FACTUAL REPORT ON HONG KONG RAINFALL AND LANDSLIDES IN 2008

GEO REPORT No. 273

C.L.H. Lam, J.W.C. Lau & H.W. Chan

GEOTECHNICAL ENGINEERING OFFICE CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT THE GOVERNMENT OF THE HONG KONG SPECIAL ADMINISTRATIVE REGION

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Prepared by:

Geotechnical Engineering Office, Civil Engineering and Development Department, Civil Engineering and Development Building, 101 Princess Margaret Road, Homantin, Kowloon, Hong Kong.

PREFACE

In keeping with our policy of releasing information which may be of general interest to the geotechnical profession and the public, we make available selected internal reports in a series of publications termed the GEO Report series. The GEO Reports can be downloaded from the website of the Civil Engineering and Development Department (http://www.cedd.gov.hk) on the Internet. Printed copies are also available for some GEO Reports. For printed copies, a charge is made to cover the cost of printing.

The Geotechnical Engineering Office also produces documents specifically for publication in print. These include guidance documents and results of comprehensive reviews. They can also be downloaded from the above website.

These publications and the printed GEO Reports may be obtained from the Government's Information Services Department. Information on how to purchase these documents is given on the second last page of this report.

W.G. GI

Y.C. Chan Head, Geotechnical Engineering Office December 2012

FOREWORD

This report presents a summary of the factual information on rainfall and landslides in Hong Kong throughout 2008. Details of most of the landslides were obtained from the records of landslide incidents reported to the Geotechnical Engineering Office (GEO) of the Civil Engineering and Development Department (CEDD). Supplementary information was collected from the Agriculture, Fisheries and Conservation Department, Architectural Services Department, Drainage Services Department, Fire Services Department, Highways Department, Housing Department, Lands Department, Water Supplies Department and the GEO's landslide investigation consultants. The Hong Kong Observatory provided weather and rainfall information. The Standards and Testing Division of the GEO carried out a review of the available rainfall records as well as rainfall analyses, and prepared Section 2 of this report. All contributions are gratefully acknowledged.

W K Pun

Chief Geotechnical Engineer/LPM Division 1

ABSTRACT

This report presents a summary of the factual information on rainfall and landslides in Hong Kong throughout 2008. Rainfall information was obtained from the Hong Kong Observatory (HKO) to supplement the information available in the Geotechnical Engineering Office (GEO). Details of the landslides were obtained from the records of landslide incidents reported to the GEO. Supplementary information was provided by the Agriculture, Fisheries and Conservation Department, Architectural Services Department, Drainage Services Department, Fire Services Department, Highways Department, Housing Department, Lands Department, Water Supplies Department, and the GEO's landslide investigation consultants, namely Fugro Scott Wilson Joint Venture and Maunsell Geotechnical Services Limited.

Rainfall recorded in 2008 at the HKO's Principal Raingauge at Tsim Sha Tsui amounted to 3,066.2 mm, which was about 29% above the mean rainfall of 2,382.7 mm recorded between 1971 and 2000. Two Black Rainstorm Warnings were issued on 19 April and 7 June 2008; seven Red Rainstorm Warnings were issued between 19 April and 12 July 2008; and 21 Amber Rainstorm Warnings were issued between 19 April and 5 October 2008.

Five Landslip Warnings were issued between 19 April and 10 July 2008. A total of 868 incidents that occurred in 2008 were reported to the Government. Of these, 863 were classified as genuine landslides and 160 of them were designated as major failures (i.e. with a failure volume of 50 m³ or more, or where a fatality has occurred).

Two fatalities were reported as a result of a landslide triggered by the rainstorm of 7 June 2008. Other notable consequences of the landslides in 2008 included permanent evacuation of 39 squatter dwellings, temporary evacuation of 28 squatter dwellings and temporary closure of 26 buildings. In addition, 56 landslides resulted in temporary partial closure of roads. Another 62 landslides resulted in temporary closure of pedestrian pavements, footpaths or access paths. Fifty four landslides also affected catchwaters, but none of them had any significant direct or indirect impact on the areas downhill of the affected catchwater.

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1. INTRODUCTION

This report presents a summary of the factual information on rainfall and landslides that occurred in Hong Kong throughout 2008. Rainfall information was obtained from the Hong Kong Observatory (HKO) to supplement the information available in the Geotechnical Engineering Office (GEO). Details of the landslides were obtained from the records of landslide incidents reported to the GEO. Supplementary information was provided by the Agriculture, Fisheries and Conservation Department (AFCD), Architectural Services Department (Arch SD), Drainage Services Department (DSD), Fire Services Department (FSD), Highways Department (HyD), Housing Department (HD), Lands Department (Lands D), Water Supplies Department (WSD), and the GEO's landslide investigation consultants, namely Fugro Scott Wilson Joint Venture (FSWJV) and Maunsell Geotechnical Services Limited (MGSL), under Agreements Nos. CE 40/2007 (GE) and CE 41/2007 (GE) respectively.

In this report, a landslide is defined as the detachment or excessive displacement of soil or rock mass, and includes failure of a fill slope, cut slope, retaining wall, natural hillside, disturbed terrain, as well as rockfall and boulder fall. A 'major' landslide is defined as a failure in which the estimated/recorded volume of the detached or displaced mass is $\geq 50 \text{ m}^3$, or where a fatality has occurred. A 'very minor' landslide is defined as a failure that is small in scale (i.e. $\leq 5 \text{ m}^3$ for failures involving soil, or $\leq 0.1 \text{ m}^3$ for rockfalls/boulder falls) and does not give rise to any notable consequences (e.g. casualty, 'near-miss', evacuation of buildings or squatter dwellings, road closure, nuisance to the public, etc.). Landslides that are not classified as 'major' or 'very minor' are taken as 'minor'.

2. RAINFALL

2.1 The Raingauge System

The GEO, in collaboration with the HKO, operates an automatic raingauge system that transmits rainfall data through either telephone lines or the General Packet Radio Service (GPRS) of the mobile network, viz. a wireless transmission technology, to the GEO and the HKO at 5-minute intervals. The system comprises 86 GEO raingauges and 24 HKO raingauges. The raingauges are of the tipping-bucket type, tipping for every 0.5 mm of rainfall. The locations of the automatic raingauges are shown in Figure 1.

2.2 Rainfall Records

The rainfall data from the raingauge system are checked, verified and stored by the GEO in a database, from which they can be extracted for analysis. This report presents a selection of rainfall parameters for the whole year of 2008, as well as individual months and individual rainstorms.

The weather in 2008, as described by the HKO (2009), is excerpted as follows:

"Globally, the year 2008 ranked as the 10th warmest year on record. In Hong Kong, the average temperature in 2008 was slightly lower than those for previous years in this century.

This was attributable to the La Nina phenomenon at the beginning of the year. The longest cold spell in 40 years occurred from 24 January to 16 February when the minimum temperature stayed below 12 degrees for 24 consecutive days. The year saw other new records. Record-breaking rain fell in April and June 2008, while October 2008 was the warmest October since record began in 1884. The year 2008 was also wetter than usual. The annual rainfall of 3,066.2 millimetres was about 29 percent above normal."

"April was warmer than usual. The passage of Typhoon Neoguri brought heavy rain to Hong Kong on 19 April, with a rainfall of 237.4 millimetres for the day breaking the April daily figure since record began. The heavy rain necessitated the issuance of the first Black Rainstorm Warning in 2008 which was also the earliest in the year since the start of the Rainstorm Warning System in 1998."

"The weather of June was marked by heavy rain and squally thunderstorms. The hourly rainfall of 145.5 millimetres recorded on 7 June between 8 and 9 a.m. was the highest since record began. The monthly total of 1,346.1 millimetres was also a record high among all months since 1884."

The following are excerpts from the HKO's Monthly Weather Summary describing the weather condition when the most intense rainstorms occurred in the wet season (i.e. between April and September 2008). Further details on the monthly weather are available on the HKO Website (http://www.hko.gov.hk/wxinfo/pastwx/mws.htm).

"Under the combined effect of Typhoon Neoguri and the northeast monsoon,....in the afternoon of 19 April 2008..... the warm southerly winds associated with Neoguri met the relatively cooler northeast monsoon and formed a warm front with severe convective activities over the coastal waters of Guangdong. The warm front moved from south to north across the coast of Guangdong and brought heavy rain to Hong Kong on that day. The total daily rainfall recorded at the Hong Kong Observatory on that day was 237.4 millimetres, the highest daily rainfall amount recorded in April since record began."

"Under the influence of an active trough of low pressure, the weather in Hong Kong was cloudy with occasional heavy rain and squally thunderstorms for the first seven days of the month [of June]. The daily total rainfall of 307.1 millimetres recorded at the Hong Kong Observatory on 7 June was the fifth highest daily rainfall in June on record."

"Affected by the southerly airstream, it was mainly cloudy with a few showers from 10 to 12 June. Another active trough of low pressure lingering over the south China coastal areas brought heavy rain and squally thunderstorms to the territory from 13 to 18 June."

"With Typhoon Fengshen approaching the coast of Guangdong on 24 June, the weather became showery and winds started to pick up in the evening. Fengshen passed to the east of Hong Kong and made landfall over eastern Shenzhen on the early morning of 25 June. Local winds were generally strong and occasionally up to gale force during the day. Fengshen also brought heavy downpour to the territory on that day."

"An area of low pressure over the northern part of the South China Sea followed by a trough of low pressure over the south China coastal areas brought rainy and thundery weather to the territory from 6 to 15 July."

The rainfall of 118.0 mm recorded at the HKO in the first quarter of 2008 is 20.6% below normal. The total rainfall of 1,793.0 mm and 947.3 mm recorded in the second and third quarter are 97.9% above and 14.4% below the normal rainfall respectively. The weather of June 2008 was marked by heavy rain and squally thunderstorms. The monthly total rainfall was 1,346.1 mm, about three times the monthly normal figure of 388.1 mm. This is a record monthly rainfall since 1884, the previous record being 1,241.1 mm in May 1889. For the last quarter of 2008, the total rainfall of 207.2 mm is 6.1% below normal. The annual rainfall for 2008 of 3,066.2 mm was about 29% above the mean rainfall (2,382.7 mm) recorded between 1971 and 2000. The cumulative rainfall for 2008 is compared with the highest, lowest and mean rainfall in Figure 2.

Figures 3a, 3b, 3c and 3d show the total monthly rainfall distribution in 2008.

Figure 4 shows the annual rainfall distribution in 2008, together with the locations of the reported landslides.

2.3 Rainstorms in 2008

Table 1 tabulated the rainfall parameters for 16 rainstorms in 2008, during which the daily rainfall exceeded 50 mm at any of the HKO and the GEO raingauges. The parameters include the maximum 24-hour, 4-hour and 1-hour rolling rainfalls (based on 5-minute rainfall data). Table 1 also includes the 4-day and 15-day antecedent rainfalls at the HKO's Principal Raingauge. Similar data for selected major rainstorms in previous years are included in Table 1 for comparison. Other rainfall parameters for the above 16 rainstorms are also shown in Table A1 of Appendix A.

Figures 5 to 20 show the isohyets of the maximum rolling 24-hour rainfall during the above 16 rainstorms, together with the reported landslide locations, and the locations and values of maximum rolling rainfall for durations ranging from five minutes to 48 hours.

Three rainstorms generated a significant number of landslides (Table 1). The

rainstorms of 6 to 9 June 2008, 11 to 19 June 2008 and 6 to 17 July 2008 had triggered 363, 109 and 64 reported landslides respectively. Two other rainstorms during the periods of 19 to 20 April 2008 and 25 June to 1 July 2008 had triggered over twenty reported landslides. The other rainstorms in 2008 resulted in less than 10 reported landslides.

2.4 Warnings Issued by the Hong Kong Observatory

Table 2 summarises the details of the Thunderstorm, Flood, Landslip, Tropical Cyclone and Rainstorm Warnings issued by the HKO in 2008. Two Black Rainstorm Warnings were issued on 19 April and 7 June 2008; seven Red Rainstorm Warnings were issued between 19 April and 12 July 2008; and 21 Amber Rainstorm Warnings were issued between 19 April and 5 October 2008. Five Landslip Warnings were issued between 19 April and 10 July 2008.

3. LANDSLIDES

3.1 Landslides in 2008

Landslide incidents reported to the GEO and other Government Departments in 2008 are summarised in Table 3.

A total of 868 landslide incidents were reported to various Government Departments. These include 650 incidents reported to the GEO, 18 of which were identified by the landslide investigation consultants, FSWJV and MGSL. Another 218 incidents were reported to other Government Departments (i.e. AFCD, Arch SD, DSD, FSD, HyD, HD, Lands D or WSD). Of these 868 reported incidents, 863 were genuine landslides (see details in Appendix B). The other five reported incidents were non-landslide events (e.g. tree fall) with no geotechnical concern.

Of the 863 landslides, 160 (18.5%) were major landslides (see Table B1 in Appendix B), 560 (64.9%) were minor landslides, and 143 (16.6%) were very minor landslides with negligible consequences (see Section 1).

Selected notable landslides are presented in Section 4 and illustrated in Plates 1 to 22. For those landslide incidents inspected by the GEO, the information on the landslides was recorded in Incident Reports prepared by the GEO (as well as in Landslip Cards for major landslides). For those landslide incidents attended to by other Government Departments responsible for slope maintenance, landslide incident reports were prepared by the respective Departments. The above information, together with the scanned images of the Incident Reports and Landslip Cards prepared by the GEO and other Government Departments, have been uploaded onto the Slope Information System (SIS). Further details of these slope failures can be found in the relevant files of the three District Divisions and the Landslip Preventive Measures Division 1 of the GEO.

Wherever possible, the dates and times of the landslides were assessed by geotechnical professionals. However, some incidents were not reported to the GEO or other Government Departments until several days or even weeks after occurrence. For these incidents, it may not be possible to establish the exact time of failure. Of the 863 landslides, the timing of

occurrence was determined to within one day for 267 incidents based on the date of report of failure or the date of landslide occurrence given in the incident reports.

From the satellite images and low level oblique aerial photographs taken during helicopter surveys on 10 June 2008, over 1,600 number of natural terrain landslides could be identified in Lantau Island. Many of them had not been reported to the Government, as they are located in remote areas with no immediate consequences. The unreported landslides are not covered in this report.

3.2 Consequence of Landslides

The consequence of landslides in terms of the types of facilities affected (e.g. buildings, roads, squatter dwellings, catchwaters, construction sites, etc.) in different regions is summarised in Table 4. For those landslides affecting catchwaters and construction sites, none of them resulted in any significant direct or indirect consequences. In regard to the landslides with significant consequences (e.g. casualties, evacuation of buildings or squatter dwellings, temporary closure of roads, etc.), they are classified with respect to the type of slope failure, and are shown in Table 5. The distribution of the different facility groups affected by the major landslides is presented in Table 6. Further descriptions of some selected notable landslides of 2008 are given in Section 4 below.

3.3 Types of Slope Failures

Landslides reported to the GEO and other Government Departments have been classified into five types of slope failures, i.e. fill slopes, cut slopes, retaining walls, natural hillside and registered Disturbed Terrain. The breakdown of the different types of slope failures is shown in Table 7.

3.4 Landslide Volume Distribution

Tables 8 and 9 show the distribution of failure volumes for all the reported landslides. A total of 353 landslides (40.9%) involved less than 5 m³ of material. One hundred and sixty of the reported landslides (18.5%) involved a failure volume of 50 m³ or more. Of these 160 major failures, nine affected fill slopes, eleven affected soil cut slopes, eleven affected soil/rock slopes or rock slope, four affected retaining walls, 124 affected natural hillsides and one affected registered Disturbed Terrain features.

4. NOTABLE LANDSLIDES

4.1 General

Of the 863 genuine landslides reported to the Government in 2008, 40 incidents are described in more detail below. These 40 incidents have been selected on the basis of their consequences or scale of failure. The majority of the selected incidents occurred on the morning of 7 June 2008, when the Landslip Warning and Black Rainstorm Warning were in force.

4.2 Slope No. 6SW-C/CR797 at Cafeteria Old Beach, Tuen Mun (Incident No. 2008/06/0129)

At about 6:30 a.m. on 7 June 2008, a landslide occurred on slope No. 6SW-C/CR797, involving the collapse of about 25 m length of an approximately 2.8 m high crest concrete retaining wall and part of the slope below (Plate 1). The failure volume was about 300 m³. The landslide debris, comprising soil and large segments of the collapsed concrete wall, hit a squatter structure at the toe of the slope and demolished part of it, resulting in two fatalities.

4.3 <u>Natural Hillside above Chow Yei Ching Building at the University of Hong Kong, Pok</u> Fu Lam (Incident No. 2008/06/0193)

Between 7:30 a.m. and 9:30 a.m. on 7 June 2008, a landslide occurred on the natural hillside behind Chow Yei Ching Building at the University of Hong Kong, Pok Fu Lam (Plate 2). The landslide was shallow but spatially extensive, involving a total failure volume of about 1,960 m³ and comprising a primary and a secondary source area. The detached material travelled about 210 m down the hillside and came to rest adjacent to Chow Yei Ching Building. A 200 mm diameter fresh water main, associated with a paved footpath traversing the primary source area was damaged. A temporary footbridge adjacent to Chow Yei Ching Building was also destroyed. Some outwash debris went further into the lower floors and carpark of Chow Yei Ching Building. The outwash debris continued into Pok Fu Lam Road and partly flooded the eastbound carriageway and proceeded downhill towards Hill Road. No causalities were reported as a result of the landslide.

4.4 Hillside above San Francisco Towers, Happy Valley (Incident No. 2008/06/0131)

At 6:49 a.m. on 7 June 2008, a landslide occurred on the hillside below Broadwood Road, overlooking San Francisco Towers (Plate 3). The landslide source was approximate 12 m wide and up to 15 m long, and about 0.8 m deep. The estimated volume of failure was about 75 m³. The landslide debris travelled some 60 m, finally coming to rest against the outer wall of the level 3 basement carpark at the rear of Block B, San Francisco Towers. The debris blocked the stormwater drains at the toe of the hillside and contributed to the flooding of the carpark in San Francisco Towers. No casualties were reported as a result of the landslide.

4.5 Hillside above Ewan Court, Kennedy Road (Incident No. 2008/06/0182)

Between 7:00 a.m. and 7:30 a.m. on 7 June 2008, a landslide occurred on the north-facing hillside behind Ewan Court at 54-56 Kennedy Road, Wanchai (Plates 4 and 5). The failure with an estimated volume of 200 m³ occurred on a natural hillside. The failure also involved an unpaved fill platform on the hillside, at the crest of the landslide. The natural hillside was densely vegetated and steeply inclined at an angle of up to about 40°. The landslide debris travelled about 80 m and came to rest at the rear alleyway of Ewan Court. A vacant security booth at the rear of Ewan Court was destroyed and a section of the concrete parapet wall was damaged. Some landslide debris also went into the carpark at the ground floor level via the access ramp. No casualties were reported as a result of the landslide.

4.6 Hillside above Fung Fai Terrace, Happy Valley (Incident No. 2008/06/0156)

In the morning of 7 June 2008, a landslide occurred on the natural hillside above slope No. 11SW-D/C2237, adjacent to Rockwin Court, Fung Fai Terrace (Plate 6). The estimated failure volume was 500 m³. The landslide debris deposited on the cut slope and some travelled further down to the rear garden of Rockwin Court. Some landslide debris and muddy water also went into the flats of Rockwin Court adjacent to the toe of the hillside. Residents in nine affected flats of Rockwin Court were temporarily evacuated. No casualties were reported as a result of the landslide.

4.7 Natural Hillside above Shatin Pass Road (Incident No. 2008/06/0170)

In the morning of 7 June 2008, a landslide occurred on a natural hillside above Shatin Pass Road (Plate 7). The failure involved roadside slope No. 11NE-A/C351 and part of the hillside above. The total failure volume was about 3,550 m³. Some debris came to rest on Shatin Pass Road at the toe of the cut slope. The rest of the debris travelled further down and entered a drainage line, developing into a channelised debris flow with a run-out distance of about 600 m. The debris reached Tsz Ching Estate, blocked a 2.5 m wide cascade channel and resulted in flooding of an open area near Ching Tai House of the public housing estate. No casualties were reported as a result of the landslide.

4.8 Natural Hillside above North Lantau Highway, Tung Chung (Incident Nos. 2008/06/0346, LI/2008/06/2003 and LI/2008/06/2004)

Some 20 failures occurred on a natural hillside above North Lantau Highway (NLH) in the morning of 7 June 2008 (see location plan in Figure 21). The failure volumes ranged from less than 5 m³ to 310 m³. The largest failure occurred in catchment No. 15 at about 9:00 a.m.. The debris from this failure area and that from other three smaller failures in the vicinity entered a drainage line and developed into a debris flood, with a long run-out distance of about 1 km. The total volume of the four failures was about 670 m³. Most of the debris was deposited on the drainage line. About 80 m³ of the debris reached NLH and blocked the road drainage system, resulting in severe flooding of a 200 m section of NLH and temporary closure of the affected road section for about 16 hours (Plate 8). No casualties were reported.

4.9 <u>Natural Hillside above Yu Tung Road, Tung Chung (Incident Nos. 2008/06/0344, LI/2008/06/2005 and LI/2008/06/2016)</u>

Some 13 failures occurred on a natural hillside above Yu Tung Road (YTR) in the morning of 7 June 2008 (see location plan in Figure 22). The failure volumes ranged from 30 m³ to 2,350 m³. The largest failure occurred in catchment No. 30, which involved a volume of about 2,350 m³. The debris from the failure source area entered a drainage line and developed into a 3,300 m³ debris flow through material entrainment, with a run-out distance of about 600 m. The debris blocked the westbound lanes of Yu Tung Road. One lane of the road was temporarily closed until 11 August 2008 while the other was not opened until 14 April 2009 (Plate 9). The other failures were relatively minor, and the debris largely

remained on the hillside. No casualties were reported.

4.10 <u>Natural Hillside at Fui Yiu Ha, near Sheung Ling Pei, Tung Chung (Incident No. 2008/06/0232)</u>

On 7 June 2008, a shallow open hillslope landslide occurred on the natural hillside at Fui Yiu Ha, near Sheung Ling Pei in Tung Chung (Plate 10). The failure volume was about 180 m³ at the landslide source, with a maximum run-out distance of about 50 m. The landslide debris damaged a squatter structure and affected another three at the toe of the hillside. The four squatter structures were temporarily evacuated immediately after the landslide. Compulsory clearance (i.e. Category 1 Non-Development Clearance (NDC)) of these squatter structures was subsequently recommended to Lands Department. No casualties were reported as a result of the landslide.

4.11 <u>Natural Hillsides above Kat Hing Back Street, Shek Tsai Po Street, Nam Chung Tsuen,</u> Wang Hang Tsuen and Tai O San Tsuen, Tai O

4.11.1 General

Thirteen incidents were reported to have occurred in Tai O area in the morning of 7 June 2008. The incidents mainly involved natural hillside failures, with volume ranging from 25 m³ to 2,000 m³. Details are summarized below.

4.11.2 Kat Hing Back Street (Incident Nos. 2008/06/0376A and 2008/06/0376B)

Two landslides occurred on the south-facing hillside behind Kwan Tai Temple (關帝廟) at Kat Hing Back Street, Tai O at around 7:00 a.m. on 7 June 2008 (Plate 11). The incidents involved the collapse of a 5 m high cut slope (No. 9SW-D/CR177) and the associated concrete retaining wall as well as the natural hillside above. The volume of failure at the cut slope feature is about 35 m³ and the debris destroyed part of a structure at the slope toe. On the hillside above, the failure volume is about 150 m³ at the landslide source with about 50 m³ of the detached material remained on the hillside and the rest travelled downslope reaching a single-storey building at the toe of the hillside.

No casualties were reported. However, four affected squatter structures were temporarily evacuated immediately after the landslide. A Category 1 NDC recommendation was subsequently made to Lands Department to clear the affected squatter structures.

4.11.3 Shek Tsai Po Street (Incident No. 2008/06/0381)

At around 7:00 a.m. on 7 June 2008, a 2,000 m³ landslide occurred on a soil cut slope at Shek Tsai Po Street, Tai O (Plate 12). The landslide involved slope No. 9SW-C/C1, which was about 60 m high and inclined at an average angle of 55°. Landslide debris up to 4 m thick, comprising soil, boulders (up to 1 m diameter) and trees, were deposited at the backyard of a two-storey abandoned structure at about 20 m from the slope toe. Some landslide debris travelled further and reached Shek Tsai Po Street. No casualties were

reported as a result of the landslide.

4.11.4 Nam Chung Tsuen (Incident Nos. 2008/06/0261, 2008/06/0481 and 2008/06/0483)

In the morning of 7 June 2008, three landslides, viz. NC6 (2008/06/0483), NC7 (2008/06/0261) and NC7A (2008/06/0481), occurred on the natural hillside above Nam Chung Tsuen, Tai O (Plate 13). No casualties were reported as a result of these landslides.

Landslide NC6 involved three failure source areas with a total estimated failure volume of about 320 m³. The debris from the source areas entered a drainage line and developed into a debris flow, with a run-out distance of about 350 m. Some debris was deposited on the Lantau Trail blocking a section of the Trail. Some travelled further downhill reaching several squatter structures at Nam Chung Tsuen.

Landslide NC7 involved two failure source areas, with an estimated failure volume of about 95 m³ and 35 m³ respectively. The landslide debris entered an ephemeral drainage line and developed into a debris flow, with a run-out distance of about 470 m. Some debris reached Nam Chung Tsuen affecting five squatter structures. The affected structures were temporarily evacuated following the incident.

Landslide NC7A comprised a single failure source area with an estimated failure volume of 230 m³. The landslide debris entered a drainage line and developed into a debris flow, with a run-out distance of about 220 m. Some landslide debris was deposited on an open area at the toe of the hillside and some reached Nam Chung Tsuen resulting in temporary evacuation of five squatter structures and one village house.

4.11.5 Wang Hang Tsuen (Incident Nos. 2008/06/0382, 2008/06/0396 and 2008/06/0479)

In the morning of 7 June 2008, three landslides, viz. WH9 (2008/06/0396), WH9A (2008/06/0382) and WH10 (2008/06/0479), occurred on the natural hillside above Wang Hang Tsuen, Tai O (Plate 14). No casualties were reported as a result of these landslides.

Landslide WH9 involved three failure source areas. The estimated failure volume of each source area ranged from 200 m³ to 400 m³. The landslide debris entered a drainage line and developed into a debris flow, with a run-out distance of about 400 m. The landslide affected a village house at Wang Hang Tsuen, which was temporarily evacuated.

Landslide WH9A involved multiple source areas with estimated failure volumes ranging from 200 m³ to 450 m³. The landslide debris entered a drainage line and developed into a debris flow, with a run-out distance of about 670 m, reaching an abandoned hut at Wang Hang Tsuen.

Landslide WH10 is an open hillslope failure with an estimated failure volume of 400 m³. The landslide debris travelled along a topographic depression, with a run-out distance of about 60 m. All the landslide debris was deposited on the hillside and did not affect any facilities.

4.11.6 <u>Tai O San Tsuen (Incident Nos. 2008/06/0238, 2008/06/0383, 2008/06/0385, 2008/06/0388 and 2008/06/0389)</u>

At about 7:00 a.m. on 7 June 2008, five landslides, viz. Trail No. 1 (2008/06/0383), Trail No. 2 (2008/06/0385), Trail No. 3 (2008/06/0238), Trail No. 4 (2008/06/0388) and Trail No. 5 (2008/06/0389), occurred on the natural hillside above Tai O San Tsuen (Plate 15). The landslides comprised ten sources of shallow open-hillslope failure. The failure volume of each source area ranged from about 25 m³ to 160 m³. Some of the landslide debris reached the Tin Hau Temple and nine village houses at the toe of the hillside. The affected temple and village houses were temporarily closed/evacuated from 13 June to 11 July 2008. No casualties were reported as a result of the landslides.

4.12 Slope No. 11SE-A/C502 at Pak Fuk Road, North Point (Incident No. 2008/06/0144)

At around 9:40 a.m. on 7 June 2008, a 1,270 m³ landslide occurred on the eastern portion of a soil and rock cut slope (No. 11SE-A/C502) at Pak Fuk Road (Plate 16). The landslide scar was estimated to be about 33 m wide and 32 m long with a depth of up to 4.2 m. The landslide debris, comprising soil and several large boulders up to about 4 m in diameter, were deposited at the slope toe, completely blocking Pak Fuk Road, which was temporarily closed for traffic until 24 June 2008. No casualties were reported as a result of the landslide.

4.13 <u>Natural Hillside above Keung Shan Road (Incident Nos. 2008/06/0132, 2008/06/0208 and 2008/06/0499)</u>

On 7 June 2008, several landslides occurred on a natural hillside above Keung Shan Road. The notable ones include KS1 (2008/06/0132), KS2 (2008/06/0208) and KS3 (2008/06/0499).

Landslide KS1, occurred on the natural hillside above slope No. 13NW-B/C82 at Keung Shan Road (Plate 17), comprised two failures, both with an estimated source volume of about 80 m³. The landslide debris from one of the failures travelled down the hillside through a stepped channel on the cut slope and completely blocked Keung Shan Road. The landslide debris from the other failure source was less mobile, and most of which came to rest on the upper portion of the cut slope.

Landslide KS2, occurred on the natural hillside above slope No. 13NW-B/C81 at Keung Shan Road (Plate 18), comprised a main source area with an estimated failure volume of about 3,000 m³ and three smaller source areas with failure volumes ranging from about 50 m³ to 100 m³. The landslide debris entered a drainage line and developed into a debris flow reaching Keung Shan Road. Some of the landslide debris was deposited on Keung Shan Road, whilst other travelled further downhill reaching another streamcourse. The overall run-out distance of the debris flow was about 200 m.

Landslide KS3 occurred on the natural hillside above Keung Shan Road, near the Kwun Yum Temple (Plate 19). The landslide comprised a main source area with an estimated failure volume of about 725 m³ and nine smaller source areas, with failure volumes ranging from about 30 m³ to 377 m³. The debris travelled along two distinct paths before

they merged and entered a drainage line at about 300 m to the east of Kwun Yum Temple, and developed into a debris flow with a run-out distance of about 500 m. The landslide debris reached Keung Shan Road and some travelled further downslope.

Keung Shan Road was temporarily closed as a result of the above landslides until 20 June 2008. There were no reported casualties.

4.14 Natural Hillside above Tai O Road (Incident Nos. 2008/06/0500 and 2008/06/0501)

On 7 June 2008, two landslides occurred on the natural hillside above slope No. 13NW-B/C54 at Tai O Road (Plate 20). One of them involved an open hillslope failure with an estimated source volume of 300 m³, and the landslide debris travelled about 100 m before coming to rest on the hillside. The other failure source had an estimated volume of 200 m³, and the landslide debris entered an ephemeral drainage line and developed into a debris flow with a run-out distance of about 150 m, reaching Tai O Road below. One lane of Tai O Road was temporarily closed. No casualties were reported as a result of the landslides.

4.15 <u>Natural Hillside above Sham Wat Road (Incident Nos. 2008/06/0435, 2008/06/0439, 2008/06/0440, 2008/06/0441, 2008/06/0555 and LI/2008/06/2013)</u>

Six landslides above Sham Wat Road, viz. SW4 (2008/06/0435), SW5 (LI/2008/06/2013), SW8 (2008/06/0439), SW8A (2008/06/0555), SW12 (2008/06/0441) and SW12A (2008/06/0440) were reported on 9 June 2008, resulted in temporary closure of one lane of Sham Wat Road (Figure 23 and Plate 21). No casualties were reported as a result of the landslides.

Landslides SW4 and SW5 involved open hillslope failures above roadside slope No. 9SW-D/C49. The source volumes for the failures at SW4 and SW5 were about 675 m³ and 190 m³ respectively. The debris from the landslides terminated at Sham Wat Road.

Landslides SW8 and SW8A involved two open hillslope failures above roadside slope No. 9SW-D/C48. The source volumes for the failures at SW8 and SW8A were about 300 m³ and 400 m³ respectively. The debris from both landslides terminated at Sham Wat Raod.

Landslides SW12 and SW12A involved two open hillslope failures above Sham Wat Road. The source volumes for the failures at SW12 and SW12A were about 70 m³ and 100 m³ respectively. The landslide debris were channelised and developed into debris flows, both with a run-out distance of about 620 m. The debris crossed over Sham Wat Road and continued downhill till it reached the access road leading to the Lantau Island Catchwater. The debris did not result in blockage to the access road.

4.16 Natural Hillside at Mount Davis (Incident Nos. 2008/06/0183 and 2008/06/0451)

Between 8:00 a.m. and 9:00 a.m. on 7 June 2008, two landslides occurred on the natural hillside at Mount Davis above the vacant Kennedy Town Police Quarters at Ka Wai

Man Road (Plate 22). No casualties were reported as a result of the landslides.

One of the landslides occurred on the western part of the natural hillside above Police Quarters Block A. The incident involved two failure source areas with a total failure volume of about 435 m³. The debris entered a drainage line and developed into a debris flow, with a run-out distance of about 400 m. Approximately 610 m³ of landslide debris was deposited on the building platform. Subsequent outwash of the landslide debris went further downhill into the ground floor of Police Quarters Block B and some also reached the playground of Hong Kong Institute of Vocational Education.

The other landslide, with a source volume of about 475 m³, occurred on the eastern part of the natural hillside above Police Quarters Block C. Most of the landslide debris remained within the landslide scar. Some entered a drainage line developing into a debris flow with a run-out distance of about 400 m, and came to rest on the crest of a cut slope at the toe of the hillside. Due to subsequent outwash action, about 150 m³ of the finer portion of the landslide debris travelled further down to the platform at the toe of the cut slope and the ground floor of Police Quarters Block C.

5. CONCLUSIONS

Rainfall recorded at the HKO's Principal Raingauge at Tsim Sha Tsui amounted to 3,066.2 mm in 2008, which was about 29% above the mean value of 2,382.7 mm between 1971 and 2000. The monthly total of 1,346.1 mm in June was also a record high among all months since 1884. The hourly rainfall of 145.5 mm recorded on 7 June between 8 and 9 a.m. was the highest since record began. In 2008, five Landslip Warnings were issued between 19 April and 10 July 2008. In 2008, 863 genuine landslides were reported to the Government. Among them, 160 were major failures, 560 were minor failures and 143 were very minor failures.

One landslide in 2008 resulted in two fatalities. Notable consequences of other landslides in 2008 included the temporary closure of 26 buildings, permanent evacuation of 39 squatter dwellings (comprising 39 registered squatter structures) and temporary evacuation of 28 squatter dwellings (comprising 28 registered squatter structures). One hundred and three landslides affected roads, 56 of which resulted in temporary road closure.

6. <u>REFERENCES</u>

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- Hong Kong Observatory (2009). <u>Monthly Weather Summary December 2008</u>. Hong Kong Observatory, Hong Kong, 22 p.

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Table 1 - Rainfall and Landslides in 2008 as Compared with Selected Previous Major Rainstorms (Sheet 1 of 2)

				Number of Landslides					
Date of	Hong Kong Observatory (HKO)					(GEO Raingauges (3		
Rainstorm Event (1)	24 1	4 1	1 1	Antec	cedent	24 5	4.1	Reported to GF	Reported to GEO (4)
	24-hr	4-hr	1-hr	4-day	15-day	24-hr	4-hr		
6-9 June 2008	417.6	246.3	145.5	99.9	242.5	622.5 (N19)	384.0 (N19)	153.5 (N21)	363
19-20 April 2008	237.4	161.1	56.7	0	2.2	303.0 (N43)	227.0 (N44)	112.0 (N44)	21
25 June - 1 July 2008	146.7	86.0	44.7	0.6	350.2	378.5 (N21)	226.5 (N21)	83.5 (N21)	28
11-19 June 2008	138.9	74.9	36.7	311.6	672.6	316.5 (N47)	188.0 (N47)	85.5 (N47)	109
4-6 October 2008	122.6	65.4	39.5	5.4	109.5	154.0 (N29)	92.5 (N29)	65.0 (N29)	0
6-17 July 2008	114.4	103.9	37.9	11.6	451.2	271.0 (N37)	216.5 (N11)	106.5 (H26)	64
6-9 August 2008	99.3	38.5	24.5	6.1	6.1	223.0 (N36)	92.0 (N15)	63.0 (N41)	6
22-24 August 2008	92.7	30.0	14.0	0	138.3	169.0 (N17)	64.5 (N17)	31.0 (N19)	1
23-25 September 2008	77.8	22.0	15.5	23.5	25.3	227.0 (N37)	120.0 (N37)	66.5 (N37)	7
26 May - 4 June 2008	66.9	60.5	38.5	2.4	55.4	126.0 (N46)	109.5 (N06)	82.5 (N06)	6
3-4 November 2008	52.0	51.2	46.6	2.8	4.5	66.5 (H06)	65.5 (H06)	56.5 (H16)	1
20-21 May 2008	33.2	17.5	9.5	20.1	30.2	78.0(N30)	43.0 (N25)	22.5 (N25)	2
17-20 September 2008	23.5	22.0	12.5	0	53.5	72.0 (N51)	65.5 (N51)	64.5 (N51)	1
5-7 September 2008	28.1	25.8	23.7	15.7	114.2	82.5 (N40)	82.0 (N40)	77.5 (N40)	3
22-23 March 2008	28.0	26.5	15.5	0	0	61.0 (N14)	57.5 (N14)	51.5 (N14)	0
2-3 September 2008	9.4	9.0	7.2	0	98.5	92.0 (N16)	75.0 (N16)	45.5 (N46)	2

- (1) Rainstorms are arranged in order of the rolling 24-hour rainfall at the Hong Kong Observatory in Tsim Sha Tsui.
- (2) The maximum rainfalls are calculated using 5-minute rainfall as the basic unit, except those recorded at the HKO, for which the rolling rainfall is calculated using one-clock hour rainfall as the basic unit.
- (3) The maximum rainfalls are selected from the 86 GEO Raingauges for the rainstorms. The GEO Raingauge reference number is shown in brackets.
- (4) Reported nos. of landslides refer to those genuine landslides that can be attributed to the rainstorm events.

Table 1 - Rainfall and Landslides in 2008 as Compared with Selected Previous Major Rainstorms (Sheet 2 of 2)

		Maximum Rainfall (mm) (1)									
Date of	Н	Hong Kong Observatory (HKO)					GEO Raingauges (3)				
Rainstorm Event	24.1	4.1	1.1	Ante	cedent	24.1	4.1	4.1	Reported to GEO (2)		
	24-hr	4-hr	1-hr	4-day	15-day	24-hr	4-hr	1-hr			
Selected Major Rainstorms in Previous Years (for comparison only)											
20-21 May 1989	387.8	119.3	37.3	27.9	41.7	566.0 (N14)	194.5 (N14)	61.5 (N14)	378		
7-9 May 1992	324.7	195.0	109.9	4.2	9.1	386.5 (H10)	243.0 (H10)	144.5 (H19)	314		
15-16 June 1993	155.1	122.3	54.1	155.8	296.1	285.0 (N13)	191.5 (N13)	111.0 (H13)	123		
4-5 November 1993	106.6	27.8	9.4	0	0	745.0 (N17)	285.0 (N17)	114.0 (N17)	394		
21-25 July 1994	310.2	141.9	70.4	18.7	310.1	956.0 (N14)	365.0 (N14)	211.5 (N14)	208		
3-11 August 1994	74.1	44.9	27.1	8.1	759.1	381.0 (N14)	187.5 (N14)	103.5 (N14)	46		
11-15 August 1995	325.7	109.1	43.8	5.1	436.9	468.0 (H08)	223.5 (H14)	106.0 (N14)	110		
3-5 June 1997	150.2	83.7	46.4	0.9	33.6	367.5 (N04)	262.5 (N04)	128.5 (N04)	81		
1-4 July 1997	148.8	106.7	45.4	33.5	362.7	800.0 (N09)	249.5 (N09)	125.0 (N01)	150		
8-9 June 1998	428.4	152.4	71.7	86.6	246.8	562.0 (N15)	218.5 (N15)	98.0 (N09)	96		
22-26 August 1999	313.1	127.4	50.7	6.8	170.3	565.0 (N14)	230.5 (N10)	120.5 (N10)	269		
16-21 August 2005	416.4	122.9	39.1	110.7	214.1	570.0 (N01)	173.5 (N18)	82.0 (N25)	229		

- (1) The maximum rainfalls are calculated using 5-minute rainfall as the basic unit, except those recorded at the HKO, for which the rolling rainfall is calculated using one-clock hour rainfall as the basic unit.
- (2) Reported nos. of landslides refer to those genuine landslides that can be attributed to the rainstorm events.
- (3) The maximum rainfalls are selected from all the available GEO Raingauges for the rainstorms. The GEO Raingauge reference number is shown in brackets.

