CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Contract No. GE/2013/16

Landslip Prevention and Mitigation Programme, 2008, Package N

Landslip Prevention and Mitigation Works in Sham Wat, Tai O East,

Upper Keung Shan, and Keung Shan Road East in West Lantau

Regional Rainfall in West Lantau

Monthly Instrumentation Monitoring Report

Rain Gauge

1-31 December 2015

Report prepared by Contractor

Kwan On Construction Co. Ltd.

Registered Geotechnical Engineer

Philip So (RPE)

Consultants

Arup Fugro Joint Venture (AFJV)

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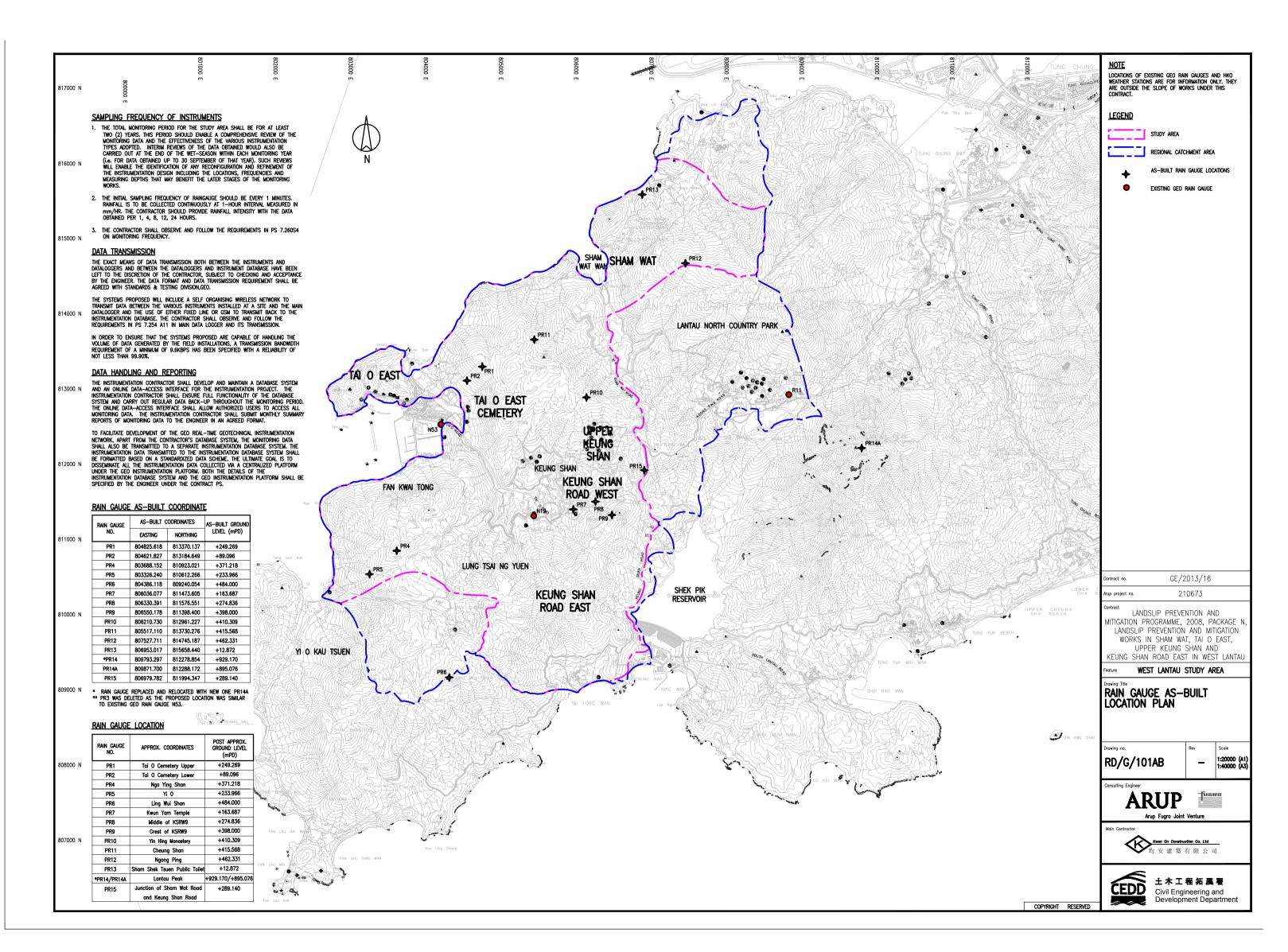


