beach in Southern District and Silver Mine Bay Beach in Islands District), and the rest were all ranked as “Good”.

Tuen Mun District made a record of having 4 beaches (Golden Beach, Cafeteria New Beach, Cafeteria Old Beach and Kadoorie Beach) ranked “Good” and 2 beaches (Castle Peak Beach and Butterfly Beach) ranked “Fair”. Cafeteria Old Beach and Kadoorie Beach were ranked “Good” for the first time since the monitoring programme started in 1986.

[Photo: The flat and broad Pui O Beach]

Located adjacent to Tuen Mun District, Tsuen Wan District had all its 8 beaches maintained a “Fair” ranking as in last year. Since the gradual re-opening of all Tsuen Wan beaches between 2011 and 2014 due to water quality improvement upon 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, stable water quality suitable for bathing has been observed at these beaches.

Tai Po Lung Mei Beach is the only public bathing beach in Tai Po District. The beach ended its first bathing season with a “Good” annual ranking.

[Photo: Tai Po Lung Mei Beach became a new leisure resort in the district]

In 2021, EPD continued to monitor 2 non-gazetted beaches, the popular Discovery Bay in Lantau Island and the sandy New Kiu Tsui adjacent to Kiu Tsui Beach in Sai Kung. Both beaches maintained a “Good” ranking as in last year.

### **Weekly Beach Grading in 2021**

On top of the annual ranking, EPD also issues weekly grading of gazetted beaches during their usual opening periods to keep beachgoers informed of more recent changes in beach water quality. These latest grading information is disseminated through different channels including press releases, EPD's beach thematic website, beach water quality hotline, GeoInfo Map of the GovHK website and noticeboards at the beaches. An overview of the weekly grading status of the beaches in 2021 is provided below.

The 6 beaches in the Sai Kung District, which all received “Good” annual ranking, also performed well in terms of their weekly grading, and on average attained a “Good” grading for 88% of time in this bathing season. There was only 1 occasion when Silverstrand Beach was graded “Very Poor” in early October, with the water quality recovering to normal level on the following day.

Beaches in the Southern District maintained a long period of good water quality. Among the 10 beaches in the district, Repulse Bay Beach, South Bay Beach, Chung Hom Kok Beach, St. Stephen’s Beach, Turtle Cove Beach and Shek O Beach achieved a “Good” grading throughout the entire bathing season. Middle Bay Beach was graded as “Very Poor” once in late April and Big Wave Bay Beach once in early August, both occurrences were associated with rainfall.

[Photo: The energetic Shek O Beach]

A majority of the beaches in the Islands District had excellent water quality. Among them, Hung Shing Yeh Beach, Lo So Shing Beach and Upper Cheung Sha Beach achieved a “Good” grading for 100% of the time in

this bathing season. Lower Cheung Sha Beach and Kwun Yam Beach were graded “Very Poor” once in June and July respectively after heavy rain, while Silver Mine Bay Beach received a “Very Poor” grading 3 times between late June and late August.

Apart from Butterfly Beach and Castle Peak Beach which were graded “Fair” for most of the time and occasionally “Very Poor” after heavy rain in the bathing season, the other 4 beaches in the Tuen Mun District had overall achieved a considerably better weekly grading status when compared to the past few years.

[Photo: Golden Beach is one of the most popular beaches for family activities]

Similar to last year, beaches in the Tsuen Wan District were graded “Fair” in most of the time in this bathing season. A certain degree of improvement could be seen at Approach Beach, Ting Kau Beach and Casam Beach, where “Good” grading was recorded during mid-late April with ample sunshine. Except Hoi Mei Wan Beach, all other open Tsuen Wan beaches were graded “Very Poor” for 1 to 2 times.

Tai Po Lung Mei Beach in the Tai Po District was generally graded “Good” and only temporarily changed to a “Fair” grading between late July and mid August due to heavy rain. The beach did not record any “Poor” or “Very Poor” grading in the entire 2021.

## **Water Quality Trend**

The satisfying beach water quality in Hong Kong today is the outcome of continuous efforts of the Government and stakeholders in the past two decades. Beaches' rate of compliance with the bacteriological WQO had once deteriorated from 74% in 1986 (29 of 39 beaches) to 63% (26 of 41 beaches) in 1997, and thereafter improved gradually to 100% in 2010. The status of full compliance has maintained for 12 consecutive years since then.

## **Comparison of annual beach ranking of gazetted beaches in 1986, 1997 and 2021**

| 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)  |
| 2021 | 71.4% (30)    | 28.6% (12) | -                 | -         |

( ) No. of beaches

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

In 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 associated with new town development. In view of the situation, the Government invested resources extensively to implement various pollution abatement measures, including enforcement of environmental legislation (e.g. Water Pollution Control Ordinance and Livestock Waste Control Scheme), extension of sewerage network, provision of new sewage treatment facilities and upgrade of existing facilities. In particular the Harbour Area Treatment Scheme, a core infrastructure project, has brought marked improvement in beach water quality. The major water quality 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  | Beaches with Water Quality Improvement           |
| 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                                 |
| 1991- 1995   |  |
| 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 - 2021</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 consistently complied with the required bacteriological water quality standard established based on swimming-associated health risk. EPD will continue to closely monitor the beach water quality to support water quality management policy, and to provide latest water quality data for beach users' reference.