Table 2 - Warnings Issued by the Hong Kong Observatory in 2008

	Monthly			Dates on which W	arnings (1) were in Effec	t
Month	Total Rainfall (mm)	Thunderstorm (2)	Flooding	Landslip (3)	Tropical Cyclone (4)	Rainstorm
January	33.3	-	-	-	_	-
February	27.5	-	-	-	-	-
March	57.2	22	-	-	-	-
April	255.0	12, 19	19-20	19-20 (19:10 - 02:20)	17-20 (1-3, NEOGURI)	19 (Amber, Red & Black)
May	191.9	5, 9, 24, 25, 26, 28, 29, 30, 31	-	-	-	29 (Amber)
June	1,346.1	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 25, 26, 27, 28, 29, 30	25	7-8 (01:10 - 12:00) 13-14 (23:00 - 18:45) 25 (08:10 - 21:45)	23-25 (1-8, FENGSHEN)	3 (Amber), 6 (Amber), 7 (2 x Amber, 2 x Red & Black), 13-14 (2 x Amber, Red), 25 (2 x Amber, Red), 26 (Amber & Red)
July	471.1	1, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16, 19, 20, 21, 27, 28, 30, 31	10	10 (09:05 - 17:25)	-	6 (Amber), 8 (Amber), 10 (Amber), 12 (2 x Amber, Red), 14-15 (Amber)
August	317.0	4, 6, 7, 8, 12, 21	-	-	4-7 (1-8, KAMMURI) 20-23 (1-9, NURI)	8 (Amber)
September	159.2	1, 2, 3, 4, 5, 6, 7, 11, 12, 17, 18, 19, 23, 24, 25, 26	-	-	22-24 (1-8, HAGUPIT)	24 (Amber)
October	144.6	4, 5	-	-	2-4 (1, HIGOS)	5 (2 x Amber)
November	54.3	3	-	-	-	-
December	9.0	-	-	-	-	-
Total	3,066.2	129 Warnings	3 Warnings	5 Warnings	6 Warnings	30 Warnings (21 x Amber, 7 x Red & 2 x Black)

- (1) Warnings and signals in this Table were based on the information from the HKO.
- (2) More than one Thunderstorm Warning may have been issued within a day but have only been shown once in this Table for clarity.
- (3) Landslip Warning was issued after consultation between the GEO and the HKO.
- (4) Tropical Cyclone Warning signal no. hoisted is shown in the bracket followed by the name of the tropical cyclone.

Table 3 - Breakdown of Landslides Reported to Government Departments in 2008

		T					
	Department	Reported Number of Landslides	Genuine Landslides				
Agriculture	e, Fisheries and Conservation Department	50(1)	50(1)				
Architectur	ral Services Department	70(47)	70(47)				
Drainage S	ervices Department	0(0)	0(0)				
Fire Servic	es Department	0(0)	0(0)				
	cal Engineering Office, neering and Development Department	650(1)	648(1)				
Highways	Department	154(143)	151(143)				
Housing D	epartment	0(0)	0(0)				
Lands Dep	artment	39(4)	39(4)				
Water Supp	plies Department	117(17)	117(17)				
	Total	1080(212)(2)	1075(212)(2)				
Legend:							
50(1) Fifty incidents were reported to the Government Department concerned, one of which were also reported to the GEO spearately by other parties (i.e. one duplicate case).							
Notes: (1) A total of 650 landslide incidents that occurred in 2008 (discounting duplicate cases) were reported to the GEO, 18 of which were reported by the LIC. 648 reported incidents were classified as genuine landslide. (2) The no. of reported landslide incidents in 2008 (discounting duplicate cases) is 1080 - 212 = 868. The no. of genuine landslides is 1075 - 212 = 863 (868 - 5), discounting non-landslide cases.							

Table 4 - Breakdown of Landslides Affecting Different Facilities

Affected Facility	Hong Kong Island	Kowloon	New Territories and Outlying Islands	All
Buildings	14(8)	1(0)	67(13)	82(21)
Registered Squatter Dwellings	2(0)	3(1)	60(11)	65(12)
Roads	24(5)	5(0)	74(30)	103(35)
Transportation Facilities (e.g. railways, tramways, etc.)	0(0)	0(0)	0(0)	0(0)
Pedestrian Pavements/ Footways	8(1)	2(0)	8(1)	18(2)
Minor Footpaths/Access Paths	62(6)	14(0)	228(41)	304(47)
Construction Sites	2(0)	0(0)	3(1)	5(1)
Open Areas	29(2)	16(2)	84(11)	129(15)
Catchwaters	2(0)	0(0)	53(7)	55(7)
Others (e.g. carparks, parks, playgrounds, gardens, backyards, etc.)	17(4)	11(2)	60(10)	88(16)
Nil consequence	5(1)	5(3)	29(9)	39(13)
Total	165(27)	57(8)	666(134)	888(169)

Legend:

Fourteen landslides of which eight were major failures (i.e. failure volume $\geq 50 \text{ m}^3$).

- (1) A given landslide may affect more than one key type of facility.
- (2) Incidents that were not genuine landslides have been excluded.
- (3) Nil consequence refers to incidents where the landslides debris came to rest on areas with no proper access for the public (e.g. natural hillside, slope berm, disused quarry surrounded by fence, etc.).

Table 5 - Landslide Consequences Related to Type of Slope Failure

Type of Slope Failure		Number of Squatter Dwellings ⁽¹⁾ Evacuated		N. 1. CEI	Nu	mber of Clos			
		Permanent	Temporary	Number of Floors, Houses or Flats Evacuated or Partially Closed	Roads	Pedestrian Pavements	Footpaths, Alleyways or Private Access Paths	Deaths	Injuries
Fill S	Fill Slopes		0	1	2	0	2	0	0
	Soil	7(7)	8(8)	0	9	1	13	0	0
Cut Slopes	Soil/Rock	1(1)	5(5)	0	18	1	11	0	0
	Rock	0	0	0	0	0	3	0	0
Retaini	ng Walls	0	4(4)	1	0	0	6	2	0
Natural	Natural Hillsides		11(11)	33	27	1	23	0	0
Registered Di	Registered Disturbed Terrain		0	1	0	0	1	0	0
	Total		28(28)	36	56	3	59	2	0

Legend:

1(1) Number of squatter dwellings evacuated, with the number of tolerated squatter structures evacuated shown in brackets.

- (1) A squatter dwelling is defined as a place of residence that contains one or more tolerated squatter structures, i.e. structures built for domestic purposes or non-domestic purposes and registered in 1982 Housing Department's Squatter Structure Survey (GEO, 2004a).
- (2) A failure may give rise to more than one type of consequence.

Table 6 - Distribution of Facility Groups Affected by Major Landslides

Type of Major Landslide	Facility Group Affected by Major Landslides (Group No.)								
	1a	1b	2a	2b	3	4	5		
All Major Landslides	9	19	5	4	7	50	66		
Major Landslides on Man-made Slopes	4	2	2	1	2	15	9		
Major Landslides on Registered Disturbed Terrain	0	0	0	1	0	0	0		
Major Landslides on Natural Hillsides	5	17	3	2	5	35	57		

- (1) Facility groups are classified in accordance with that adopted for the New Priority Classification Systems (Wong, 1998).
- (2) A given landslide may affect more than one type of facility.

Table 7 - Breakdown of Landslides by Type of Slope Failure

Туре	of Failure	Number	Percentage (%)
Fill	Slopes	52 (9, 37, 6)	6.0
	Soil	308 (11, 228, 69)	35.7
Cut Slopes	Soil/Rock	131 (10, 99, 22)	15.2
	Rock	13 (1, 10, 2)	1.5
Retain	ing Walls	45 (4, 33, 8)	5.2
Natura	l Hillsides	301 (124, 143, 34)	34.9
Registered Disturbed Terrain		13 (1, 10, 2)	1.5
	Total	863 (160, 560, 143)	100

Legend:

52 (9, 37, 6) Fifty two landslides, nine of which were major failure, 37 of which were minor failure and six of which were very minor failure.

- (1) Where a landslide involved more than one type of failure, the predominant type of failure has been considered in the above classification.
- (2) Incidents which were not genuine landslides have been excluded.

Table 8 - Landslide Volume Distribution with Respect to Geographic Locations

Volume of Failure (m³)	Hong Kong Island	Kowloon	New Territories and Outlying Islands	All
< 5	73	18	262	353(40.9%)
≥ 5 to < 10	20	7	89	116(13.4%)
≥ 10 to < 20	15	8	87	110(12.8%)
≥ 20 to < 50	27	15	82	124(14.4%)
≥ 50 to < 200	13	5	69	87(10.1%)
≥ 200 to < 500	10	2	34	46(5.3%)
≥ 500 to < 1000	1	1	12	14(1.6%)
≥ 1000	2	0	11	13(1.5%)
Total	161	56	646	863(100%)

Legend:

353(40.9%) Three hundred and fifty three landslides, which amount to 40.9% of the total 863 genuine landslides reported to the Government.

Note: 160 landslides involved a failure volume \geq 50 m³.

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Table 9 - Landslide Volume Distribution with Respect to Type of Slope Failure

Volume of Failure (m³)	Fill Slope	Cut Slope		Retaining	Natural	Registered	T. 4.1	
		Soil	Soil/Rock	Rock	Wall	Hillsides	Disturbed Terrain	Total
< 5	17	180	57	10	20	65	4	353(40.9%)
≥ 5 to < 10	8	47	18	0	11	29	3	116(13.4%)
≥ 10 to < 20	4	30	20	0	7	46	3	110(12.8%)
≥ 20 to < 50	14	40	26	2	3	37	2	124(14.4%)
≥ 50 to < 200	6	10	6	1	2	62	0	87(10.1%)
≥ 200 to < 500	3	0	3	0	1	39	0	46(5.3%)
≥ 500 to < 1000	0	0	0	0	1	12	1	14(1.6%)
≥ 1000	0	1	1	0	0	11	0	13(1.5%)
Total	52	308	131	13	45	301	13	863(100%)

Legend:

353(40.9%) Three hundred and fifty three landslides, which amount to 40.9% of the total 863 genuine landslides reported to the Government.

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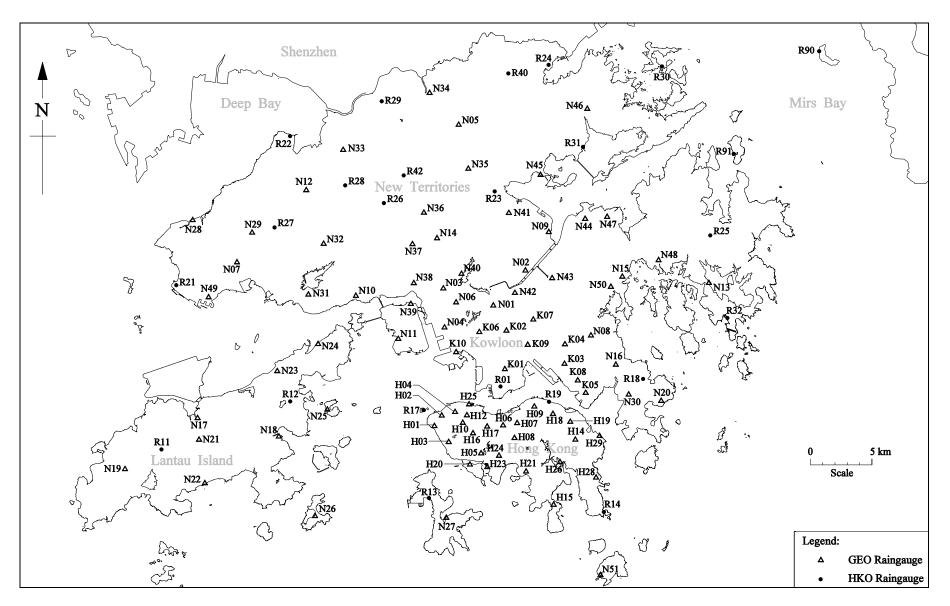


Figure 1 - Locations of GEO and HKO Automatic Raingauges

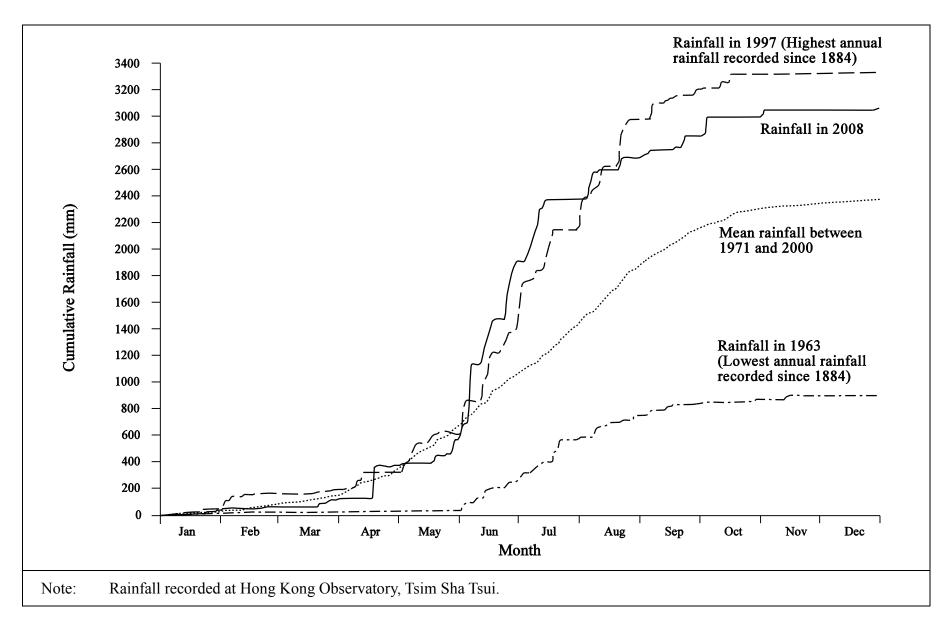


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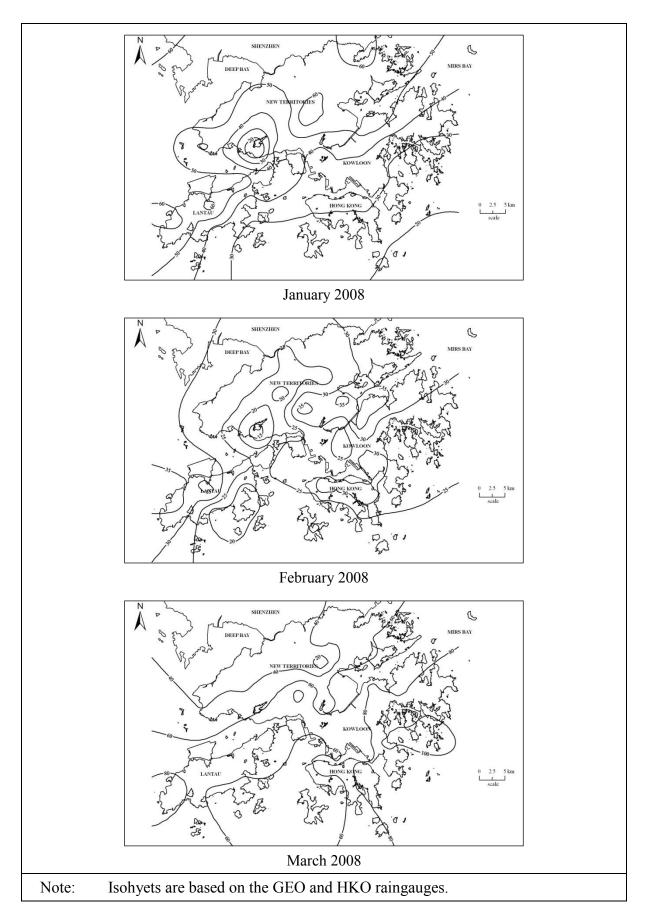


Figure 3a - Monthly Rainfall Distribution in 2008

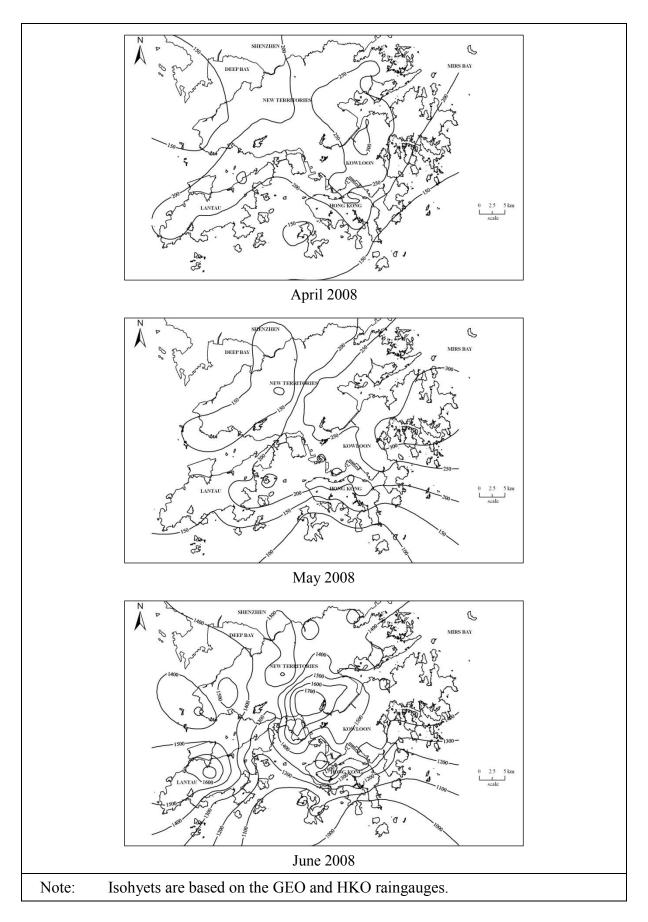


Figure 3b - Monthly Rainfall Distribution in 2008

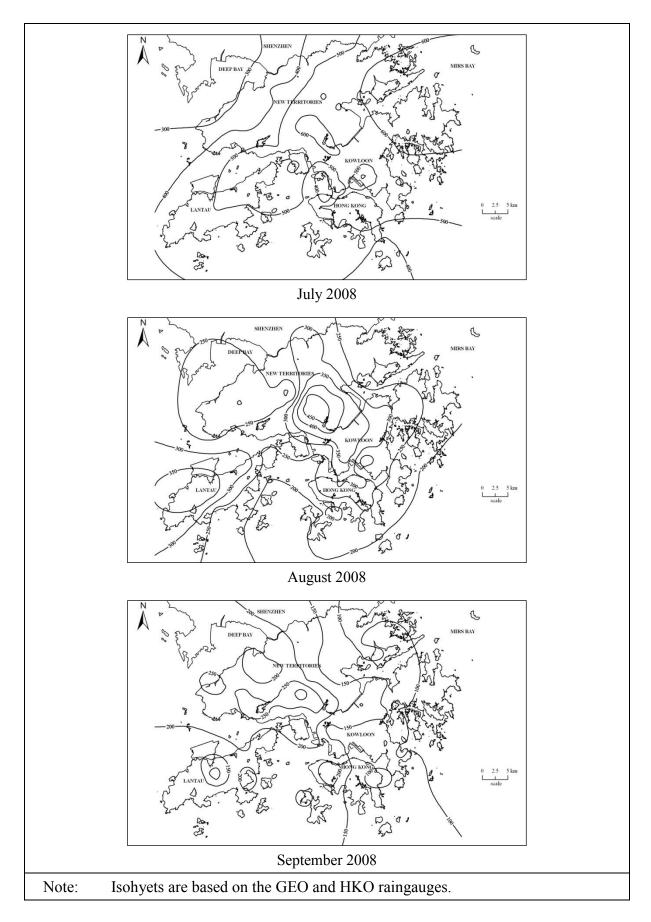


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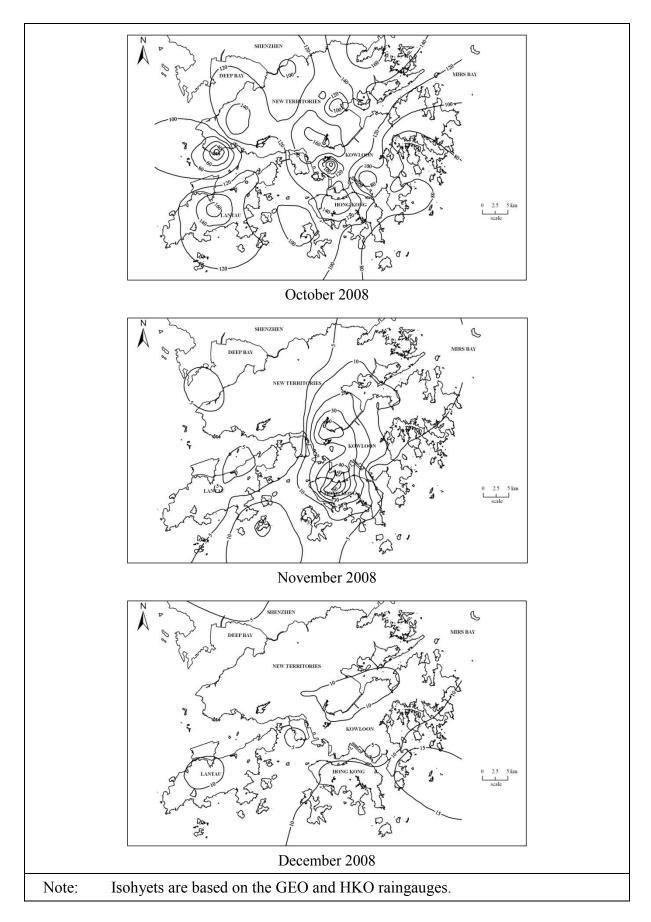


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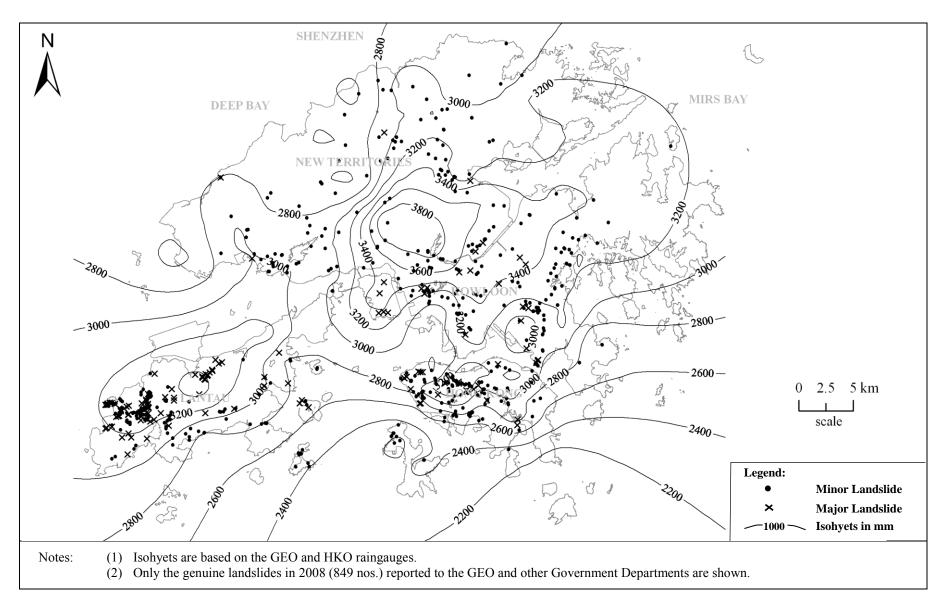


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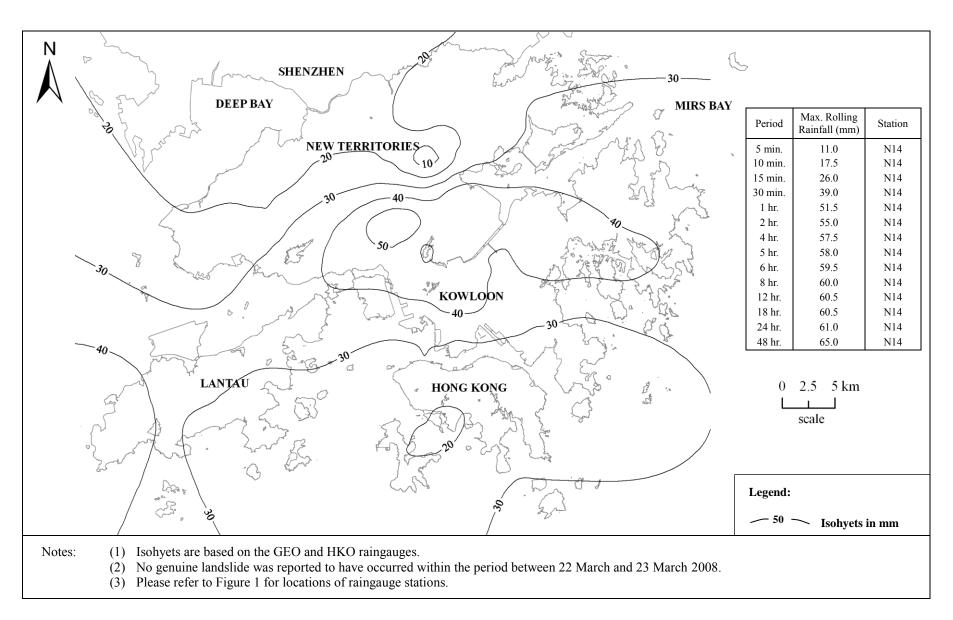


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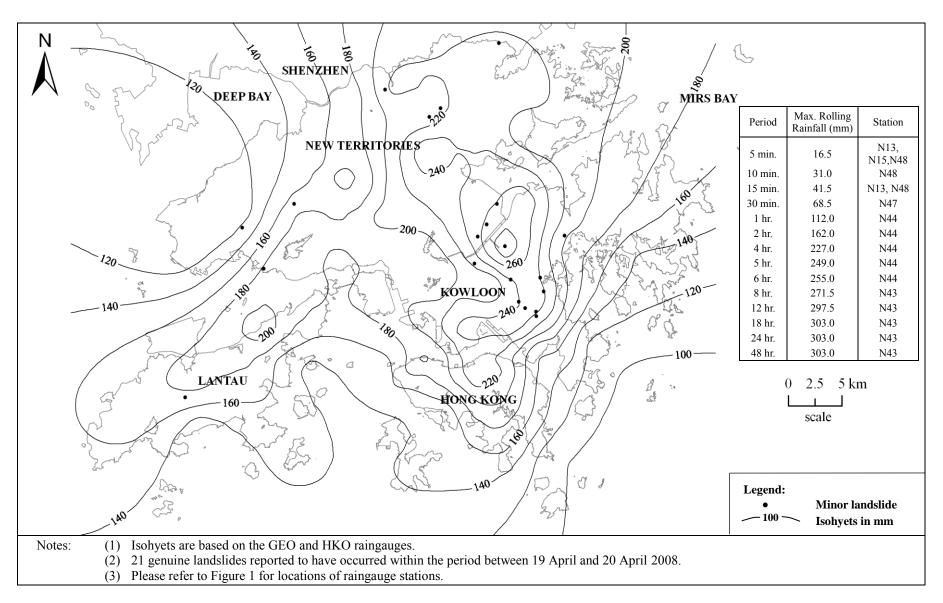


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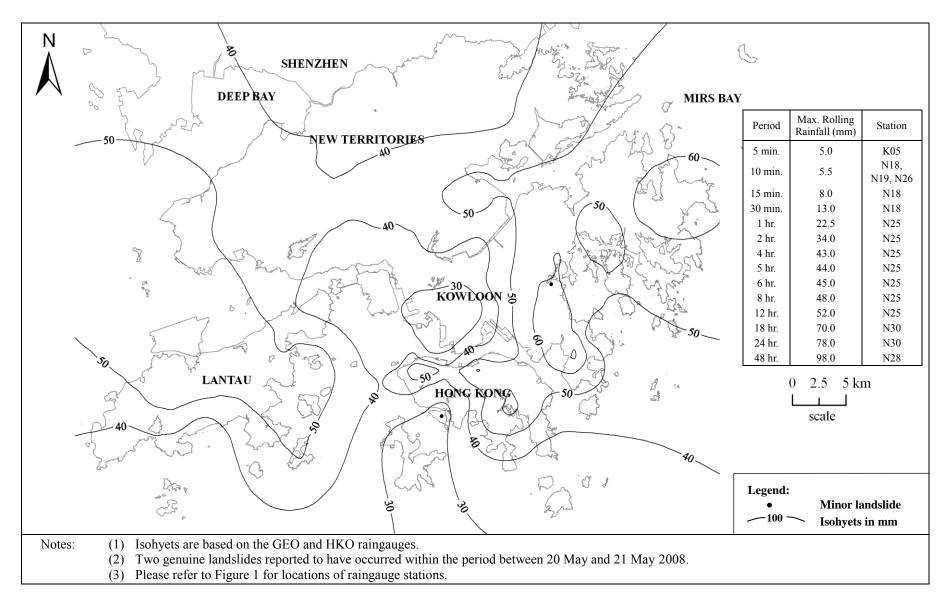


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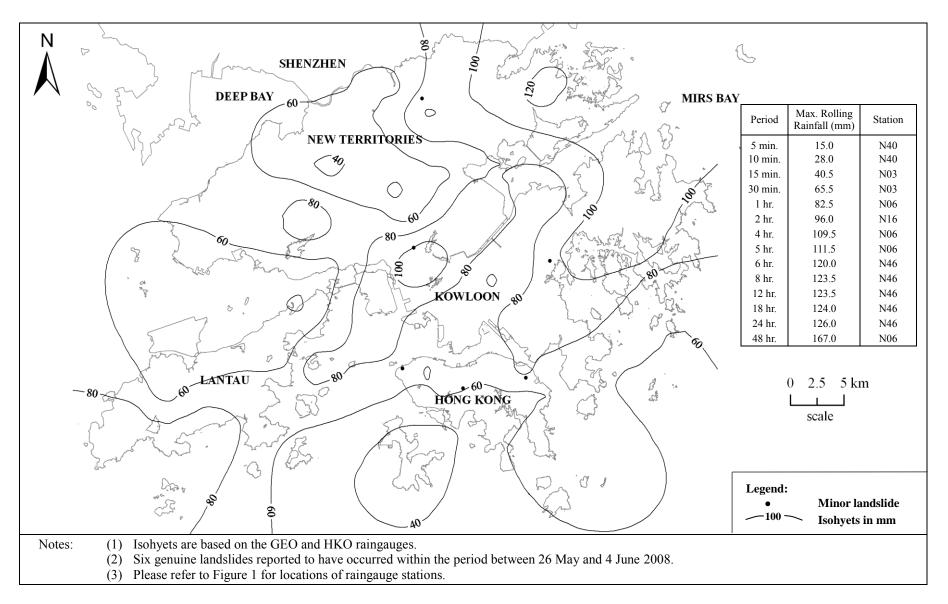


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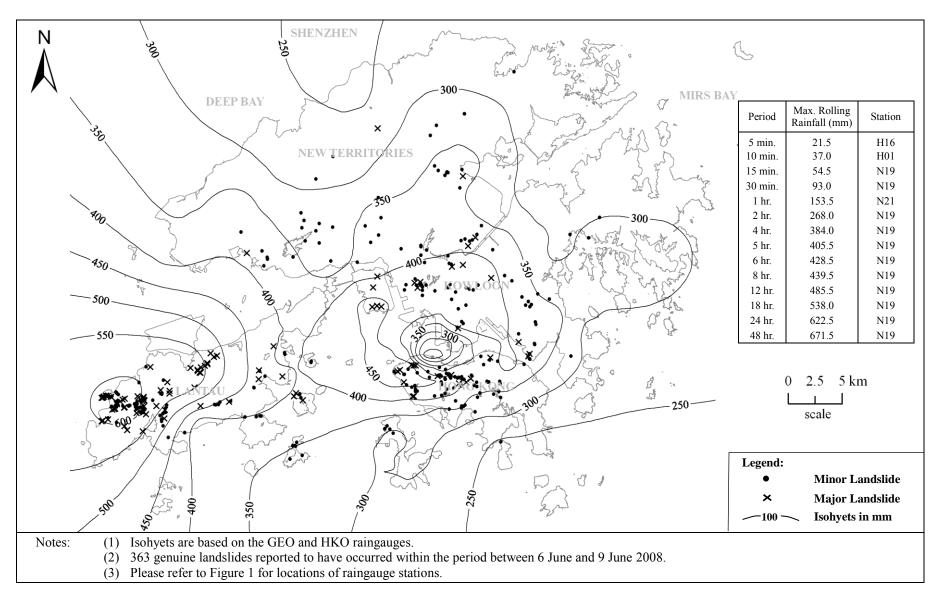


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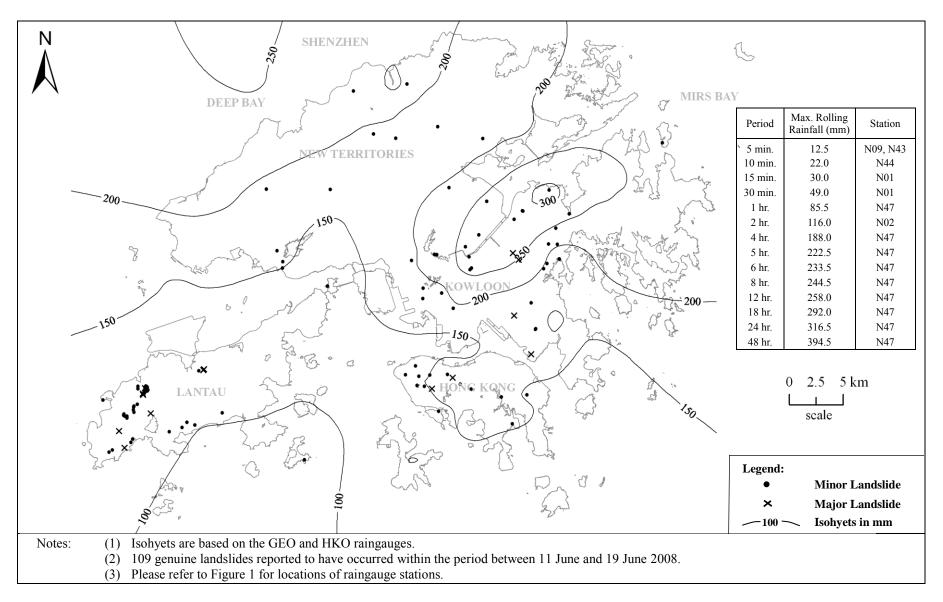


Figure 10 - Maximum Rolling 24-hour Rainfall Distribution for the Period between 11 June (00:00) and 19 June 2008 (24:00) and Locations of Landslide

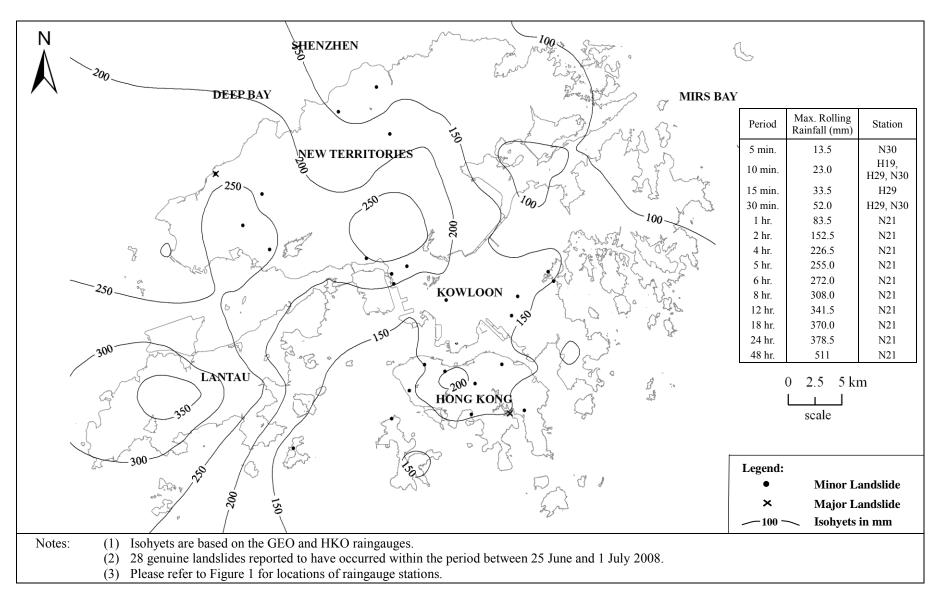


Figure 11 - Maximum Rolling 24-hour Rainfall Distribution for the Period between 25 June (00:00) and 1 July 2008 (24:00) and Locations of Landslides



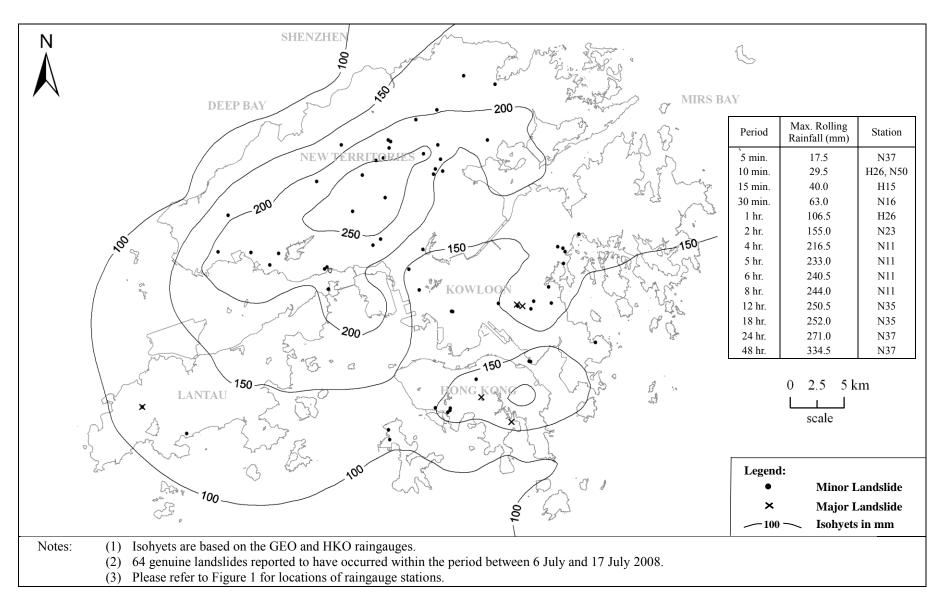


Figure 12 - Maximum Rolling 24-hour Rainfall Distribution for the Period between 6 July (00:00) and 17 July 2008 (24:00) and Locations of Landslides

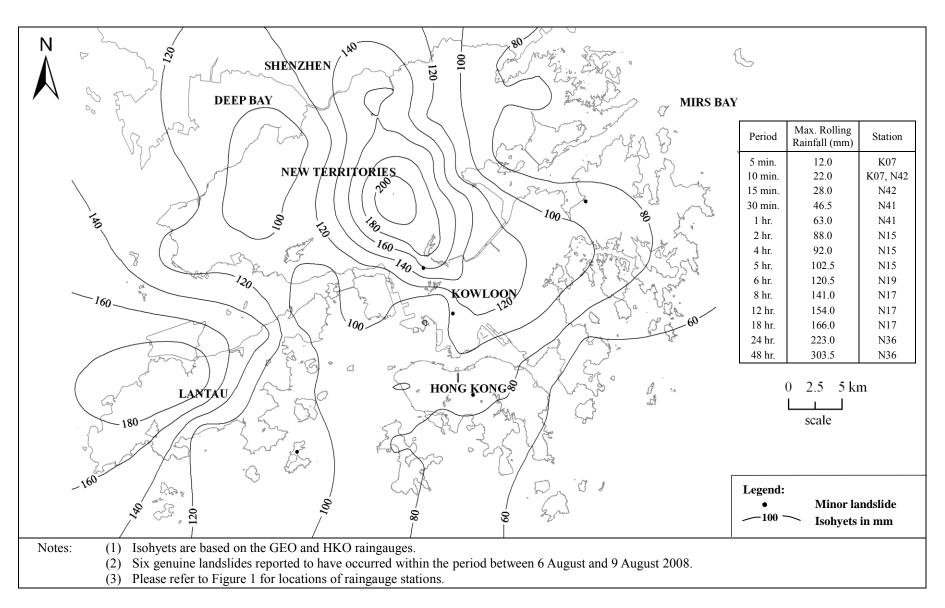


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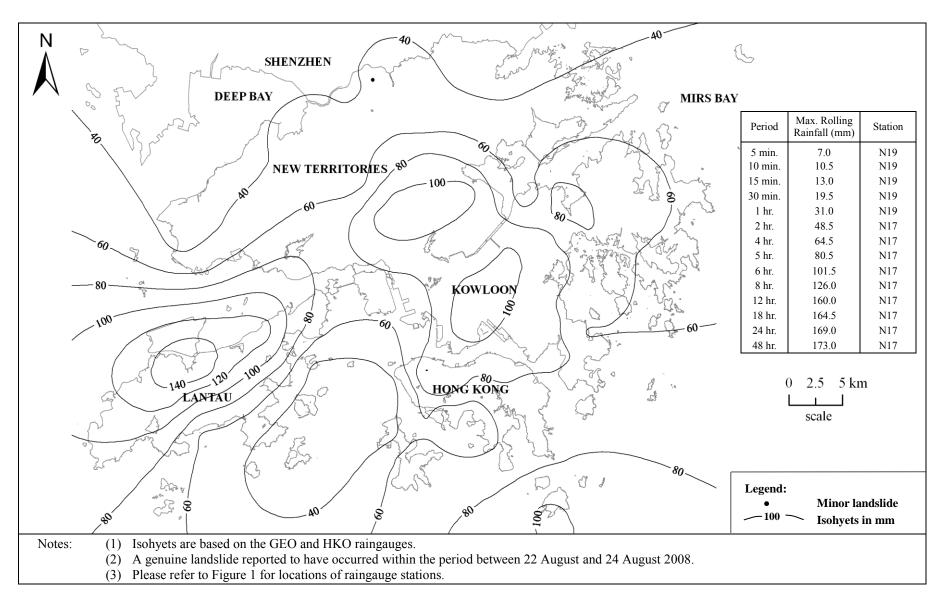