Introduction

Geotechnical instruments were installed by the specialist subcontractor UTop of Kwan On Construction Co. Ltd. at west Lantau Island as part of the scope of works committed under CEDD GEO Contract No: GE/2013/16. The Consultant and Engineer for the project is Arup Fugro joint Venture (AFJV). The installation of the specialised instrumentation was undertaken in three areas of Lantau - Tai O cemetery, Keung Shan Road West and West Lantau. Due to the diverse nature of the monitoring data required in the contract, instruments to measure data of activities both above and below ground were installed. Data monitoring began in late 2015/early 2016 with the exception of the raingauges which began monitoring in May 2015.

This report presents our geotechnical instrumentation monitoring data summary for the Raingauge at West Lantau in December 2015.

2. Rain-gauge Location Plan



3. Hong Kong Observatory Weather Warning
and Signals Record



GOVHK香港政府一站通 \ 繁體版 简体版

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Tropical Cyclones

Aviation Weather Services

Marine Meteorological Services

Weather Information for Sports

Weather Information for Communities

China Weather

World Weather

Climatological Information Services

Climate Forecast

Climate Change

El Nino and La Nina

Earthquakes and

Tsunamis

Astronomy, Space

Weather and

Geomagnetism

Time and Calendar

Radiation Monitoring,

Assessment and

Protection

Educational Resources

Publications

Media and Information

Services

Audio/Video Webpage

Electronic services

World Meteorological Day

World Meteorological

Organization-Official City

Weather Forecasts

World Meteorological

Organization-Global

Severe Weather

Public forms

Weather Warning and Signals Record (1/Dec/2015)

Strong Monsoon Signal

	Wayning and Signals]	Issue Time	C	ancel Time
	Warning and Signals	hh:mm	dd/mon/yyyy	hh:mm	dd/mon/yyyy
季 候 Monsoons	Strong Monsoon Signal	10:20	05/Dec/2015	13:35	06/Dec/2015
學 候 Monsoons	Strong Monsoon Signal	01:15	09/Dec/2015	23:15	09/Dec/2015
學 候 Monsoons	Strong Monsoon Signal	01:40	16/Dec/2015	11:45	17/Dec/2015
季 候 Monsoons	Strong Monsoon Signal	07:25	25/Dec/2015	12:45	25/Dec/2015

Fire Danger Warnings

	Warning and Signals	Is	ssue Time	Ca	ancel Time
	wai ning and Signais	hh:mm	dd/mon/yyyy	hh:mm	dd/mon/yyyy
黄 Yellow	Yellow Fire Danger Warning	11:00	06/Dec/2015	18:00	06/Dec/2015
₩ #I	Red Fire Danger Warning	06:00	16/Dec/2015	06:00	19/Dec/2015
黄 Yellow	Yellow Fire Danger Warning	06:00	19/Dec/2015	11:30	20/Dec/2015
黄 Yellow	Yellow Fire Danger Warning	06:00	26/Dec/2015	23:15	26/Dec/2015

Cold Weather Warning

	Warning and Signals]	ssue Time	C	Cancel Time
	warming and Signais	hh:mm	dd/mon/yyyy	hh:mm	dd/mon/yyyy
冷 coup	Cold Weather Warning	16:20	16/Dec/2015	10:45	19/Dec/2015

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4. Rain-gauge Monthly Monitoring Record



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation(mPD)

Location: Tai O Cemetery Upper 15008191 804825.63 813370.13 249.269

							PRO:	l Rai	infa]	ll Re	port	(De	cemb	er, 2	015)	(un	it:m	m)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00						14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1	1	5. 0
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	3. 5	2.5	1	0	0	1.5	0	0	1	0	0	9. 5
6 December	0	0	1.5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1.0
9 December	0	1.5	1	0	1	0	2	0	0	1	7.5	3.5	2.5	3. 5	3. 5	2.5	4	4	11	7.5	3	0	0	0	59. 0
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.0
25 December	3. 5	3	3	2	0	1	0	0	0	1.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15. 0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2.0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	1	1.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3. 5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