### **Rate of compliance with bacteriological WQO at gazetted beaches during 1997 – 2021**

[Figure: Compliance rate with bacteriological WQO at gazetted beaches during 1997 - 2021]

Appendix D of this report provides graphs of water quality trend of all gazetted beaches since the monitoring programme started. The public can also 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 annual beach water quality reports and data published since 2000.

[Photos: We love 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    | Kiu Tsui               | Ma Wan Tung Wan    | Butterfly         | Silver Mine Bay      | Tai Po 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             |                 |
| Hairpin           |                        | Approach           |                   | Hung Shing Yeh       |                 |
| Turtle Cove       |                        |                    |                   | Lo So Shing          |                 |
| Shek O            |                        |                    |                   | Discovery Bay**      |                 |
| Rocky Bay         |                        |                    |                   |                      |                 |
| Big Wave Bay      |                        |                    |                   |                      |                 |

\*\* Non-gazetted beaches

### Beach monitoring frequency

| 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



## 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 2021 Findings**

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**2021 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>           | Lo So Shing            | 2                                    |
|                       | Hap Mun Bay            | 3                                    |
|                       | Hung Shing Yeh         | 3                                    |
|                       | St. Stephen's          | 3                                    |
|                       | South Bay              | 4                                    |
|                       | Trio                   | 4                                    |
|                       | Upper Cheung Sha       | 4                                    |
|                       | Chung Hom Kok          | 5                                    |
|                       | Repulse Bay            | 5                                    |
|                       | Tong Fuk               | 5                                    |
|                       | Hairpin                | 6                                    |
|                       | Turtle Cove            | 6                                    |
|                       | Kiu Tsui               | 7                                    |
|                       | Clear Water Bay First  | 8                                    |
|                       | Shek O                 | 8                                    |
|                       | Clear Water Bay Second | 9                                    |
|                       | Stanley Main           | 9                                    |
|                       | Cheung Chau Tung Wan   | 10                                   |
|                       | Tai Po Lung Mei Beach  | 12                                   |
|                       | Deep Water Bay         | 13                                   |
|                       | Kwun Yam               | 15                                   |
|                       | Middle Bay             | 16                                   |
|                       | Cafeteria New          | 17                                   |
|                       | Silverstrand           | 18                                   |
|                       | Golden                 | 19                                   |
|                       | Kadoorie               | 19                                   |
|                       | Lower Cheung Sha       | 20                                   |
|                       | Pui O                  | 22                                   |
|                       | Cafeteria Old          | 23                                   |
|                       | Rocky Bay              | 24                                   |
| <b>Fair</b>           | Big Wave Bay           | 28                                   |
|                       | Silver Mine Bay        | 56                                   |
|                       | Butterfly              | 57                                   |
|                       | Approach               | 71                                   |
|                       | Casam                  | 74                                   |
|                       | Hoi Mei Wan            | 76                                   |
|                       | Ting Kau               | 85                                   |
|                       | Ma Wan Tung Wan        | 93                                   |
|                       | Lido                   | 98                                   |
|                       | Castle Peak            | 103                                  |
|                       | Gemini                 | 127                                  |
|                       | Anglers'               | 135                                  |

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

## Annual ranking of gazetted beaches at a glance in 2021

| 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  | Good           |
|           | Clear Water Bay Second | Good           |
|           | Hap Mun Bay            | Good           |
|           | Kiu Tsui               | Good           |
|           | Silverstrand           | Good           |
|           | Trio                   | Good           |
| Tai Po    | Tai Po Lung Mei        | 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          | Good           |
|           | Cafeteria Old          | Good           |
|           | Castle Peak            | Fair           |
|           | Golden                 | Good           |
|           | Kadoorie               | Good           |
| 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 2021**

| District         | Percentage of Weekly Gradings |         |         |         | Total no. of<br>Grading Occasions |
|------------------|-------------------------------|---------|---------|---------|-----------------------------------|
|                  | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |                                   |
| <b>Southern</b>  | 85.5%                         | 13.3%   | 0.6%    | 0.6%    | 338                               |
| <b>Sai Kung</b>  | 87.3%                         | 12.2%   | 0.0%    | 0.5%    | 205                               |
| <b>Tai Po</b>    | 85.3%                         | 14.7%   | 0.0%    | 0.0%    | 34                                |
| <b>Tsuen Wan</b> | 9.8%                          | 76.0%   | 11.0%   | 3.3%    | 246                               |
| <b>Tuen Mun</b>  | 54.2%                         | 40.7%   | 2.3%    | 2.8%    | 216                               |
| <b>Islands</b>   | 77.5%                         | 18.2%   | 2.6%    | 1.6%    | 307                               |