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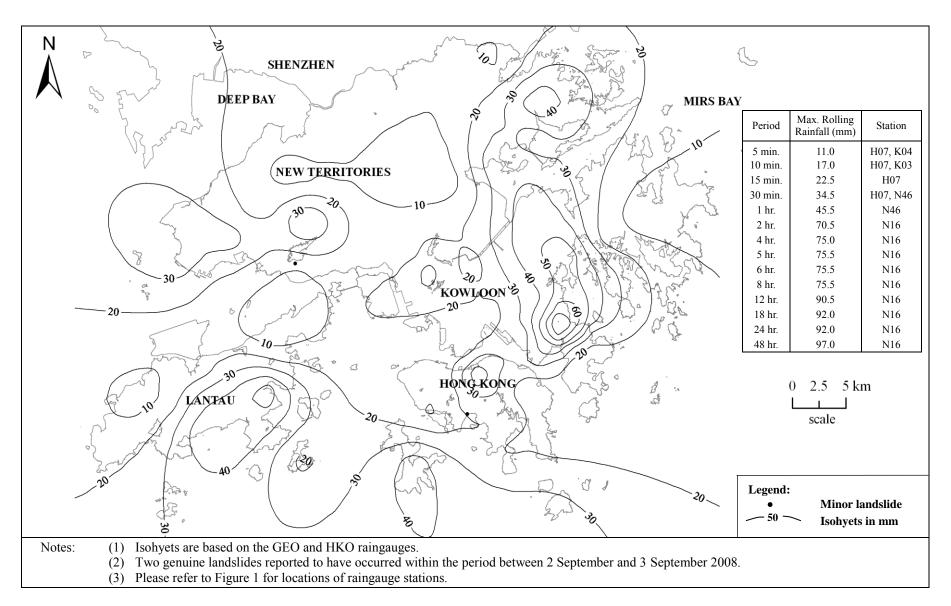


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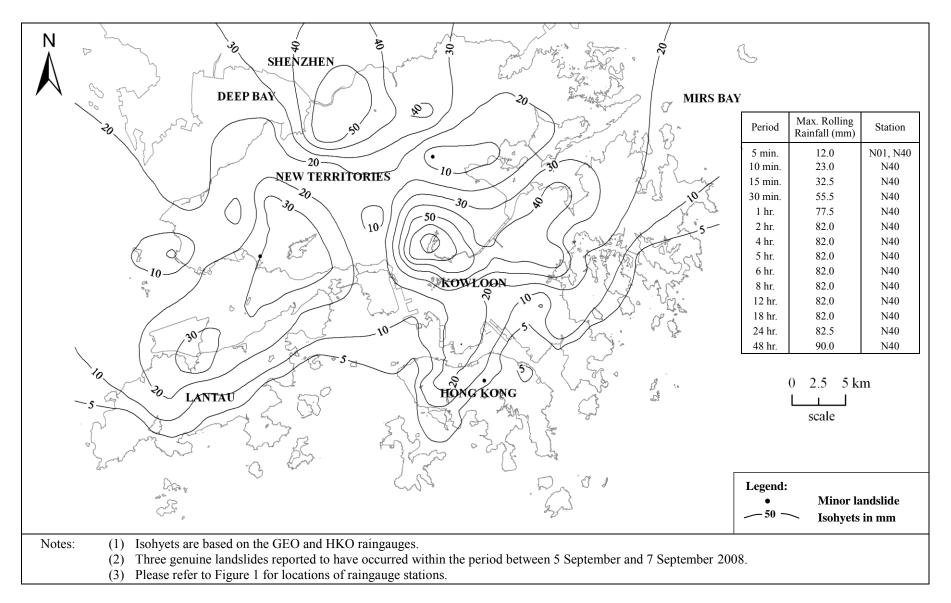


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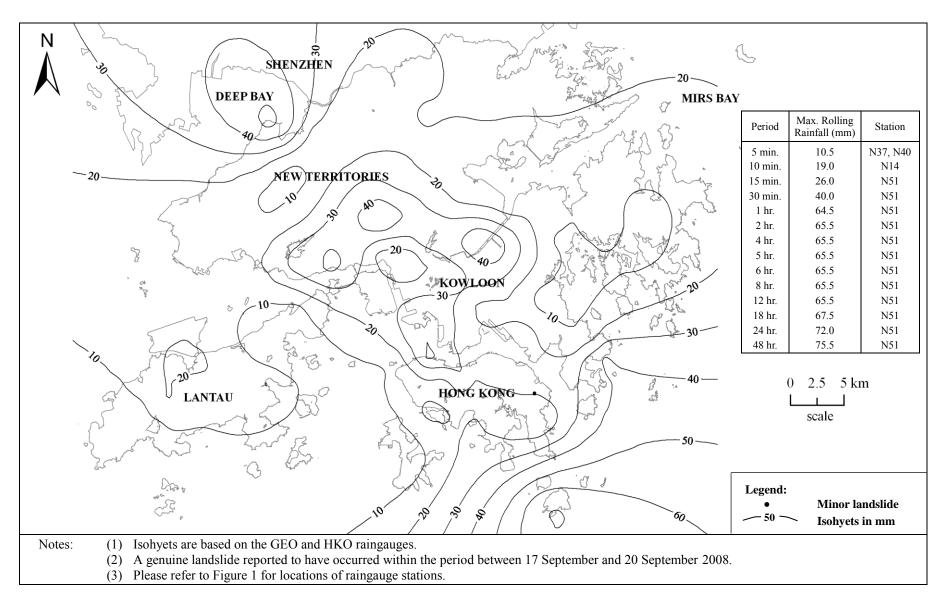


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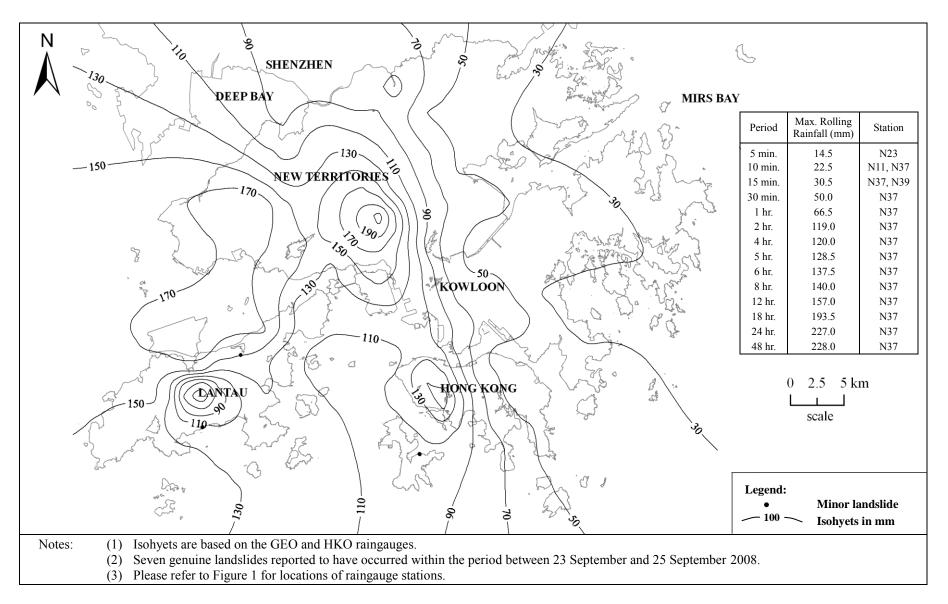


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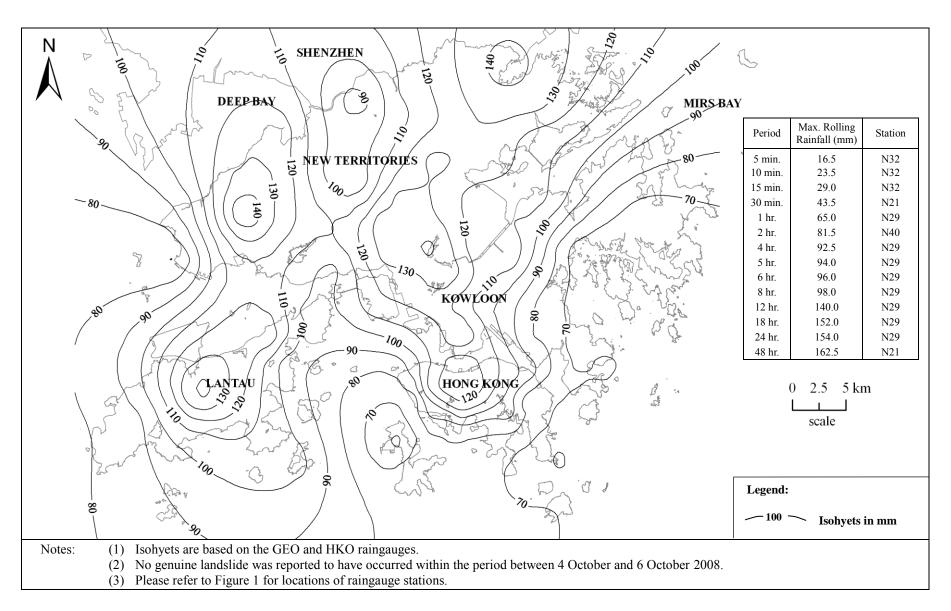


Figure 19 - Maximum Rolling 24-hour Rainfall Distribution for the Period between 4 October (00:00) and 6 October 2008 (24:00)

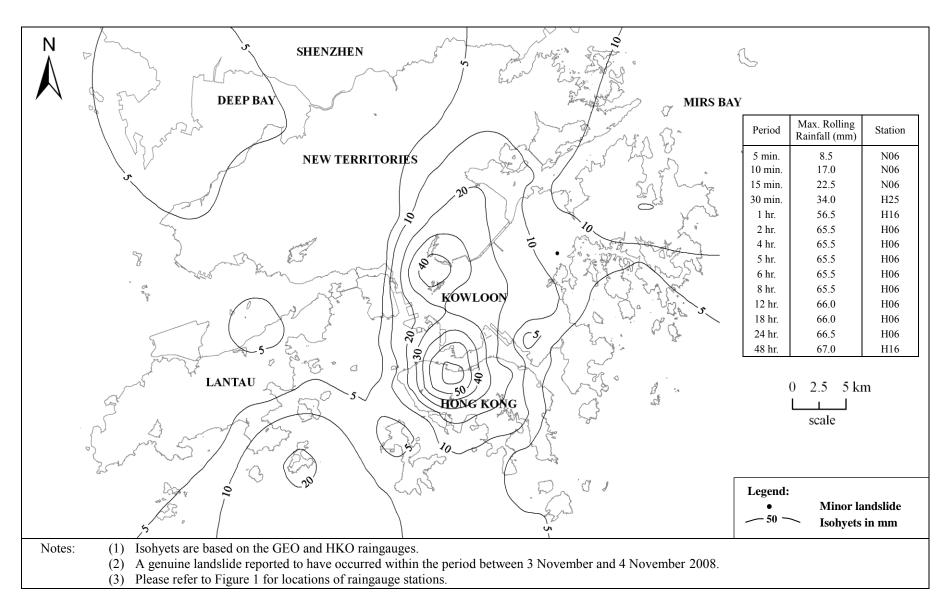


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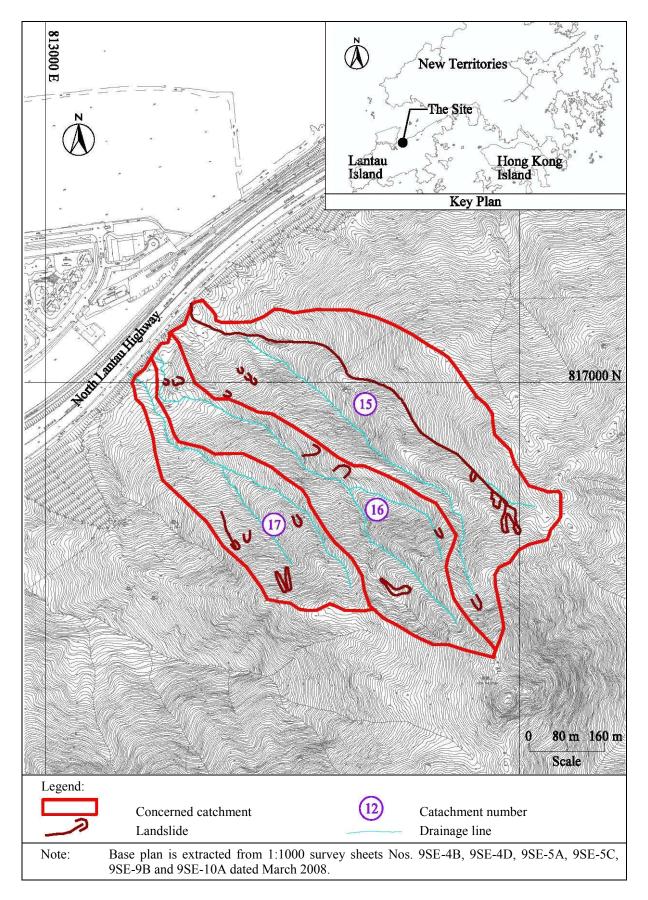


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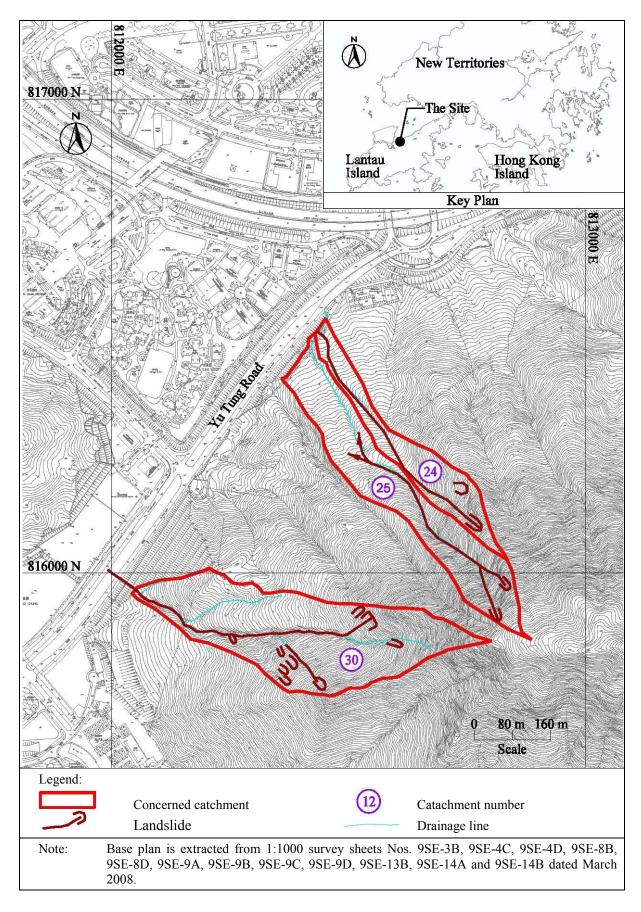


Figure 22 - Report Landslide Incidents on Natural Hillside above Yu Tung Road, Tung Chung

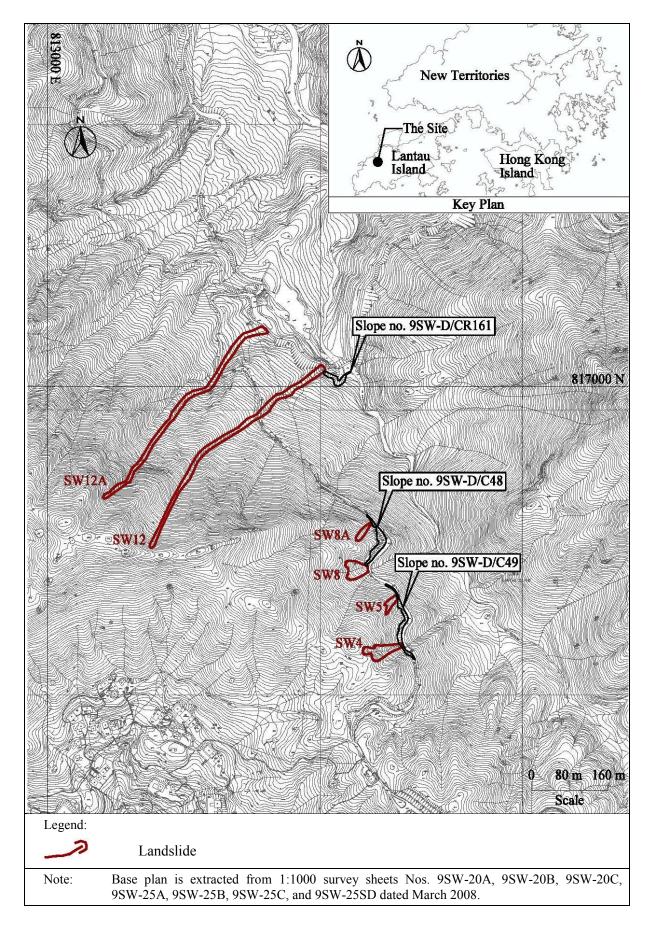


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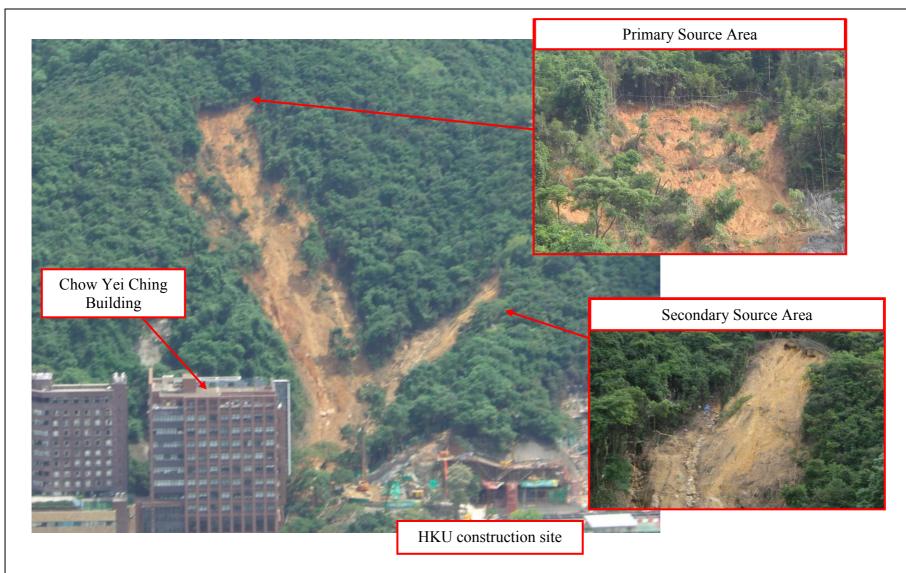


Plate 2 - The 7 June 2008 Landslide Incident on Natural Hillside behind Chow Yei Ching Building at the University of Hong Kong, Pok Fu Lam (Incident No. 2008/06/0193)

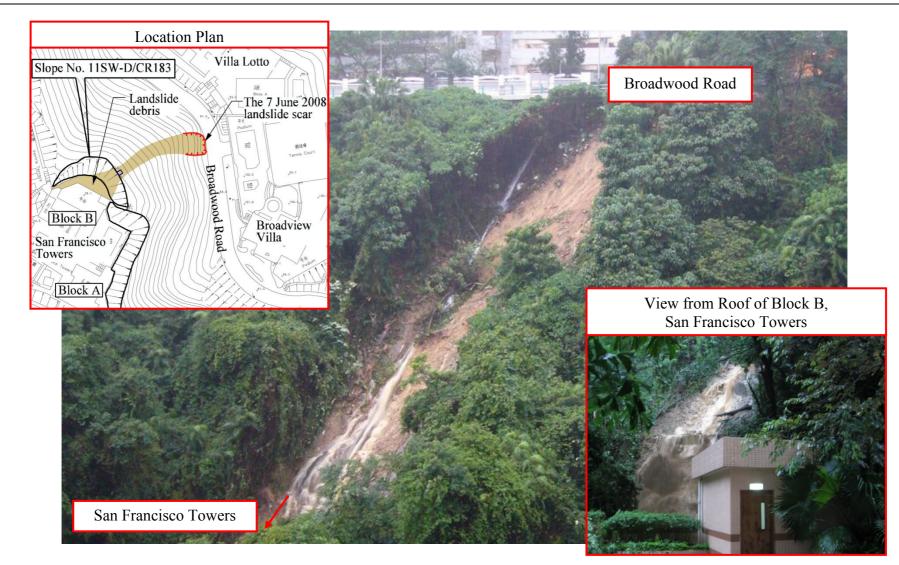


Plate 3 - The 7 June 2008 Landslide Incident on Hillside above San Francisco Towers, Happy Valley (Incident No. 2008/06/0131)



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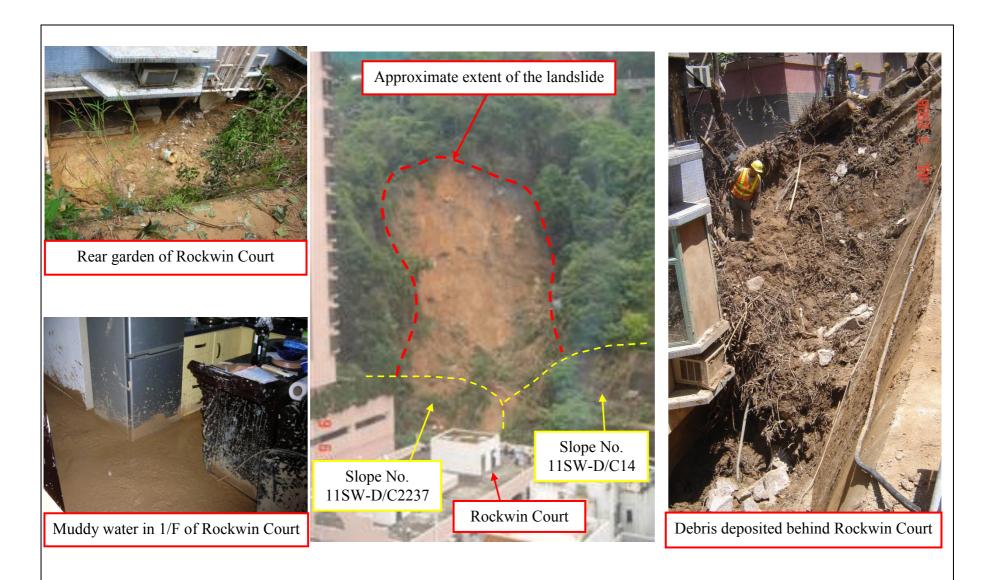


Plate 6 - The 7 June 2008 Landslide Incident on Natural Hillside above Fung Fai Terrace, Happy Valley (Incident No. 2008/06/0156)



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Plate 9 - The 7 June 2008 Landslide Incident on Natural Hillside in Catchment No. 30 above Yu Tung Road, Tung Chung (Incident No. 2008/06/0344)

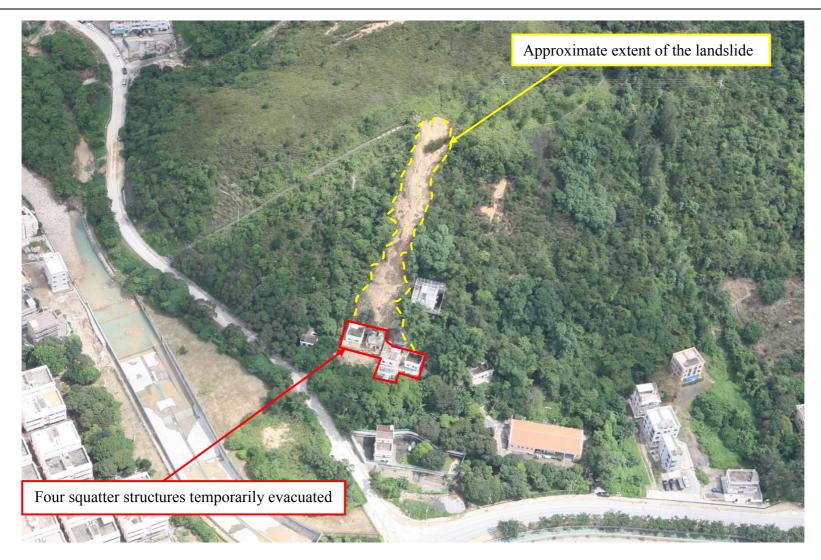


Plate 10 - The 7 June 2008 Landslide Incident on Natural Hillside at Fui Yiu Ha, Sheung Ling Pei, Tung Chung (Incident No. 2008/06/0232)

Landslide on slope No. 9SW-B/CR177 (lower failure)



Landslide on natural hillside above slope No. 9SW-B/CR177 (upper failure)



Plate 11 - The 7 June 2008 Landslides on Slope No. 9SW-D/CR177 and Natural Hillside behind Kwan Tai Temple, Kat Hing Back Street, Tai O (Incident Nos. 2008/06/0376A and 2008/06/0376B)

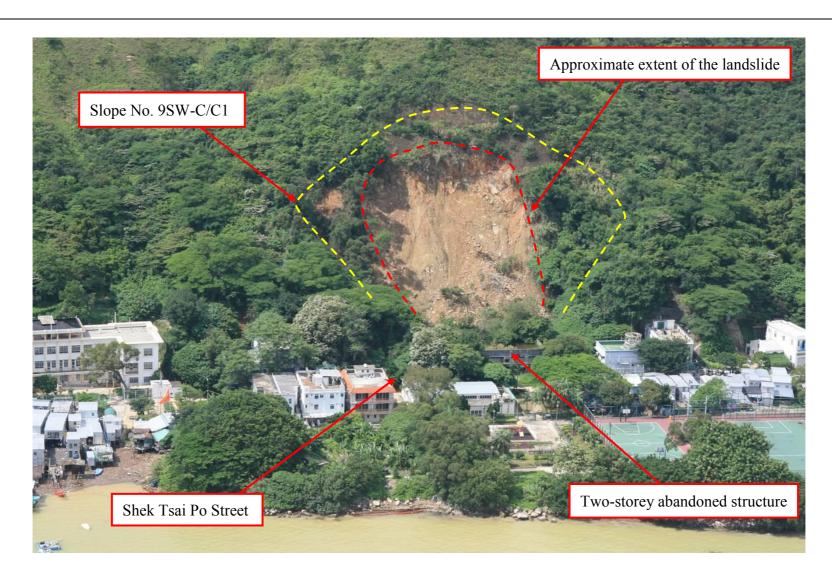


Plate 12 - The 7 June 2008 Landslide Incident on Slope No. 9SW-C/C1 at Shek Tsai Po Street, Tai O (Incident No. 2008/06/0381)

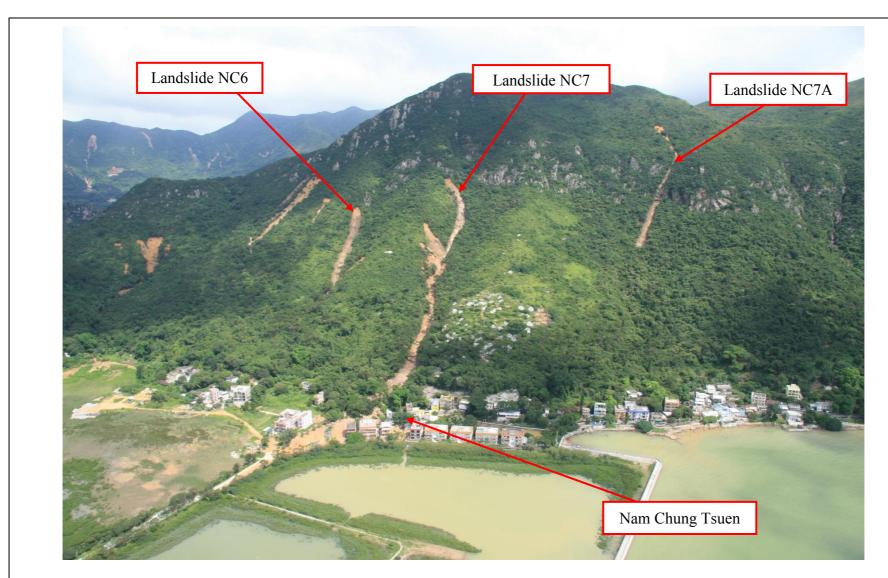


Plate 13 - The 7 June 2008 Landslide Incidents on Natural Hillside above Nam Chung Tsuen, Tai O (Incident Nos. 2008/06/0261, 2008/06/0481 and 2008/06/0483)



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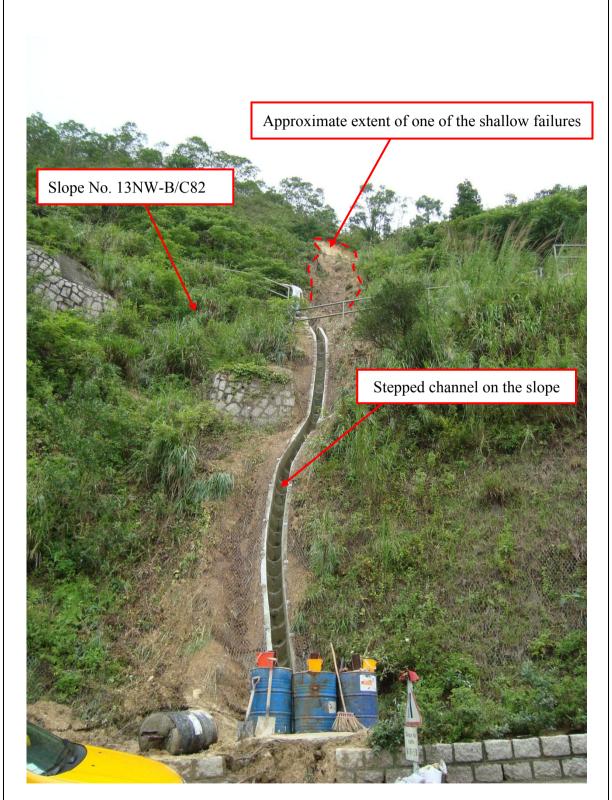


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Plate 19 - The 7 June 2008 Landslide Incident (Landslide KS3) on Natural Hillside above Keung Shan Road near Kwun Yum Temple, Lantau Island (Incident No. 2008/06/0499)

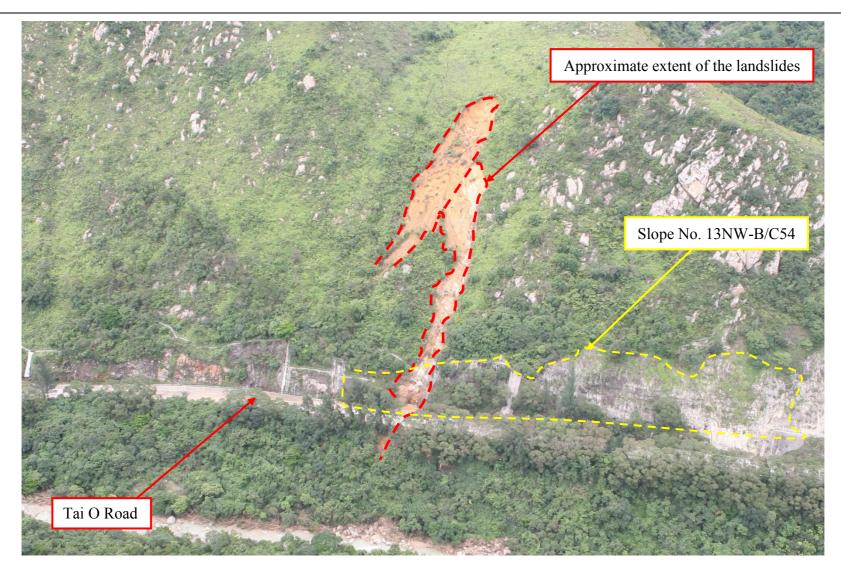


Plate 20 - The 7 June 2008 Landslide Incidents on Natural Hillside above Slope No. 3NW-B/C54, Tai O Road (Incident Nos. 2008/06/0500 and 2008/06/0501)



Plate 21 - The June 2008 Landslide Incidents above Sham Wat Road (Incident Nos. 2008/06/0435, 2008/06/0439, 2008/06/0440, 2008/06/0441, 2008/06/0555 and LI/2008/06/2013)

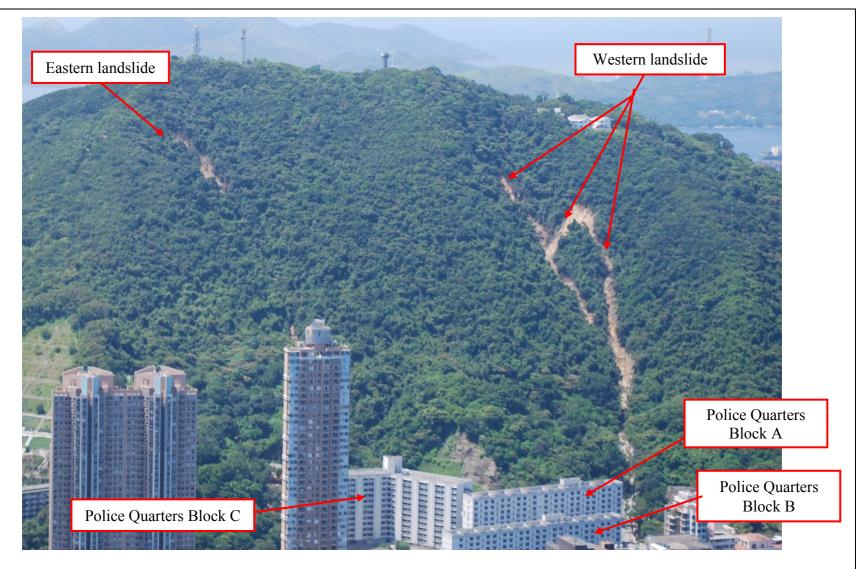


Plate 22 - The 7 June 2008 Landslide Incidents on Natural Hillside at Mount Davis above Kennedy Town Police Quarters (Incident Nos. 2008/06/0183 and 2008/06/0451)

APPENDIX A

SOME SELECTED RAINFALL PARAMETERS FOR THE 16 RAINSTORMS WITH DAILY RAINFALL EXCEEDING 50 mm

Table A1 - Some Selected Rainfall Parameters for the 16 Rainstorms with Daily Rainfall exceeding 50 mm in 2008 (Sheet 1 of 3)

		5-r	min	10-	min	15-	min	30-	min
	Rainstorm	Max. rainfall (mm)	Raingauge Station						
1	22-23 March 2008	11.0	N14	17.5	N14	26.0	N14	39.0	N14
2	19-20 April 2008	16.5	N13, N15, N48	31.0	N48	41.5	N13, N48	68.5	N47
3	20-21 May 2008	5.0	K05	5.5	N18, N19, N26	8.0	N18	13.0	N18
4	26 May - 4 June 2008	15.0	N40	28.0	N40	40.5	N03	65.5	N03
5	6-9 June 2008	21.5	H16	37.0	H01	54.5	N19	93.0	N19
6	11-19 June 2008	12.5	N09, N43	22.0	N44	30.0	N01	49.0	N01
7	25 June - 1 July 2008	13.5	N30	23.0	H19, H29, N30	33.5	H29	52.0	H29, N30
8	6-17 July 2008	17.5	N37	29.5	H26, N50	40.0	H15	63.0	N16
9	6-9 August 2008	12.0	K07	22.0	K07, N42	28.0	N42	46.5	N41
10	22-24 August 2008	7.0	N19	10.5	N19	13.0	N19	19.5	N19
11	2-3 September 2008	11.0	H07, K04	17.0	H07, K03	22.5	H07	34.5	H07, N46
12	5-7 September 2008	12.0	N01, N40	23.0	N40	32.5	N40	55.5	N40
13	17-20 September 2008	10.5	N37, N40	19.0	N14	26.0	N51	40.0	N51
14	23-25 September 2008	14.5	N23	22.5	N11, N37	30.5	N37, N39	50.0	N37
15	4-6 October 2008	16.5	N32	23.5	N32	29.0	N32	43.5	N21
16	3-4 November 2008	8.5	N06	17.0	N06	22.5	N06	34.0	H25

Table A1 - Some Selected Rainfall Parameters for the 16 Rainstorms with Daily Rainfall exceeding 50 mm in 2008 (Sheet 2 of 3)

		5-r	min	10-	min	15-	min	30-	min
Rainstorm		Max. rainfall (mm)	Raingauge Station						
1	22-23 March 2008	51.5	N14	55.0	N14	57.5	N14	58.0	N14
2	19-20 April 2008	112.0	N44	162.0	N44	227.0	N44	249.0	N44
3	20-21 May 2008	22.5	N25	34.0	N25	43.0	N25	44.0	N25
4	26 May - 4 June 2008	82.5	N06	96.0	N16	109.5	N06	111.5	N06
5	6-9 June 2008	153.5	N21	268.0	N19	384.0	N19	405.5	N19
6	11-19 June 2008	85.5	N47	116.0	N02	188.0	N47	222.5	N47
7	25 June - 1 July 2008	83.5	N21	152.5	N21	226.5	N21	255.0	N21
8	6-17 July 2008	106.5	H26	155.0	N23	216.5	N11	233.0	N11
9	6-9 August 2008	63.0	N41	88.0	N15	92.0	N15	102.5	N15
10	22-24 August 2008	31.0	N19	48.5	N17	64.5	N17	80.5	N17
11	2-3 September 2008	45.5	N46	70.5	N16	75.0	N16	75.5	N16
12	5-7 September 2008	77.5	N40	82.0	N40	82.0	N40	82.0	N40
13	17-20 September 2008	64.5	N51	65.5	N51	65.5	N51	65.5	N51
14	23-25 September 2008	66.5	N37	119.0	N37	120.0	N37	128.5	N37
15	4-6 October 2008	65.0	N29	81.5	N40	92.5	N29	94.0	N29
16	3-4 November 2008	56.5	H16	65.5	H06	65.5	H06	65.5	H06

Table A1 - Some Selected Rainfall Parameters for the 16 Rainstorms with Daily Rainfall exceeding 50 mm in 2008 (Sheet 3 of 3)

		8-	-hr	12	-hr	18	3-hr	24	-hr	48	-hr
	Rainstorm	Max. rainfall (mm)	Raingauge Station								
1	22-23 March 2008	60.0	N14	60.5	N14	60.5	N14	61.0	N14	65.0	N14
2	19-20 April 2008	271.5	N43	297.5	N43	303.0	N43	303.0	N43	303.0	N43
3	20-21 May 2008	48.0	N25	52.0	N25	70.0	N30	78.0	N30	98.0	N28
4	26 May - 4 June 2008	123.5	N46	123.5	N46	124.0	N46	126.0	N46	167.0	H06
5	6-9 June 2008	439.5	N19	485.5	N19	538.0	N19	622.5	N19	671.5	N19
6	11-19 June 2008	244.5	N47	258.0	N47	292.0	N47	316.5	N47	394.5	N47
7	25 June - 1 July 2008	308.0	N21	341.5	N21	370.0	N21	378.5	N21	511.0	N21
8	6-17 July 2008	244.0	N11	250.5	N35	252.0	N35	271.0	N37	334.5	N37
9	6-9 August 2008	141.0	N17	154.0	N17	166.0	N17	223.0	N36	303.5	N36
10	22-24 August 2008	126.0	N17	160.0	N17	164.5	N17	169.0	N17	173.0	N17
11	2-3 September 2008	75.5	N16	90.5	N16	92.0	N16	92.0	N16	97.0	N16
12	5-7 September 2008	82.0	N40	82.0	N40	82.0	N40	82.5	N40	90.0	N40
13	17-20 September 2008	65.5	N51	65.5	N51	67.5	N51	72.0	N51	75.5	N51
14	23-25 September 2008	140.0	N37	157.0	N37	193.5	N37	227.0	N37	228.0	N37
15	4-6 October 2008	98.0	N29	140.0	N29	152.0	N29	154.0	N29	162.5	N21
16	3-4 November 2008	65.5	Н06	66.0	Н06	66.0	Н06	66.5	Н06	67.0	H16

APPENDIX B

LIST OF LANDSLIDE INCIDENTS REPORTED TO THE GOVERNMENT

LIST OF TABLES

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Table B1 - List of Major Landslide Incidents (Sheet 1 of 19)

		Feature		Failure		F:114		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0129	Hung Hing Store 18.5 milestone, Castle Peak Road, Cafeteria Old Beach, Tuen Mun	6SW-C/CR797	7/6 (06:32)	Retaining wall (mass concrete)	300	Squatter dwelling	2 fatalities, 12 persons and 4 squatter dwellings temporarily evacuated	
2008/06/0131	Above San Francisco Towers, Happy Valley	Unregistered at the time of failure	7/6 (06:49)	Fill	75 ⁺	Building	Flooding of basement carpark in San Francisco Towers	
2008/06/0132	Keung Shan Road near Tai O Road, Lantau Island (Landslide KS1)	Natural hillside	7/6	Natural hillside	80+	Road	All 2 lanes of Tai O Road temporarily closed	
2008/06/0136	Near Area 18 Graveyard, Tung Chung Road, Lantau Island	Natural hillside	7/6	Natural hillside	1120 [§] [7 source areas: 80-300]	Road	All 2 lanes of Tung Chung Road temporarily closed	
2008/06/0137	53K Chuen Yuen Road East, Sam Ka Tsuen, Lei Yue Mun	11SE-B/C108	7/6 (09:45)	Rock cut	50	Open area	-	
2008/06/0144	Pak Fuk Road near Tin Hau Temple Road	11SE-A/C502	7/6 (09:40)	Soil/rock cut	1270 ⁺	Road	All 2 lanes of Pak Fuk Road temporarily closed	
2008/06/0145	Behind House No. 390 Pai Tau Village, To Fung Shan Road, Shatin	Natural hillside	7/6 (10:32)	Natural hillside	100	Village house	3 village houses temporarily evacuated	
2008/06/0150	Above feature No. 11NW-D/C62, Old Castle Peak Rd, Pum Fong Sheung Village, Kwai Chung	Natural hillside	7/6(12:45)	Natural hillside	200 ⁺	Squatter dwelling and road	1 of 2 lanes of Castle Peak Road temporarily closed, 3 squatter dwellings temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department.	