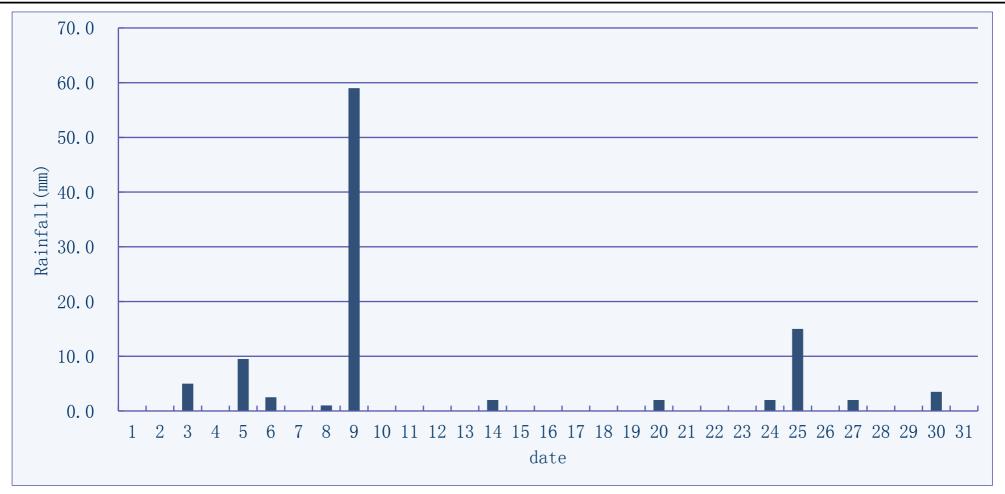


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Tai O Cemetery Upper Rain gauge no. 15008191

E: 804825.63 N: 813370.13 Elevation (mPD) **249.269**

PR01 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Tai O Cemetery Lower

15008198

804621.81

813184.63

89.096

			Loca	tion:	1 ai () Cen	netery	Low	er					1500	8198		80462	21.81		8131	84.63			89.0	196
							PRO:	2 Ra	infa	11 R	eport	(De	ecemb	er, 2	015)	(un	it:m	m)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.5	0.5	0	1.5
4 December	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	1	0.5	0	0	0.5	0	0.5	0	0	0	5.0
6 December	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5
9 December	0	1	0	0.5	0	0.5	1	0.5	0	0	6. 5	3	1.5	2.5	2	1.5	3	2.5	10	5. 5	2	0	0	0	43.5
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5
25 December	3	2	2	1	0	0.5	0	0	0	0. 5	0. 5	0	0	0	0	0	0	0	0	0	0	0	0	0	9. 5
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau

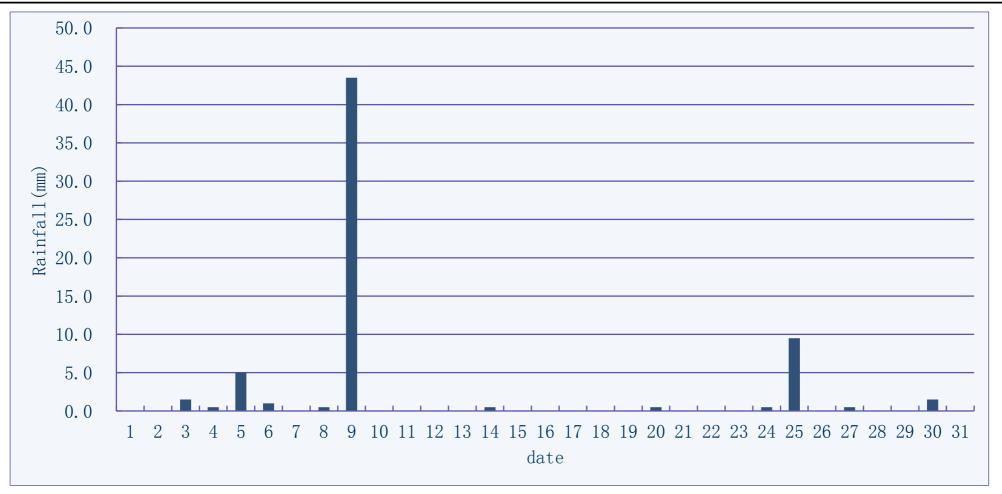


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Tai O Cemetery Lower Rain gauge no. 15008198

E: 804621.81 N: 813184.63 Elevation(mPD) 89.096

PRO2 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

N:

Elevation (mPD)