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           | 47 %                          | 44 %    | 6 %     | 3 %     |
| Chung Hom Kok  | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Deep Water Bay | Good           | 65 %                          | 35 %    | 0 %     | 0 %     |
| Hairpin *      | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Middle Bay     | Good           | 63 %                          | 34 %    | 0 %     | 3 %     |
| Repulse Bay    | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Rocky Bay *    | Good           | 39 %                          | 58 %    | 0 %     | 3 %     |
| 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           | 82 %                          | 18 %    | 0 %     | 0 %     |
| Turtle Cove    | Good           | 100 %                         | 0 %     | 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           | 91 %                          | 9 %     | 0 %     | 0 %     |
| Clear Water Bay Second | Good           | 79 %                          | 21 %    | 0 %     | 0 %     |
| Hap Mun Bay            | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| Kiu Tsui               | Good           | 97 %                          | 3 %     | 0 %     | 0 %     |
| Silverstrand           | Good           | 60 %                          | 37 %    | 0 %     | 3 %     |
| Trio                   | Good           | 97 %                          | 3 %     | 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           | 6 %                           | 60 %    | 29 %    | 6 %     |
| <b>Approach</b>        | Fair           | 11 %                          | 83 %    | 3 %     | 3 %     |
| <b>Casam</b>           | Fair           | 17 %                          | 74 %    | 6 %     | 3 %     |
| <b>Gemini *</b>        | Fair           | 6 %                           | 50 %    | 41 %    | 3 %     |
| <b>Hoi Mei Wan</b>     | Fair           | 12 %                          | 82 %    | 6 %     | 0 %     |
| <b>Lido</b>            | Fair           | 8 %                           | 75 %    | 11 %    | 6 %     |
| <b>Ting Kau</b>        | Fair           | 14 %                          | 63 %    | 20 %    | 3 %     |
| <b>Ma Wan Tung Wan</b> | Fair           | 0 %                           | 94 %    | 3 %     | 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 |
| Butterfly     | Fair           | 21 %                          | 66 %    | 5 %     | 8 %     |
| Cafeteria New | Good           | 83 %                          | 17 %    | 0 %     | 0 %     |
| Cafeteria Old | Good           | 69 %                          | 31 %    | 0 %     | 0 %     |
| Castle Peak   | Fair           | 0 %                           | 86 %    | 8 %     | 5 %     |
| Golden        | Good           | 83 %                          | 14 %    | 0 %     | 3 %     |
| Kadoorie      | Good           | 74 %                          | 26 %    | 0 %     | 0 %     |

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           | 91 %                          | 9 %     | 0 %     | 0 %     |
| <b>Hung Shing Yeh</b>       | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| <b>Kwun Yam</b>             | Good           | 74 %                          | 24 %    | 0 %     | 3 %     |
| <b>Lo So Shing</b>          | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |
| <b>Lower Cheung Sha</b>     | Good           | 60 %                          | 37 %    | 0 %     | 3 %     |
| <b>Pui O</b>                | Good           | 50 %                          | 50 %    | 0 %     | 0 %     |
| <b>Silver Mine Bay</b>      | Fair           | 41 %                          | 30 %    | 22 %    | 8 %     |
| <b>Tong Fuk</b>             | Good           | 88 %                          | 12 %    | 0 %     | 0 %     |
| <b>Upper Cheung Sha</b>     | Good           | 100 %                         | 0 %     | 0 %     | 0 %     |

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

Annual ranking and weekly grading summary - Tai Po District beaches

| Beach           | Annual Ranking | Percentage of Weekly Gradings |         |         |         |
|-----------------|----------------|-------------------------------|---------|---------|---------|
|                 |                | Grade 1                       | Grade 2 | Grade 3 | Grade 4 |
| Tai Po Lung Mei | Good           | 72 %                          | 28 %    | 0 %     | 0 %     |

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

### Annual beach rankings of gazetted beaches from 1986 to 2021

| 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    |
| 2021 | 30                             | 12   | 0    | 0         | 42    |