Table B1 - List of Major Landslide Incidents (Sheet 2 of 19)

		Feature		Failure		Facility.		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0151	Junction of Cooper Road and Creasy Road	11SE-C/C86	Unknown	Soil cut	50	Road	All 2 lanes of Cooper Road temporarily closed	
2008/06/0152A		10NE-B/F127		Fill	200	Road	All 2 lanes of Tsing Yi Road temporarily closed	
2008/06/0152B	46 Tsing Yi Road, Tsing Yi	10NE-B/C329	7/6 (10:25)	Soil cut	75 ⁺	Nil (debris came to rest on slope)	-	
2008/06/0156	Rockwin Court, Fung Fai Terrace, Below Stubbs Road	Natural hillside	7/6	Natural hillside	500 ⁺	Building	9 flats of Rockwin Court temporarily evacuated	
2008/06/0159	Behind 19 Keng Hau Road, Tai Wai	Natural hillside	7/6 (08:31)	Natural hillside	220 ⁺	Building	3-storey building temporarily evacuated	
2008/06/0160	Near House Nos. 160-161, Ha Wo Che Village, Shatin	Natural hillside	7/6 (10:15)	Natural hillside	75	Squatter dwelling	11 persons and 2 squatter dwellings temporally evacuated. Category 1 NDC recommendation subsequently made to Lands Department.	
2008/06/0165	Above Feature No. 11SW-A/C144, Pok Fu Lam Road	Natural hillside	7/6 (10:00)	Natural hillside	50	Nil (Landslide debris deposited on the slope)	-	
2008/06/0167	Near RSPCA, 698 Victoria Road	11SW-C/F220	6/6 (19:32)	Fill	480	Access road, minor footpath and others (kennel)	Access road temporarily closed. A section of footpath and kennel temporarily fenced off	

Table B1 - List of Major Landslide Incidents (Sheet 3 of 19)

		Feature		Failure		Escilit.		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0169	Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	490 [§] [3 source areas: 10-260]	Access road	Access road temporarily closed	
2008/06/0170	Above feature No. 11NE-A/C351, Shatin Pass Road, Shatin	Natural hillside	7/6	Natural hillside	3550 ⁺	Temple and open area	Evacuation of the temple and flooding of an open area of Tsz Ching Estate	
2008/06/0173	Near HK Electric Transformer Station, 700 Victoria Road	11SW-C/F210	6/6	Fill	150	Building	Footing of building affected	
2008/06/0180	Near Block 4F, HKU Senior Staff Quarters, 25 Sha Wan Drive, Sandy Bay	11SW-C/F160	7/6	Fill	100	Building	-	
2008/06/0182	Ewan Court, 54-56 Kennedy Road	Natural hillside	7/6	Natural hillside	200 ⁺	Building	A security booth and a section of concrete parapet wall at the rear of Ewan Court damaged	
2008/06/0183	Mount Davis above Blocks A and B of Kennedy Town Police Quarters, 12 Ka Wai Man Road	Natural hillside	7/6	Natural hillside	435 [§] [2 source areas: 180 & 255]	Building (vacant)	-	
2008/06/0184	Adjacent to House No. 6, Wang Tong Village, Mui Wo, Lantau Island	Natural hillside	7/6 (06:00)	Natural hillside	200	Minor footpath	-	
2008/06/0186	Fa Wah Court near Upper Keung Shan Road, Lantau Island	Natural hillside	7/6	Natural hillside	400 [§] [8 source areas: 15-100]	Squatter dwelling	-	
2008/06/0188	CLP Old Power Station Storage Area, Tsing Yi Road, Tsing Yi	10NE-B/C56	7/6	Soil/rock cut	250 ⁺	Access road	-	

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Table B1 - List of Major Landslide Incidents (Sheet 4 of 19)

		Feature		Failure		Fasilita		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0193	Behind Chow Yei Ching Building, The University of Hong Kong	Natural hillside	7/6	Natural hillside	1960 [§] [2 source areas: 210 & 1750]	Building	3 floors of Chow Yei Ching Building temporarily evacuated	
2008/06/0194	Near lamp post No. S/CH/2X/047, Cheung Hang Village, Kau Wa Keng	Natural hillside	7/6 (15:01)	Natural hillside	54	Minor footpath	-	
2008/06/0195	Above feature No. 10NE-B/C95, Tsing Chin Street, Tsing Yi	Natural hillside	7/6 (13:56)	Natural hillside	200	Road	-	
2008/06/0202	Black's Link near Coombe Road	11SW-D/CR1104	7/6 (17:31)	Soil cut	60	Access road	-	
2008/06/0208	Keung Shan Road near Sham Wat Road, Lantau Island (Landslide KS2)	Natural hillside	7/6 (15:02)	Natural hillside	3250 [§] [4 source areas: 50-3000]	Road	All 2 lanes of Keung Shan Road temporarily closed	
2008/06/0212	Near Sheung Sam House, Lung Hang Estate, Tai Wai	Natural hillside	7/6 (16:31)	Natural hillside	100 ⁺	Open area	-	
2008/06/0231	Above Mount Davis Path and near Access Road to YMCA Hostel	Natural hillside	7/6	Natural hillside	200+	Access road	Mount Davis Path temporarily closed	
2008/06/0232	16-17 Sheung Ling Pei Village, Tung Chung, Lantau Island	Natural hillside	7/6	Natural hillside	180	Squatter dwelling	4 squatter dwellings temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department	

Table B1 - List of Major Landslide Incidents (Sheet 5 of 19)

		Feature		Failure		F314	Consequence	
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected		
2008/06/0238	Behind House Nos. 10-12, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 3)	Natural hillside	7/6	Natural hillside	130 ⁺	Squatter dwelling	3 squatter dwellings temporarily evacuated	
2008/06/0247	Barker Road to May Road near Chatham Path	Natural hillside	7/6	Natural hillside	50	Pedestrian pavement	-	
2008/06/0254	Lot No. DD100, Tsiu Keng Tsuen, Sheung Shui	Natural hillside	7/6 (18:00)	Natural hillside	100	Minor footpath	-	
2008/06/0261	Behind House Nos. 1A, 1B, 1C, 3 & 6, Nam Chung Village, Tai O, Lantau Island (Landslide NC7)	Natural hillside	8/6 (10:54)	Natural hillside	130 [§] [2 source areas: 35 & 95]	Village house	5 village houses temporarily evacuated	
2008/06/0262	Tai Long Wan Tsuen, Wang Pui Road, Shek Pik, Lantau Island	Natural hillside	8/6 (12:00)	Natural hillside	1500	Road	-	
2008/06/0296	Above Feature No. 11SW-A/C600, The University of Hong Kong	Natural hillside	7/6	Natural hillside	100	Road	1 of 2 lanes of University Drive temporarily closed	
2008/06/0298	Above feature No. 11NW-D/R87, Wah Yan College, Ho Man Tin	11NW-D/R87	7/6	Retaining wall	550 ⁺	Others (tennis court)	-	
2008/06/0304	Tieu Chu Ve-Tsin Chemical Ind. (HK) Ltd., Tsing Yi Road, Tsing Yi	10NE-B/C319	10/6	Soil/rock cut	200 ⁺	Access road	Access road blocked	
2008/06/0307	Below Block 1A, Wonderland Villas, Lai King	Natural hillside	7/6	Natural hillside	120	Nil (debris came to rest on hillside)	-	

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Table B1 - List of Major Landslide Incidents (Sheet 6 of 19)

		Feature		Failure		F 114		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0319	Ku Ngam Monastery, Che Kung Miu Road, Shatin	7SW-D/DT58	11/6	Registered disturbed terrain	500 ⁺	Temple	-	
2008/06/0323	Hei Ling Chau Addiction Treatment Centre	10SW-D/F17	7/6	Fill	150	Access road	-	
2008/06/0325	Hei Ling Chau Addiction Treatment Centre	10SW-D/F57	7/6	Fill	250	Building	-	
2008/06/0331	Between WSD Access Road and Clear Water Bay Road	11NE-C/FR132	11/6 (08:00)	Fill	50	Nil (debris came to rest on slope)	-	
2008/06/0342	Behind House No. 291, Ha Wong Yi Au, Tai Po	Natural hillside	7/6 (23:00)	Natural hillside	50	Squatter dwelling	Category 1 NDC recommendation of 1 squatter dwelling made to Lands Department	
2008/06/0344	Above Yu Tung Road (Catchment No. 30), Tung Chung, Lantau Island	Natural hillside	7/6 (9:00)	Natural hillside	2870 [§] [9 source areas: 30-2350]	Road	All 3 lanes of Yu Tung Road temporarily closed	
2008/06/0346	Above North Lantau Highway (Catchment No. 15), Tung Chung, Lantau Island	Natural hillside	7/6 (08:30)	Natural hillside	824 [§] [9 source areas: 3-310]	Road	All 5 lanes of North Lantau Highway temporarily closed	
2008/06/0363	20 Peak Road	11SW-D/R700	13/6	Retaining wall	50	Open area	-	

Table B1 - List of Major Landslide Incidents (Sheet 7 of 19)

		Feature		Failure		Fasilita		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0376A	Behind Kwan Tai Temple, Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	150 ⁺	Squatter dwelling	4 squatter dwellings temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department	
2008/06/0379	Behind San Kok Monastery, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	700 ⁺	Open area	-	
2008/06/0380A	Behind House No. 73, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	100 ⁺	Others (verge at slope toe)	A section of surface drainage channel along the verge damaged	
2008/06/0380B	Behind House No. 73, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	50 ⁺	Open area	-	
2008/06/0381	Behind Telephone Exchange and Microwave Station, Shek Tsai Po Street, Tai O, Lantau Island	9SW-C/C1	7/6 (07:00)	Soil cut	2000 ⁺	Abandoned structure	-	
2008/06/0382	Behind House No. 1B, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH9A)	Natural hillside	7/6 (07:00)	Natural hillside	1650 [§] [5 source areas: 200-600]	Village house	1 village house temporarily evacuated	
2008/06/0383	Above Feature No. 9SW-D/C199, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 1)	Natural hillside	7/6 (07:00)	Natural hillside	80+	Open area	-	

Table B1 - List of Major Landslide Incidents (Sheet 8 of 19)

		Feature		Failure		Fasilita		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
2008/06/0385	Behind House No. 7 and Tin Hau Temple, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 2)	Natural hillside	7/6 (07:00)	Natural hillside	300 [§] [5 source areas: 25-100]	Village house	1 village house and Tin Hau Temple temporarily evacuated	
2008/06/0386	Near House No. 32B, 35 On Lei West, Sam Ka Tsuen, Lei Yue Mun	Natural hillside	14/6	Natural hillside	200	Squatter dwelling	Category 1 NDC recommendation of 10 squatter dwellings made to Lands Department.	
2008/06/0388	Above Feature No. 9SW-D/C195 and behind House Nos. 13-16, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 4)	Natural hillside	7/6 (07:00)	Natural hillside	155 [§] [2 source areas: 75 & 80]	Village house	4 village houses temporarily evacuated	
2008/06/0389	Behind House No. 18, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 5)	Natural hillside	7/6 (07:00)	Natural hillside	160 ⁺	Open area	-	
2008/06/0396	Behind House No. 1, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH9)	Natural hillside	7/6 (07:00)	Natural hillside	1000 [§] [3 source areas: 100-750]	Village house	1 village house temporarily evacuated	
2008/06/0410	Between House Nos. 4 and 5, Tung Hang Mei Village, Mui Wo, Lantau Island	Natural hillside	7/6	Natural hillside	200	Minor footpath	-	
2008/06/0429	Behind Clear View Court, Discovery Bay, Lantau Island	Natural hillside	7/6	Natural hillside	400	Open area	-	
2008/06/0433	Sham Wat Road, Lantau Island	9SW-D/C50	9/6	Soil/rock cut	100	Road	Sham Wat Road temporarily closed	

Table B1 - List of Major Landslide Incidents (Sheet 9 of 19)

		Feature		Failure		Facility	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Affected	
2008/06/0435	Above Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island (Landslide SW4)	Natural hillside	9/6	Natural hillside	675 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0439	Sham Wat Road, Lantau Island (Landslide SW8)	Natural hillside	9/6	Natural hillside	300 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0440	Lower Sham Wat Road, Lantau Island (Landslide SW12A)	Natural hillside	9/6	Natural hillside	150*	Road	Sham Wat Road temporarily closed
2008/06/0441	Lower Sham Wat Road, Lantau Island (Landslide SW12)	Natural hillside	9/6	Natural hillside	100*	Road	Sham Wat Road temporarily closed
2008/06/0442	Above Keung Shan Road, Lantau Island	13NW-B/C221	9/6	Soil/rock cut	100	Road	1 of 2 lanes of Keung Shan Road temporarily closed
2008/06/0443	Yi O, Lantau Island	Natural hillside	9/6	Natural hillside	500	Others (water pipe)	Water pipes to Tai O broken
2008/06/0445	Behind House No. 100B, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	7/6 (07:00)	Natural hillside	120	Squatter dwelling	-
2008/06/0447	Tsz Hing Monastery, Lantau Island	13NW-B/C351	14/6 (17:45)	Soil/rock cut	400	Building	-
2008/06/0448	Hei Ling Chau Addiction Treatment Centre	Natural hillside	7/6	Natural hillside	80	Open area	Paved open area cracked
2008/06/0451	Mount Davis, above Block C, Kennedy Town Police Quarters, 12 Ka Wai Man Road	Natural hillside	7/6	Natural hillside	475 ⁺	Building (vacant)	-

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Table B1 - List of Major Landslide Incidents (Sheet 10 of 19)

		Feature		Failure		F 314	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/06/0471	Pa Mei, Tung Chung, Lantau Island	Natural hillside	7/6	Natural hillside	300 ⁺	Open area	-
2008/06/0472	Dei Po Village near Chek Lap Kok Village, Tung Chung, Lantau Island	Natural hillside	7/6	Natural hillside	100 [§] [2 source areas: 35 & 65]	Others (drainage culvert)	Drainage culvert blocked by landslide debris
2008/06/0473	Chek Lap Kok Village, Tung Chung, Lantau Island	Natural hillside	7/6	Natural hillside	105 [§] [2 source areas: 50 & 55]	Road	-
2008/06/0479	Behind House Nos. 19 and 20, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH10)	Natural hillside	7/6 (07:00)	Natural hillside	400 ⁺	Nil (Landslide debris deposited on the slope)	-
2008/06/0481	Above House Nos. 23, 24, 27 and 28, Nam Chung Tsuen, Tai O, Lantau Island (Landslide NC7A)	Natural hillside	7/6 (07:00)	Natural hillside	230 ⁺	Squatter dwelling and village house	5 squatter dwellings and two village houses temporarily evacuated
2008/06/0483	Above House No. 26, Leung Uk Tsuen, Tai O, Lantau Island (Landslide NC6)	Natural hillside	7/6 (07:00)	Natural hillside	320 [§] [3 source areas: 20-150]	Minor footpath	Minor footpath temporarily closed
2008/06/0489	Sam Ka Tsuen, Lei Yue Mun	Natural hillside	7/6	Natural hillside	100	Open area	-
2008/06/0494	Adjacent to Feature No. 13NW-B/C319, Keung Shan Road, Lantau Island (Landslide KS3B)	Natural hillside	7/6	Natural hillside	100	Road	-

Table B1 - List of Major Landslide Incidents (Sheet 11 of 19)

		Feature		Failure		F	
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0499	Adjacent to Kwun Yam Temple near Junction of Keung Shan Road and Tai O Road, Lantau Island (Landslide KS3)	Natural hillside	7/6	Natural hillside	2200 [§] [9 source areas: 30-725]	Road	All 2 lanes of Keung Shan Road temporarily closed
2008/06/0500	Above Feature No. 13NW-B/C54, Tai O Road, Lantau Island	Natural hillside	7/6	Natural hillside	200	Road	All 2 lanes of Tai O Road temporarily closed
2008/06/0501	Above Tai O Road, Lantau Island	Natural hillside	7/6	Natural hillside	300 ⁺	Road	1 of 2 lanes of Tai O Road temporarily closed
2008/06/0504	Below Feature No. 11SW-C/C793, Peel Rise	Natural hillside	17/6	Natural hillside	300	Access road	Peel Rise temporarily closed
2008/06/0508	To the Northwest of Pa Mei, Lantau Island	Natural hillside	17/6	Natural hillside	300 ⁺ (significant signs of distress)	Nil	-
2008/06/0511	Pa Mei Village, Tung Chung, Lantau Island	Natural hillside	18/6	Natural hillside	50	Others (verge at slope toe)	-
2008/06/0516	Above Kau Shat Wan Government Explosives Depot, Lantau Island	Natural hillside	7/6	Natural hillside	500	Nil (Landslide debris deposited on the slope)	-
2008/06/0525	Lung Fu Shan	Natural hillside	Unknown	Natural hillside	200	Open area	-

Table B1 - List of Major Landslide Incidents (Sheet 12 of 19)

		Feature		Failure		F '1'	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/06/0530	Lung Fu Shan near Harlech Road	Natural hillside	Unknown	Natural hillside	300	Others (verge at slope toe)	-
2008/06/0553	26 Sham Shek Tsuen, Sham Wat, Lantau Island	Natural hillside	7/6	Natural hillside	100	Squatter dwelling	-
2008/06/0555	Above Feature No. 9SW-D/C48, Sham Wat Road, Lantau Island (Landslide SW8A)	Natural hillside	9/6	Natural hillside	400 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0558	Above Lantau Island Trial, Lantau Island	Natural hillside	Unknown	Natural hillside	140	Minor footpath	-
2008/06/0597	Wai Fung Yuen, Tung Chung, Lantau Island	Non-registrable feature ⁽¹⁾ (seawall)	7/6	Retaining wall	150	Pedestrian pavement	-
2008/06/0608	Tai Tam Road near Tai Tam Tuk Reservoir	15NE-A/C197	26/6	Soil cut	50	Road	1 of 2 lanes of Tai Tam Road temporarily closed
2008/06/0610	Sheung Pak Nai Tsuen, Nim Wan Road	5NE-B/C73	26/6	Soil cut	90 ⁺	Minor footpath	-
2008/07/0650	Above Keung Shan North Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	205 [§] [3 source areas: 5-120]	Access road and catchwater	-
2008/07/0651	Shek Mun Kap, Lantau Island	Natural hillside	Unknown	Natural hillside	55 [§] [2 source areas: 20 & 35]	Access road and others (waterworks)	-

Table B1 - List of Major Landslide Incidents (Sheet 13 of 19)

		Feature		Failure		Eggility	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/07/0654	Above Tai Long Wan Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	1005 [§] [4 source areas: 75-455]	Access road and catchwater	Access road temporarily closed and catchwater blocked by landslide debris
2008/07/0656	Above Feature No. 13NW-D/C54, Tai Long Wan Catchwater, Lantau Island	Natural hillside	16/6	Natural hillside	100	Access road	-
2008/07/0657	Above Feature No. 13NW-D/CR26, Tai Long Wan Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	60	Catchwater	Catchwater blocked by landslide debris
2008/07/0658A	Above Sham Wat West Catchwater, Lantau Island	9SW-D/CR116	Unknown	Soil cut	150 ⁺	Access road and catchwater	Catchwater blocked by landslide debris
2008/07/0660	Adjacent to Feature No. 9SW-D/C131, Sham Wat East Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	236 [§] [2 source areas: 36 & 200]	Access road	Access road temporarily closed and a section of the access road undermined
2008/07/0662	Near Portal A, Keung Shan South Catchwater, Lantau Island	13NW-B/C367	Unknown	Soil cut	90	Access road	-
2008/07/0663	Above Feature No. 13NW-B/R22, Keung Shan South Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	200	Access road and catchwater	Catchwater blocked by landslide debris
2008/07/0666	Cha Kwo Ling	11SE-B/C64	7/6	Soil/rock cut	100	Nil (debris came to rest on slope)	-

Table B1 - List of Major Landslide Incidents (Sheet 14 of 19)

		Feature		Failure		F 314	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/07/0668B	Wai Shiu Yuen, Luk Wu Tsuen, Lantau Island	Natural hillside	Unknown	Natural hillside	50 ⁺	Nil (Landslide debris deposited on the slope)	-
2008/07/0669	Near Chek Lap Kok Village, Lantau Island	Natural hillside	7/6	Natural hillside	100 [§] [2 source areas: 30 & 70]	Minor footpath	-
2008/07/0705	Near Red Hill Plaza, Tai Tam Road	15NE-A/C192	12/7 (08:00)	Soil/rock cut	75	Road	All 2 lanes of Tai Tam Road temporarily closed
2008/07/0709	Sir Cecil's Ride	11SE-C/C390	12/7 (14:00)	Soil cut	100	Access road	Sir Cecil's Ride temporarily closed
2008/07/0747	Adjoining feature No. 11NE-B/C799, Clear Water Bay Road, Sai Kung	Natural hillside	15/7	Natural hillside	50	Open area	-
2008/07/0752	Above Keung Shan Road, Lantau Island	Natural hillside	Unknown	Natural hillside	50	Road	-
2008/08/0783	Behind 5 Fei Ngo Shan Road, Fei Ngo Shan	Natural hillside	9/7	Natural hillside	200	Nil (debris came to rest on hillside)	-
2008/09/0807	Access Road to Ling Yan Temple near Lamp Post No. VA2694, Tai O, Lantau Island	Natural hillside	Unknown	Natural hillside	50	Access road	-
2008/10/0820	Access Road to Man Cheung Po, Lantau Island	13NW-B/C293	Unknown	Soil cut	50	Minor footpath	-

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Table B1 - List of Major Landslide Incidents (Sheet 15 of 19)

		Feature		Failure		Essilita.	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/11/0828	Below Feature No. 11SE-C/CR691, Tai Tam West	Natural hillside	Unknown	Natural hillside	300	Others (verge at slope toe)	-
2008/12/0837	To the Southwest of Feature No. 11SW-D/R97 near Junction of Guildford Road and Peak Road	Natural hillside	Unknown	Natural hillside	300	Others (verge at slope toe)	A section of suface drainage channel along the verge damaged
2009/01/0838	Behind House 106D, Shek Tsai Po St, Tai O (above slope No. 9SW-C/CR29), Lantau	Natural hillside	Unknown	Natural hillside	800 ⁺	Nil (Landslide debris deposited on the hillside)	-
2009/01/0841	Shek Pik Catchwater Raod, Shek Pik, Lantau	Natural hillside	Unknown	Natural hillside	80	Minor footpath	-
2009/01/0842	Shek Pik Catchwater Road, Shek Pik, Lantau	Natural hillside	Unknown	Natural hillside	75	Minor footpath	-
2009/01/0843	Natural slope above feature no. 9SW-C/C16, Lantau	Natural hillside	Unknown	Natural hillside	60	Minor footpath	-
2009/02/0848	South Lantau Road, Cheung Sha, Lantau	13NE-B/F89	Unknown	Fill	80	Others (beach)	-
2009/08/0900	Shek Pik Catchwater Raod, Shek Pik, Lantau	13NE-A/C122	Unknown	Soil cut	60	Others (country park)	-
2009/08/0901	Shek Pik Catchwater Road, Shek Pik, Lantau	13NE-A/C137	Unknown	Soil/rock cut	70	Others (country park)	-

Table B1 - List of Major Landslide Incidents (Sheet 16 of 19)

		Feature		Failure		E 114	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2009/08/0901	Shek Pik Catchwater Road, Shek Pik, Lantau	13NE-A/C137	Unknown	Soil/rock cut	70	Others (country park)	-
AFCD/ 2008/06/0031	Fa Sum Hang, Ma On Shan Country Park	Natural hillside	17/6	Natural hillside	500	Minor footpath	-
AFCD/ 2008/06/0032	Pak Shek Nga Pui, Ma On Shan Country Park	Natural hillside	17/6	Natural hillside	70^{+}	Minor footpath	-
AFCD/ 2008/06/0037	Pak Kung Au, Lantau South Country Park, Lantau Island	Natural hillside	7/6	Natural hillside	100	Others (barbecue site)	Barbecue site temporarily closed
AFCD/L/ 2008/06/0001	Near Sze Tsz Tau Shan, Lantau Island	Natural hillside	7/6	Natural hillside	70	Minor footpath	-
AFCD/L/ 2008/06/0005	Near Man Cheung Po, Lantau Island	Natural hillside	7/6	Natural hillside	200	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0006	Near Tai Long Wan Tsuen, Lantau Island	Natural hillside	7/6	Natural hillside	50	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0010	Near Nga Ying Shan, Lantau Island	Natural hillside	7/6	Natural hillside	120	Minor footpath	-
AFCD/L/ 2008/06/0016	Lantau South Country Park, Lantau Island	Natural hillside	7/6	Natural hillside	260	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0020	Shek Pik Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	110	Minor footpath	-
AFCD/L/ 2008/06/0025	Shek Pik Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	100	Minor footpath	-
AFCD/L/ 2008/06/0029	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	180	Minor footpath	Minor footpath temporarily closed

Table B1 - List of Major Landslide Incidents (Sheet 17 of 19)

		Feature		Failure		F114	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
AFCD/L/ 2008/06/0030	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	250	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0031	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	1000+	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0033	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	7/6	Natural hillside	800	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0034	Near Shui Lo Cho, Lantau Island	Natural hillside	7/6	Natural hillside	750	Minor footpath	Minor footpath temporarily closed
LI/ 2008/06/2003	Above North Lantau Highway (Catchment No. 16), Lantau Island	Natural hillside	7/6	Natural hillside	419 [§] [6 source areas: 54-94]	Road	All 5 lanes of North Lantau Highway temporarily closed
LI/ 2008/06/2004	Above North Lantau Highway (Catchment No. 17), Lantau Island	Natural hillside	7/6	Natural hillside	313 [§] [5 source areas: 19-161]	Road	All 5 lanes of North Lantau Highway temporarily closed
LI/ 2008/06/2005	Above Yu Tung Road (Catchment No. 24), Lantau Island	Natural hillside	7/6	Natural hillside	154 [§] [2 source areas: 60 & 94]	Road	1 of 3 lanes of Yu Tung Road temporarily closed
LI/ 2008/06/2010	Sham Wat Road, Lantau Island	9SW-D/C49	Unknown	Soil/rock cut	150 ⁺	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2011	Near Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	Unknown	Natural hillside	200 ⁺	Nil (Landslide debris deposited on the slope)	-

Table B1 - List of Major Landslide Incidents (Sheet 18 of 19)

		Feature		Failure		Facilita	Consequence
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
LI/ 2008/06/2012	Above Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	Unknown	Natural hillside	200 ⁺	Nil (Landslide debris deposited on the slope)	-
LI/ 2008/06/2013	Above Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island (Landslide SW5)	Natural hillside	Unknown	Natural hillside	190 ⁺	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2014	Above Keung Shan Road, Lantau Island (Landslide KS3A)	Natural hillside	Unknown	Natural hillside	750 [§] [4 source areas: 100-400]	Road	-
LI/ 2008/06/2015	Above Keung Shan Road, Lantau Island (Landslide KS3B)	Natural hillside	Unknown	Natural hillside	700 [§] [11 source areas: 40-150]	Road	-
LI/ 2008/06/2016	Above Yu Tung Road (Catchment No. 25), Lantau Island	Natural hillside	7/6	Natural hillside	135 [§] [2 source areas: 60 & 75]	Road	1 of 3 lanes of Yu Tung Road temporarily closed
LI/ 2008/06/2017	Keung Shan Road near Tai O Road, Lantau Island	Natural hillside	7/6	Natural hillside	50 ⁺	Others (maintenance access)	Landslide debris damaged the handrail of a maintenance access at slope crest
LI/ 2009/12/2001	Natural hillside above feature No. 11NE-A/ND8 at Jordan Valley	Natural hillside	Unknown	Natural hillside	110+	Others (Boulder Fence)	-

Table B1 - List of Major Landslide Incidents (Sheet 19 of 19)

		Feature		Failure		F		
Incident No.	Location	Registration No.	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence	
WSD/ 2008/6/42/HKI	Adjoining WSD Waterworks Access Road, Lantau Island	Natural hillside	18/6	Natural hillside	90	Construction site	-	
WSD/ 2008/6/49/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	Natural hillside	19/6	Natural hillside	110	Access road	Access road temporarily closed	
WSD/ 2008/6/84/HKI	Adjacent to Portal A of WSD Catchwater near Feature No. 13NW-B/C387, Lantau Island	Natural hillside	20/6	Natural hillside	90	Access road	Access road temporarily closed	
WSD/ 2008/7/7/HKI	Below 38 Aberdeen Reservoir Road	Natural hillside	Unknown	Natural hillside	60	Access road	-	
WSD/ 2008/8/3/HKI	Adjoining Catchwater, Lantau Island	Natural hillside	Unknown	Natural hillside	100	Catchwater	Catchwater blocked by landslide debris	
WSD/ 2009/7/2/HKI	Sham Wat Catchwater, Lantau	Natural hillside	Unknown	Natural hillside	80	Catchwater	-	
WSD/ 2009/7/3/HKI	Sham Wat Catchwater, Lantau	Natural hillside	Unknown	Natural hillside	70	Open area	-	

Legend:

- 1120 [7 source areas: 80-300]: The incident had a total failure volume of 1,120 m³, comprising 7 landslide source areas, each with a failure volume ranging from 80 m³ 300 m³.

 Failure volume estimated by GEO's landslide investigation consultants.

 The structure/feature is classified as non-registrable in accordance with GEO Circular No. 15 (GEO, 2004b).
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Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 1 of 18)

		Feature	Repo	orted		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/03/0079	43 Repulse Bay Road	Natural hillside	3/3	DLO	25/2 (13:30)	Natural hillside	0.03 (Boulder fall)	Others (verge at slope toe)	Affected area temporarily fenced off
2008/04/0082	68 Kennedy Road	11SW-B/CR450	18/4	Public	18/4	Rock cut	< 1	Pedestrian pavement	-
2008/05/0119	Near Lamp Post No. 40056, Seaview Promenade	Natural hillside	2/5	ICC	2/5 (00:00)	Natural hillside	3 (Boulder fall)	Open area	Affected area temporarily fenced off
2008/05/0121	Near Lei Tung Estate Bus Terminus, Ap Lei Chau	15NW-B/C92	21/5	HyD	21/5 (08:00)	Soil/rock cut	0.5 (Rockfall)	Minor footpath	Minor footpath temporarily closed
2008/05/0122	Kennedy Town Police Quarters, 12 Ka Wai Man Road	11SW-A/C256	26/5	Police	26/5	Soil cut	10	Building (vacant), minor footpath and open area	Minor footpath temporarily closed and affected area temporarily fenced off
2008/06/0124#	Black's Link	11SW-D/C1113	4/6	ICC	3/6 (19:00)	Soil/rock cut	0.1 (Rockfall)	Access road	-
2008/06/0128	St. Stephen College, Stanley	15NE-C/C368	6/6	Public	6/6 (23:00)	Soil cut	< 1	Access road	-
2008/06/0130	28-45 Repulse Bay Road	15NE-A/C23	7/6	HyD	7/6 (07:45)	Soil/rock cut	15	Road	All 2 lanes of Repulse Bay Road temporarily closed
2008/06/0131	Above San Francisco Towers, Happy Valley	Unregistered at the time of failure	7/6	Police	7/6 (06:49)	Fill	75 ⁺	Building	Flooding of basement carpark in San Francisco Towers

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Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 2 of 18)

		F	Repo	orted		Failure		F:114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0144	Pak Fuk Road near Tin Hau Temple Road	11SE-A/C502	7/6	HyD	7/6 (09:40)	Soil/rock cut	1270 ⁺	Road	All 2 lanes of Pak Fuk Road temporarily closed
2008/06/0147	33 Shouson Hill Road	11SW-D/CR141	7/6	Police	7/6 (10:43)	Soil/rock cut	< 1	Open area	-
2008/06/0151	Junction of Cooper Road and Creasy Road	11SE-C/C86	7/6	Police	Unknown	Soil cut	50	Road	All 2 lanes of Cooper Road temporarily closed
2008/06/0156	Rockwin Court, Fung Fai Terrace, Below Stubbs Road	Natural hillside	7/6	Police	7/6	Natural hillside	500 ⁺	Building	9 flats of Rockwin Court temporarily evacuated
2008/06/0157	21 Magazine Gap Road	11SW-D/C298	7/6	Police	7/6 (10:00)	Soil cut	20	Road	1 of 2 lanes of Magazine Gap Road temporarily closed
2008/06/0158	Above Feature No. 11SE-C/CR44, 77 Blue Pool Road, Happy Valley	Natural hillside	7/6	HyD	7/6 (11:38)	Natural hillside	25	Building	-
2008/06/0165	Above Feature No. 11SW-A/C144, Pok Fu Lam Road	Natural hillside	7/6	Public	7/6 (10:00)	Natural hillside	50	Nil (Landslide debris deposited on the slope)	-

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Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 3 of 18)

		Feature	Repo	orted		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0167	Near RSPCA, 698 Victoria Road	11SW-C/F220	7/6	WSD	6/6 (19:32)	Fill	480	Access road, minor footpath and others (kennel)	Access road temporarily closed. A section of footpath and kennel temporarily fenced off
2008/06/0173	Near HK Electric Transformer Station, 700 Victoria Road	11SW-C/F210	7/6	HyD	6/6	Fill	150	Building	Footing of building affected
2008/06/0177	Junction of Victoria Road and Mount Davis Road	Natural hillside	7/6	HyD	7/6	Natural hillside	< 1	Access road	-
2008/06/0180	Near Block 4F, HKU Senior Staff Quarters, 25 Sha Wan Drive, Sandy Bay	11SW-C/F160	7/6	FSD	7/6	Fill	100	Building	-
2008/06/0182	Ewan Court, 54-56 Kennedy Road	Natural hillside	7/6	НуD	7/6	Natural hillside	200 ⁺	Building	A security booth and a section of concrete parapet wall at the rear of Ewan Court damaged
2008/06/0183	Mount Davis above Blocks A and B of Kennedy Town Police Quarters, 12 Ka Wai Man Road	Natural hillside	7/6	Arch SD	7/6	Natural hillside	435 [§] [2 source areas: 180 & 255]	Building (vacant)	-
2008/06/0190	992 King's Road	11SE-A/C174	7/6	Police	7/6 (15:06)	Soil cut	20	Open area	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 4 of 18)

		Frateur	Repo	orted		Failure		F110	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0193	Behind Chow Yei Ching Building, The University of Hong Kong	Natural hillside	7/6	НуД	7/6	Natural hillside	1960 [§] [2 source areas: 210 & 1750]	Building	3 floors of Chow Yei Ching Building temporarily evacuated
2008/06/0198	Block 20, Baguio Villa, 555 Victoria Road	Natural hillside	7/6	Public	7/6 (16:43)	Natural hillside	15	Others (carpark)	Affected parking lots temporarily fenced off
2008/06/0202	Black's Link near Coombe Road	11SW-D/CR1104	7/6	Public	7/6 (17:31)	Soil cut	60	Access road	-
2008/06/0206	28G Country Villa, Shouson Hill Road, Aberdeen	15NW-B/FR61	7/6	HyD	7/6 (14:00)	Fill	6	Road	All 2 lanes of Shouson Hill Road temporarily closed
2008/06/0220	Behind Bamboo Grove, Wan Chai Gap Road	Natural hillside	7/6	Public	7/6	Natural hillside	< 1	Access road	-
2008/06/0231	Above Mount Davis Path and near Access Road to YMCA Hostel	Natural hillside	7/6	HyD	7/6	Natural hillside	200 ⁺	Access road	Mount Davis Path temporarily closed
2008/06/0240	Below 12B Bowen Road	Natural hillside	7/6	Police	7/6	Natural hillside	20	Road	Bowen Road temporarily closed
2008/06/0241	Near 12B Bowen Road	Natural hillside	7/6	Police	7/6	Natural hillside	10	Others (depot area)	-
2008/06/0247	Barker Road to May Road near Chatham Path	Natural hillside	7/6	ICC	7/6	Natural hillside	50	Pedestrian pavement	-
2008/06/0263	Near Lamp Post No. 16677, 1-27 Lugard Road	11SW-C/C943	8/6	Police	8/6 (12:50)	Soil/rock cut	6	Access road	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 5 of 18)

		Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0266	68A Pok Fu Lam Tsuen	2.7 m high soil cut slope ⁽¹⁾	8/6	BD	8/6 (13:06)	Soil cut	< 1	Squatter dwelling	-
2008/06/0267	Below Feature No. 11SW-D/FR157, 1 May Road near Chatham Path	Natural hillside	8/6	HyD	8/6	Natural hillside	1	Access road	-
2008/06/0270	Below Tunnel Portal, Braemar Hill Road, North Point	Natural hillside	8/6	Public	7/6 (10:00)	Natural hillside	15	Open area	-
2008/06/0274	WSD Staff Quarters, near 56 Pok Fu Lam Reservoir Road	11SW-C/C944	8/6	ICC	8/6	Soil cut	1	Others (verge at slope toe)	-
2008/06/0278	26-27 Lugard Road, The Peak	Natural hillside	8/6	Public	7/6	Natural hillside	< 1	Access road	-
2008/06/0279	1 Chatham Path, The Peak	11SW-D/C837	8/6	Public	7/6	Soil cut	20	Access road	-
2008/06/0281	Near Feature No. 11SW-D/C1671, 60 Peak Road	Natural hillside	8/6	Public	7/6	Natural hillside	6	Road	-
2008/06/0285	Opposite Lamp Post No. 3721, 3 Severn Road, The Peak	11SW-D/CR508	8/6	Public	Unknown	Soil cut	1+	Road	-
2008/06/0287	Near 44 Kennedy Road	Natural hillside	8/6	Police	8/6	Natural hillside	3	Nil (Landslide debris deposited on the slope)	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 6 of 18)

		Feature	Repo	orted		Failure		Essilit.	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0294	17 Mount Cameron Road	11SW-D/C726	9/6	HyD	7/6 (07:00)	Soil cut	1.3	Road	-
2008/06/0296	Above Feature No. 11SW-A/C600, The University of Hong Kong	Natural hillside	7/6	Public	7/6	Natural hillside	100	Road	1 of 2 lanes of University Drive temporarily closed
2008/06/0300#	To the West of 12B Bowen Road	11SW-B/CR211	10/6	HyD	7/6	Soil cut	1	Access road	-
2008/06/0301	Near Lamp Post No. 26740, Bowen Road	11SW-D/C1352	10/6	HyD	10/6	Soil/rock cut	5	Road	Bowen Road temporarily closed
2008/06/0302	Near Lamp Post No. 40303, Bowen Road	Natural hillside	10/6	HyD	8/6	Natural hillside	3	Road	Bowen Road temporarily closed
2008/06/0310	Above 41A-F Shouson Hill Road	Natural hillside	10/6	Public	7/6 (08:00)	Natural hillside	30	Others (streamcourse)	-
2008/06/0313	9 Magazine Gap Road	11SW-D/C1564	9/6	Public	9/6	Soil cut	6	Access road	-
2008/06/0317	To the West of 12B Bowen Road	Natural hillside	10/6	HyD	7/6	Natural hillside	1	Access road	-
2008/06/0326	11 Magazine Gap Road	Natural hillside	11/6	Police	7/6 (23:45)	Natural hillside	20	Access road	-
2008/06/0328	Near Feature No. 11SW-D/C1912, Aberdeen Reservoir Road	Natural hillside	10/6	ICC	7/6 (07:00)	Natural hillside	30	Access road	Access road temporarily closed
2008/06/0329	Near Feature No. 11SW-D/C1066, Aberdeen Reservoir Road	Natural hillside	10/6	ICC	7/6 (07:00)	Natural hillside	20	Access road	Access road temporarily closed