E: **Location: Nga Ying Shan** 15008192 803688.13 810923 371.218

					- 0)/ Dc	info	11 D	onon	+ /n	ecem	hon	2015	\ (11	nit:	mm)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00					i -		15:00			18:00	19:00	20:00	21:00	22:00	23:00	Total
\longrightarrow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	rainfall
1 December 2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	4. 0
4 December	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2. 0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	2. 5	4	1. 5	0	1	0	1	1	0	0	0	11. 0
6 December	0	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4. 0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1. 0
9 December	0	1	0	1	0	1	0	1	1	0	6	3.5	2. 5	3	2. 5	2. 5	2.5	2.5	10	4	2.5	0	0	0	46. 5
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December 21 December	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2. 0 1. 0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1. 5	1. 5
25 December	1.5	2	3	1. 5	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10. 0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	3. 0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



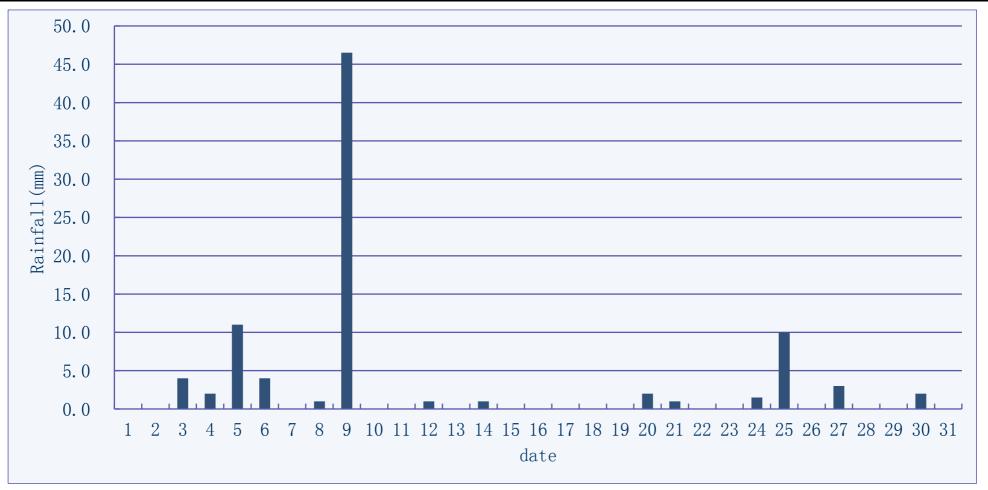


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Nga Ying Shan Rain gauge no. 15008192

E: 803688.13 N: **810923** Elevation (mPD) 371.218

PR04 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: YI O 15008201 803326.25 810612.25 233.966

			Loca	tion:	110	/								1300	8201		8033	20.23		0100	12.25			233.	700
							PR0	5 Ra	infa	.11 R	epor	t (D	ecem	ber,	2015)	uı) (uı	nit:n	nm)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	1	0.5	2.5
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	4. 5	1.5	0.5	0	0	0.5	0.5	0	0	0	0	7. 5
6 December	0.5	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0	0	0	0.5
9 December	0. 5	0. 5	0	0	0.5	0	1. 5	0	0	0	5. 5	3	1. 5	2. 5	2	1. 5	2.5	2	8.5	5	1. 5	0	0	0	38. 5
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0. 5	0	0	0	0	0	0	0	0. 5	0	0	1. 5
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 0 1. 5
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	
25 December	0	1. 5	1. 5	0. 5	0	0. 5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6. 5
26 December	0	0	0	0	0	0	0	0	0	0	0. 5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0. 0 1. 0
27 December	0	0	0	0	0	0	0	0	0	0	0. 5	0	0	0	0. 5	0	0. 5	0	0	0	0	0	0	0	0. 5
28 December 29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0	0	0	0	0	0	0	0	0	0. 5
30 December	0	0	0	0	0. 5	0	0	0	0	0	0	0	0. 5	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0. 5	0	0	0	0	0	0	0	0. 5	0	0	0	0	0	0	0	0	0	0	0	1. 0 0. 0
31 December	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