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

### Comparison of annual beach ranking of gazetted beaches in 1986 and 2021

| Year | WQO Compliant |            | WQO Non-compliant |           |
|------|---------------|------------|-------------------|-----------|
|      | Good          | Fair       | Poor              | Very Poor |
| 1986 | 23.1% (9)     | 51.3% (20) | 17.9% (7)         | 7.7% (3)  |
| 2021 | 71.4% (30)    | 28.6% (12) | 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 - 2021**

| <b>Year</b> | <b>Southern</b> | <b>Sai Kung</b> | <b>Tsuen Wan</b> | <b>Tuen Mun</b> | <b>Islands</b> |
|-------------|-----------------|-----------------|------------------|-----------------|----------------|
| <b>1997</b> | 55              | 26              | 562              | 326             | 24             |
| <b>1998</b> | 34              | 17              | 321              | 125             | 12             |
| <b>1999</b> | 16              | 9               | 231              | 59              | 7              |
| <b>2000</b> | 16              | 11              | 219              | 57              | 8              |
| <b>2001</b> | 18              | 13              | 321              | 101             | 12             |
| <b>2002</b> | 10              | 12              | 666              | 70              | 7              |
| <b>2003</b> | 11              | 14              | 566              | 85              | 8              |
| <b>2004</b> | 9               | 10              | 405              | 64              | 5              |
| <b>2005</b> | 14              | 14              | 576              | 77              | 8              |
| <b>2006</b> | 13              | 11              | 447              | 122             | 11             |
| <b>2007</b> | 9               | 8               | 294              | 77              | 9              |
| <b>2008</b> | 11              | 13              | 247              | 56              | 12             |
| <b>2009</b> | 11              | 13              | 163              | 43              | 10             |
| <b>2010</b> | 14              | 10              | 90               | 39              | 8              |
| <b>2011</b> | 7               | 5               | 25               | 34              | 7              |
| <b>2012</b> | 11              | 10              | 50               | 47              | 8              |
| <b>2013</b> | 12              | 15              | 85               | 54              | 11             |
| <b>2014</b> | 12              | 13              | 76               | 44              | 12             |
| <b>2015</b> | 14              | 8               | 70               | 45              | 10             |
| <b>2016</b> | 17              | 18              | 57               | 66              | 16             |
| <b>2017</b> | 9               | 11              | 51               | 46              | 12             |
| <b>2018</b> | 8               | 10              | 97               | 31              | 8              |
| <b>2019</b> | 12              | 12              | 81               | 63              | 11             |
| <b>2020</b> | 8               | 11              | 93               | 65              | 8              |
| <b>2021</b> | 8               | 7               | 92               | 31              | 9              |

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 - 2021)

| 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 | 2021 |
|---------------------------|-------|-------|------|------|------|-------|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| <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   | 28   |
| 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    | 5    |
| 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   | 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*   | 6*   |
| 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   | 16   |
| 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    | 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*  | 24*  |
| 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    | 8    |
| South Bay                 | 17    | 6     | 4    | 7    | 5    | 5     | 11   | 9     | 7     | 7    | 5    | 5    | 4    | 4    | 4    | 5    | 4    | 5    | 9    | 5    | 3    | 2    | 4    | 3    | 4    |
| 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    | 3    |
| 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    | 9    |
| 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    | 6    |
| <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   | 8    |
| 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   | 9    |
| Hap Mun Bay               | 3     | 2     | 2    | 2    | 1    | 2     | 4    | 3     | 4     | 4    | 3    | 5    | 3    | 3    | 2    | 2    | 7    | 4    | 2    | 4    | 3    | 2    | 3    | 3    | 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   | 7    |
| 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   | 18   |
| 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    | 4    |
| <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  | 135  |
| 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  | 71   |
| 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   | 74   |
| 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* | 127* |
| 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   | 76   |
| 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   | 98   |
| 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   | 93   |
| 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   | 85   |
| <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  | 57   |
| 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   | 17   |
| 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   | 23   |
| 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  | 103  |
| 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   | 19   |
| 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   | 19   |
| <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   | 10   |
| 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    | 3    |
| 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    | 15   |
| 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    | 2    |
| 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   | 20   |
| 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   | 22   |
| 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   | 56   |
| 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    | 5    |
| 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    | 4    |
| <b>Tai Po District</b>    |       |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Tai Po Lung Mei           |       |       |      |      |      |       |      |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 12   |