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 7 of 18)

		Feature	Repo	orted		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0332	Within Grantham Hospital, Wong Chuk Hang	11SW-D/C100	11/6	Public	7/6 (13:00)	Soil/rock cut	20	Open area	-
2008/06/0333	47 Shouson Hill Road	11SW-D/C849	10/6	HyD	7/6 (09:00)	Soil cut	2	Road	-
2008/06/0338	Peak Road	11SW-D/C695	10/6	HyD	8/6	Soil/rock cut	< 1	Road	-
2008/06/0340	Hut No. 131B, Pokfulam Village, Pok Fu Lam	2.8 m high retaining wall ⁽¹⁾	10/6	DO	7/6 (23:45)	Retaining wall	1	Squatter dwelling	-
2008/06/0343	Above North Point Methodist Primary School, 19 Cheung Hong Street	11SE-A/CR279	10/6	Public	7/6 (10:00)	Soil cut	1	Open area	-
2008/06/0345	Hong Kong Stadium	11SW-D/DT17	12/6	Arch SD	7/6 (10:30)	Registered disturbed terrain	25 (Rockfall)	Access road	Acess road temporarily closed
2008/06/0349	Hatton Road	11SW-A/C691	12/6	HyD	7/6	Soil/rock cut	13	Access road	-
2008/06/0353	To the Northeast of Block 1, Cavendish Heights, Moorsom Road	11SE-C/C454	10/6	GEO	Unknown	Soil cut	3	Open area	-
2008/06/0357	Near Grandview Garden, 8 Nam Long Shan Road	<5 m high fill slope ⁽¹⁾	7/6	Public	7/6 (10:50)	Fill	5	Access road	-
2008/06/0359	23 Mount Davis Road	Natural hillside	7/6	Public	7/6 (23:45)	Natural hillside	12	Open area	-
2008/06/0363	20 Peak Road	11SW-D/R700	13/6	Lands D	13/6	Retaining wall	50	Open area	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 8 of 18)

		Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0364	Braemar Hill Mansions, North Point	2.5 m high fill slope ⁽¹⁾	13/6	Public	7/6	Fill	1.5	Others (carpark)	-
2008/06/0373	To the East of 9A Kennedy Road	11SW-B/C201	14/6	Police	14/6 (03:30)	Soil/rock cut	10	Road	1 of 2 lanes of Kennedy Road temporarily closed
2008/06/0412	8 Wong Nai Chung Road, Wanchai	11SW-D/CR1576	14/6	Public	14/6 (00:00)	Soil cut	5	Open area	-
2008/06/0416	Behind Hut No. 54L Pokfulam Village, Pok Fu Lam	2.5 m high retaining wall ⁽¹⁾	14/6	Public	8/6 (12:00)	Retaining wall	3	Access road	-
2008/06/0428	Mount Austin Road, The Peak	11SW-A/C215	14/6	ICC	14/6 (17:15)	Soil/rock cut	0.5 (Rockfall)	Others (verge at slope toe)	-
2008/06/0450	Hong Kong Museum of Coastal Defence	11SE-B/C594	11/6	Arch SD	7/6	Soil/rock cut	20	Open area	-
2008/06/0451	Mount Davis, above Block C, Kennedy Town Police Quarters, 12 Ka Wai Man Road	Natural hillside	10/6	LIC	7/6	Natural hillside	475 ⁺	Building (vacant)	-
2008/06/0457	To the Northwest of Lamp Post No. T16729, Lugard Road	Natural hillside	13/6	Public	12/6	Natural hillside	1	Others (verge at slope toe)	-
2008/06/0468	Mount Nicholson Road	11SW-D/C334	13/6	HyD	7/6 (07:00)	Soil/rock cut	3	Access road	-
2008/06/0469	Tai Tam Reservoir Road	Natural hillside	11/6	WSD	7/6 (07:00)	Natural hillside	30	Access road	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 9 of 18)

		Feature	Repo	orted		Failure		Eggility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0484	33 Saisson Road	< 5 m high fill slope ⁽¹⁾	13/6	Public	7/6	Fill	7.5	Open area	-
2008/06/0504	Below Feature No. 11SW-C/C793, Peel Rise	Natural hillside	17/6	HyD	17/6	Natural hillside	300	Access road	Peel Rise temporarily closed
2008/06/0514	Between 50 and 52 Sassoon Road	11SW-C/CR936	18/6	Public	Unknown	Soil cut	5	Building	-
2008/06/0525	Lung Fu Shan	Natural hillside	17/6	AFCD	Unknown	Natural hillside	200	Open area	-
2008/06/0527	Jardine's Lookout, 8 Cooper Road	11SE-C/C180	19/6	Public	7/6 (06:00)	Soil cut	40	Building	-
2008/06/0529	Aberdeen Fitness Trail near Aberdeen Reservoir	Natural hillside	17/6	AFCD	15/6 (23:00)	Natural hillside	15	Access road	-
2008/06/0530	Lung Fu Shan near Harlech Road	Natural hillside	17/6	AFCD	Unknown	Natural hillside	300	Others (verge at slope toe)	-
2008/06/0533	Black's Link	11SW-D/C1103	16/6	HyD	14/6 (00:00)	Soil cut	3	Access road	Access road temporarily closed
2008/06/0559#	Mount Butler Quarry Explosion Unit	11SE-C/C643	19/6	Arch SD	8/6 (10:00)	Soil cut	< 1	Access road	-
2008/06/0560	Mount Butler Quarry Explosion Unit	11SE-C/C641	19/6	Arch SD	8/6 (10:00)	Soil/rock cut	20	Access road	-
2008/06/0561	Mount Butler Quarry Explosion Unit	Natural hillside	19/6	Arch SD	8/6 (10:00)	Natural hillside	10	Open area	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 10 of 18)

		Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0562	19 & 21 Mount Davis Road	Natural hillside	20/6	Public	7/6	Natural hillside	1	Others (verge at slope toe)	-
2008/06/0567	Turtle Cove Beach, Tai Tam	Unregistered at the time of failure	18/6	LCSD	18/6	Retaining wall	25	Others (verge at slope toe)	A section of suface drainage channel along the verge damaged
2008/06/0569	Garden Mansion, Jardine's Lookout, 148-150 Tai Hang Road	11SE-C/CR462	21/6	Police	Unknown	Soil cut	4	Building	-
2008/06/0574	99 Repulse Bay Road near Island Road Roundabout	15NE-A/CR44	25/6	Public	24/6	Soil/rock cut	< 1	Road	-
2008/06/0585	Mount Davis Path	2.7 m high rock cut slope ⁽¹⁾	25/6	GEO	25/6 (14:00)	Rock cut	0.03 (Rockfall)	Access road	-
2008/06/0589	Junction of Wai Fung Street and Sun Shi Street, Ap Lei Chau	Unregistered at the time of failure	20/6	DO	20/6	Rock cut	0.5 (Rockfall)	Pedestrian pavement	-
2008/06/0591	Hong Kong Cemetery, Happy Valley	11SW-D/C19	24/6	Arch SD	10/6	Soil cut	8	Open area	-
2008/06/0592#	Hong Kong Cemetery, Happy Valley	11SW-D/C1497	24/6	Arch SD	10/6	Soil/rock cut	4	Open area	-
2008/06/0593	Hong Kong Cemetery, Happy Valley	11SW-D/C1496	24/6	Arch SD	10/6	Soil/rock cut	1	Open area	-
2008/06/0595	Hong Kong Cemetery, Happy Valley	11SW-D/C1470	24/6	Arch SD	10/6	Soil cut	2	Open area	-

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Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 11 of 18)

		Fasting	Repo	orted		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0602	Near Feature No. 15NE-A/C202, Tai Tam Scout Centre	Natural hillside	20/6	BD	Unknown	Natural hillside	< 1	Open area	-
2008/06/0603	Battery Path, Central	11SW-B/CR13	24/6	HyD	7/6	Soil cut	1	Pedestrian pavement	-
2008/06/0604	Smithfield	11SW-A/FR1	25/6	HyD	7/6 (10:15)	Fill	25	Open area	-
2008/06/0605	Opposite 34 Island Road	15NW-B/CR325	26/6	Police	26/6	Soil/rock cut	0.1 (Rockfall)	Access road	Access road temporarily closed
2008/06/0606	Mount Davis Path	11SW-A/C421	25/6	Lands D	25/6 (12:15)	Soil/rock cut	1.5	Access road	-
2008/06/0608	Tai Tam Road near Tai Tam Tuk Reservoir	15NE-A/C197	26/6	Police	26/6	Soil cut	50	Road	1 of 2 lanes of Tai Tam Road temporarily closed
2008/06/0616	Shek O Road near Lan Lai Wan Tsuen	15NE-B/C25	27/6	HyD	27/6	Soil/rock cut	6	Road	1 of 2 lanes of Shek O Road temporarily closed
2008/06/0618	Victoria Road	11SW-C/F378	26/6	HyD	Unknown	Fill	20	Pedestrian pavement	-
2008/06/0620	Mount Nicholson Road	11SW-D/C333	27/6	Police	27/6 (00:00)	Soil/rock cut	0.5 (Rockfall)	Access road	Access road temporarily closed
2008/06/0624	Near Access Road to 105 Robinson Road	11SW-A/CR1198	27/6	ICC	27/6	Soil cut	< 1	Road	-
2008/06/0627	Behind German Swiss International School, 22 Guildford Road, The Peak	Natural hillside	23/6	AFCD	7/6 (12:00)	Natural hillside	8	Access road	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 12 of 18)

		Б	Rep	orted		Failure		F 314	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0635	Adjacent to Tai Ming House and Taikoo Primary School, Quarry Bay	11SE-A/C190	27/6	District Council Member	26/6 (14:00)	Rock cut	1.5 (Rockfall)	Open area	-
2008/07/0646#	Near Feature No. 15NE-A/F188, above Turtle Cove Beach and below Le Palais, Tai Tam	Natural hillside	28/6	LCSD	Unknown	Natural hillside	2	Open area	-
2008/07/0670#	Leaping Dragon Walk near Cape Collinson Road	11SE-D/C547	3/7	DO	30/6	Soil cut	3	Access road	-
2008/07/0677	Financial Secretary's Residence, 45 Shouson Hill Road	11SW-D/C870	7/7	Arch SD	3/7 (12:00)	Soil cut	< 1	Nil (Landslide debris deposited on the slope)	-
2008/07/0681#	Sai Wan Fort Morning Trail, Lei Yue Mun Park	11SE-D/C715	18/6	DLO	31/5 (11:00)	Soil/rock cut	4	Access road	-
2008/07/0698	Above Feature No. 11SW-D/FR164, 21 Magazine Gap Road	Natural hillside	11/7	DLO	7/6	Natural hillside	10	Open area	-
2008/07/0705	Near Red Hill Plaza, Tai Tam Road	15NE-A/C192	12/7	FSD	12/7 (08:00)	Soil/rock cut	75	Road	All 2 lanes of Tai Tam Road temporarily closed
2008/07/0709	Sir Cecil's Ride	11SE-C/C390	12/7	Police	12/7 (14:00)	Soil cut	100	Access road	Sir Cecil's Ride temporarily closed
2008/07/0710	Sir Cecil's Ride	11SE-C/C544	14/7	AFCD	7/6	Soil cut	5	Access road	-
2008/07/0711	Sir Cecil's Ride	11SE-C/C390	14/7	AFCD	7/6	Soil cut	2	Access road	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 13 of 18)

		Eastura	Rep	orted		Failure		Eggility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0715#	Near 4 Repulse Bay Road	Natural hillside	8/7	GEO	8/6 (00:00)	Natural hillside	5	Nil (Landslide debris deposited on the slope)	-
2008/07/0731	2 Welfare Road	11SW-D/F73	12/7	BD	12/7 (09:00)	Fill	< 1	Open area	-
2008/07/0735	Above Feature No. 11SW-B/C123, Hong Kong Park	Natural hillside	14/7	Arch SD	26/6 (08:30)	Natural hillside	20	Others (verge at slope toe)	-
2008/07/0759	Behind Shing Dao Industrial Building, 232 Aberdeen Main Road	11SW-D/C39	24/7	Public	12/7 (13:00)	Soil/rock cut	15	Building	-
2008/07/0760	Near Chung Hom Kok Beach Children's Playground	Unregistered at the time of failure	18/7	LCSD	Unknown	Soil cut	8	Access road	-
2008/07/0762	Yip Kan Street	11SW-D/FR599	22/7	Public	8/7	Fill	0.7 (Rockfall)	Access road	-
2008/07/0763#	Aberdeen Marina Club, Welfare Road	15NW-B/F14	9/7	DLO	7/7	Fill	2.5	Construction site	-
2008/07/0764	11-39 Blue Pool Road	11SW-D/C179	24/7	BD	Unknown	Soil/rock cut	2	Open area	-
2008/08/0773	Above Feature No. 11SE-C/C60, Tai Hang Road	Natural hillside	27/6	GEO	25/6	Natural hillside	0.05 (Boulder fall)	Road	A section of handrail at the crest of feature No. 11SE-C/C60 damaged

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 14 of 18)

		Feature	Rep	orted		Failure		Fasilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/08/0778	Above Feature No. 11SW-D/C373 near Lamp Post No. 15207, 12 Wong Nai Chung Gap Road	Natural hillside	6/8	Police	6/8	Natural hillside	1 (Boulder fall)	Access road	-
2008/08/0787	Near Lamp Post No. 15207, 12 Wong Nai Chung Gap Road	Natural hillside	8/8	LIC	8/8 (16:30)	Natural hillside	2 (Boulder fall)	Road	-
2008/09/0806	19 Moorsom Road, Happy Valley	11SE-C/F172	9/9	Police	9/9	Fill	8	Access road	-
2008/09/0810	To the South of 4 Island Road	Natural hillside	3/9	HyD	3/9	Natural hillside	20	Open area and access road	-
2008/09/0814	Opposite to Feature No. 11SE-D/C523 and adjoining WSD's Catchwater above Chinese Permanent Cemetery	Unregistered at the time of failure	22/9 (9:12)	Public	21/9 (12:47)	Soil/rock cut	12	Catchwater	-
2008/11/0828	Below Feature No. 11SE-C/CR691, Tai Tam West	Natural hillside	21/10	WSD	Unknown	Natural hillside	300	Others (verge at slope toe)	-
2008/12/0834	21 South Bay Road	15NE-A/R186	8/12	Public	Unknown	Soil cut	< 1	Others (carpark)	-
2008/12/0837	To the Southwest of Feature No. 11SW-D/R97 near Junction of Guildford Road and Peak Road	Natural hillside	10/9	Public	Unknown	Natural hillside	300	Others (verge at slope toe)	A section of suface drainage channel along the verge damaged

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 15 of 18)

		Feature	Rep	orted		Failure		Fasilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2009/01/0839	Cape Collinson Path	Natural hillside	8/1 (2009)	DO	29/12	Natural hillside	< 2 (Boulder fall)	Access road	-
AFCD/ 2008/06/0007	Near Picnic Site P10, Aberdeen Reservoir Road	Natural hillside	-	AFCD	7/6	Natural hillside	5	Minor footpath	-
AFCD/ 2008/06/0020 [#]	Near Shelter No. 1, Lung Fu Shan	2.7 m high soil cut slope ⁽¹⁾	-	AFCD	7/6	Soil cut	5	Minor footpath	-
AFCD/ 2008/06/0028 [#]	Mount Parker Section, Hong Kong Forest Track	11SE-C/C113	-	AFCD	7/6	Soil cut	3	Minor footpath	-
AFCD/ 2008/06/0036 [#]	Near Shelter No. 4, Pok Fu Lam Country Park	2.5 m high soil cut slope ⁽¹⁾	-	AFCD	19/6	Soil cut	3	Minor footpath	-
LandsD/ HKW&S/ 2008/06/0001	Hong Kong Trail near Peel Rise	11SW-D/C1706	-	Lands D	7/6	Soil/rock cut	15	Minor footpath	-
WSD/ 2008/6/1/HK	Mount Parker Road, Tai Tam Reservoir	11SE-C/C215	-	WSD	10/6	Soil/rock cut	10	Access road	Access road temporarily closed
WSD/ 2008/6/2/HK	Tai Tam Reservoir Road, Tai Tam Reservoir	11SE-C/C680	-	WSD	10/6	Soil cut	22	Access road	-
WSD/ 2008/6/3/HK	Along WSD Access Road, Lung Fu Shan	11SW-A/C608	-	WSD	12/6	Soil cut	25	Pedestrian pavement	Pedestrian pavement temporarily closed
WSD/ 2008/6/5/HK	Mount Parker Road, to the East of Tai Tam Upper Reservoir	11SE-C/C682	-	WSD	12/6	Soil/rock cut	24	Pedestrian pavement	Pedestrian pavement temporarily closed

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 16 of 18)

		Easterna	Rep	orted		Failure		Facility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/6/HK	Adjoining Pokfulam Reservoir Road, Pok Fu Lam	Natural hillside	-	WSD	12/6	Natural hillside	7	Pedestrian pavement	Pedestrian pavement temporarily closed
WSD/ 2008/6/7/HK	Chainage 730-955, Pottinger Peak Catchwater	11SE-D/CR470	-	WSD	13/6	Soil cut	30	Catchwater	-
WSD/ 2008/7/7/HKI	Below 38 Aberdeen Reservoir Road	Natural hillside	14/7	WSD	Unknown	Natural hillside	60	Access road	-
HyD/ 2008/HY/0601 [#]	Mount Parker Road	11SE-C/C240	-	HyD	7/6	Soil/rock cut	1	Access road	-
HyD/HK/ 2008/06/0016	Information Crescent near Cyber Port Road	11SW-C/FR61	-	HyD	26/6	Fill	2	Road	-
HyD/ SNW-09-08	21 Magazine Gap Road	11SW-D/C298	-	HyD	7/6	Soil cut	30	Road	1 of 2 lanes of Magazine Gap Road temporarily closed
HyD/ SNW-18-08	7-9 Mount Kellett Road	Natural hillside	-	HyD	Unknown	Natural hillside	1	Access road	-
HyD/ SNW-40-08	Adjacent to Feature No. 11SW-A/C301, Mount Davis Road	Natural hillside	23/7	HyD	19/6	Natural hillside	5	Construction site	-
Arch SD/S/ 2008/07/0004 [#]	Chung Hom Kok Beach and Park Building, Chung Hom Kok	Natural hillside	-	Arch SD	9/7	Natural hillside	3	Open area	-

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 17 of 18)

		Г	Rep	orted		Failure		F 314	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
Arch SD/Wch-S/ 2008/07/0010	Bowen Road Park, Bowen Road	11SW-D/C1348	-	Arch SD	Unknown	Soil cut	< 1	Others (verge at slope toe)	-
Arch SD/ Wch-S/ 2008/07/0006	Hong Kong Stadium	11SE-C/CR28	-	Arch SD	10/7	Soil cut	1	Access road	-
Arch SD/S/ 2008/06/0037	St. Stephen Beach, Stanley	15NE-C/C375	-	Arch SD	15/6	Soil cut	< 1	Access road	-
Arch SD/ Wch-S/ 2008/06/0018E [#]	Hong Kong Cemetery	11SW-D/C1491	-	Arch SD	12/6	Soil/rock cut	< 1	Access road	-
Arch SD/S/ 2008/06/0024	Pokfulam Reservoir Road, Pok Fu Lam	11SW-C/FR361	-	Arch SD	12/6	Fill	1	Open area	-
Arch SD/C-E/ 2008/06/0023	High Court Building	11SW-B/F163	-	Arch SD	10/6	Fill	< 1	Access road	-
Arch SD/SKW/ 2008/06/0039 [#]	Lei Yue Mun Park, Lei Yue Mun	11SE-D/C715	-	Arch SD	18/6	Soil cut	1	Access road	-
LI/ 2008/06/2001	Above Feature No. 11SW-A/C608, Pik Shan Path, The University of Hong Kong	Natural hillside	8/6	LIC	Unknown	Natural hillside	25	Minor footpath	Minor footpath temporarily closed

Table B2 - List of Landslide Incidents in Hong Kong Island (Sheet 18 of 18)

		Facture	Rep	orted		Failure		Facility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
LI/ 2008/06/2002	Below Access Staircase, The University of Hong Kong	Natural hillside	8/6	LIC	Unknown	Natural hillside	45	Nil (Landslide debris deposited on the slope)	-

Legend:

- Very minor landslide with negligible consequence (see Section 1 of the report for definition).
- 435 [2 source areas: 180 & 255]: The incident involved a total failure volume of 435 m³, comprising 2 landslide source areas, each with a failure volume 180 m³ and 255 m³.
- +
- Failure volume estimated by GEO's landslide investigation consultants.

 The slope feature does not comply with the slope registrable criteria given in GEO Circular No. 15 (GEO, 2004b). (1)

Table B3 - List of Landslide Incidents in Kowloon (Sheet 1 of 7)

		Fastima	Repo	orted		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0137	53K Chuen Yuen Road East, Sam Ka Tsuen, Lei Yue Mun	11SE-B/C108	7/6	Police	7/6 (09:45)	Rock cut	50	Open area	-
2008/06/0140	Junction between Fat Kwong Street and Sheung Shing Street	11NW-D/C547	7/6	Police	7/6 (09:45)	Soil cut	10	Road	2 of 3 lanes of Fat Kwong Street temporarily closed
2008/06/0210	Above Lung Yan Road, Cheung Sha Wan	11NW-B/C496	7/6	Police	7/6 (19:01)	Soil/rock cut	30	Road	-
2008/06/0218	Near Phoenix House, Junction between Lung Chung Road and Lung Yan Road	11NW-B/CR127	7/6	FEHD	7/6	Soil cut	8	Pedestrian Pavements/ Footways	-
2008/06/0229#	Near Park, Man Fung Path, Pui Ching Road, Homantin	11NW-D/CR482	7/6	LCSD	7/6 (13:30)	Soil cut	< 1	Others (park)	-
2008/06/0235	Below Access Road to Service Reservoir, near Lion Park Garden Block 6, Lion Rock Park, Wong Tai Sin	Natural hillside	7/6	Public	7/6 (17:27)	Natural hillside	20	Minor footpath	-
2008/06/0277	Near Nursery, Kowloon Tsai Park	11NW-B/C255	8/6	LCSD	7/6	Soil cut	2.5	Others (nursery)	-
2008/06/0295	Opposite to Peony House, So Uk Estate	11NW-B/C30	8/6	ICC	Unknown	Soil/rock cut	10	Access road	-
2008/06/0298	Above feature No. 11NW-D/R87, Wah Yan College, Ho Man Tin	11NW-D/R87	10/6	Public	7/6	Retaining wall	550 ⁺	Others(tennis court)	-

Table B3 - List of Landslide Incidents in Kowloon (Sheet 2 of 7)

		Feature	Re	ported		Failure		Escilit.	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0299	About 210 m from O King Road, Wilson Trail	2.5 m high soil cut slope (1)	10/6	Public	9/6	Soil cut	12	Minor footpath	-
2008/06/0303	Chan Shu Kui Memorial School, 10 Tat Chee Ave, Kowloon	11NW-B/C259	10/6	Education Bureau	7/6	Soil cut	40	Building	-
2008/06/0306	Shek Kip Mei Park, Nam Cheong Street, Kowloon	11NW-B/C103	10/6	GEO GI term contractor	7/6 (08:00)	Soil/rock cut	7 (Rockfall)	Pedestrian Pavements/ Footways	-
2008/06/0322	Ko Shan Road Garden	11NW-D/C45	11/6	Arch SD	Unknown	Soil/rock cut	1 (Rockfall)	Others (park)	-
2008/06/0331	Between WSD Access Road and Clear Water Bay Road	11NE-C/FR132	11/6	WSD	11/6 (08:00)	Fill	50	Nil (debris came to rest on slope)	-
2008/06/0336	About 300 m from O King Road, Wilson Trail	2 m high soil cut slope (1)	10/6	ICC	9/6	Soil cut	5	Minor footpath	-
2008/06/0339	Anderson Road, Sau Mau Ping	11NE-B/F103	12/6	GEO	Unknown	Fill	30	Road	-
2008/06/0355	Behind Structure RKT/12/C/242, Sam Ka Tsuen, Lei Yue Mun, Sam Ka Tsuen	Natural hillside	12/6	DLO	7/6	Natural hillside	30	Squatter dwelling	Category 1 NDC recommendation of 3 squatter dwellings made to Lands Department.

Table B3 - List of Landslide Incidents in Kowloon (Sheet 3 of 7)

		Frateria	Repo	orted		Failure		F. 32	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0386	Near House No. 32B, 35 On Lei West, Sam Ka Tsuen, Lei Yue Mun	Natural hillside	14/6	FSD	14/6	Natural hillside	200	Squatter dwelling	Category 1 NDC recommendation of 10 squatter dwellings made to Lands Department.
2008/06/0406	Behind Tso Yuen House, Chuk Yuen North Tsuen, Wong Tai Sin	11NE-A/F141	14/6	Public	9/6 (08:30)	Fill	20	Access road	-
2008/06/0453	Northwest of feature No. 11NW-B/C82, Tai Po Road, Kowloon	Natural hillside	16/6	HyD	12/6	Natural hillside	25	Open area	-
2008/06/0467#	Beacon Hill Garden, Lung Ping Road, Kowloon	11NW-B/C89	13/6	LCSD	Unknown	Soil cut	3	Minor footpath	-
2008/06/0489	Sam Ka Tsuen, Lei Yue Mun	Natural hillside	12/6	DLO	7/6	Natural hillside	100	Open area	-
2008/06/0510#	Above feature No. 11NW-D/C283, Wah Yan College, Wylie Road, Ho Man Tin	Natural hillside	16/6	GEO	7/6	Natural hillside	1	Others (playground)	-
2008/06/0515	Butterfly Valley Road, Kowloon	11NW-A/C620	17/6	GEO	7/6	Soil cut	30 ⁺	Open area	-
2008/06/0535	The Hong Kong Society for Rehabilitation, Kwun Tong	11NE-D/C369	18/6	Public	7/6	Soil cut	l (Boulder fall)	Open area	-
2008/06/0581	Behind Refuse Collection Point, Baptist University Road, Kowloon Tong	11NW-B/DT7	25/6	ICC	Unknown	Registered disturbed terrain	5	Others (nursery)	-

Table B3 - List of Landslide Incidents in Kowloon (Sheet 4 of 7)

		Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0613	Diamond Hill Cemetorium	11NE-A/C14	24/6	Arch SD	24/6 (19:30)	Soil cut	10	Others (cemetery)	-
2008/06/0615#	Lok Fu Park	11NW-B/C720	24/6	Arch SD	24/6 (20:30)	Soil cut	2	Open area	1
2008/06/0619#	Lok Fu Park	11NW-B/C416	24/6	Arch SD	24/6 (20:30)	Soil/rock cut	2	Open area	-
2008/06/0621#	Lok Fu Park	11NW-B/C413	24/6	Arch SD	24/6 (20:30)	Soil cut	2	Open area	-
2008/07/0664	Lei Yue Mun	11SE-B/CR236	23/6	Lands D	7/6	Soil/rock cut	15	Open area	-
2008/07/0665	Lei Yue Mun	11SE-B/C237	23/6	Lands D	7/6	Soil/rock cut	9	Open area	-
2008/07/0666	Cha Kwo Ling	11SE-B/C64	23/6	Lands D	7/6	Soil/rock cut	100	Nil (debris came to rest on slope)	-
2008/07/0680	Near Tsung Tsin Primary School, Berwick Street, Shek Kip Mei, Kowloon	Natural hillside	8/7	Police	8/7 (17:15)	Natural hillside	10 (Boulder fall)	Road and minor footpath	All 2 lanes of Berwick Street temporarily closed
2008/07/0716	Near Hoi Bun School, Sam Ka Tsuen, Lei Yue Mun	11SE-B/C458	12/7	Police	12/7 (09:00)	Soil cut	30	Squatter dwelling	Category 1 NDC recommendation of 2 squatter dwellings made to Lands Department.
2008/07/0749	Ma Shan Tsuen, Lei Yue Mun	11SE-B/C113	15/7	GEO	12/7	Soil/rock cut	20 ⁺	Nil (debris came to rest on slope)	-

Table B3 - List of Landslide Incidents in Kowloon (Sheet 5 of 7)

		Factoria	Repo	orted		Failure		Facility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0750	Ma Shan Tsuen, Lei Yue Mun	11SE-B/C113	15/7	GEO	Unknown	Soil/rock cut	40	Open area	-
2008/07/0751#	Behind Bay View Garden, On Ting Road, Ngau Chi Wan	Natural hillside	18/7	DO	16/7	Natural hillside	1	Others (streamcourse)	-
2008/07/0765	Next to Hing Tin Street, Lam Tin	11NE-D/C73	30/7	Police	30/7 (10:30)	Soil/rock cut	35	Road	2 of 3 lanes of Tseung Kwan O Road temporarily closed
2008/08/0783	Behind 5 Fei Ngo Shan Road, Fei Ngo Shan	Natural hillside	10/8	GEO	9/7	Natural hillside	200	Nil (debris came to rest on hillside)	-
2008/08/0784#	Near Tong Yam Street, Yau Yat Chuen, Kowloon	Natural hillside	7/8	GEO	6/8	Natural hillside	2	Minor footpath	-
2008/10/0817	Behind Sky Garden, 223 Prince Edward Road	1.5 m high retaining wall (1)	2/10	Police	2/10 (17:00)	Retaining wall	20	Minor footpath	-
2008/12/0832#	Cheung Sha Wan Roman Catholic Cemetery, Kowloon	11NW-A/C462	1/12	BD	24/11	Soil cut	1	Others (cemetery)	-
WSD/2008/ 5/1/K [#]	Near Ching Cheung Road Fresh Water Pumping Station	11NW-A/F138	5/5	WSD	5/5	Fill	3	Others (Drainage channel)	-
Arch SD/WTS-W/ 2008/06/0017 [#]	Ma Chai Hang Recreation Ground, Chuk Yuen, Kowloon	11NE-A/C558	-	Arch SD	10/6	Soil cut	< 1	Open area	-

Table B3 - List of Landslide Incidents in Kowloon (Sheet 6 of 7)

		Feature	Repo	orted		Failure		Eggilit.	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
Arch SD/SSP/ 2008/06/0036	Tai Hang Tung Estate Community Centre	11NW-B/C35	-	Arch SD	18/6	Soil cut	2.5	Nil (debris came to rest on slope)	-
LandsD/SK/ 2008/06/0001	Footpath above Lam Tin Landfill, Lam Tin	11NE-D/C319	13/6	Lands D	11/6 (11:00)	Soil/rock cut	30	Access road	-
WSD/2008/ 6/4/NTW [#]	Adjoining WSD Access Road, Shing Mun Road, Tsuen Wan	Natural hillside	7/6	WSD	7/6	Natural hillside	5	Open area	-
WSD/2008/ 6/20/K	Lion Rock High Level Fresh Water No. 1 Service Reservoir	11NW-B/C135	7/6	WSD	7/6	Soil cut	14.4	Access road	-
WSD/2008/ 6/60/K	Shek Kip Mei No. 2 Fresh Water Service Reservoir, west of Pak Tin Estate	11NW-B/C582	30/6	WSD	30/6 (14:59)	Soil/rock cut	7.5	Access road	Access road temporarily closed
WSD/2008/ 6/61/K	Kwun Tong High Level Fresh Water Service Reservoir	11NE-C/R27	30/6	WSD	30/6 (15:13)	Retaining wall (Random Rubble)	0.5 (Rockfall)	Open area	-
WSD/2008/ 6/83/K [#]	North of the Access Road between the Playground at Kowloon Byewash Reservoir	11NW-A/C252	7/6	WSD	7/6	Soil cut	1	Access road	-
Arch SD/KT/ 2008/07/0011	Between New Clear Water Bay Road and Lee On Road	11NE-A/C431	-	Arch SD	21/7	Soil cut	15	Open area	-
WSD/2008/ 7/2/K	Adjoining Shek Kip Mei Service Reservoir	11NW-B/DT1	-	WSD	9/7	Registered disturbed terrain	35	Open area	-

Table B3 - List of Landslide Incidents in Kowloon (Sheet 7 of 7)

	ncident No. Location	Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
WSD/2008/ 10/1/K	North of Ma Yau Tong Salt Water Reservoir	11NE-D/C191	-	WSD	17/10	Rock cut	0.2 (Rockfall)	Access road	Access road temporarily closed
LI/2009/12/ 2001	Natural hillside above feature No. 11NE-A/ND8 at Jordan Valley	Natural hillside	14/12 /2009	CEDD	Unknown	Natural hillside	110+	Others (Boulder Fence)	-

Legend:

- +
- Very minor landslide with negligible consequence (see Section 1 of the report for definition). Failure volume estimated by GEO's landslide investigation consultants. The slope feature does not comply with the slope registration criteria given in GEO Circular No. 15 (GEO, 2004b). (1)

Table B4 - List of Landslide Incidents in New Territories (Sheet 1 of 39)

		Eastura	Repo	orted		Failure		Engility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/04/0080	Near lamp post No. FA7986, Route Twisk	7NW-C/C127	8/4	Public	7/4 (16:00)	Soil cut	0.5 (Boulder fall)	Road	-
2008/04/0083	Behind House No. 421, Ha Wo Che Village, Shatin	Unregistered at time of failure	19/4	Public	19/4	Soil cut	1.2	Squatter dwelling	1 squatter dwelling temporarily evacuated
2008/04/0084	Near Gilwell Campsite, Fei Ngo Shan Road	7SE-C/C590	20/4	FSD	19/4 (21:03)	Soil/rock cut	20	Road	-
2008/04/0086	Behind House No. 107, Tong Hang Village, Fanling	< 3 m high masonry wall (1)	19/4	Public	19/4 (20:00)	Retaining wall (masonry)	8	Village house	-
2008/04/0087	Near House No. 105, Luk Mei Village, Ho Chung, Sai Kung	1.5 m high soil cut slope (1)	19/4	Public	19/4 (19:00)	Soil cut	1	Village house	-
2008/04/0090	Near House No. 156, Tseng Tau Tsuen Chung Tsuen, Tuen Mun	6SW-A/C329	20/4	Police	19/4 (19:30)	Soil cut	1	Squatter dwelling	-
2008/04/0092	Behind House No. 73B, Sha Tin Tau New Village, Shatin	7SE-C/C296	21/4	Public	20/4	Soil/rock cut	2	Open area	-
2008/04/0093	The Chinese University of Hong Kong, Shatin	7NE-C/C148	21/4	Public	19/4	Soil/rock cut	12 (Rockfall)	Others (refuse collection point)	-
2008/04/0096	West of House No. 5, Tan Shan Tsuen, Sai Kung	Natural hillside	21/4	Public	20/4	Natural hillside	10	Open area	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 2 of 39)

		Feature	Repo	orted		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/04/0097	Zone 259, Lin Ma Hang Road, Sha Tau Kok	Natural hillside	21/4	Police	20/4 (10:33)	Natural hillside	15	Road	-
2008/04/0099	Licence No. T7313 in DD184 at Sha Tin Tau New Village, Shatin	Unregistered at time of failure	22/4	Public	Unknown	Soil cut	2	Squatter dwelling	-
2008/04/0100	Behind House No. 79, Lok Lo Ha Village, Shatin	Unregistered at time of failure	23/4	Public	20/4	Soil cut	< 1	Open area	-
2008/04/0101	Near lamp post No. V53596, Access Road to Ta Ku Ling San Tsuen, Sai Kung	1.5 m high soil cut slope (1)	20/4	Public	20/4 (12:30)	Soil cut	1	Access road	-
2008/04/0102	Adjoining House No. 72, Lung Mei Tsuen Road, Sai Kung	Natural hillside	21/4	Public	21/4 (09:30)	Natural hillside	1	Others (open carpark)	-
2008/04/0103	Near House No. 64, Tai Lam Liu Village, Shatin	Natural hillside	21/4	Public	19/4	Natural hillside	2	Minor footpath	-
2008/04/0104	Country Trail at Ngau Kwu Leng, Tai Po	3SW-C/C531	23/4	Public	23/4 (11:15)	Soil cut	2	Minor footpath	-
2008/04/0106	Below The Terrace, Fei Ngo Shan Road	11NE-B/C427	22/4	HyD	21/4 (13:30)	Soil cut	15	Pedestrian Pavements/ Footways	-
2008/04/0107	Behind House No. 37, Siu Lam San Tsuen, Tuen Mun	6SW-C/C721	25/4	Lands D	19/4 (17:00)	Soil cut	1.5	Squatter dwelling	-
2008/04/0108	Au Tau Road, Tseng Lan Shue, Sai Kung	11NE-D/C914	25/4	Public	19/4	Soil cut	5	Road	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 3 of 39)

		Frateria	Repo	orted		Failure		F114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/04/0109	Opposite to lamp post No. VA6611, Au Tau Road, Tseng Lan Shue, Sai Kung	2 m high soil cut slope (1)	25/4	Public	19/4	Soil cut	7.5	Road	-
2008/04/0110	Near lamp post EA7916, Sai Sha Road, Sai Kung	2 m high soil cut slope (1)	29/4	HyD	Unknown	Soil cut	5	Pedestrian Pavements/ Footways	-
2008/05/0112#	Near House No. 123C, Tai Long Road, Yuen Long	2.8 m high soil cut slope (1)	6/5	Lands D	19/4 (21:00)	Soil cut	5	Open area	-
2008/05/0113	Country Trail, Ngau Kwu Leng, Tai Po	3SW-C/C537	23/4	Public	23/4 (11:15)	Soil cut	5	Minor footpath	-
2008/05/0114	Country Trail, Ngau Kwu Leng, Tai Po	3SW-C/C540	23/4	Public	23/4 (11:15)	Soil cut	3	Minor footpath	-
2008/05/0115	Country Trail, Ngau Kwu Leng, Tai Po	3SW-C/C541	23/4	Public	23/4 (11:15)	Soil cut	< 1	Minor footpath	-
2008/05/0116#	Tong Kung Leng, Sheung Shui	2.5 m high masonry wall (1)	7/5	DO	7/5 (10:00)	Retaining wall (masonry)	1 (sign of distress)	Minor footpath	-
2008/05/0117	Northeast of Lot No. 406 in DD 224, Casa Loma, Sai Kung	Natural hillside	24/4	LCSD	Unknown	Natural hillside	20	Open area	-
2008/05/0118	Beside House No. 36 of Tap Mun, Sai Kung North, Tai Po	1.8 m high soil cut slope (1)	9/5	Lands D	Unknown	Soil cut	1	Village house	-
2008/05/0120#	Near House No. 3A, Nam Wai Village, Sai Kung	11NE-B/R137	20/5	Lands D	20/5 (14:00)	Retaining wall (masonry)	5	Open area	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 4 of 39)

		Б	Repo	orted		Failure		г 117	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/05/0123	30 m to the east of feature No. 7SW-C/C456, Kiu Tau Village, Wo Yi Hop Lane, Tsuen Wan	Unregistered at time of failure	29/5	GEO	29/5 (10:00)	Soil cut	30	Minor footpath	-
2008/06/0125#	Yung Shue O Village, Sai Sha Road, Sai Kung	8NW-C/C96	6/6	Police	Unknown	Soil cut	0.1 (masonry block fall)	Access road	-
2008/06/0126	Near House No. 8A, Shak Wo Sun Tsuen, Fanling	3SW-A/C65	5/6	Public	3/6 (18:00)	Soil cut	6	Open area	-
2008/06/0127	So Kwun Wat, Tuen Mun	6SW-C/C319	6/6	Lands D	6/6 (13:00)	Soil/rock cut	15	Others (store room)	-
2008/06/0129	Hung Hing Store 18.5 milestone, Castle Peak Road, Cafeteria Old Beach, Tuen Mun	6SW-C/CR797	7/6	FSD	7/6 (06:32)	Retaining wall (mass concrete)	300	Squatter dwelling	2 fatalities, 12 persons and 4 squatter dwellings temporarily evacuated
2008/06/0134	Behind House No 4D Tan Shan Village, Tseung Kwan O	11NE-B/CR281	7/6	Police	7/6 (08:45)	Soil/rock cut	30	Squatter dwelling	2 squatter dwellings temporarily evacuated
2008/06/0143	488 Tai Po Road, Opposite to Villa Carlton, Sham Shui Po	1.5 m high fill slope (1)	7/6	Public	7/6 (08:01)	Fill	1	Open area	-
2008/06/0145	Behind House No. 390 Pai Tau Village, To Fung Shan Road, Shatin	Natural hillside	7/6	DLO	7/6 (10:32)	Natural hillside	100	Village house	3 village houses temporarily evacuated

Table B4 - List of Landslide Incidents in New Territories (Sheet 5 of 39)

		Б	Repo	orted		Failure		E Tr	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0146#	Adjacent to House No. 100, Ma Yau Tong Village, Tseung Kwan O	11NE-D/CR467	7/6	Police	7/6 (10:50)	Soil cut	< 1	Open area	-
2008/06/0148#	Adjacent to House No. 301, Ma Yau Tong Village, Tseung Kwan O	Natural hillside	7/6	Police	7/6 (10:50)	Natural hillside	5	Access road	-
2008/06/0150	Above feature No. 11NW-D/C62, Old Castle Peak Rd, Pum Fong Sheung Village, Kwai Chung	Natural hillside	7/6	BD	7/6 (12:45)	Natural hillside	200 ⁺	Squatter dwelling and road	1 of 2 lanes of Castle Peak Road temporarily closed, 3 squatter dwellings temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department.
2008/06/0152A	46 Tsing Yi Road, Tsing Yi	10NE-B/F127	7/6	ICC	7/6	Fill	200	Road	All 2 lanes of Tsing Yi Road temporarily closed
2008/06/0152B	40 ISHIR II KOAU, ISHIR II	10NE-B/C329	7/0	icc	(10:25)	Soil cut	75 ⁺	Nil (debris came to rest on slope)	-
2008/06/0154	Near House No. 69, Wo Liu Hang Tsuen, Shatin	7SE-A/C528	7/6	Police	7/6 (10:45)	Soil cut	< 1	Squatter dwelling	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 6 of 39)

		F4	Repo	orted		Failure		F354	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0159	Behind 19 Keng Hau Road, Tai Wai	Natural hillside	7/6	Police	7/6 (08:31)	Natural hillside	220 ⁺	Building	3-storey building temporarily evacuated
2008/06/0160	Near House Nos. 160-161, Ha Wo Che Village, Shatin	Natural hillside	7/6	Police	7/6 (10:15)	Natural hillside	75	Squatter dwelling	11 persons and 2 squatter dwellings temporaily evacuated. Category 1 NDC recommendation subsequently made to Lands Department.
2008/06/0161#	South of Lok King House, Lai King Estate, Kwai Chung	1.4 m high soil cut slope (1)	7/6	Police	7/6 (10:39)	Soil cut	3	Open area	-
2008/06/0168	Behind House No. 26B, Cheung Hang Tsuen, Kau Wa Keng, Kwai Chung	Natural hillside	7/6	Public	7/6 (12:12)	Natural hillside	2	Village house	-
2008/06/0170	Above feature No. 11NE-A/C351, Shatin Pass Road, Shatin	Natural hillside	7/6	НуD	7/6	Natural hillside	3550 ⁺	Temple and open area	Evacuation of the temple and flooding of an open area of Tsz Ching Estate
2008/06/0174#	Opposite to House No. 55, Tseng Lan Shue, Sai Kung	11NE-B/C968	7/6	Police	7/6	Soil cut	1	Open area	-
2008/06/0185	Near lamp post No. V80775, Sun Tei Village, Tseng Lan Shue, Sai Kung	11NE-B/C493	7/6	Police	7/6 (14:31)	Soil cut	8	Minor footpath	-

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Table B4 - List of Landslide Incidents in New Territories (Sheet 7 of 39)

		F	Repo	orted		Failure		Facilitae	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0187	Shu Him Lane, Tong Hang, Fanling	3SW-A/DT9	7/6	Police	Unknown	Registered disturbed terrain	12	Minor footpath	-
2008/06/0188	CLP Old Power Station Storage Area, Tsing Yi Road, Tsing Yi	10NE-B/C56	7/6	HyD	7/6	Soil/rock cut	250 ⁺ (Rockfall)	Access road	-
2008/06/0189	Anderson Road, Sau Mau Ping	11NE-B/CR223	7/6	Public	Unknown	Soil cut	40	Road	Anderson Road temporarily closed
2008/06/0191	Junction between Tai Mong Tsai Road and Fung Sau Road, Sai Kung.	Unregistered at time of failure	7/6	Police	7/6 (11:41)	Soil cut	5	Road	-
2008/06/0194	Near lamp post No. S/CH/2X/047, Cheung Hang Village, Kau Wa Keng	Natural hillside	7/6	Public	7/6 (15:01)	Natural hillside	54	Minor footpath	-
2008/06/0195	Above feature No. 10NE-B/C95, Tsing Chin Street, Tsing Yi	Natural hillside	7/6	Public	7/6 (13:56)	Natural hillside	200	Road	-
2008/06/0203	Near House No. 257, Pump House Sheung Village, Kau Wa Keng	Natural hillside	7/6	Public	7/6 (15:45)	Natural hillside	3	Minor footpath	-
2008/06/0212	Near Sheung Sam House, Lung Hang Estate, Tai Wai	Natural hillside	7/6	Public	7/6 (16:31)	Natural hillside	100 ⁺	Open area	-
2008/06/0215	Near lamp post No. FA5262, Tai Mo Shan Road, Route Twisk	6SE-B/C49	7/6	HyD	7/6 (15:00)	Soil cut	25	Road	1 of 2 lanes of Tai Mo Shan Road temporarily closed

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Table B4 - List of Landslide Incidents in New Territories (Sheet 8 of 39)

		F	Repo	orted		Failure		F114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0216	Near lamp post No. 3854 & 5444, Tung Lo Wan Shan Road, To Fung Shan, Shatin.	2 m high soil cut slope (1)	7/6	Public	7/6	Soil cut	1	Road	-
2008/06/0223	Near House No.191, Sheung Wo Che Tsuen, Shatin	Unregistered at time of failure	7/6	ICC	7/6	Soil cut	2.5	Minor footpath	-
2008/06/0227#	Opposite House No. 246, Tai Po Tsai Upper Village, Clear Water Bay Road, Sai Kung	11NE-B/C603	7/6	Police	7/6	Soil/rock cut	3	Open area	-
2008/06/0233	Near House No. 173B, Kau Wah Keng Upper Village, Kwai Chung	< 3 m high soil cut slope (1)	7/6	Public	7/6	Soil cut	10	Squatter dwelling	Category 1 NDC recommendation of 5 squatter dwellings made to Lands Department
2008/06/0236	Near Radar Station, Lung Yan Road, Shatin	11NW-B/C521	7/6	EMSD	7/6	Soil/rock cut	25	Road	Lung Yan Road temporarily blocked
2008/06/0237	Near lamp post No. V5964, Ma Wo Chuen, Ma Chung Road, Tai Po	Natural hillside	7/6	HyD Police	7/6 (21:45)	Natural hillside	10	Squatter dwelling	1 person and 1 squatter dwelling temporarily evacuated. Category 1 NDC recommendation subsequently made to Lands Department

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Table B4 - List of Landslide Incidents in New Territories (Sheet 9 of 39)

		T	Rep	orted		Failure		D. Tr.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0242	Near House No. 76D, Cheung Hang Tsuen, Kau Wa Keng	Natural hillside	7/6	Public	7/6	Natural hillside	10	Open area	-
2008/06/0243	Fei Ngo Shan Road, Shatin	11NE-A/C517	7/6	Public	7/6	Soil/rock cut	15	Road	Fei Ngo Shan Road temporarily blocked
2008/06/0254	Lot No. DD100, Tsiu Keng Tsuen, Sheung Shui	Natural hillside	7/6	Police	7/6 (18:00)	Natural hillside	100	Minor footpath	-
2008/06/0256	Chainage 18.5 m, Tolo Highway (North Bound), Tai Po	7NW-B/C493	8/6	HyD	8/6	Soil cut	30	Road	1 of 3 lanes of Tolo Highway temporarily blocked
2008/06/0257#	Pin Tun Chuen, Yan Yee Road, Sai Kung	8SW-B/CR188	8/6	Police	8/6 (10:33)	Soil cut	2	Nil (debris came to rest on slope)	-
2008/06/0258	Lot No. 24, Sham Tseung San Tsuen, Sham Tseung	6SE-C/C325	8/6	Police	8/6 (11:32)	Soil cut	2	Squatter dwelling	3 squatter dwellings temporarily evacuated
2008/06/0260	706 Tai Mong Tsai Road, Sai Kung	8SW-A/C219	8/6	Police	8/6 (11:50)	Soil cut	1	Road	-
2008/06/0264	Near House No. 50G, Pan Chung San Tsuen, Ma Wo Section B, Tai Po	Natural hillside	8/6	DO	8/6 (13:15)	Natural hillside	6	Minor footpath	-
2008/06/0269	Below Block 18, Wonderland Villas, Lai King	11NW-A/C363	8/6	Public	7/6 (14:00)	Soil cut	< 1	Minor footpath	-

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Table B4 - List of Landslide Incidents in New Territories (Sheet 10 of 39)

		.	Re	ported		Failure		D 1114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0284	Near House No. 38, Loi Tung East Village, Sha Tau Kok	3NW-D/C57	8/6	Public	Unknown	Soil/rock cut	0.5 (Spalling of chunam)	Village house	-
2008/06/0286	Near House No. 63, Yau Oi Tsuen, To Fung Shan Road, Tai Wai	2 m high soil cut slope (1)	8/6	Public	Unknown	Soil cut	2	Road	-
2008/06/0289#	Near House No. 29, Pak Kiu Tsai Tsuen, Tat Wan Road, Tai Po	1.5 m high retaining wall (1)	9/6	Police	8/6 (15:15)	Retaining wall	4	Minor footpath	-
2008/06/0292#	Opposite to House No. 84, Pai Tau Tsuen, Shatin	7SW-B/CR733	9/6	Police	7/6	Soil cut	2.5	Minor footpath	-
2008/06/0297	Near House No. 16, Kau Lung Hang Tsuen, Tai Po	3SW-D/CR110	6/6	Public	6/6 (18:00)	Soil cut	2	Nil (debris came to rest on slope)	-
2008/06/0304	Tieu Chu Ve-Tsin Chemical Ind. (HK) Ltd., Tsing Yi Road, Tsing Yi	10NE-B/C319	10/6	LPM consultant	10/6	Soil/rock cut	200 ⁺	Access road	Access road blocked
2008/06/0307	Below Block 1A, Wonderland Villas, Lai King	Natural hillside	11/6	Public	7/6	Natural hillside	120	Nil (debris came to rest on hillside)	-
2008/06/0311	Near House No. 36, Siu Sau Village, Tuen Mun	6SW-C/C603	11/6	Public	7/6 (08:00)	Soil cut	5	Squatter dwelling	-
2008/06/0312	Near lamp post No. BE3154, Tai Po Road	7SW-D/F158	11/6	HyD	7/6 (16:18)	Fill	20	Open area	-

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Table B4 - List of Landslide Incidents in New Territories (Sheet 11 of 39)

		Frateur	Re	ported		Failure		F314	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0316	Near House No. 40, Siu Lam San Tsuen, Tsing Fat Street, Tuen Mun	6SW-C/CR725	12/6	DLO	8/6 (12:15)	Soil/rock cut	2	Squatter dwelling	-
2008/06/0318	Near House Nos. 273-274, Tai Hang Mei Village, Kwai Chung	Streamcourse with deposited fill, debris and soil	12/6	DO	7/6	Natural hillside (disturbed hillside)	10	Squatter dwelling	4 persons and 5 dwellings temporarily evacuated. Category 1 NDC recommendation on 3 of the squatter dwellings subsequently made to Lands Department.
2008/06/0319	Ku Ngam Monastery, Che Kung Miu Road, Shatin	7SW-D/DT58	11/6	DLO	11/6	Registered disturbed terrain	500 ⁺	Temple	-
2008/06/0320	Ting Kok Road, Tai Po	7NE-A/C167	12/6	НуD	Unknown	Soil cut	20 ⁺	Nil (debris came to rest on slope)	-
2008/06/0330	Near House No. 18, Chap Wai Kon Old Village, Shatin	Natural hillside	11/6	DLO	7/6	Natural hillside	10	Open area	-
2008/06/0335	Tai Po Road, Tai Po Kau	7NW-B/C271	12/6	HyD	Unknown	Soil cut	15	Open area	-
2008/06/0337#	Tseung Kwan O Landfill	12SW-A/C76	11/6	Arch SD	10/6	Soil cut	3	Open area	-

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		Feature	Re	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0341	Near House No. 29, Siu Sau Village, So Kwun Wat, Tuen Mun	6SW-C/CR550	12/6	Lands D	10/6 (10:15)	Retaining wall	10	Open area	-
2008/06/0342	Behind House No. 291, Ha Wong Yi Au, Tai Po	Natural hillside	10/6	Police	7/6 (23:00)	Natural hillside	50	Squatter dwelling	Category 1 NDC recommendation of 1 squatter dwelling made to Lands Department
2008/06/0350	Near House Nos. 45 - 46, Pik Uk Sun Tsuen, Sai Kung	1.5 m high masonry wall (1)	12/6	Public	7/6 (09:00)	Retaining wall (masonry)	1	Others (alleyway)	-
2008/06/0351#	House No. 6, Customs Pass, Fei Ngo Shan Road, Sai Kung	11NE-B/F197	12/6	BD	7/6 (09:00)	Fill	5 (Sign of distress)	Open area	-
2008/06/0352	Tsui Keng Pang Uk, Sheung Shui	2SE-D/C46	13/6	DLO	13/6 (12:31)	Soil cut	1	Squatter dwelling	-
2008/06/0361#	Fung Kat Heung Road, Kam Tin	6NE-A/C113	13/6	DO	8/6 (16:00)	Soil cut	1.5	Access road	-
2008/06/0370	Near House No. 96 Chek Nai Ping Village, Shatin	7NE-C/R22	13/6	Public	13/6 (22:37)	Retaining wall	< 5 (Sign of distress)	Village house	-
2008/06/0371	House No. 56, Kei Ling Ha Lo Wai, Sai Kung	8NW-C/C54	14/6	Public	14/6 (01:15)	Soil cut	1	Others (alleyway)	-
2008/06/0372A	Near lamp post Nos. VE3114 & 3118, Ma On Shan Lower Village, Ma On Shan	2 m high soil cut slope (1)	14/6	Public	14/6 (02:35)	Soil cut	1	Minor footpath	-

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		Feature	Re	ported		Failure		Eggility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0372B	Near lamp post Nos. VE3114 & 3118, Ma On Shan Lower Village, Shatin	2 m high soil cut slope (1)	14/6	Public	14/6 (02:35)	Soil cut	1	Minor footpath	-
2008/06/0392	House No. 9, Nai Chung Tsuen, Tai Po	7NE-D/C20	14/6	DO	13/6 (23:00)	Retaining wall (masonry)	3	Others (alleyway)	-
2008/06/0403	Near House No. 31, Yung Shue Tsuen, Tap Mun	4SE-C/C24	14/6	police	13/6	Soil cut	5	Squatter dwelling	-
2008/06/0404	Behind House No. 27, Wang Kong Tsuen, Sai Kung	Natural hillside	14/6	Public	Unknown	Natural hillside	10	Others (streamcourse)	-
2008/06/0408	Behind House No. 34, San Tin Village, Tai Wai	7SW-D/C435	14/6	ICC	Unknown	Soil cut	1	Village house	-
2008/06/0414	Near House No. 21, Ma On Shan Lower Village, Shatin	Natural hillside	14/6	Public	Unknown	Natural hillside	30	Squatter dwelling	-
2008/06/0418	106-114 Kwok Shui Road, Tsuen Wan	Unregistered at time of failure	14/6	Public	14/6 (11:30)	Soil cut	6	Pedestrian Pavements/ Footways	-
2008/06/0419	Near lamp post No. E9366, Tai Po Road, Sham Shui Po	11NW-A/C196	14/6	ICC	Unknown	Soil/rock cut	7	Road	1 of 2 lanes of Tai Po Road temporarily closed
2008/06/0425	Feature 7SE-D/C109 near Mang Kung Wo Road, Sai Kung	7SE-D/C109	14/6	ICC	14/6 (16:13)	Soil cut	1	Road	-

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		Feature	Re	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0432#	Shui Wo Court, Shatin	7SE-A/C5	14/6	Police	14/6	Rock cut	< 1	Access road	-
2008/06/0446	Near House No. 12A, To Yuen Tung, Ma Wo, Tai Po	7NW-B/CR224	12/6	Lands D	7/6 (19:00)	Soil cut	30	Open area	-
2008/06/0449	Castle Peak Road - Tai Lam, Tuen Mun	6SW-D/C7	16/6	HyD	13/6 (16:00)	Rock cut	2 (Rockfall)	Road	-
2008/06/0455	Lot No. 143 in DD52, Hung Kiu San Tsuen, Sheung Shui	3NW-C/F26	16/6	GEO	16/6 (15:01)	Fill	0.5 (Sign of distress)	Village house	-
2008/06/0464#	Between House Nos. 415 & 409, Ha Wo Che Village, Shatin	Unregistered at time of failure	6/6	Police	6/6 (20:45)	Soil cut	1.5	Minor footpath	-
2008/06/0480	Opposite to Block 11, Chevalier Garden, Tai Shui Hang, Shatin	Unregistered at time of failure	15/6	Public	15/6	Soil/rock cut	0.5 (Boulder fall)	Minor footpath	-
2008/06/0486	Behind House No. 37, Sam Long Village, Sai Kung	11NE-B/C483	13/6	Public	7/6 (08:30)	Soil/rock cut	25	Squatter dwelling	-
2008/06/0487	Near House No. 61D, Tseng Lan Shue, Clear Water Bay Road	11NE-B/CR353	15/6	Public	15/6 (18:00)	Soil cut	10	Squatter dwelling	-
2008/06/0488	Behind House No. 188, Tai Mei Tuk Village, Tai Po	3SE-D/C134	15/6	Public	Unknown	Soil cut	2	Open area	-

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		Feature	Re	ported		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0495	Hoi Ha Road, Sai Kung	8NW-B/C44	15/6	AFCD	Unknown	Soil cut	20	Road	Hoi Ha Road temporarily closed
2008/06/0496	Near House No. 33C, Nam Wa Po, Tai Po	3SW-C/C452	10/6	Public	10/6 (15:15)	Soil cut	< 1	Nil (debris came to rest on slope)	-
2008/06/0498	Lot No. 594 & 583, Fu Yung Shan San Tsuen, Kwai Chung	7SW-C/C658	17/6	GEO	7/6	Soil cut	15	Squatter dwelling	2 squatter dwellings temporarily evacuated
2008/06/0503	Cheung Yuen Road, Cheung Hang Tsuen, Kwai Chung	11NW-A/C285	17/6	Public	Unknown	Soil cut	12	Road	-
2008/06/0505	Near lamp post No. VA5510, Tai To Tsuen Road, Yuen Long	Natural hillside	14/6	Public	14/6	Natural hillside	5	Minor footpath	-
2008/06/0506	Below Cheung Yuen Road, Cheung Hang Tsuen, Kwai Chung	Unregistered at time of failure	17/6	Public	7/6	Fill	3	Others (streamcourse)	-
2008/06/0507#	Lok Ma Chau, San Tin	1 m high soil cut slope (1)	18/6	DO	15/6 (14:45)	Soil cut	1	Minor footpath	-
2008/06/0509	South of feature No. 11NW-A/C735, Cheung Hang Tsuen, Kwai Chung	2 m high fill slope (1)	17/6	Public	7/6	Fill	< 1	Open area	-

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		Feature	Re	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0517	Behind Hin Kwai House, Hin Keng Estate, Tai Wai	Natural hillside	18/6	Public	Unknown	Natural hillside	10	Nil (debris came to rest on hillside)	-
2008/06/0519	Wilson Trail, Ma Yau Tong Village, Tseung Kwan O	11NE-D/C313	18/6	DO	11/6 (11:00)	Soil/rock cut	30	Minor footpath	-
2008/06/0526#	South of House No. 4781, Tai Po Road, Tai Po	Unregistered at time of failure	19/6	HyD	Unknown	Fill	2.5	Open area	-
2008/06/0534#	Lo Tsing Shan Tsuen, So Kwun Wat, Tuen Mun	6SW-C/C75	19/6	GEO	Unknown	Soil/rock cut	2	Others (farm land)	-
2008/06/0537#	Ying Pun Tsuen, Sheung Shui	Natural hillside	20/6	DO	18/6 (00:00)	Natural hillside	< 1	Minor footpath	-
2008/06/0538	In front of No. 8 Bernard Garden, Hing Keng Shek, Sai Kung	7SE-D/C285	16/6	Public	14/6 (14:30)	Soil cut	20	Others (carpark)	-
2008/06/0539	South of House No. 6H, Sam Long Village, Sai Kung	11NE-B/DT32	16/6	Public	Unknown	Registered disturbed terrain	10	Minor footpath	-
2008/06/0540	Northeast of feature No. 11NW-A/C660, Cheung Hang Village, Kwai Chung	Natural hillside	19/6	Public	7/6	Natural hillside	22	Open area	-
2008/06/0542	Northeast of House No. 78C, Cheung Hang Village, Kwai Chung	Natural hillside	19/6	Public	7/6	Natural hillside	< 1	Open area	-

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		Feature	Re	ported		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0543	House No.82, Cheung Hang Village, Kwai Chung, NT	Natural hillside	19/6	Public	7/6	Natural hillside	8	Open area	-
2008/06/0545	South of Electrical post, Cheung Hang Village, Kwai Chung	2 m high fill slope (1)	19/6	Public	7/6	Fill	6	Open area	-
2008/06/0546	Southwest of feature No. 11NW-A/C660, Cheung Hang Village, Kwai Chung	2.5 m high masonry wall (1)	19/6	Public	7/6	Retaining wall (masonry)	8	Open area	-
2008/06/0549	Near CLP Power Station, Cheung Yuen Road, Cheung Hang Village, Kau Wah Keng, Kwai Chung	11NW-A/C287	18/6	Public	18/6	Soil/rock cut	< 1	Road	-
2008/06/0565	Behind House No. 41, Approach Bay Beach, Castle Peak Road - Ting Kau	6SE-D/FR157	20/6	Arch SD	Unknown	Retaining wall	8	Building	-
2008/06/0566	Yue Kok Tsuen, Tai Po	7NW-B/C608	19/6	Public	Unknown	Soil cut	2	Nil (debris came to rest on slope)	-
2008/06/0568	Cho Ma Wu, Tai Po	7NW-B/C619	20/6	Public	Unknown	Soil cut	< 1	Open area	-
2008/06/0570	Lot No. 8696, Shatin Height, Tai Po Road	11NW-B/C331	20/6	Public	Unknown	Soil cut	3	Access road	-

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		F4	Re	ported		Failure		F. 33.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0573#	Behind House No. 7, Fa Sam Hang Village, Shatin	Natural hillside	23/6	District Councilor	Unknown	Natural hillside	1	Nil (debris came to rest on hillside)	-
2008/06/0576	Near lamp post No. VA2669, Tseung Tau Chung Tsuen, Tuen Mun	6SW-A/C332	25/6	Police	25/6 (08:30)	Soil/rock cut	6	Squatter dwelling	3 squatter dwellings temporarily evacuated
2008/06/0579	Below Tuen Mun Road	6SE-D/C308	25/6	ICC	Unknown	Soil cut	20	Road	-
2008/06/0588#	Sze Pai Shek, Kam Tin	Natural hillside	25/6	DO	19/6 (15:45)	Natural hillside	3	Others (Streamcourse)	-
2008/06/0607	Near House No. 12, Mai Po Lung Tsuen, San Tin	2 m high soil cut slope (1)	26/6	ICC	26/6 (08:15)	Soil cut	< 1	Village house	-
2008/06/0609	Tsuen Wan Chinese Permanent Cemetery	6SE-D/C176	26/6	FSD	26/6 (10:00)	Soil cut	27	Access road	-
2008/06/0610	Sheung Pak Nai Tsuen, Nim Wan Road	5NE-B/C73	26/6	Lands D	26/6	Soil cut	90+	Minor footpath	-
2008/06/0612	Behind House Nos. 48 & 49, Fung Hang Village, Sha Tau Kok	3NE-D/C173	8/6	Public	8/6 (17:00)	Soil/rock cut	2	Village house	-
2008/06/0628#	Kwu Tung South	Natural hillside	26/6	DO	24/6 (00:00)	Natural hillside	2	Minor footpath	-
2008/06/0630	Ma Tso Lung, Lo Wu	2SE-B/C198	26/6	DO	26/6 (15:37)	Soil/rock cut	5	Village house	-

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		F (Re	ported		Failure		F. 33.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0631	Behind House No. 186, Sheung Pak Nai Tsuen, Lau Fau Shan	2 m high soil cut slope (1)	27/6	Public	25/6 (09:30)	Soil cut	1.5	Squatter dwelling	-
2008/06/0632	Below and near feature No. 5NE-B/C68, Sheung Pak Nai Tsuen, Lau Fau Shan	2 m high soil cut slope (1)	27/6	Public	25/6	Soil cut	5	Open area	-
2008/06/0634	Behind House No. 177, Tan Kwai Tsuen, Yuen Long	1.1 m high retaining wall (1)	28/6	FSD	28/6	Retaining wall	6	Village house	-
2008/06/0636	Ying Pun Tsuen, Sheung Shui	2.5 m high retaining wall (1)	28/6	BD	28/6 (00:00)	Retaining wall	3	Minor footpath	Footpath temporarily closed
2008/06/0639#	Behind House No. 27, Lo Tsz Tin Village, Tai Po	Unregistered at time of failure	27/6	Police	Unknown	Soil cut	2	Open area	-
2008/06/0640#	Behind House No. 115, Lung Mei Village, Tai Po	Unregistered at time of failure	27/6	Police	Unknown	Soil cut	<1	Nil (debris came to rest on slope)	-
2008/06/0641	Below 47 Sha Tin Heights Road	7SW-D/F125	30/6	Police	7/6	Fill	30	Open area	-
2008/06/0642	House No. 165, Nam Wai Road, Sai Kung	11NE-B/C562	29/6	Public	29/6 (19:30)	Soil cut	5	Open area	-
2008/07/0643#	Kwun Ping Road, Kwun Yan Shan, Shatin	7SE-C/C423	26/6	FSD	Unknown	Soil cut	< 1	Road	-

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		F	Re	ported		Failure		F117	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0644	Fei Ngo Shan Road	7SE-C/C647	10/6	GEO	10/6 (11:00)	Rock cut	1	Road	-
2008/07/0645	Fei Ngo Shan Road	11NE-B/C894	1/7	Public	1/7 (10:30)	Soil cut	1	Road	-
2008/07/0671	East Side of lamp post No. VA0769, Access Road to Ching Wan Court	2.5 m high soil cut slope (1)	7/7	Public	7/7	Soil cut	1	Open area	-
2008/07/0672	House No.18B, Pump Fong Sheung Tsuen, Kwai Chung	2 m high fill slope (1)	7/7	Police	7/7 (05:00)	Fill	1	Squatter dwelling	-
2008/07/0674	Ma On Shan Upper Village, Ma On Shan	7SE-B/C143	7/7	Public	Unknown	Soil cut	5	Open area	-
2008/07/0675	Tung Lo Wan Hill Road, Shatin	Natural hillside	30/6	Public	Unknown	Natural hillside	< 1	Minor footpath	-
2008/07/0676#	Sai Hang Mei, Tze Tin Tsuen, Tuen Mun	Natural hillside	8/7	DLO	4/7 (00:00)	Natural hillside	3	Others (streamcourse)	-
2008/07/0682	Near lamp post No. EB 2961, Kwun Ping Road, Kwun Yam Shan, Shatin	Natural hillside	4/7	НуД	Unknown	Natural hillside	20	Road	-
2008/07/0685	Lot No. 3017B in DD111, Chi Ma Leng, Wang Toi Shan, Kam Tin, Yuen Long	6NE-D/C64	10/7	Public	Unknown	Soil cut	4	Minor footpath	-
2008/07/0686	Wo Keng Shan Road, Miu Keng, North District	3NW-D/CR196	8/7	Public	8/7	Soil cut	16	Squatter dwelling	-

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		Feature	Re	ported		Failure		Engility	Congoguence
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0687	Near House No. 251, Open Carpark, Serenity Villa, Tai Po	7NW-B/C562	10/7	Police	10/7 (10:51)	Soil cut	2.5	Others (open carpark)	-
2008/07/0688#	Near feature No. 6SW-C/C598, Siu Sau Village, Tuen Mun	Natural hillside	10/7	Lands D	10/7 (11:15)	Natural hillside	< 1	Others (streamcourse)	-
2008/07/0689	Opposite to Block 2, Royal Knoll, 2 Chi Wing Close, Pak Wo Road, Fanling	3SW-A/CR128	10/7	Public	10/7 (11:00)	Soil cut	3	Open area	-
2008/07/0690	20 m in front of Firemen Training School, Pat Heung	6NE-B/C28	10/7	Public	10/7	Soil cut	< 0.1 (Rockfall)	Road	-
2008/07/0692	Lau Shui Heung Road, Fanling	3SW-B/C345	10/7	Public	Unknown	Soil cut	< 1	Access road	-
2008/07/0693#	Opposite to House No. 5C, Choi Yuen Chuen, Pat Heung, Yuen Long	6NE-B/C81	10/7	DO	9/7	Soil cut	2	Minor footpath	-
2008/07/0694#	Opposite to feature No. 2SE-C/F37, Chuk Yau Road, Ngau Tam Mei	Unregistered at time of failure	10/7	Police	10/7 (08:55)	Soil cut	4	Open area	-
2008/07/0695#	Shek Kong Country Park Barbecue Area 11, near Kap Lung Village, Pat Heung, Yuen Long	6NE-C/CR211	10/7	Police	10/7	Soil cut	5	Catchwater	-

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		Easterna	Re	ported		Failure		Facilita	Consequence
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/07/0696#	Behind House No. 17B, Shek Tong Village, Au Tau, Yuen Long	6NE-A/C58	10/7	Police	10/7 (15:00)	Soil/rock cut	1.5	Open area	-
2008/07/0697	Tuen Mun San Shek Wan Tsuen Golf Centre	Natural hillside	10/7	Public	10/7	Natural hillside	10	Minor footpath	-
2008/07/0701#	Along footpath at House No. 180, Tan Kwai Tsuen, Yuen Long	1.5 m high soil cut slope (1)	2/7	DO	2/7 (12:00)	Soil cut	< 1	Minor footpath	-
2008/07/0702	House No. 3, Tseng Tau Tsuen, Shuen Wan, Tai Po	Unregistered at time of failure	12/7	Police	12/7 (19:30)	Retaining wall (masonry)	0.5 (Sign of distress)	Village house	-
2008/07/0703	Above feature No. 7SW-D/C479, Lion Rock Tunnel Road, Shatin	Natural hillside	8/7	НуD	Unknown	Natural hillside	15	Access road	-
2008/07/0704#	Wai Tau Tsuen Che Tei, Tai Po	7NW-A/C97	10/7	Police	10/7 (09:33)	Soil cut	3	Minor footpath	-
2008/07/0706	Behind House No. 99, Tan Cheung Village, Sai Kung	8SW-A/CR98	12/7	Police	12/7	Soil/rock cut	< 1	Squatter dwelling	-
2008/07/0707	Kwong Shan Tsuen, Hing Fu Street, Tuen Mun	Natural hillside	11/7	Public	11/7 (20:00)	Natural hillside	25	Access road	-
2008/07/0708	Near lamp post No. VE4031, Yau Oi Tsuen, To Fung Shan Road, Tai Wai	Natural hillside	8/7	Public	Unknown	Natural hillside	2	Minor footpath	-

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		Feature	Re	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/07/0712	Lung Ha Wan Road, Sai Kung	12NW-C/C349	12/7	Police	12/7	Soil cut	6	Access road	Access road temporarily closed
2008/07/0713	Near lamp post Nos. VE2642-VE2645, House No. 56A, Sha Po Tsai Village, Tai Po	7NW-D/C94	26/6	Public	16/6	Soil cut	2	Open area	-
2008/07/0714	Southwest of House No. 6H, Sam Long Village, Tseng Lan Shue, Sai Kung	11NE-B/DT32	12/7	Police	12/7 (06:00)	Registered disturbed terrain	12.5	Village house	Residents at the Ground Floor temporarily evacuated
2008/07/0717	House No. 500, Nam Wai Tsuen, Nam Wai Road	1.8 m high masonry wall ⁽¹⁾	12/7	Public	12/7	Retaining wall (masonry)	9	Minor footpath	-
2008/07/0719#	Underneath the Abutment of Tolo Highway at Pun Chun Yuen	Unregistered at time of failure	16/6	DO	7/6	Soil cut	1	Minor footpath	-
2008/07/0720#	Near House No. 246, Tai Po Tsai Upper Village, Clear Water Bay Road, Sai Kung	11NE-B/C603	12/7	Police	12/7	Soil/rock cut	5	Access road	-
2008/07/0721	Behind House No. 3A, Pai Min Kok Upper Village, Tsuen Wan	2.5 m high soil cut slope (1)	15/7	Lands D	15/7	Soil cut	2	Squatter dwelling	1 person and 1 squatter dwelling temporarily evacuated
2008/07/0722#	Access Road to Sha Lo Tung, Tai Po	3SW-D/C151	14/7	Police	Unknown	Soil cut	1.5	Access road	-

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		Feature	Re	ported		Failure		Essilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0723	Access Road to Sha Lo Tung, Tai Po	3SW-D/C156	14/7	Police	Unknown	Soil cut	6	Access road	-
2008/07/0724	Access Road to Sha Lo Tung, Tai Po	7NW-B/C588	14/7	Police	Unknown	Soil cut	15	Access road	-
2008/07/0726#	Above feature No. 7SW-D/C788, Mei Chung Court, Tai Wai	Natural hillside	15/7	DLO	Unknown	Natural hillside	5	Others (slope maintenance access)	-
2008/07/0727	Behind House No. 32, Yau Oi Tsuen, To Fung Shan Road, Shatin	Unregistered at time of failure	15/7	Public	Unknown	Soil cut	1	Squatter dwelling	-
2008/07/0728	Tai Mong Tsai Road, Sai Kung	8SW-A/C247	9/7	HyD	8/7 (14:45)	Soil/rock cut	0.2 (Boulder fall)	Road	-
2008/07/0729	Sai Kung Park	8SW-C/CR36	9/7	Public	9/7 (12:15)	Soil cut	0.1 (Boulder fall)	Nil (debris came to rest on slope)	-
2008/07/0730	Near House No. 66, Tai Wo Tsuen, Tai Po	2.2 m high soil cut slope (1)	15/7	Public	10/7 (10:00)	Soil cut	1	Village house	-
2008/07/0732	22 Kwai Hop Street, Kwai Shing	7SW-C/C62	16/7	Public	16/7 (10:00)	Rock cut	< 0.1 (Rockfall)	Others (carpark)	A vehicle damaged
2008/07/0733#	Access Road to Sha Lo Tung, Tai Po	2.5 m high soil cut slope (1)	14/7	Police	Unknown	Soil cut	1.2	Access road	-

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		Feature	Re	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/07/0734	Opposite to House No. 12, Kap Pin Long Middle Lane, Sai Kung	2 m high soil cut slope (1)	12/7	Public	12/7 (22:30)	Soil cut	1 (Boulder fall)	Road	-
2008/07/0736	Near lamp post No. VD5110, Ta Shek Wu Tsuen, Fan Kam Road	Natural hillside	16/7	Public	12/7 (12:15)	Natural hillside	10	Minor footpath	-
2008/07/0737#	Opposite to feature No. 6SE-D/F247, Tam Kon Shan Road, Tsing Yi	Natural hillside	16/7	DSD	Unknown	Natural hillside	3	Others (drainage channel)	-
2008/07/0738	Opposite to House No. 131, Che Keng Tuk, Sai Kung	< 3 m high soil cut slope (1)	12/7	Public	12/7	Soil cut	2	Open area	-
2008/07/0739	Behind House No. 20, Pak Shek Wo San Tsuen, Clear Water Bay Road, Sai Kung	11NE-B/CR371	12/7	Police	12/7	Retaining wall	10	Open area	-
2008/07/0742	Below Daughter of Mary Help of Christians Sui Ming Catholic Secondary School, Kwai Hop Street, Kwai Shing	7SW-C/C70	18/7	Public	26/6	Soil/rock cut	< 1	Nil (debris came to rest on slope)	-
2008/07/0743	Shun Him Tong, Fanling	3SW-A/C198	30/7	Public	Unknown	Soil cut	11	Others (drainage channel)	-
2008/07/0744#	Near lamp post No. EC988, Tung Kok Wai, Fanling	Natural hillside	15/7	DO	Unknown	Natural hillside	1.5	Access road	-

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		Feature	Re	ported		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0745	Behind House No. 27, Ying Pun Village, Sheung Shui	2SE-D/C359	21/7	Public	17/7 (00:00)	Soil cut	2	Squatter dwelling	-
2008/07/0746	Below lamp post No. V3960, Hung Mo Tam, Pat Heung, Yuen Long	6NE-B/C81	21/7	Public	12/7 (11:00)	Soil cut	3	Minor footpath	-
2008/07/0747	Adjoining feature No. 11NE-B/C799, Clear Water Bay Road, Sai Kung	Natural hillside	18/7	HyD	15/7	Natural hillside	50	Open area	-
2008/07/0748	North of House No. 34, Ying Pun Tsuen, Sheung Shui	2.3 m high soil cut slope (1)	22/7	DO	11/7 (00:00)	Soil cut	2	Squatter dwelling	-
2008/07/0754	Near lamp post Nos. VE3056, VE3051- VE3049, along Access Road, Shek Kwu Lung, Tai Po	2.5 m high soil cut slope (1)	10/7	Public	10/7	Soil cut	1	Minor footpath	-
2008/07/0755	East of 11A Shek Lin Road, Tai Po	7NW-A/CR78	14/7	Lands D	10/7	Retaining wall	9	Open area	-
2008/07/0756	Kwai King Building, Yiu Wing Street, Kwai Chung	1.5 m high soil cut slope (1)	24/7	Public	24/6	Soil cut	< 1	Others (alleyway)	-
2008/07/0761#	Behind House Nos. 119-121, Kam Shan Village, Tai Po	7NW-B/CR615	10/7	DO	10/7 (12:30)	Soil cut	< 1	Minor footpath	-
2008/07/0766	Lower Shing Mun Reservoir	7SW-D/C819	24/7	Public	Unknown	Soil cut	5	Access road	-

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		Faatawa	Re	ported		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0767	Lower Shing Mun Reservoir	7SW-D/C823	24/7	Public	Unknown	Soil/rock cut	20	Access road	-
2008/07/0770	Below Yau On Street, Tai Wai	7SW-D/FR21	21/7	GEO	Unknown	Fill	40	Others (drainage channel)	-
2008/07/0772	30 m North of feature No. 3SE-B/C155, Bride's Pool Road, Tai Po	Natural hillside	30/7	DLO	Unknown	Natural hillside	15	Minor footpath	-
2008/08/0774#	Wing Ming Villa, 118C Castle Peak Road, Tuen Mun	6SW-C/C223	4/8	GEO	Unknown	Soil cut	1.5	Access road	-
2008/08/0779#	Near House No. 13B, Kau Lung Hang Village, Tai Po	1.5 m high masonry wall ⁽¹⁾	21/7	DLO	19/6 (21:10)	Retaining wall (masonry)	2	Open area	-
2008/08/0781	Lot No. 1113 in DD75, Temple at Cheng Uk, Nam Chung Village, Sha Tau Kok	3NE-C/C241	22/7	DO	17/7	Soil cut	1	Temple	-
2008/08/0785	House No. 29, Siu Sau Village, Tuen Mun	6SW-C/C551	8/8	Lands D	Unknown	Soil cut	1	Squatter dwelling	-
2008/08/0789#	East of feature No. 7SW-C/C1309, Shek Lei Hang Village, Kwai Chung	1 m high soil cut slope (1)	8/8	HyD	8/8	Soil cut	2	Minor footpath	-
2008/08/0792	Near House No. 8, Fei Ha Road, Fei Ngo Shan, Sai Kung	Natural hillside	11/8	Public	12/7 (19:30)	Natural hillside	10	Road	-