Note:  
\* Beach not open for swimming that year



## 2021 Beach visitor number

| Beach                  | Daily Average |                            | Peak Day | Peak Month | Total   |
|------------------------|---------------|----------------------------|----------|------------|---------|
|                        | Weekdays      | Weekends & Public Holidays |          |            |         |
| Southern District      |               |                            |          |            |         |
| Big Wave Bay           | 245           | 832                        | 2 000    | 21 110     | 92 830  |
| Chung Hom Kok          | 39            | 265                        | 800      | 5 230      | 24 030  |
| Deep Water Bay         | 1 037         | 4 381                      | 12 000   | 90 700     | 452 800 |
| Hairpin                | 102           | 200                        | 500      | 4 800      | 28 450  |
| Middle Bay             | 97            | 197                        | 400      | 4 750      | 27 450  |
| Repulse Bay            | 994           | 6 678                      | 13 100   | 116 330    | 607 680 |
| Rocky Bay              | ---           | ---                        | ---      | ---        | ---     |
| Shek O                 | 358           | 1 813                      | 7 000    | 56 300     | 177 440 |
| South Bay              | 73            | 253                        | 500      | 5 550      | 28 000  |
| St. Stephen's          | 46            | 137                        | 400      | 3 500      | 16 060  |
| Stanley Main           | 762           | 2 092                      | 5 000    | 54 000     | 253 871 |
| Turtle Cove            | 106           | 202                        | 480      | 5 270      | 29 060  |
| Sai Kung District      |               |                            |          |            |         |
| Clear Water Bay First  | 127           | 458                        | 880      | 9 620      | 50 000  |
| Clear Water Bay Second | 1 072         | 1 891                      | 4 600    | 53 500     | 283 500 |
| Hap Mun Bay            | 379           | 1 317                      | 3 700    | 33 740     | 145 695 |
| Kiu Tsui               | 133           | 301                        | 600      | 6 510      | 39 830  |
| Silverstrand           | 363           | 1 133                      | 2 600    | 26 570     | 130 485 |
| Trio                   | 458           | 1 080                      | 2 480    | 32 830     | 140 160 |
| Tsuen Wan District     |               |                            |          |            |         |
| Anglers'               | 124           | 453                        | 870      | 9 930      | 49 240  |
| Approach               | 77            | 140                        | 270      | 4 550      | 20 680  |
| Casam                  | 62            | 87                         | 160      | 2 760      | 14 860  |
| Gemini                 | 24            | 74                         | 250      | 1 380      | 8 540   |
| Hoi Mei Wan            | 36            | 303                        | 830      | 5 000      | 26 320  |
| Lido                   | 426           | 799                        | 1 830    | 26 670     | 115 950 |
| Ma Wan Tung Wan        | 241           | 967                        | 2 670    | 18 960     | 101 620 |
| Ting Kau               | 107           | 441                        | 710      | 7 980      | 45 935  |
| Tuen Mun District      |               |                            |          |            |         |
| Butterfly              | 546           | 910                        | 1 550    | 28 150     | 140 700 |
| Cafeteria New          | 911           | 1 744                      | 5 300    | 61 000     | 250 550 |
| Cafeteria Old          | 555           | 1 090                      | 1 590    | 24 820     | 154 540 |
| Castle Peak            | 348           | 790                        | 1 200    | 18 000     | 104 300 |
| Golden                 | 814           | 2 813                      | 8 000    | 67 800     | 311 720 |
| Kadoorie               | 831           | 803                        | 1 400    | 32 040     | 173 370 |
| Islands District       |               |                            |          |            |         |
| Cheung Chau Tung Wan   | 474           | 1 505                      | 2 520    | 29 150     | 172 175 |
| Hung Shing Yeh         | 611           | 1 020                      | 2 010    | 26 280     | 157 530 |
| Kwun Yam               | 151           | 575                        | 1 600    | 14 250     | 61 440  |
| Lo So Shing            | 148           | 247                        | 430      | 6 650      | 38 230  |
| Lower Cheung Sha       | 405           | 1 430                      | 2 250    | 33 000     | 157 250 |
| Pui O                  | 664           | 1 299                      | 2 800    | 45 010     | 184 530 |
| Silver Mine Bay        | 466           | 1 741                      | 5 650    | 39 640     | 187 480 |
| Tong Fuk               | 369           | 730                        | 1 510    | 26 690     | 103 110 |
| Upper Cheung Sha       | 398           | 533                        | 860      | 18 120     | 93 400  |
| Tai Po District        |               |                            |          |            |         |
| Tai Po Lung Mei        | 664           | 2 592                      | 10 100   | 58 077     | 164 697 |