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		F4	Re	ported		Failure		F117	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/08/0800	Shun Yee San Tsuen, Ma Tso Lung	2.5 m high soil cut slope (1)	25/8	Public	25/8 (00:00)	Soil cut	< 1	Village house	-
2008/08/0801#	Behind House No. 35, Shan Pui Tsuen, Yuen Long	Natural hillside	20/8	DLO	Unknown	Natural hillside	2.5	Open area	-
2008/08/0802	Adjoining feature No. 6NE-A/C64, South of Au Tau Service Reservoir, Yuen Long	Natural hillside	27/8	Lands D	7/6	Natural hillside	15	Nil (debris came to rest on hillside)	-
2008/08/0803#	Near lamp post No. EA 0087, Che Keng Tuk Road, Sai Kung	< 3 m high soil cut slope (1)	27/8	DLO	13/6	Soil cut	3	Access road	-
2008/08/0804#	Near lamp post No. EA 0088, Che Keng Tuk Road, Sai Kung	< 3 m high soil cut slope (1)	27/8	DLO	13/6	Soil cut	2	Access road	-
2008/09/0805#	Above feature No. 7SE-C/C155, Hong Lam Court, Siu Lek Yuen, Shatin	Natural hillside	15/8	DLO	Unknown	Natural hillside	2.4	Minor footpath	-
2008/09/0809	Near lamp post No. EB 0016, Po Toi O Road, Sai Kung	12SW-A/C94	12/9	Police	12/9 (12:45)	Soil cut	0.5 (Rockfall)	Minor footpath	A police car damaged
2008/10/0824	Near House No. 58, Kap Bin Long Village, Sai Kung	Unregistered at time of failure	15/10	DLO	Unknown	Retaining wall	6	Open area	-
2008/10/0825	Muk Min Shan Road, Sai Kung	8SW-A/CR267	13/10	BD	Unknown	Soil cut	3.5	Village house	-

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		Fastima	Re	ported		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/11/0829	South of Kwai Tai Road, Kwai Chung	Natural hillside	11/11	HyD	1/7	Natural hillside	12	Access road	-
2008/11/0831	Hang Tau Tai Po, Hang Tau Road, Kwu Tung, Sheung Shui	2 m high masonry wall (1)	21/10	Public	21/10 (10:00)	Retaining wall (masonry)	< 1	Open area	-
2008/12/0833	Hiram's Highway	7SE-D/FR70	12/12	HyD	11/12 (09:00)	Fill	10	Open area	-
2008/12/0836	End of Mang Kung Wo Road, Sai Kung	7SE-D/C70	12/12	Public	Jun 2008	Soil cut	3	Others (shed)	-
2009/01/0840	Natural slope at 20m East of House No. 1, Ma On Shan Tsuen, Ma On Shan	Natural hillside	19/1 /2009	DO	Unknown	Natural hillside	45	Others (ruined house)	
2009/01/0845	Natural slope immediate above slope No. 6SE-D/F251, Tsuen Wan	Natural hillside	2/1 /2009	НуD	Unknown	Natural hillside	2	Minor footpath	
2009/03/0854#	Opposite to House No. 102, Jade Villa, Kau To, Shatin	Unregistered at time of failure	20/1 /2009	DLO	10/11	Soil cut	2	Others (streamcourse)	-
2009/06/0881	Tsuen Wan Chinese Permanent Cemetery, Section 7	7SW-C/C723	17/6 /2009	Public	6/9	Rock cut	0.02 (Rockfall)	Others (cemetery)	-
LandsD/SK/ 2008/01/0001	House Nos. 74 & 75, Po Lo Che Village, Po Lo Che Road, Sai Kung	< 3 m high soil cut slope (1)	29/1	Lands D	Unknown	Soil cut	4	Squatter dwelling	-

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		F4	Re	ported		Failure		F33	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
Arch SD/SS& SWH/2008/04/ 0001#	Lo Wu Saddle Club, Ho Sheung Heung Sun Tsuen, Sheung Shui	2SE-B/C226	23/4	Arch SD	19/4	Soil cut	1.5	Catchwater	-
LandsD/N/ 2008/04/0001	Behind House No. 57, Po Kat Tsai Village (Tung Kok Wai), Fanling	3SW-B/C196	28/4	Lands D	19/4	Soil cut	2	Squatter dwelling	-
LandsD/ST/ 2008/04/0003	House No. 12K, Ha Wo Che Road, Shatin	7SE-A/DT25	29/4	Lands D	Unknown	Registered disturbed terrain	< 5	Village house	-
LandsD/ST/ 2008/04/0004	Near Access Road to Ten Thousand Buddhus Temple, Shatin	7SW-B/C342	29/4	Lands D	Unknown	Soil cut	< 10	Open area	-
LandsD/ST/ 2008/04/0005	House No. 15, Ma On Shan Tsuen, Shatin	7SE-B/CR124	29/4	Lands D	26/4	Soil cut	< 5	Squatter dwelling	-
LandsD/ST/ 2008/05/0001 [#]	House No. 9A, Ma Niu Village, Shatin	< 3 m high soil cut slope (1)	2/6	Lands D	Unknown	Retaining wall	< 5	Minor footpath	1
Arch SD/Kw-T/ 2008/06/0028 [#]	Kwai Chung Area II IRC	11NW-A/C332	-	Arch SD	10/6 (13:00)	Soil/rock cut	< 1	Nil (debris came to rest on slope)	-
Arch SD/SSP/ 2008/06/0030 [#]	Lai Chi Kok Hospital	11NW-A/C22	-	Arch SD	16/6	Soil cut	3	Building	-
Arch SD/ST-W/ 2008/06/0044	South of Barbecue Area, Rosary Villas, Fotan, Shatin	7SE-A/C126	19/6	Arch SD	Unknown	Soil/rock cut	30	Others (country park BBQ area)	-

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		Factoria	Re	ported		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
Arch SD/TW/ 2008/06/0045 [#]	Behind House Nos.41-43, Approach Beach, Castle Peak Road, Tsuen Wan	6SE-D/FR157	-	Arch SD	7/6	Soil cut	5	Others (alleyway)	-
Arch SD/TP/ 2008/06/0054 [#]	Island House, Yuen Chau Tsai, Tai Po	Natural hillside	-	Arch SD	June 2008	Natural hillside	1	Access road	-
AFCD/ 2008/06/0001	Tai Lam Forest Track - Tai Tong Section	6SW-B/C239	-	AFCD	7/6	Soil cut	40	Access road	-
AFCD/ 2008/06/0002 [#]	Tai Lam Forest Track - Tai Tong Section	6SW-B/C95	-	AFCD	7/6	Soil cut	4	Access road	-
AFCD/ 2008/06/0003	Tai Lam Forest Track - Tsing Fai Tong Section	6SE-A/C42	-	AFCD	7/6	Soil cut	15	Access road	-
AFCD/ 2008/06/0004 [#]	Near feature No. 6SE-B/C27, Tai Lam Forest Track - Lin Fa Shan Section	Natural hillside	-	AFCD	7/6	Natural hillside	5	Access road	-
AFCD/ 2008/06/0005	Near BBQ site No. 1, Tai Tong Natural Trail	Natural hillside	-	AFCD	7/6	Natural hillside	35	Minor footpath	-
AFCD/ 2008/06/0006	Near feature No. 6SW-B/C32 and Pak Kung Au, Tai Lam Forest Track	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/ 2008/06/0031	Fa Sum Hang, Ma On Shan Country Park	Natural hillside	-	AFCD	17/6	Natural hillside	500	Minor footpath	-
AFCD/ 2008/06/0032	Pak Shek Nga Pui, Ma On Shan Country Park	Natural hillside	-	AFCD	17/6	Natural hillside	70 ⁺	Minor footpath	-

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		Factoria	Re	ported		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
AFCD/ 2008/06/0033 [#]	Near Tai Shu Tseng, Ma On Shan Country Park	Natural hillside	-	AFCD	20/6	Natural hillside	4	Minor footpath	-
AFCD/ 2008/06/0034	Tai Po Kau Forest Track, Tai Po Kau Natural Reserve	7NW-D/C235	-	AFCD	7/6	Soil cut	10	Access road	-
HyD/NT/TM/ 2008-03 [#]	Adjacent to Lot No. 403 in DD395, Tin Fu Tsai, Tuen Mun	Natural hillside	-	НуD	Unknown	Natural hillside	5	Open area	-
LandsD/SK/ 2008/06/0003	Fishmen's Village, Pak Sha Wan, Hiram's Highway, Sai Kung	7SE-D/CR141	27/6	Lands D	27/6	Soil/rock cut	5	Squatter dwelling	-
LandsD/ST/ 2008/06/0001	Behind House No. 185, Pai Tau Village, Shatin	7SW-B/R67	16/6	Lands D	7/6	Retaining wall	10	Village house & construction site	-
LandsD/ST/ 2008/06/0002	House No. 157, Pai Tau Village, Shatin	Natural hillside	20/6	Lands D	Unknown	Natural hillside	< 5	Village house	-
LandsD/ST/ 2008/06/0003 [#]	House No. 25, Kwun Yam Shan, Kwun Ping Road, Shatin	7SE-C/C430	20/6	Lands D	Unknown	Soil cut	< 5	Open area	-
LandsD/ST/ 2008/06/0004 [#]	House No. 17, Shek Kwu Lung, Shatin	< 3 m high soil cut slope (1)	20/6	Lands D	Unknown	Soil cut	5	Minor footpath	-
LandsD/ST/ 2008/06/0005	House No. 191, Pai Tau Village, Shatin	< 3 m high soil cut slope (1)	20/6	Lands D	Unknown	Soil cut	< 10	Minor footpath	-
LandsD/ST/ 2008/06/0006	House No. 152, Yau Oi Tsuen, Shatin	< 3 m high soil cut slope (1)	3/7	Lands D	Unknown	Soil cut	< 10	Open area	-

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		Feature	Re	ported		Failure		Engility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
LandsD/TM/ 2008/06/0001	Siu Sau Village, Tuen Mun	6SW-C/C499	30/6	Lands D	Unknown	Soil cut	10	Access road	-
LandsD/TM/ 2008/06/0002 [#]	Tseung Tau Chung Tsuen, Tuen Mun	6SW-A/DT30	30/6	Lands D	Unknown	Registered disturbed terrain	4	Others (streamcourse)	-
LandsD/TM/ 2008/06/0003	270 m North of Hong Fai Road, Tuen Mun	6SW-D/C698	30/6	Lands D	18/6	Soil cut	< 1	Village house	-
LandsD/TP/ 2008/06/0001	Tong Min Tsuen, Lam Tsuen Valley, Tai Po	7NW-A/C182	25/6	Lands D	Unknown	Soil cut	10	Open area	-
LandsD/TW/ 2008/06/0001 [#]	North of House No. 22, Pai Min Kok Village, Sham Tseng	< 3 m high soil cut slope (1)	18/6	Lands D	Unknown	Soil cut	2	Others (shelter)	-
WSD/2008/ 6/8/NTW	Yau Kam Tau No. 2 Fresh Water Service Reservoir	6SE-D/C242	28/6	WSD	28/6	Soil cut	6	Access road	-
WSD/2008/ 6/9/NTW	Shing Mun Reservoir	7SW-C/C940	9/6	WSD	9/6	Soil cut	9	Access road	-
WSD/2008/ 6/11/NTW	Adjoining WSD Access Road NT26 & NT31, Tai Lam Country Park, Tuen Mun	6SW-D/C466	8/6	WSD	8/6	Soil/rock cut	3 (Rockfall)	Access road	-
WSD/2008/ 6/12/NTW	Tuen Mun East No. 1 Fresh Water Service Reservoir Access Road	6SW-A/C266	8/6	WSD	8/6	Soil/rock cut	15	Access road	Access road temporarily blocked
WSD/2008/ 6/29/NTE	Lower Shing Mun Pumping Station and Supply Basin	7SW-D/C697	7/6	WSD	7/6	Soil cut	15	Others (kiosk)	-

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		Feature	Re	ported		Failure		Facilita	Consequence
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
WSD/2008/ 6/50/NTW [#]	Shing Mun Catchwater adjoining Catchwater to the East of Lot No. 1240 in DD360	6SE-B/CR186	10/6	WSD	10/6	Soil cut	3	Catchwater	-
WSD/2008/ 6/51/NTW	Shing Mun catchwater near overflow weir 49, Tsuen Wan	6SE-B/CR229	10/6	WSD	10/6	Soil/rock cut	3.3	Catchwater	-
WSD/2008/ 6/52/NTW [#]	Tai Lam Chung Catchwater (Sections H & I) near So Kwun Wat Road, Tuen Mun	6SW-D/C112	11/6	WSD	11/6	Soil/rock cut	3	Access road	-
WSD/2008/ 6/54/NTW [#]	Chainage 1530 - 1750, Tai Lam Chung Catchwater (Sections H & I)	6SW-C/C70	25/6	WSD	25/6	Soil/rock cut	2.4	Access road	-
WSD/2008/ 6/55/NTW	Adjoining WSD Access Road NT41, Tsuen Wan	7SW-C/C832	7/6	WSD	7/6	Soil/rock cut	3	Access road	Access road temporarily closed
WSD/2008/ 6/56/NTW [#]	Adjoining WSD Access Road NT31, Tai Lam Country Park, Tai Lam	6SW-B/C127	8/6	WSD	8/6 (14:00)	Soil/rock cut	3	Access road	-
WSD/2008/ 6/57/NTW [#]	Adjoining WSD Access Road NT31, Siu Lam	6SE-A/C93	8/6	WSD	8/6	Soil cut	1	Access road	-
WSD/2008/ 6/58/NTW [#]	Abutting WSD Access Road NT31, Tuen Mun	6SE-A/C239	8/6	WSD	8/6 (14:29)	Soil cut	1.8	Access road	-

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		Feature	Re	ported		Failure		Fasilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/2008/ 6/59/NTW [#]	Chainage 5960 - 6090, Tai Lam Chung Catchwater Section C	6NE-D/CR83	8/6	WSD	8/6 (14:41)	Soil cut	3	Catchwater	-
WSD/2008/ 6/62/NTE	Adjoining WSD Access Road NT14, Hok Tau Reservoir, Fanling	3SW-B/C179	9/6	WSD	8/6 (17:30)	Soil/rock cut	9	Access road	Access road temporarily closed
WSD/2008/ 6/63/NTE	Adjoining WSD Access Road NT14, Hok Tau Reservoir, Fanling	3SW-B/C171	9/6	WSD	8/6 (17:30)	Soil cut	27	Access road	Access road temporarily closed
WSD/2008/ 6/68/NTE	Shing Mun Catchwater, Shek Lek Hang Chuen, Kwai Chung	7SW-C/C980	10/6	WSD	10/6	Soil cut	5	Catchwater	-
WSD/2008/ 6/70/NTE [#]	Access Road To Intake MA, Sai Kung	8SW-A/C170	11/6	WSD	11/6	Soil/rock cut	2.7	Nil (debris came to rest on slope)	-
WSD/2008/ 6/71/NTE [#]	Access Road adjoining Po Lo Che Road	8SW-A/CR111	17/6	WSD	17/6	Soil/rock cut	1	Nil (debris came to rest on slope)	-
WSD/2008/ 6/74/NTE [#]	Adjoining Access Road to Sha Lo Tung	7NW-B/C588	11/6	WSD	11/6	Soil cut	2	Access road	-
WSD/2008/ 6/75/NTE [#]	Partly within Lot No. 394 in DD186 & partly abutting Tung Lo Wan Hill Road	7SW-D/C214	13/6	WSD	13/6	Soil cut	4.5	Catchwater	-

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		Feature	Re	ported		Failure		Fasilita.	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/2008/ 6/76/NTE [#]	Catchwater South of Scout Centre, Tung Tsz	3SE-C/CR86	12/6	WSD	12/6	Soil cut	1.5	Catchwater	-
WSD/2008/ 6/79/NTE	Chainage 4900, Beacon Hill Catchwater adjoining Catchwater within the Lion Rock Country Park	7SW-D/C561	13/6	WSD	13/6	Soil cut	7.5	Catchwater	-
WSD/2008/ 6/80/NTE [#]	Chainage 5200-5400, Lion Rock Country Park Catchwater, Shatin	7SW-D/C557	13/6	WSD	13/6	Soil/rock cut	4.5	Catchwater	-
AFCD/ 2008/07/0001	Shing Mun Forest Track, Shing Mun Country Park	7SW-B/C437	-	AFCD	16/7	Soil/rock cut	8	Access road	-
HyD/NT/TP/ 03/06/2008 [#]	Tai Po Road - Tai Po Kau	Natural hillside	-	HyD	2/7	Natural hillside	1	Open area	-
LandsD/ST/ 2008/07/0001 [#]	Sha Tin Tau New Village, Shatin	7SE-C/C281	8/7	Lands D	Unknown	Soil cut	< 5	Access road	-
LandsD/ST/ 2008/07/0002 [#]	Ma On Shan Tsuen Road, Ma On Shan Tsuen, Shatin	7NE-D/C175	15/7	Lands D	Unknown	Soil cut	< 5	Access road	-
LandsD/ST/ 2008/07/0003	House No. 22K, Kwai Tei Village, Shatin, NT	7SW-B/CR174	15/7	Lands D	Unknown	Soil cut	6	Village house	-
LandsD/ST/ 2008/07/0004 [#]	North side of Lower Shing Mun Reservoir	7SW-D/C811	8/7	Lands D	Unknown	Soil/rock cut	< 5	Access road	-
LandsD/TM/ 2008/07/001 [#]	Near House No.41, Siu Lam, Tuen Mun	6SW-D/CR668	-	Lands D	Unknown	Soil cut	< 3	Access road	-

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		Feature	Re	ported		Failure		Facilita	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
LandsD/TW/ 2008/07/0001	House No. 19, Pai Min Kok Village, Sham Tseng, Tsuen Wan	6SE-C/C597	-	Lands D	Unknown	Soil cut	< 1	Village house	-
LandsD/YL/ 2008/07/0001#	Near feature No. 6NE-C/C80, Shung Shan San Tsuen, Yuen Long	< 3 m high fill embankment of stream (1)	-	Lands D	Unknown	Fill	< 3	Others (streamcourse)	1
WSD/2008/ 7/1/NTW [#]	Near feature No. 6NE-D/C38, Tai Lam Chung Catchwater, Tuen Mun	1.5 m high masonry wall	8/7	WSD	8/7	Retaining wall	1.8	Catchwater	-
WSD/2008/ 7/3/NTW [#]	Tai Lam Chung Catchwater (Sections H & I), So Kwun Wat Road, Tuen Mun	6SW-D/C113	-	WSD	10/7	Soil cut	4	Access road	-
WSD/2008/ 7/4/NTW [#]	Chainage 4260 - 4360, Tai Lam Chung Catchwater (Section H & I)	6SW-C/CR263	-	WSD	10/7	Rock cut	4	Catchwater	-
WSD/2008/ 7/6/NTW [#]	Shing Mun Catchwater adjoining catchwater to the East of Lot No. 1240 in DD360	6SE-B/CR186	-	WSD	11/7	Soil cut	3	Catchwater	-
WSD/2008/ 7/8/NTW [#]	Adjoining WSD Access Road NT41, Tsuen Wan	7SW-C/C832	-	WSD	11/7	Soil/rock cut	1	Access road	-
WSD/2008/ 7/13/NTW	Shing Mun Catchwater between overflow weirs 48 & 49, Tsuen Wan	6SE-B/CR231	-	WSD	11/7	Retaining wall	1	Catchwater	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 38 of 39)

		F	Re	ported		Failure		F 1174	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
Arch SD/TM-E/ 2008/08/0001 [#]	Access Road in Tai Lam Correctional Institute, Tai Lam	6SW-D/C460	-	Arch SD	30/8	Soil cut	1	Access road	-
Arch SD/TM-E/ 2008/08/0002	Near feature No. 6SW-D/C433, Tai Lam Correctional Institute, Tai Lam	Natural hillside	-	Arch SD	3/9	Natural hillside	1	Building	-
LandsD/ST/ 2008/08/001 [#]	Ma Ying Path, Shatin	7SE-A/R40	13/8	Lands D	Unknown	Retaining wall	< 5	Access road	-
WSD/2008/ 8/1/NTE [#]	Kei Ling Ha Catchwater, Southwest of Yung Shue O	8NW-C/CR84	-	WSD	11/8	Soil cut	0 (sign of distress)	Catchwater	-
WSD/2008/ 8/2/NTE	Adjoining WSD Access Road NT14, Hok Tau Reservoir, Fanling	3SW-B/C169	27/8	WSD	27/8	Soil/rock cut	2 (Rockfall)	Access road	-
Arch SD/TM-E/ 2008/09/0001 [#]	Perowne Barracks, Tuen Mun	6SW-C/C133	5/9	Arch SD	5/9 (15:00)	Soil/rock cut	< 1	Nil (debris came to rest on slope)	-
WSD/2008/ 9/1/NTE	Near Tai Po Raw Water Pumping Station	7NW-A/C20	-	WSD	8/9	Soil cut	28	Others (water supplies)	Water supplies disrupted
WSD/2008/ 9/3/NTE	Lower Shing Mun Road, Near the Dam	7SW-D/F20	-	WSD	10/9	Fill	13	Others (drainage channel)	-

Table B4 - List of Landslide Incidents in New Territories (Sheet 39 of 39)

		F4	Re	ported		Failure		Facility	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
WSD/2008/ 11/2/NTE	Pak Kong Treatment, Sai Kung	7SE-D/C69	-	WSD	4/11	Soil cut	9.9	Open area	-

Legend:

- #
- +
- Very minor landslide with negligible consequence (see Section 1 of the report for definition). Failure volume estimated by GEO's landslide investigation consultants.

 The slope feature does not comply with the slope registration criteria given in GEO Circular No. 15 (GEO, 2004b). (1)

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 1 of 36)

		Faatawa	Repo	orted		Failure		Facilita	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/01/0077	Luk Keng Village, Lantau Island	10NW-B/DT1	30/1	Lands D	Unknown	Registered disturbed terrain	5	Squatter dwelling	-
2008/04/0094	Behind House Nos. 1-2, Wai Tsai San Tsuen, Peng Chau	10SW-B/C66	21/4	Public	Unknown	Soil cut	1.5	Squatter dwelling	-
2008/04/0095	Tei Tong Tsai, Fung Wong Shan, Lantau Island	9SE-C/C27	21/4	GEO	20/4 (00:00)	Soil/rock cut	4	Construction site	-
2008/04/0098#	Behind WSD's Shui Hau Pump House, Lantau Island	13NE-A/C255	22/4	DLO	Unknown	Soil cut	5+	Others (country park)	-
2008/06/0132	Keung Shan Road near Tai O Road, Lantau Island (Landslide KS1)	Natural hillside	7/6	TD	7/6	Natural hillside	80+	Road	All 2 lanes of Tai O Road temporarily closed
2008/06/0136	Near Area 18 Graveyard, Tung Chung Road, Lantau Island	Natural hillside	7/6	Public	7/6	Natural hillside	1120 [§] [7 source areas: 80-300]	Road	All 2 lanes of Tung Chung Road temporarily closed
2008/06/0162	5A Wo Shun Lane, Cheung Chau	Natural hillside	7/6	Police	Unknown	Natural hillside	2	Building	-
2008/06/0149	96 Pak She San Tsuen, Cheung Chau	Unregistered at the time of failure	7/6	Public	7/6(09:30)	Retaining wall	10	Open area	1 nearby village house temporarily evacuated
2008/06/0169	Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	7/6	Public	7/6 (07:00)	Natural hillside	490 [§] [3 source areas: 10-260]	Access road	Access road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 2 of 36)

		Feature	Rej	ported		Failure		Facility	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Affected	Consequence
2008/06/0184	Adjacent to House No. 6, Wang Tong Village, Mui Wo, Lantau Island	Natural hillside	7/6	Public	7/6 (06:00)	Natural hillside	200	Minor footpath	-
2008/06/0186	Fa Wah Court near Upper Keung Shan Road, Lantau Island	Natural hillside	7/6	Public	7/6	Natural hillside	400 [§] [8 source areas: 15-100]	Squatter dwelling	-
2008/06/0201	Tai O Jockey Club Clinic, Tai O, Lantau Island	9SW-C/C21	7/6	ICC	7/6 (15:09)	Soil/rock cut	5	Access road	-
2008/06/0204	Behind 2B Luk Wu Tsuen, Keung Shan Road, Lantau Island	Unregistered at the time of failure	7/6	Public	7/6	Retaining wall	10	Village house	Kitchen of a village house damaged
2008/06/0208	Keung Shan Road near Sham Wat Road, Lantau Island (Landslide KS2)	Natural hillside	7/6	Public	7/6 (15:02)	Natural hillside	3250 [§] [4 source areas: 50-3000]	Road	All 2 lanes of Keung Shan Road temporarily closed
2008/06/0214	39 Luk Tei Tong Village, Mui Wo, Lantau Island	10SW-C/CR353	7/6	ICC	7/6	Soil cut	1.2	Village house	-
2008/06/0222	O Chai, Yung Shue Wan, Lamma Island	2.5 m high soil cut slope (1)	7/6	Public	7/6	Soil cut	2	Minor footpath	Minor footpath temporarily closed
2008/06/0226	Between Tai Wai San Tsuen and Tai Lang Tsuen, Lantau Island	2.8 m high soil cut slope (1)	7/6	Public	7/6	Soil cut	4+	Minor footpath	Minor footpath temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 3 of 36)

		F4	Repo	orted		Failure		F314	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0232	16-17 Sheung Leung Pei Village, Tung Chung, Lantau Island	Natural hillside	7/6	FSD	7/6	Natural hillside	180	Squatter dwelling	4 squatter dwellings temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department
2008/06/0238	Behind House Nos. 10-12, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 3)	Natural hillside	7/6	ICC	7/6	Natural hillside	130 ⁺	Squatter dwelling	3 squatter dwellings temporarily evacuated
2008/06/0248	House No. 5A, Shui Hau, South Lantau Road, Lantau Island	13NE-A/F148	7/6	Police	7/6 (18:18)	Fill	10	Open area	1 nearby village house temporarily evacuated
2008/06/0255	Near Lamp Post No. V7685 between Round Table 1st Village and 2nd Village, Cheung Chau	14NW-D/C370	8/6 (8:52)	Police	7/6 (09:30)	Soil cut	2	Access road	-
2008/06/0261	Behind House Nos. 1A, 1B, 1C, 3 & 6, Nam Chung Village, Tai O, Lantau Island (Landslide NC7)	Natural hillside	8/6	DO	8/6 (10:54)	Natural hillside	130 [§] [2 source areas: 35 & 95]	Village house	5 village houses temporarily evacuated
2008/06/0262	Tai Long Wan Tsuen, Wang Pui Road, Shek Pik, Lantau Island	Natural hillside	8/6	HyD	8/6 (12:00)	Natural hillside	1500	Road	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 4 of 36)

		F .	Repo	orted		Failure		F 114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0273	Ham Tin Tsuen, Chi Ma Wan, Lantau Island	14NW-A/C126	8/6	Public	7/6	Soil cut	5	Minor footpath	-
2008/06/0275	6E Tung Tai San Tsuen, Cheung Chau	14NW-D/C409	8/6	FEHD	7/6 (10:00)	Soil cut	1	Open area	-
2008/06/0276	Near Lamp Post No. VA7415, Kwun Yam Wan Road, Cheung Chau	1.9 m high soil cut slope (1)	8/6	FEHD	7/6 (10:00)	Soil cut	1	Pedestrian pavement	-
2008/06/0283	1 Kwai Wan, Cheung Chau	14NW-D/C72	8/6	ICC	8/6 (00:00)	Soil/rock cut	0.1 (Rockfall)	Building and minor footpath	Minor footpath temporarily closed
2008/06/0288	9 O Tsai Tsuen, Yung Shue Wan, Lamma Island	Unregistered at the time of failure	8/6	Public	7/6 (12:00)	Soil cut	40	Pedestrian pavement	-
2008/06/0291	13 Sham Shek Tsuen, Lantau Island	Natural hillside	8/6	Public	Unknown	Natural hillside	1 (Boulder fall)	Minor footpath	-
2008/06/0321	Hei Ling Chau Addiction Treatment Centre	Natural hillside	11/6	CSD	7/6	Natural hillside	1	Access road	-
2008/06/0323	Hei Ling Chau Addiction Treatment Centre	10SW-D/F17	11/6	CSD	7/6	Fill	150	Access road	-
2008/06/0324	Hei Ling Chau Addiction Treatment Centre	10SW-D/F19	11/6	CSD	7/6	Fill	3	Open area	-
2008/06/0325	Hei Ling Chau Addiction Treatment Centre	10SW-D/F57	11/6	CSD	7/6	Fill	250	Building	-
2008/06/0327#	Hei Ling Chau Addiction Treatment Centre	10SW-D/F64	11/6	CSD	7/6	Fill	5	Access road	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 5 of 36)

		Б. /	Repo	orted		Failure		E T	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0344	Above Yu Tung Road (Catchment No. 30), Tung Chung, Lantau Island	Natural hillside	10/6	HyD	7/6 (9:00)	Natural hillside	2870 [§] [9 source areas: 30-2350]	Road	All 3 lanes of Yu Tung Road temporarily closed
2008/06/0346	Above North Lantau Highway (Catchment No. 15), Tung Chung, Lantau Island	Natural hillside	10/6	Public	7/6 (08:30)	Natural hillside	824 [§] [9 source areas: 3-310]	Road	All 5 lanes of North Lantau Highway temporarily closed
2008/06/0348	House No. 29, Yung Shue Long New Village, Lamma Island	14NE-B/C12	11/6	ICC	10/6	Soil/rock cut	3	Village house	-
2008/06/0360	52 Luk Tei Tong Village, Mui Wo, Lantau Island	10SW-C/C89	11/6	Public	7/6	Soil cut	< 1	Village house and others (alleyway)	Alleyway temporarily closed
2008/06/0376A	Behind Kwan Tai Temple, Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	150 ⁺	Squatter dwelling	4 squatter dwellings temporarily
2008/06/0376B	Behind Kwan Tai Temple, Kat Hing Back Street, Tai O, Lantau Island	9SW-D/CR177	10/6	Public	7/6 (07:00)	Soil cut	35 ⁺	Squatter dwelling	evacuated and Category 1 NDC recommendation subsequently made to Lands Department
2008/06/0377	Hung Shing Temple, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	40	Building	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 6 of 36)

		F	Repo	orted		Failure		Facilitae	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0378	Behind House No. 1B, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	10	Squatter dwelling	1 squatter dwelling temporarily evacuated
2008/06/0379	Behind San Kok Monastery, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	700 ⁺	Open area	-
2008/06/0380A	Behind House No. 73, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	100 ⁺	Others (verge at slope toe)	A section of surface drainage channel along the verge damaged
2008/06/0380B	Behind House No. 73, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	50 ⁺	Open area	-
2008/06/0381	Behind Telephone Exchange and Microwave Station, Shek Tsai Po Street, Tai O, Lantau Island	9SW-C/C1	10/6	Public	7/6 (07:00)	Soil cut	2000 ⁺	Abandoned structure	-
2008/06/0382	Behind House No. 1B, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH9A)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	1650 [§] [5 source areas: 200-600]	Village house	1 village house temporarily evacuated
2008/06/0383	Above Feature No. 9SW-D/C199, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 1)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	80 ⁺	Open area	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 7 of 36)

		F (Repo	orted		Failure		F99	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0385	Behind House No. 7 and Tin Hau Temple, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 2)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	300 [§] [5 source areas: 25-100]	Village house	1 village house and Tin Hau Temple temporarily evacuated
2008/06/0388	Above Feature No. 9SW-D/C195 and behind House Nos. 13-16, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 4)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	155 [§] [2 source areas: 75 & 80]	Village house	4 village houses temporarily evacuated
2008/06/0389	Behind House No. 18, Tai O San Tsuen, Tai O, Lantau Island (Trail No. 5)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	160 ⁺	Open area	-
2008/06/0390	To the Southeast of Feature No. 9SW-D/F82, Tai O Cemetery, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	5	Others (country park)	-
2008/06/0391	Below Feature No. 9SW-D/DT3, Tai O Cemetery, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	20	Others (country park)	-
2008/06/0393	Tai O Cemetery, Tai O, Lantau Island	9SW-D/F79	10/6	Public	7/6 (07:00)	Fill	30	Others (cemetery)	-
2008/06/0394	Below Feature No. 9SW-D/F78, Tai O Cemetery, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	8	Others (country park)	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 8 of 36)

		F (Repo	orted		Failure		F33	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0395	Tai O Cemetery, Tai O, Lantau Island	9SW-D/DT1	10/6	Public	7/6 (07:00)	Registered disturbed terrain	8	Others (country park)	-
2008/06/0396	Behind House No. 1, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH9)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	1000 [§] [3 source areas: 200-750]	Village house	1 village house temporarily evacuated
2008/06/0397	2 Hang Mei Tsuen, Tai O, Lantau Island	Natural hillside	13/6	DO	7/6 (07:00)	Natural hillside	3	Village house	1 village house temporarily evacuated
2008/06/0398	40 Kat Hing Back Street, Tai O, Lantau Island	< 3 m high soil cut slope (1)	14/6	GEO	7/6 (07:00)	Soil cut	1	Squatter dwelling	1 squatter dwelling temporarily evacuated
2008/06/0399	29 Ngong Ping Village, Ngong Ping, Lantau Island	Natural hillside	12/6	Public	7/6 (07:00)	Natural hillside	3	Minor footpath	-
2008/06/0405	Behind 9 Nam Chung Tsuen, Tai O, Lantau Island	Unregistered at the time of failure	13/6	Public	7/6 (06:30)	Soil/rock cut	< 1	Village house	-
2008/06/0409	54 Ngong Ping Village, Ngong Ping, Lantau Island	9SE-C/C89	9/6	Police	7/6	Soil/rock cut	10	Squatter dwelling	-
2008/06/0410	Between House Nos. 4 and 5, Tung Hang Mei Village, Mui Wo, Lantau Island	Natural hillside	11/6	Public	7/6	Natural hillside	200	Minor footpath	-
2008/06/0417	Adjoining Footpath to 9 Tung Hung Mei Village, Mui Wo, Lantau Island	Natural hillside	10/6	Public	7/6 (09:00)	Natural hillside	17.5	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 9 of 36)

		Fraterio	Repo	orted		Failure		F 33	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0429	Behind Clear View Court, Discovery Bay, Lantau Island	Natural hillside	12/6	GEO	7/6	Natural hillside	400	Open area	-
2008/06/0430	Tai O Fire Station, Tai O, Lantau Island	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	2	Open area	-
2008/06/0433	Sham Wat Road, Lantau Island	9SW-D/C50	11/6	HyD	9/6	Soil/rock cut	100	Road	Sham Wat Road temporarily closed
2008/06/0435	Above Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island (Landslide SW4)	Natural hillside	11/6	HyD	9/6	Natural hillside	675 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0436#	Sha Lo Wan Pier near Lamp Post No. H3245, Lantau Island	Natural hillside	14/6	CAS	Unknown	Natural hillside	5	Access road	-
2008/06/0437	Old Tai O Police Station, Shek Tsai Po Street, Tai O, Lantau Island	9SW-C/F6	13/6	DLO	13/6	Fill	1	Access road	-
2008/06/0439	Sham Wat Road, Lantau Island (Landslide SW8)	Natural hillside	11/6	HyD	9/6	Natural hillside	300 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0440	Lower Sham Wat Road, Lantau Island (Landslide SW12A)	Natural hillside	11/6	HyD	9/6	Natural hillside	150 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0441	Lower Sham Wat Road, Lantau Island (Landslide SW12)	Natural hillside	11/6	HyD	9/6	Natural hillside	100 ⁺	Road	Sham Wat Road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 10 of 36)

		F	Repo	orted		Failure		F. 33	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0442	Above Keung Shan Road, Lantau Island	13NW-B/C221	11/6	HyD	9/6	Soil/rock cut	100	Road	1 of 2 lanes of Keung Shan Road temporarily closed
2008/06/0443	Yi O, Lantau Island	Natural hillside	13/6	WSD	9/6	Natural hillside	500	Others (water pipe)	Water pipes to Tai O broken
2008/06/0445	Behind House No. 100B, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	11/6	Public	7/6 (07:00)	Natural hillside	120	Squatter dwelling	-
2008/06/0447	Tsz Hing Monastery, Lantau Island	13NW-B/C351	15/6	DO	14/6 (17:45)	Soil/rock cut	400	Building	-
2008/06/0448	Hei Ling Chau Addiction Treatment Centre	Natural hillside	13/6	CSD	7/6	Natural hillside	80	Open area	Paved open area cracked
2008/06/0454	Keung Shan Road near Sham Wat Road, Lantau Island	13NW-B/C77	10/6	HyD	7/6	Soil cut	2.3	Road	-
2008/06/0456#	Keung Shan Road near Sham Wat Road, Lantau Island	13NW-B/C95	10/6	HyD	7/6	Soil/rock cut	< 1	Road	-
2008/06/0459#	West of Telephone Exchange, Tong Fuk, Lantau Island	13NE-A/C33	12/6	DO	7/6 (08:00)	Soil cut	3	Open area	-
2008/06/0460	Adjacent to Feature No. 10SW-B/C10, Tai Yat San Tsuen, Peng Chau	Natural hillside	10/6	ICC	Unknown	Natural hillside	40	Open area	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 11 of 36)

		F (Repo	orted		Failure		F312	Consequence
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	
2008/06/0462	Chi Ma Wan Road near Feature No. 14NW-A/C73, Chi Ma Wan, Lantau Island	< 3 m high soil cut slope (1)	10/6	Public	7/6	Soil cut	2	Access road	-
2008/06/0463	Near House No. 25, Chi Ma Wan Road, Chi Ma Wan, Lantau Island	Unregistered at the time of failure	10/6	Public	7/6	Soil cut	2	Access road	-
2008/06/0465	Chi Ma Wan Road near Feature No. 14NW-A/C58, Chi Ma Wan, Lantau Island	Unregistered at the time of failure	10/6	Public	7/6	Soil cut	3	Access road	-
2008/06/0466	Opposite House Nos. 29-30, Chung Chai Tsuen, Peng Chau	10SW-B/CR318	12/6	Public	7/6	Soil cut	3	Open area	-
2008/06/0470	20 Tung Wan Tau near Wylie Estate, Lantau Island	2.7 m high masonry wall ⁽¹⁾	11/6	Public	7/6	Retaining wall	1	Building	-
2008/06/0471	Pa Mei, Tung Chung, Lantau Island	Natural hillside	16/6	Public	7/6	Natural hillside	300 ⁺	Open area	-
2008/06/0472	Dei Po Village near Chek Lap Kok Village, Tung Chung, Lantau Island	Natural hillside	16/6	Public	7/6	Natural hillside	100 [§] [2 source areas: 35 & 65]	Others (drainage culvert)	Drainage culvert blocked by landslide debris
2008/06/0473	Chek Lap Kok Village, Tung Chung, Lantau Island	Natural hillside	16/6	Public	7/6	Natural hillside	105 [§] [2 source areas: 50 & 55]	Road	-
2008/06/0474	Tai O, Lantau Island	13NW-B/C42	13/6	GEO	Unknown	Soil/rock cut	2	Squatter dwelling	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 12 of 36)

		Г. (Repo	orted		Failure		F '11'4	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0475	Behind House No. 37, Upper Keung Shan Tsuen, Tai O, Lantau Island	Unregistered at the time of failure	16/6	DO	7/6 (07:00)	Soil cut	< 1	Squatter dwelling	-
2008/06/0476	Opposite Lamp Post No. VA1215, Upper Keung Shan Road, Lantau Island	9SW-D/CR78	16/6	DO	7/6 (07:00)	Soil cut	1.5	Access road	-
2008/06/0477	Behind Luk Shan Ling Monastery, Tai O, Lantau Island	Natural hillside	16/6	DO	16/6	Natural hillside	15	Others (country park)	-
2008/06/0479	Behind House Nos. 19 and 20, Wang Hang Tsuen, Tai O, Lantau Island (Landslide WH10)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	400+	Nil (Landslide debris deposited on the slope)	-
2008/06/0481	Above House Nos. 23, 24, 27 and 28, Nam Chung Tsuen, Tai O, Lantau Island (Landslide NC7A)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	230 ⁺	Squatter dwelling and village house	5 squatter dwellings and two village houses temporarily evacuated
2008/06/0483	Above House No. 26, Leung Uk Tsuen, Tai O, Lantau Island (Landslide NC6)	Natural hillside	10/6	Public	7/6 (07:00)	Natural hillside	320 [§] [3 source areas: 20-150]	Minor footpath	Minor footpath temporarily closed
2008/06/0485	31 Yung Shue Long New Village, Lamma Island	14NE-B/C166	16/6	BD	Unknown	Soil cut	3	Others (storage hut)	-
2008/06/0490	Tai Shan Tung Village, Lamma Island	< 3 m high soil cut slope (1)	16/6	ICC	Unknown	Soil cut	< 1	Squatter dwelling	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 13 of 36)