Note: Information provided by the Leisure and Cultural Services Department

**Physicochemical water quality data for gazetted beaches, 2021**

| Beach Name               | pH                      | Salinity<br>(psu) <sup>1</sup> | Turbidity<br>(NTU) <sup>2</sup> | Temperature<br>(°C)     | Dissolved Oxygen<br>(mg/L) | (% Saturation)      |
|--------------------------|-------------------------|--------------------------------|---------------------------------|-------------------------|----------------------------|---------------------|
| <b>Southern District</b> |                         |                                |                                 |                         |                            |                     |
| Big Wave Bay Beach       | 8.27<br>( 8.01 - 8.51 ) | 30.0<br>( 12.7 - 33.6 )        | 3.39<br>( 1.02 - 14.20 )        | 26.6<br>( 19.5 - 30.9 ) | 6.7<br>( 5.2 - 8.8 )       | 95<br>( 76 - 129 )  |
| Chung Hom Kok Beach      | 8.26<br>( 8.05 - 8.49 ) | 30.7<br>( 25.2 - 33.6 )        | 3.78<br>( 1.27 - 8.73 )         | 27.3<br>( 20.3 - 31.1 ) | 6.3<br>( 4.7 - 7.9 )       | 90<br>( 69 - 110 )  |
| Deep Water Bay Beach     | 8.22<br>( 8.01 - 8.53 ) | 30.1<br>( 24.5 - 33.7 )        | 6.45<br>( 1.85 - 18.10 )        | 27.6<br>( 20.3 - 31.8 ) | 6.4<br>( 4.5 - 7.7 )       | 91<br>( 69 - 120 )  |
| Hairpin Beach *          | 8.31<br>( 8.06 - 8.53 ) | 31.0<br>( 24.9 - 33.7 )        | 2.39<br>( 0.61 - 11.90 )        | 27.5<br>( 20.1 - 32.0 ) | 6.9<br>( 4.9 - 8.9 )       | 99<br>( 77 - 130 )  |
| Middle Bay Beach         | 8.27<br>( 8.04 - 8.54 ) | 30.4<br>( 24.5 - 33.7 )        | 4.26<br>( 1.33 - 8.76 )         | 26.9<br>( 20.0 - 30.4 ) | 6.5<br>( 4.5 - 8.5 )       | 93<br>( 66 - 127 )  |
| Repulse Bay Beach        | 8.27<br>( 8.06 - 8.53 ) | 30.9<br>( 24.8 - 33.7 )        | 4.24<br>( 1.49 - 7.37 )         | 26.9<br>( 20.0 - 30.1 ) | 6.5<br>( 4.8 - 7.9 )       | 93<br>( 69 - 114 )  |
| Rocky Bay Beach *        | 8.23<br>( 8.06 - 8.48 ) | 31.7<br>( 24.6 - 33.7 )        | 3.15<br>( 0.97 - 13.80 )        | 26.2<br>( 19.7 - 30.7 ) | 6.5<br>( 4.5 - 9.1 )       | 92<br>( 66 - 128 )  |
| Shek O Beach             | 8.28<br>( 8.08 - 8.50 ) | 31.7<br>( 26.5 - 33.8 )        | 3.78<br>( 1.03 - 20.70 )        | 26.6<br>( 19.8 - 30.7 ) | 6.4<br>( 4.7 - 7.9 )       | 91<br>( 71 - 119 )  |
| South Bay Beach          | 8.26<br>( 8.03 - 8.54 ) | 30.8<br>( 24.6 - 33.7 )        | 2.71<br>( 0.85 - 9.04 )         | 27.1<br>( 20.0 - 30.5 ) | 6.3<br>( 4.3 - 7.7 )       | 91<br>( 63 - 117 )  |
| St. Stephen's Beach      | 8.25<br>( 8.06 - 8.48 ) | 30.6<br>( 24.4 - 33.8 )        | 2.95<br>( 1.26 - 5.94 )         | 27.3<br>( 20.4 - 30.8 ) | 6.3<br>( 4.4 - 8.1 )       | 90<br>( 65 - 117 )  |
| Stanley Main Beach       | 8.31<br>( 8.07 - 8.56 ) | 31.0<br>( 24.2 - 33.8 )        | 3.07<br>( 0.96 - 13.20 )        | 27.6<br>( 20.3 - 32.8 ) | 6.9<br>( 5.3 - 9.6 )       | 100<br>( 75 - 130 ) |
| Turtle Cove Beach        | 8.29<br>( 8.06 - 8.50 ) | 30.4<br>( 24.6 - 33.7 )        | 5.19<br>( 1.37 - 22.30 )        | 27.4<br>( 20.1 - 32.5 ) | 6.6<br>( 5.2 - 7.7 )       | 95<br>( 79 - 122 )  |

**Sai Kung District**

|                              |                         |                         |                          |                         |                      |                    |
|------------------------------|-------------------------|-------------------------|--------------------------|-------------------------|----------------------|--------------------|
| Clear Water Bay First Beach  | 8.23<br>( 8.06 - 8.43 ) | 31.1<br>( 17.2 - 33.6 ) | 4.33<br>( 0.88 - 14.30 ) | 27.4<br>( 19.6 - 32.0 ) | 6.4<br>( 5.3 - 8.2 ) | 93<br>( 76 - 128 ) |
| Clear Water Bay Second Beach | 8.22<br>( 8.10 - 8.41 ) | 31.7<br>( 15.8 - 34.0 ) | 5.58<br>( 1.45 - 17.10 ) | 27.1<br>( 19.6 - 31.6 ) | 6.3<br>( 4.8 - 9.5 ) | 91<br>( 75 - 127 ) |
| Hap Mun Bay Beach            | 8.25<br>( 8.12 - 8.39 ) | 32.0<br>( 25.4 - 33.6 ) | 2.56<br>( 0.36 - 7.66 )  | 27.7<br>( 20.0 - 32.0 ) | 6.5<br>( 5.1 - 8.1 ) | 94<br>( 71 - 116 ) |
| Kiu Tsui Beach               | 8.24<br>( 8.03 - 8.42 ) | 31.5<br>( 21.1 - 33.5 ) | 2.45<br>( 0.49 - 11.40 ) | 27.9<br>( 19.9 - 32.2 ) | 6.5<br>( 5.0 - 8.0 ) | 96<br>( 75 - 120 ) |
| Silverstrand Beach           | 8.22<br>( 7.89 - 8.37 ) | 30.4<br>( 21.8 - 33.1 ) | 4.31<br>( 0.91 - 14.60 ) | 27.3<br>( 19.5 - 31.7 ) | 6.4<br>( 4.6 - 8.4 ) | 92<br>( 69 - 125 ) |
| Trio Beach                   | 8.21<br>( 8.10 - 8.37 ) | 30.8<br>( 9.5 - 33.4 )  | 2.74<br>( 0.58 - 11.40 ) | 28.0<br>( 20.0 - 32.6 ) | 6.4<br>( 4.6 - 7.9 ) | 93<br>( 69 - 119 ) |

**Tsuen Wan District**

|                       |                         |                         |                          |                         |                      |                    |
|-----------------------|-------------------------|-------------------------|--------------------------|-------------------------|----------------------|--------------------|
| Anglers' Beach        | 8.16<br>( 7.97 - 8.57 ) | 29.1<br>( 20.3 - 32.9 ) | 4.03<br>( 1.48 - 8.52 )  | 26.8<br>( 20.8 - 30.2 ) | 5.9<br>( 4.3 - 8.3 ) | 84<br>( 64 - 120 ) |
| Approach Beach        | 8.18<br>( 7.97 - 8.53 ) | 27.8<br>( 21.5 - 32.2 ) | 4.78<br>( 1.28 - 16.10 ) | 26.9<br>( 20.3 - 30.0 ) | 6.3<br>( 4.1 - 8.6 ) | 89<br>( 63 - 116 ) |
| Casam Beach           | 8.18<br>( 7.96 - 8.53 ) | 28.3<br>( 21.8 - 32.6 ) | 3.78<br>( 1.75 - 9.25 )  | 27.1<br>( 20.6 - 30.5 ) | 6.2<br>( 5.0 - 7.6 ) | 89<br>( 72 - 109 ) |
| Gemini Beaches *      | 8.14<br>( 7.92 - 8.55 ) | 29.1<br>( 20.3 - 33.3 ) | 3.51<br>( 1.65 - 6.12 )  | 26.7<br>( 20.8 - 30.4 ) | 5.8<br>( 4.1 - 7.9 ) | 81<br>( 62 - 113 ) |
| Hoi Mei Wan Beach     | 8.15<br>( 7.89 - 8.48 ) | 28.1<br>( 21.4 - 32.7 ) | 3.04<br>( 1.12 - 5.92 )  | 27.1<br>( 20.6 - 30.7 ) | 5.9<br>( 4.1 - 8.9 ) | 84<br>( 60 - 129 ) |
| Lido Beach            | 8.16<br>( 7.87 - 8.48 ) | 28.5<br>( 21.7 - 33.3 ) | 4.32<br>( 1.55 - 7.75 )  | 26.9<br>( 20.6 - 30.2 ) | 6<br>( 4.3 - 7.4 )   | 85<br>( 63 - 101 ) |
| Ma Wan Tung Wan Beach | 8.14<br>( 7.99 - 8.42 ) | 29.2<br>( 23.9 - 32.6 ) | 5.88<br>( 1.60 - 12.40 ) | 26.9<br>( 19.8 - 30.2 ) | 6.1<br>( 4.6 - 7.9 ) | 87<br>( 68 - 107 ) |
| Ting Kau Beach        | 8.17<br>( 7.99 - 8.49 ) | 27.6<br>( 21.3 - 31.6 ) | 4.11<br>( 0.99 - 15.10 ) | 27.2<br>( 20.4 - 30.4 ) | 6.1<br>( 4.1 - 7.6 ) | 86<br>( 62 - 110 ) |

**Tuen Mun District**

|                     |                         |                         |                           |                         |                      |                    |
|---------------------|-------------------------|-------------------------|---------------------------|-------------------------|----------------------|--------------------|
| Butterfly Beach     | 8.17<br>( 7.97 - 8.67 ) | 25.8<br>( 17.4 - 32.2 ) | 10.01<br>( 2.04 - 51.60 ) | 28.1<br>( 20.7 - 31.5 ) | 6.1<br>( 4.2 - 8.9 ) | 88<br>( 60 - 130 ) |
| Cafeteria New Beach | 8.19<br>( 8.03 - 8.56 ) | 25.9<br>( 15.0 - 32.3 ) | 7.1<br>( 2.67 - 18.40 )   | 27.6<br>( 20.7 - 31.3 ) | 6<br>( 4.1 - 8.1 )   | 85<br>( 62 - 114 ) |
| Cafeteria Old Beach | 8.17<br>( 7.98 - 8.55 ) | 25.7<br>( 15.0 - 32.2 ) | 6.01<br>( 2.57 - 12.70 )  | 27.7<br>( 20.7 - 31.1 ) | 6<br>( 4.1 - 8.9 )   | 84<br>( 58 - 120 ) |
| Castle Peak Beach   | 8.18<br>( 7.85 - 8.56 ) | 25.3<br>( 15.6 - 32.2 ) | 6.51<br>( 1.95 - 16.20 )  | 28<br>( 20.8 - 32.1 )   | 6.5<br>( 4.6 - 9.3 ) | 91<br>( 64 - 130 ) |
| Golden Beach        | 8.18<br>( 7.99 - 8.50 ) | 25.7<br>( 15.1 - 32.4 ) | 7.51<br>( 2.63 - 15.80 )  | 27.6<br>( 20.5 - 31.2 ) | 6.2<br>( 4.1 - 8.6 ) | 88<br>( 61 - 120 ) |
| Kadoorie Beach      | 8.19<br>( 8.03 - 8.55 ) | 25.7<br>( 15.9 - 32.1 ) | 5.58<br>( 1.86 - 15.10 )  | 27.8<br>( 20.7 - 31.7 ) | 6.3<br>( 4.5 - 9.7 ) | 89<br>( 63 - 128 ) |