		Г	Repo	orted		Failure		E 114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0491	Keung Shan Road, Lantau Island	13NW-B/C328	10/6	HyD	7/6	Soil/rock cut	35	Road	1 of 2 lanes of Keung Shan Road temporarily closed
2008/06/0492	Keung Shan Road, Lantau Island	13NW-B/C337	10/6	HyD	7/6	Soil/rock cut	30	Road	1 of 2 lanes of Keung Shan Road temporarily closed
2008/06/0493#	Keung Shan Road, Lantau Island	13NW-B/C336	10/6	HyD	7/6	Soil cut	3	Others (verge at slope toe)	-
2008/06/0494	Adjacent to Feature No. 13NW-B/C319, Keung Shan Road, Lantau Island (Landslide KS3B)	Natural hillside	10/6	HyD	7/6	Natural hillside	100	Road	-
2008/06/0497#	Keung Shan Road, Lantau Island	13NW-B/C335	10/6	HyD	7/6	Soil/rock cut	1.5	Road	-
2008/06/0499	Adjacent to Kwun Yam Temple near Junction of Keung Shan Road and Tai O Road, Lantau Island (Landslide KS3)	Natural hillside	10/6	НуD	7/6	Natural hillside	2200 [§] [9 source areas: 30-725]	Road	All 2 lanes of Keung Shan Road temporarily closed
2008/06/0500	Above Feature No. 13NW-B/C54, Tai O Road, Lantau Island	Natural hillside	10/6	HyD	7/6	Natural hillside	200	Road	All 2 lanes of Tai O Road temporarily closed
2008/06/0501	Above Tai O Road, Lantau Island	Natural hillside	10/6	HyD	7/6	Natural hillside	300 ⁺	Road	1 of 2 lanes of Tai O Road temporarily closed

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		Easture	Repo	orted		Failure		Facilita.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0502	Tai O Road, Lantau Island	13NW-B/C52	10/6	HyD	7/6	Soil/rock cut	1 (Rockfall)	Road	-
2008/06/0508	To the Northwest of Pa Mei, Lantau Island	Natural hillside	17/6	GEO	17/6	Natural hillside	300 ⁺ (significant signs of distress)	Nil	-
2008/06/0511	Pa Mei Village, Tung Chung, Lantau Island	Natural hillside	18/6	GEO	18/6	Natural hillside	50	Others (verge at slope toe)	-
2008/06/0516	Above Kau Shat Wan Government Explosives Depot, Lantau Island	Natural hillside	16/6	GEO	7/6	Natural hillside	500	Nil (Landslide debris deposited on the slope)	-
2008/06/0521	6 Sham Shek Tsuen, Lantau Island	Natural hillside	16/6	Public	7/6 (07:00)	Natural hillside	2	Village house	-
2008/06/0531	Ngong Ping Road, Ngong Ping, Lantau Island	9SE-C/C22	10/6	HyD	9/6	Soil/rock cut	4	Road	1 of 2 lanes of Ngong Ping Road temporarily closed
2008/06/0532	Above Access Road to Yin Hing Monastery, Lantau Island	Natural hillside	18/6	Public	7/6 (07:00)	Natural hillside	10	Access road	-
2008/06/0548	Above House No. 97A, Shek Tsai Po Street, Tai O, Lantau Island	Natural hillside	15/6	GEO	Unknown	Natural hillside	7	Squatter dwelling	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 15 of 36)

		F4	Repo	orted		Failure		F374	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0550	Behind CLP Station above Feature No. 9SW-C/C22, Tai O, Lantau Island	Natural hillside	15/6	GEO	7/6 (07:00)	Natural hillside	3	Open area	-
2008/06/0551	Kat Hing Back Street, Tai O, Lantau Island	9SW-D/C182	22/6	GEO	7/6 (08:00)	Soil/rock cut	20	Others (alleyway)	-
2008/06/0552	Kat Hing Back Street, Tai O, Lantau Island	9SW-D/C180	22/6	GEO	7/6 (08:00)	Soil cut	18	Open area	-
2008/06/0553	26 Sham Shek Tsuen, Sham Wat, Lantau Island	Natural hillside	12/6	GEO	7/6	Natural hillside	100	Squatter dwelling	-
2008/06/0554	Sham Wat Road, Lantau Island	9SW-D/C30	11/6	НуД	9/6	Soil cut	6	Road	-
2008/06/0555	Above Feature No. 9SW-D/C48, Sham Wat Road, Lantau Island (Landslide SW8A)	Natural hillside	11/6	HyD	9/6	Natural hillside	400 ⁺	Road	Sham Wat Road temporarily closed
2008/06/0556	Sham Wat Road, Lantau Island	9SW-D/C249	11/6	HyD	9/6	Soil/rock cut	10	Road	-
2008/06/0557A [#]	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	< 1+	Minor footpath	-
2008/06/0557B [#]	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	< 1+	Minor footpath	-
2008/06/0557C [#]	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	< 1+	Minor footpath	-
2008/06/0557D	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	15 ⁺	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 16 of 36)

		Fraterio	Repo	orted		Failure		F324	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0557E [#]	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	2+	Minor footpath	-
2008/06/0557F [#]	Above Keung Shan Road, Lantau Island	Natural hillside	20/6	DO	Unknown	Natural hillside	5+	Minor footpath	-
2008/06/0558	Above Lantau Island Trial, Lantau Island	Natural hillside	19/6	DO	Unknown	Natural hillside	140	Minor footpath	-
2008/06/0563	Luk Wu Tsuen, Upper Keung Shan, Lantau Island	9SW-D/C87	23/6	GEO	Unknown	Soil cut	40+	Squatter dwelling	-
2008/06/0572	Nim Shue Wan, Lantau Island	10SW-B/C152	10/6	HAD	Unknown	Soil cut	2.5	Village house	-
2008/06/0580	House No. 64, Chung Tsai Tsuen, Peng Chau	Natural hillside	18/6	Public	7/6	Natural hillside	15	Nil (Landslide debris deposited on the slope)	-
2008/06/0582	Tai Wo Tsuen, Peng Chau	1 m high soil cut slope ⁽¹⁾	18/6	DLO	Unknown	Soil cut	1	Squatter dwelling	-
2008/06/0587	Between Lamp Posts Nos. VA7662 and VA2929 near Lin Yan Temple, Lower Keung Shan Road, Lantau Island	2 m high masonry wall (1)	16/6	DO	7/6	Retaining wall	1	Access road	Access road temporarily closed
2008/06/0590	Near Lamp Post No. VA0401, Lin Yan Temple, Lower Keung Shan Road, Lantau Island	Unregistered at the time of failure	16/6	DO	7/6	Soil cut	10	Access road	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 17 of 36)

		Б	Repo	orted		Failure		F 374	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/06/0597	Wai Fung Yuen, Tung Chung, Lantau Island	Non-registrable feature (2) (seawall)	25/6	BD	7/6	Retaining wall	150	Pedestrian pavement	-
2008/06/0611	Behind 15-16 Lo So Shing, Lamma Island	15NW-C/C85	23/6	ICC	Unknown	Soil cut	5	Building	-
2008/06/0625	Behind Squatter No. NSW GPA 4/33, Nim Shue Wan, Lantau Island	Unregistered at the time of failure	26/6	Public	8/6 (08:00)	Soil/rock cut	4.5	Squatter dwelling	-
2008/06/0626	Behind Tin Hau Temple, Nim Shue Wan, Lantau Island	10SW-B/DT24	26/6	Public	8/6	Registered disturbed terrain	2	Others (alleyway)	-
2008/06/0629	Between Lamp Posts Nos. 37712 and 37713, Pak Kok San Tsuen, Lamma Island	2.9 m high soil cut slope (1)	27/6	Police	27/6	Soil cut	15	Minor footpath	-
2008/06/0638	Hong Kong Shaolin Martial Art Centre, Lantau Island	9SW-C/C5	24/6	DO	7/6	Soil cut	1	Building	-
2008/07/0647	Hei Ling Chau Addiction Treatment Centre	10SW-D/F64	2/7	Public	Unknown	Fill	25	Nil (Landslide debris deposited on the slope)	-
2008/07/0648#	Behind House No. 172, Tong Fuk, Lantau Island	13NE-A/CR298	2/7	GEO	2/7 (10:30)	Retaining wall	3+	Open area	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 18 of 36)

		F	Repo	orted		Failure		F:114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0649	Malaria-vector-controlled Stream, Lantau Island	Natural hillside	3/7	FEHD	Unknown	Natural hillside	40	Nil (Landslide debris deposited on the slope)	-
2008/07/0650	Above Keung Shan North Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	205 [§] [3 source areas: 5-120]	Access road and catchwater	-
2008/07/0651	Shek Mun Kap, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	55 [§] [2 source areas: 20 & 35]	Access road and others (waterworks)	-
2008/07/0652	Shek Mun Kap, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	9	Access road	-
2008/07/0653	Above Cheung Sha Catchwater, Lantau Island	Natural hillside	3/7	WSD	17/6	Natural hillside	20 [§] [2 source areas: 20 each]	Access road	Access road temporarily closed
2008/07/0654	Above Tai Long Wan Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	1005 [§] [4 source areas: 75-455]	Access road and catchwater	Access road temporarily closed and catchwater blocked by landslide debris
2008/07/0656	Above Feature No. 13NW-D/C54, Tai Long Wan Catchwater, Lantau Island	Natural hillside	3/7	WSD	16/6	Natural hillside	100	Access road	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 19 of 36)

		F4	Repo	orted		Failure		F:114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0657	Above Feature No. 13NW-D/CR26, Tai Long Wan Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	60	Catchwater	Catchwater blocked by landslide debris
2008/07/0658A	Above Sham Wat West Catchwater, Lantau Island	9SW-D/CR116	3/7	WSD	Unknown	Soil cut	150 ⁺	Access road and catchwater	Catchwater blocked by landslide debris
2008/07/0658B	Above Sham Wat West Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	30^{+}	Nil (Landslide debris deposited on the slope)	-
2008/07/0659	Sham Wat West Catchwater, Lantau Island	9SW-D/CR119	3/7	WSD	Unknown	Soil/rock cut	33	Access road	-
2008/07/0660	Adjacent to Feature No. 9SW-D/C131, Sham Wat East Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	236 [§] [2 source areas: 36 & 200]	Access road	Access road temporarily closed and a section of the access road undermined
2008/07/0661	Near Portal A, Keung Shan South Catchwater, Lantau Island	13NW-B/C143	3/7	WSD	Unknown	Soil cut	38	Access road	-
2008/07/0662	Near Portal A, Keung Shan South Catchwater, Lantau Island	13NW-B/C367	3/7	WSD	Unknown	Soil cut	90	Access road	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 20 of 36)

		D	Repo	orted		Failure		D. H.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0663	Above Feature No. 13NW-B/R22, Keung Shan South Catchwater, Lantau Island	Natural hillside	3/7	WSD	Unknown	Natural hillside	200	Access road and catchwater	Catchwater blocked by landslide debris
2008/07/0668A	Wai Shiu Yuen, Luk Wu Tsuen, Lantau Island	9SW-D/C53	5/7	Police	Unknown	Soil cut	40+	Village house	-
2008/07/0668B	Wai Shiu Yuen, Luk Wu Tsuen, Lantau Island	Natural hillside	5/7	Police	Unknown	Natural hillside	50 ⁺	Nil (Landslide debris deposited on the slope)	-
2008/07/0669	Near Chek Lap Kok Village, Lantau Island	Natural hillside	16/6	Public	7/6	Natural hillside	100 [§] [2 source areas: 30 & 70]	Minor footpath	-
2008/07/0673	Above Feature No. 13NW-B/CR309, Sai Loi Yuen, Keung Shan, Tai O, Lantau Island	Natural hillside	7/7	Public	Unknown	Natural hillside	16	Village house	-
2008/07/0683	Near Lamp Post No. FA0737, Ma Po Ping Road, Lantau Island	13NE-A/C44	10/7	Police	10/7 (03:30)	Soil/rock cut	20	Road	All 2 lanes of Ma Po Ping Road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 21 of 36)

		Б	Repo	orted		Failure		Б 11.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0699	Tai Shan Tung Village, Lamma Island	Unregistered at the time of failure	8/7	DLO	7/7	Soil/rock cut	< 1	Squatter dwelling	1 squatter dwelling temporarily evacuated and Category 1 NDC recommendation subsequently made to Lands Department
2008/07/0718	Adjacent to Po Wah Yuen, Upper Keung Shan Village, Lantau Island	9SW-D/C62	14/7	GEO	Unknown	Soil cut	10	Squatter dwelling	-
2008/07/0725	Shek Li Ka Nam, Yung Shue Wan, Lamma Island	< 3 m high soil cut slope (1)	12/7	ICC	12/7 (07:00)	Soil cut	10	Minor footpath	-
2008/07/0740#	Adjacent to Lamp Post No. VA4337, Ngau Kwo Long, Lantau Island	Natural hillside	16/7	DO	Unknown	Natural hillside	1	Minor footpath	-
2008/07/0741	50 Chung Hing Back Street, Cheung Chau	Unregistered at the time of failure	11/7	Public	11/7	Soil cut	0.001 ⁺ (Rockfall)	Open area	-
2008/07/0752	Above Keung Shan Road, Lantau Island	Natural hillside	21/7	GEO	Unknown	Natural hillside	50	Road	-
2008/07/0757	8 San Fung Tsuen, Lower Keung Shan, Lantau Island	< 3 m high soil cut slope (1)	23/7	DO	Unknown	Soil cut	3	Village house	-
2008/07/0758	Ma Wan Main Street Village, Ma Wan, Lantau Island	10NE-A/C62	23/7	GEO	18/6	Soil cut	7	Village house	-

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		F4	Repo	orted		Failure		F910	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/07/0768	Above Feature No. 9SW-D/CR107, Sham Wat West Catchwater, Lantau Island	Natural hillside	30/7	WSD	Unknown	Natural hillside	40	Access road	-
2008/07/0769	Behind House No. 12A, Tong Fuk, Lantau Island	Natural hillside	30/7	Public	Unknown	Natural hillside	4	Village house	-
2008/07/0771	Behind House No. 104, Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	31/7	GEO	Unknown	Natural hillside	6.5	Open area	-
2008/08/0788	18 Cheung Pak Road, Tai Kwai Wan, Cheung Chau	14NW-D/F25	11/8	Public	7/6	Fill	5	Others (alleyway)	-
2008/08/0790	Po Lin Monestary, Lantau Island	Natural hillside	12/8	GEO	Unknown	Natural hillside	20 [§] [2 source areas: 20 each]	Access road	-
2008/09/0807	Access Road to Ling Yan Temple near Lamp Post No. VA2694, Tai O, Lantau Island	Natural hillside	11/9	GEO	Unknown	Natural hillside	50	Access road	-
2008/09/0808	Access Road to Ling Yan Temple near Lamp Post No. VA2688, Tai O, Lantau Island	13NW-B/C47	11/9	GEO	Unknown	Soil/rock cut	1	Access road	-
2008/09/0811	Tung Tai San Tsuen, Cheung Chau	14NW-D/C409	8/9	GEO	11/8	Soil cut	1	Others (verge at slope toe)	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 23 of 36)

		Frateur	Repo	orted		Failure		F324	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/09/0813A	Sok Kwu Wan, Lamma Island	15NW-C/R43	24/9	Police	24/9 (16:30)	Retaining wall	9+	Minor footpath	Minor footpath temporarily closed
2008/09/0813B	Sok Kwu Wan, Lamma Island	15NW-C/R16	24/9	Police	24/9 (16:30)	Retaining wall	7.5+	Minor footpath	Minor footpath temporarily closed
2008/09/0813C	Sok Kwu Wan, Lamma Island	15NW-C/R17	24/9	Police	24/9 (16:30)	Retaining wall	6.8+	Minor footpath	Minor footpath temporarily closed
2008/09/0813D	Sok Kwu Wan, Lamma Island	15NW-C/R18	24/9	Police	24/9 (16:30)	Retaining wall	30.3+	Minor footpath	Minor footpath temporarily closed
2008/09/0815A	Cheung Sha Beach, South Lantau Road, Lantau Island	Natural hillside	25/9	HyD	23/9 (20:00)	Natural hillside	35 ⁺	Pedestrian pavement	-
2008/09/0815B	Cheung Sha Beach, South Lantau Road, Lantau Island	13NE-B/R25	25/9	HyD	23/9 (20:00)	Retaining Wall	10 ⁺	Pedestrian pavement	-
2008/09/0816	Between Lamp Posts Nos. VA4335 and 4336, Ngau Kwo Long, Lantau Island	Natural hillside	25/9	Public	23/9	Natural hillside	10	Minor footpath	-
2008/10/0818#	Adjacent to Feature No. 13NE-A/R16, Shek Pik Spillway, Lantau Island	Natural hillside	8/10	WSD	Unknown	Natural hillside	5	Others (drainage culvert)	-
2008/10/0819	Access Road to Man Cheung Po, Lantau Island	13NW-B/C292	10/10	HyD	Unknown	Soil cut	7	Minor footpath	-
2008/10/0820	Access Road to Man Cheung Po, Lantau Island	13NW-B/C293	10/10	HyD	Unknown	Soil cut	50	Minor footpath	-
2008/10/0822	Access Road to Man Cheung Po, Lantau Island	13NW-B/C294	10/10	HyD	Unknown	Soil/rock cut	10	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 24 of 36)

		Fraterio	Repo	orted		Failure		F114	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2008/10/0823	Adjacent to Feature No. 9SW-D/C222, Tse Chuk Lam, Lower Keung Shan, Lantau Island	Natural hillside	15/10	GEO	Unknown	Natural hillside	4	Minor footpath	-
2008/10/0826	Adjacent to Footpath from Po Chu Lam to the Shrine, Tai O, Lantau Island	Natural hillside	31/10	GEO	Unknown	Natural hillside	2	Minor footpath	-
2008/10/0827	Behind Yim Ching Court, Ngong Ping, Lantau Island	2 m high soil cut slope (1)	31/10	GEO	Unknown	Soil cut	1	Minor footpath	-
2008/12/0835	Behind Yeung Hau Temple, Tai O, Lantau Island	Natural hillside	22/12	Public	Unknown	Natural hillside	0.08 ⁺ (Potentially unstable boulder)	Open area	-
2009/01/0838	Keung Shan Road, Lantau	Natural hillside	8/1 /2009	DO	Unknown	Natural hillside	800+	Nil (Landslide debris deposited on the hillside)	-
2009/01/0841	Natural Slope above feature no. 9SW-C/C17 (location 1), Lantau	Natural hillside	21/1 /2009	HyD	Unknown	Natural hillside	80	Minor footpath	-
2009/01/0842	Natural slope above feature no. 9SW-C/C17 (location 2), Lantau	Natural hillside	21/1 /2009	HyD	Unknown	Natural hillside	75	Minor footpath	-
2009/01/0843	Natural slope above feature no. 9SW-C/C16, Lantau	Natural hillside	21/1 /2009	HyD	Unknown	Natural hillside	60	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 25 of 36)

		Feature	Repo	orted		Failure		Essilit.	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
2009/02/0847	South Lantau Road, Cheung Sha, Lantau	13NE-B/FR82	17/2 /2009	HyD	Unknown	Fill	20	Minor footpath	-
2009/02/0848	South Lantau Road, Cheung Sha, Lantau	13NE-B/F89	17/2 /2009	HyD	Unknown	Fill	80	Others (beach)	-
2009/02/0851	Behind House 106D, Shek Tsai Po St, Tai O (above slope No. 9SW-C/CR29), Lantau	Natural hillside	17/2 /2009	Lands D	Unknown	Natural hillside	8	Village house	-
2009/02/0852	Upper Keung Shan, Lantau Island	9SW-D/C84	23/2 (2009)	Lands D	7/6	Soil/rock cut	25	Village house	-
2009/02/0853	Po Lin House, Lower Keung Shan, Lantau Island	9SW-D/C223	23/2 (2009)	Lands D	7/6	Soil cut	20	Squatter dwelling and village house	-
2009/08/0900	Shek Pik Catchwater Raod, Shek Pik, Lantau	13NE-A/C122	13/8 /2009	Public	Unknown	Soil cut	60	Others (country park)	-
2009/08/0901	Shek Pik Catchwater Road, Shek Pik, Lantau	13NE-A/C137	13/8 /2009	Public	Unknown	Soil/rock cut	70	Others (country park)	-
AFCD/ 2008/06/0037	Pak Kung Au, Lantau South Country Park, Lantau Island	Natural hillside	24/11	AFCD	7/6	Natural hillside	100	Others (barbecue site)	Barbecue site temporarily closed
AFCD/L/ 2008/06/0001	Near Sze Tsz Tau Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	70	Minor footpath	-
AFCD/L/ 2008/06/0002	Near Kwun Yam Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	12	Minor footpath	-
AFCD/L/ 2008/06/0003	Near Kwun Yam Shan, Lantau Island	13NW-B/C78	-	AFCD	7/6	Soil cut	15	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 26 of 36)

		D	Repo	orted		Failure		E Th	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
AFCD/L/ 2008/06/0004	Near Kwun Yam Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0005	Near Man Cheung Po, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	200	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0006	Near Tai Long Wan Tsuen, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	50	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0008	Near Nam Chung Tusen, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	12	Minor footpath	-
AFCD/L/ 2008/06/0009	Near Kwun Yam Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	10	Minor footpath	-
AFCD/L/ 2008/06/0010	Near Nga Ying Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	120	Minor footpath	-
AFCD/ L/2008/06/0011	Near Nga Ying Shan, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	10	Minor footpath	-
AFCD/L/ 2008/06/0012	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	10	Minor footpath	-
AFCD/L/ 2008/06/0013	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0014	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	40	Minor footpath	-
AFCD/L/ 2008/06/0015	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0016	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	260	Minor footpath	Minor footpath temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 27 of 36)

		Factoria	Repo	orted		Failure		Essilia.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
AFCD/L/ 2008/06/0017	Lantau South Country Park, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0018	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0019	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0020	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	110	Minor footpath	-
AFCD/L/ 2008/06/0021 [#]	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	2	Minor footpath	-
AFCD/L/ 2008/06/0022	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	25	Minor footpath	-
AFCD/L/ 2008/06/0023	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	25	Minor footpath	-
AFCD/L/ 2008/06/0024	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0025	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	100	Minor footpath	-
AFCD/L/ 2008/06/0026 [#]	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	4	Minor footpath	-
AFCD/L/ 2008/06/0027	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	8	Minor footpath	-
AFCD/L/ 2008/06/0028	Shek Pik Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	8	Minor footpath	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 27 of 36)

		F4	Repo	orted		Failure		F374	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
AFCD/L/ 2008/06/0029	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	180	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0030	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	250	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0031	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	1000+	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0032	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	15	Minor footpath	-
AFCD/L/ 2008/06/0033	Nei Lak Shan Country Trail, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	800	Minor footpath	Minor footpath temporarily closed
AFCD/L/ 2008/06/0034	Near Shui Lo Cho, Lantau Island	Natural hillside	-	AFCD	7/6	Natural hillside	750	Minor footpath	Minor footpath temporarily closed
ArchSD/Is-s/ 2008/06/0027 [#]	Don Bosco Road Playground, Cheung Chau	14NW-D/C198	-	Arch SD	16/6	Soil cut	1	Open area	-
ArchSD/Is-S/ 2008/10/0001	Hung Shing Yeh Beach, Lamma Island	15NW-C/C134	21/10	Arch SD	Unknown	Soil cut	10	Open area	-
ArchSD/L/ 2008/06/0048C [#]	Tai O Cemetery, Tai O, Lantau Island	9SW-D/DT5	-	Arch SD	27/6	Registered disturbed terrain	2	Access road	-
HyD/NT/ IS/2008-34	Above Feature No. 13NW-B/C22, Keung Shan Road, Lantau Island	Natural hillside	-	HyD	18/6	Natural hillside	6	Road	1 of 2 lanes of Keung Shan Road temporarily closed
LandsD/IS/ 2008/04/0001	Fourth Round Table - Kin Refugee Housing Village, Mui Wo, Lantau Island	10SW-C/C106	-	Lands D	28/4	Soil cut	2.4	Open area	-

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 28 of 36)

		F4	Repo	orted		Failure		F33.	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
LandsD/IS/ 2008/06/0001	Lo Honn Monastery, Shek Mun Kap, Tung Chung, Lantau Island	9SE-C/CR31	-	Lands D	Unknown	Soil cut	3	Village house	-
LandsD/IS/ 2008/06/0002	Chung Hau, Mui Wo, Lantau Island	10SW-C/C264	-	Lands D	Unknown	Soil cut	4	Village house	-
LandsD/IS/ 2008/06/0003	Wo Tin, Mui Wo, Lantau Island	10SW-A/C84	-	Lands D	Unknown	Soil cut	1	Village house	-
LandsD/IS/ 2008/06/0004	6 Ka Nam Tusen, Lamma Island	14NE-B/CR57	-	Lands D	7/6	Soil cut	20	Squatter dwelling	-
LandsD/IS/ 2008/07/0002	1 Tai Lung Tusen, Peng Chau	Unregistered at the time of failure	-	Lands D	Unknown	Soil cut	2	Village house	-
LandsD/IS/ 2008/09/0001	Behind 18 Pui O, Lantau Island	14NW-A/R21	-	Lands D	28/8	Retaining wall	1	Village house	-
LI/ 2008/06/2003	Above North Lantau Highway (Catchment No. 16), Lantau Island	Natural hillside	8/6	LIC	7/6	Natural hillside	419 [§] [6 source areas: 54-94]	Road	All 5 lanes of North Lantau Highway temporarily closed
LI/ 2008/06/2004	Above North Lantau Highway (Catchment No. 17), Lantau Island	Natural hillside	8/6	LIC	7/6	Natural hillside	313 [§] [5 source areas: 19-161]	Road	All 5 lanes of North Lantau Highway temporarily closed
LI/ 2008/06/2005	Above Yu Tung Road (Catchment No. 24), Lantau Island	Natural hillside	8/6	LIC	7/6	Natural hillside	154 [§] [2 source areas: 60 & 94]	Road	1 of 3 lanes of Yu Tung Road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 29 of 36)

		F4	Repo	orted		Failure		F310	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
LI/ 2008/06/2006	Sham Wat Road, Lantau Island	9SW-D/C48	11/6	LIC	Unknown	Soil/rock cut	24+	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2007	To the North of Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island	Natural hillside	11/6	LIC	Unknown	Natural hillside	20^{+}	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2008	To the North of Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island	Natural hillside	11/6	LIC	Unknown	Natural hillside	$40^{^{+}}$	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2009	To the North of Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island	Natural hillside	11/6	LIC	Unknown	Natural hillside	25 ⁺	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2010	Sham Wat Road, Lantau Island	9SW-D/C49	11/6	LIC	Unknown	Soil/rock cut	150 ⁺	Road	Sham Wat Road temporarily closed
LI/ 2008/06/2011	Near Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	8/6	LIC	Unknown	Natural hillside	$200^{\scriptscriptstyle +}$	Nil (Landslide debris deposited on the slope)	-
LI/ 2008/06/2012	Above Kat Hing Back Street, Tai O, Lantau Island	Natural hillside	8/6	LIC	Unknown	Natural hillside	$200^{^{+}}$	Nil (Landslide debris deposited on the slope)	-
LI/ 2008/06/2013	Above Feature No. 9SW-D/C49, Sham Wat Road, Lantau Island (Landslide SW5)	Natural hillside	11/6	LIC	Unknown	Natural hillside	190 ⁺	Road	Sham Wat Road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 30 of 36)

		Б. /	Repo	orted		Failure		F 374	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
LI/ 2008/06/2014	Above Keung Shan Road, Lantau Island (Landslide KS3A)	Natural hillside	8/6	LIC	Unknown	Natural hillside	750 [§] [4 source areas: 100-400]	Road	-
LI/ 2008/06/2015	Above Keung Shan Road, Lantau Island (Landslide KS3B)	Natural hillside	8/6	LIC	Unknown	Natural hillside	700 [§] [11 source areas: 40-150]	Road	-
LI/ 2008/06/2016	Above Yu Tung Road (Catchment No. 25), Lantau Island	Natural hillside	8/6	LIC	7/6	Natural hillside	135 [§] [2 source areas: 60 & 75]	Road	1 of 3 lanes of Yu Tung Road temporarily closed
LI/ 2008/06/2017	Keung Shan Road near Tai O Road, Lantau Island	Natural hillside	8/6	LIC	7/6	Natural hillside	50 ⁺	Others (maintenance access)	Landslide debris damaged the handrail of a maintenance access at slope crest
WSD/ 2008/11/1/HKI [#]	Adjoining WSD Access Road, Lantau Island	13NW-B/C314	4/11	WSD	Unknown	Soil cut	< 1	Access road	-
WSD/ 2008/12/1/HKI	Lantau North Catchwater, Lantau Island	9SW-D/CR233	3/12	WSD	Unknown	Soil cut	8.4	Catchwater	-
WSD/ 2008/6/10/HKI	Adjoining Catchwater near Tai O Road, Tai O, Lantau Island	13NW-B/C194	-	WSD	13/6	Soil cut	7.2	Catchwater	A section of catchwater channel damaged
WSD/ 2008/6/13/HKI	Lantau South Catchwater, Lantau Island	13NW-B/C58	-	WSD	13/6	Soil cut	10.8	Catchwater	-

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Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 31 of 36)

		Forton		orted			Facility		
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/15/HKI	Lantau South Catchwater, Lantau Island	13NW-B/C64	-	WSD	13/6	Rock cut	36	Access road and catchwater	Access road temporarily closed
WSD/ 2008/6/16/HKI	Lantau South Catchwater, Lantau Island	13NW-B/C66	-	WSD	13/6	Rock cut	32	Access road and catchwater	Access road temporarily closed
WSD/ 2008/6/17/HKI	Lantau South Catchwater, Lantau Island	13NW-B/C60	-	WSD	13/6	Soil cut	40	Access road and catchwater	Access road temporarily closed
WSD/ 2008/6/18/HKI	Lantau South Catchwater, Lantau Island	13NW-B/CR43	-	WSD	13/6	Soil/rock cut	7.5	Catchwater	-
WSD/ 2008/6/19/HKI	Lantau South Catchwater, Lantau Island	13NW-B/C45	-	WSD	13/6	Soil cut	16	Catchwater	-
WSD/ 2008/6/22/HKI	Chainage 2030-2130, Shek Pik Catchwater, Lantau Island	13NW-B/CR269	-	WSD	16/6	Soil cut	24	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/23/HKI	Adjoining WSD Access Road, Lantau Island	13NW-B/F164	-	WSD	16/6	Fill	26	Access road	Access road temporarily closed
WSD/ 2008/6/24/HKI	Adjoining Catchwater, Lantau Island	13NW-D/CR16	-	WSD	16/6	Soil/rock cut	12	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/26/HKI	Adjoining Catchwater & Waterworks Access Road, Lantau Island	9SW-D/CR144	-	WSD	16/6	Soil cut	30	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/27/HKI	Adjoining Catchwater, Lantau Island	9SW-D/CR120	-	WSD	16/6	Soil cut	28.5	Access road and catchwater	Access road temporarily closed and catchwater blocked by landslide debris

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 32 of 36)

		Reported		orted		Failure		E312	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/28/HKI	Cheung Shan, Lantau Island	9SW-D/C131	-	WSD	17/6	Soil cut	25	Access road	Access road temporarily closed
WSD/ 2008/6/30/HKI	Chainage 2992-3057, Shek Pik Catchwater, Lantau Island	13NE-A/CR62	-	WSD	17/6	Soil cut	39.2	Catchwater	-
WSD/ 2008/6/31/HKI	Tung Chung Service Reservoir, Tung Chung, Lantau Island	Natural hillside	1	WSD	20/6	Natural hillside	32	Nil (Landslide debris deposited on the slope)	-
WSD/ 2008/6/33/HKI	Adjoining Catchwater within Lantau South Country Park, Lantau Island	13NW-D/CR33	1	WSD	20/6	Soil cut	48	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/34/HKI	Chainage 3860-3950, Shek Pik Catchwater, Lantau Island	13NE-A/CR181	-	WSD	17/6	Soil/rock cut	9.6	Catchwater	-
WSD/ 2008/6/37/HKI	Lantau North Catchwater, Lantau Island	9SW-D/F73	-	WSD	19/6	Fill	32	Access road and catchwater	A section of access road undermined
WSD/ 2008/6/38/HKI	Lantau North Catchwater, Lantau Island	9SW-D/CR156	-	WSD	18/6	Soil cut	48	Catchwater	-
WSD/ 2008/6/39/HKI	Lantau North Catchwater, Lantau Island	9SW-D/CR160	-	WSD	18/6	Soil/rock cut	48	Catchwater	Catchwater blocked by landslide debris

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 33 of 36)

		Reported Feature		orted		Failure		Eggilitz	
Incident No.	Location	Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/40/HKI	WSD Access Road to Lantau North Catchwater, Lantau Island	9SW-D/FR72	-	WSD	18/6	Fill	47	Catchwater	-
WSD/ 2008/6/41/HKI	Lantau North Catchwater, Lantau Island	9SW-D/CR152	-	WSD	18/6	Soil cut	44	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/42/HKI	Adjoining WSD Waterworks Access Road, Lantau Island	Natural hillside	-	WSD	18/6	Natural hillside	90	Construction site	-
WSD/ 2008/6/44/HKI	To the East of Hang Pui, Tai O, Lantau Island	13NW-B/F127	-	WSD	19/6	Fill	46	Others (maintenance access)	Maintenance access undermined
WSD/ 2008/6/45/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	Natural hillside	-	WSD	19/6	Natural hillside	4.5	Access road	Access road temporarily closed
WSD/ 2008/6/46/HKI	Lantau North Catchwater, Lantau Island	Natural hillside	-	WSD	19/6	Natural hillside	9	Open area and others (man-made slope)	Hard slope surface cover damaged
WSD/ 2008/6/47/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	Natural hillside	-	WSD	19/6	Natural hillside	12	Access road	Access road temporarily closed
WSD/ 2008/6/48/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	Natural hillside	-	WSD	19/6	Natural hillside	7.5	Access road	Access road temporarily closed

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 34 of 36)

		Frateur	Repo	orted		Failure		F910	
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/49/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	Natural hillside	-	WSD	19/6	Natural hillside	110	Access road	Access road temporarily closed
WSD/ 2008/6/53/HKI	Adjoining WSD Access Road, Lantau Island	9SW-D/F69	-	WSD	19/6	Fill	12	Catchwater	-
WSD/ 2008/6/64/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	9SW-D/C124	-	WSD	19/6	Soil cut	18	Access road	Access road temporarily closed
WSD/ 2008/6/66/HKI	Catchwater, Lower Keung Shan, Tai O, Lantau Island	9SW-D/CR212	-	WSD	13/6	Soil/rock cut	8	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/6/67/HKI	Adjoining Catchwater, Lantau Island	9SW-D/CR215	-	WSD	13/6	Soil cut	9	Catchwater	-
WSD/ 2008/6/69/HKI	WSD Access Road, Lantau South Catchwater, Lantau Island	13NE-A/C154	-	WSD	17/6	Soil cut	4	Access road	Access road temporarily closed
WSD/ 2008/6/72/HKI	Chainage 8585-8665, Shek Pik Catchwater, Lantau Island	13NE-B/CR31	-	WSD	17/6	Soil cut	3.5	Catchwater	-
WSD/ 2008/6/73/HKI	Lantau North Catchwater, Lantau Island	9SW-D/CR155	-	WSD	18/6	Soil/rock cut	15	Access road and catchwater	Access road temporarily closed
WSD/ 2008/6/77/HKI	Above Lantau North Catchwater, Lantau Island	Natural hillside	-	WSD	18/6	Natural hillside	8	Catchwater and others (man-made slope)	Hard slope surface cover damaged

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 35 of 36)

		Reported Failure Feature			г п				
Incident No.	Incident No. Location		Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/6/81/HKI	Along Access Road to WSD Weir, Sham Wat, Lantau Island	9SW-D/C127	-	WSD	19/6	Soil/rock cut	6	Open area	-
WSD/ 2008/6/82/HKI [#]	Adjoining Catchwater within Lantau South Country Park, Lantau Island	13NW-C/CR11	-	WSD	20/6	Soil cut	3.5	Catchwater	-
WSD/ 2008/6/84/HKI	Adjacent to Portal A of WSD Catchwater near Feature No. 13NW-B/C387, Lantau Island	Natural hillside	-	WSD	20/6	Natural hillside	90	Access road	Access road temporarily closed
WSD/ 2008/7/10/HKI	Adjoining WSD Access Road, Lantau Island	13NW-B/C291	15/7	WSD	Unknown	Soil cut	22	Catchwater	-
WSD/ 2008/7/11/HKI	Chainage 1531-1666, Shek Pik Catchwater, Lantau Island	13NE-A/CR148	15/7	WSD	Unknown	Soil cut	18	Catchwater	-
WSD/ 2008/7/12/HKI	Adjoining WSD Access Road, Lantau Island	9SW-D/R38	15/7	WSD	Unknown	Retaining wall	18	Access road	-
WSD/ 2008/7/9/HKI	Adjoining Catchwater, Lantau Island	9SW-D/CR237	15/7	WSD	Unknown	Soil/rock cut	10.5	Catchwater	Catchwater blocked by landslide debris
WSD/ 2008/8/3/HKI	Adjoining Catchwater, Lantau Island	Natural hillside	29/8	WSD	Unknown	Natural hillside	100	Catchwater	Catchwater blocked by landslide debris

Table B5 - List of Landslide Incidents in Outlying Islands (Sheet 36 of 36)

	Factors		Reported Failure				F312		
Incident No.	Location	Feature Registration No.	Date	From	Date (Time)	Feature Type	Scale (m³)	Facility Affected	Consequence
WSD/ 2008/9/2/HKI	Adjoining Catchwater, Shek Pik Reservoir, Lantau Island	13NW-B/CR25	10/9	WSD	Unknown	Soil/rock cut	21	Catchwater	Catchwater blocked by landslide debris
WSD/ 2009/7/2/HKI	Sham Wat Catchwater, Lantau	Natural hillside	-	WSD	Unknown	Natural hillside	80	Catchwater	-
WSD/ 2009/7/3/HKI	Sham Wat Catchwater, Lantau	Natural hillside	-	WSD	Unknown	Natural hillside	70	Open area	-

Legend:

- Wery minor landslide with negligible consequence (see Section 1 of the report for definition).
- § 1120 [7 source areas: 80-300]: The incident had a total failure volume of 1,120 m³, comprising 7 landslide source areas, each with a failure volume ranging from 80 m³ 300 m³.
- + Failure volume estimated by GEO's landslide investigation consultants.
- (1) The structure/feature is not registrable under the criteria given in GEO Circular No. 15 (GEO, 2004b).
- (2) The structure /feature is classified as non-registrable in accordance with GEO Circular No. 15(GEO, 2004b).

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標準及測試部總土力工程師

電話: (852) 2762 5346

傳真: (852) 2714 0275

電子郵件: florenceko@cedd.gov.hk

MAJOR GEOTECHNICAL ENGINEERING OFFICE PUBLICATIONS

土力工程處之主要刊物

GEOTECHNICAL MANUALS

Geotechnical Manual for Slopes, 2nd Edition (1984), 302 p. (English Version), (Reprinted, 2011).

斜坡岩土工程手冊(1998),308頁(1984年英文版的中文譯本)。

Highway Slope Manual (2000), 114 p.

GEOGUIDES

Geoguide 1	Guide to Retaining Wall Design, 2nd Edition (1993), 258 p. (Reprinted, 2007)
Geoguide 2	Guide to Site Investigation (1987), 359 p. (Reprinted, 2000).
Geoguide 3	Guide to Rock and Soil Descriptions (1988), 186 p. (Reprinted, 2000).
Geoguide 4	Guide to Cavern Engineering (1992), 148 p. (Reprinted, 1998).
Geoguide 5	Guide to Slope Maintenance, 3rd Edition (2003), 132 p. (English Version).
岩土指南第五冊	斜坡維修指南,第三版(2003),120頁(中文版)。
Geoguide 6	Guide to Reinforced Fill Structure and Slope Design (2002), 236 p.
Geoguide 7	Guide to Soil Nail Design and Construction (2008), 97 p.

GEOSPECS

Geospec 1 Model Specification for Prestressed Ground Anchors. 2nd Edition (1989). 1	pec 1	Model Specification for Prestressed Ground Anchors, 2nd Edition (1989)	164 n (Reprinted
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Geospec 3 Model Specification for Soil Testing (2001), 340 p.

GEO PUBLICATIONS

GCO Publication No. 1/90	Review of Design Methods for Excavations (1990), 187 p. (Reprinted, 2002).
GEO Publication No. 1/93	Review of Granular and Geotextile Filters (1993), 141 p.
GEO Publication No. 1/2006	Foundation Design and Construction (2006), 376 p.
GEO Publication No. 1/2007	Engineering Geological Practice in Hong Kong (2007), 278 p.
GEO Publication No. 1/2009	Prescriptive Measures for Man-Made Slopes and Retaining Walls (2009), 76 p.
GEO Publication No. 1/2011	Technical Guidelines on Landscape Treatment for Slopes (2011), 217 p.

GEOLOGICAL PUBLICATIONS

The Quaternary Geology of Hong Kong, by J.A. Fyfe, R. Shaw, S.D.G. Campbell, K.W. Lai & P.A. Kirk (2000), 210 p. plus 6 maps.

The Pre-Quaternary Geology of Hong Kong, by R.J. Sewell, S.D.G. Campbell, C.J.N. Fletcher, K.W. Lai & P.A. Kirk (2000), 181 p. plus 4 maps.

TECHNICAL GUIDANCE NOTES

TGN 1 Technical Guidance Documents