Islands District

|                            |                         |                         |                            |                         |                       |                    |
|----------------------------|-------------------------|-------------------------|----------------------------|-------------------------|-----------------------|--------------------|
| Cheung Chau Tung Wan Beach | 8.22<br>( 8.06 - 8.56 ) | 29.6<br>( 22.4 - 32.6 ) | 2.93<br>( 1.09 - 8.76 )    | 27.3<br>( 20.7 - 30.6 ) | 6.6<br>( 4.6 - 8.9 )  | 92<br>( 61 - 115 ) |
| Hung Shing Yeh Beach       | 8.23<br>( 7.90 - 8.54 ) | 30<br>( 20.6 - 33.7 )   | 4.98<br>( 1.23 - 15.90 )   | 27.4<br>( 20.3 - 31.5 ) | 6.6<br>( 4.3 - 8.2 )  | 92<br>( 62 - 128 ) |
| Kwun Yam Beach             | 8.21<br>( 8.06 - 8.54 ) | 29.2<br>( 21.9 - 32.5 ) | 3.26<br>( 1.03 - 8.96 )    | 27.2<br>( 20.6 - 30.6 ) | 7<br>( 5.4 - 9.3 )    | 99<br>( 77 - 130 ) |
| Lo So Shing Beach          | 8.24<br>( 8.03 - 8.51 ) | 30.3<br>( 22.0 - 33.7 ) | 4.4<br>( 1.06 - 18.90 )    | 27.3<br>( 19.9 - 31.3 ) | 6.7<br>( 4.7 - 8.2 )  | 95<br>( 71 - 120 ) |
| Lower Cheung Sha Beach     | 8.31<br>( 8.09 - 8.67 ) | 27.4<br>( 11.5 - 33.2 ) | 10.76<br>( 2.43 - 48.60 )  | 27.9<br>( 20.6 - 32.9 ) | 6.5<br>( 5.5 - 7.8 )  | 92<br>( 75 - 114 ) |
| Pui O Beach                | 8.28<br>( 8.09 - 8.53 ) | 29.2<br>( 20.4 - 33.0 ) | 15.63<br>( 5.12 - 68.40 )  | 29<br>( 20.4 - 35.0 )   | 6<br>( 5.2 - 6.7 )    | 88<br>( 73 - 105 ) |
| Silver Mine Bay Beach      | 8.22<br>( 7.97 - 8.45 ) | 27<br>( 15.1 - 32.3 )   | 16.92<br>( 3.68 - 159.00 ) | 28.8<br>( 20.0 - 33.9 ) | 6.2<br>( 4.0 - 10.0 ) | 91<br>( 61 - 130 ) |
| Tong Fuk Beach             | 8.3<br>( 8.08 - 8.61 )  | 29.6<br>( 20.3 - 33.1 ) | 7.04<br>( 2.09 - 21.80 )   | 27.9<br>( 20.0 - 32.6 ) | 6.4<br>( 5.3 - 9.0 )  | 92<br>( 75 - 130 ) |
| Upper Cheung Sha Beach     | 8.3<br>( 8.10 - 8.67 )  | 29.6<br>( 20.7 - 33.2 ) | 7.95<br>( 1.68 - 29.70 )   | 28<br>( 20.2 - 32.2 )   | 6.3<br>( 5.1 - 8.5 )  | 90<br>( 75 - 115 ) |

Tai Po District

|                       |                        |                         |                         |                         |                      |                     |
|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|----------------------|---------------------|
| Tai Po Lung Mei Beach | 8.3<br>( 8.16 - 8.43 ) | 29.4<br>( 22.1 - 32.3 ) | 2.29<br>( 1.21 - 5.18 ) | 30.3<br>( 26.6 - 32.7 ) | 6.9<br>( 5.3 - 9.4 ) | 105<br>( 88 - 130 ) |
|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|----------------------|---------------------|

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)