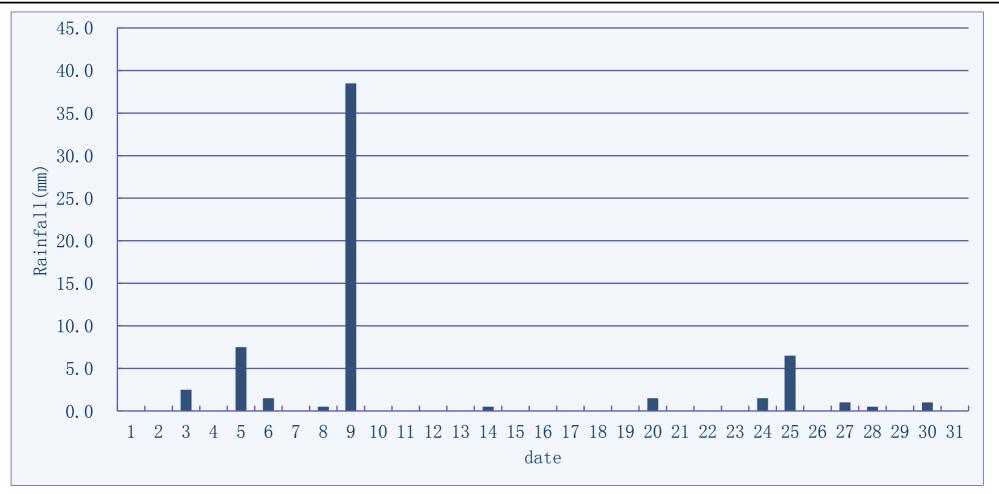
Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: YI O

Rain gauge no. 15008201

E: 803326.25 N: 810612.25 Elevation (mPD)
233.966

PRO5 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau

Kwan On Construction Co. Ltd. 均 安 建 築 有 限 公 司

As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Ling Wui Shan 15008195 804386.13 809240.06 484

			Luca	mon.	Ling	wui									0193		0043	00.13		0072	40.00			40	
							PR0	<u>6 Ra</u>	infa	11 R	epor	t (De	eceml	per, 2	<u> 2015)</u>	(ur	nit:n	m)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0.5	0	0.5	2.0
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0.5	0	0	0	2.5	1	0	0	0	0.5	0	0	0. 5	0	0	5.0
6 December	0	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9 December	0	1	0	0	0.5	0	1	0	0.5	0	4. 5	1.5	0. 5	2	1.5	1	1. 5	1. 5	5	3. 5	1. 5	0	0	0	27.0
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0.5	0	0	0	0	0	0	0	0	0	0	1.0
21 December	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 5
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0. 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0
25 December	0.5	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1.5
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	0. 5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau

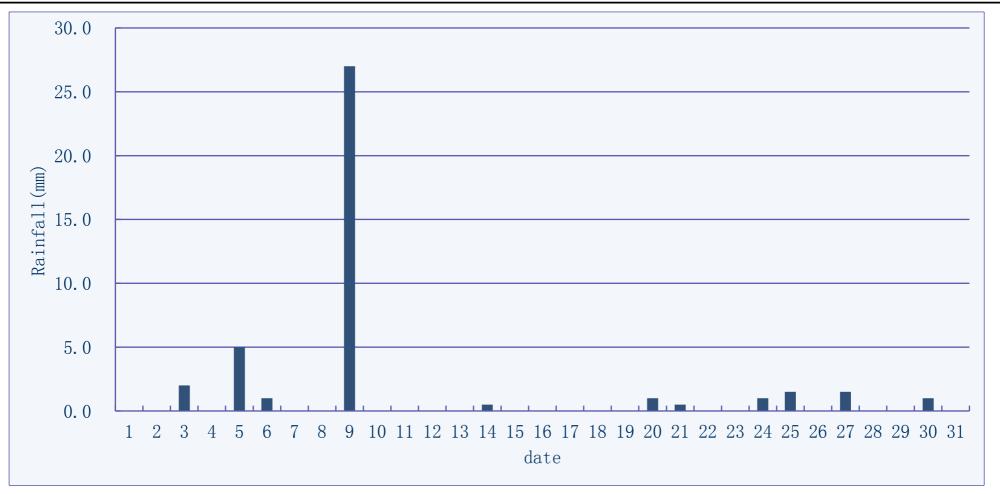


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Ling Wui Shan Rain gauge no. 15008195

E: 804386.13 N: **809240.06** Elevation (mPD)
484

PR06 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Kwun Yam Temple 15008199 806036.06 811473.63 163.687

			Loca	tion:	Kwu	n Yar	n Ten	aple						1500	8199		8060	36.06		8114	73.63			163.	687
							PRO	7 Ra	infa	11 R	epor	t (De	ecemb	er, 2	2015)	(un	it:m	m)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1.0
4 December	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1.5	0	0	0	1	0	0	0	0	0	5.5
6 December	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9 December	1	1	1	0	1	0	1	1	1	0	1	1.5	1.5	1.5	1	1.5	1.5	1	1.5	1.5	1.5	1.5	1	1.5	26.0
10 December	1.5	1.5	1	1.5	1	1.5	1	1	1	1	1	1	1	1	1	1.5	1	1	1	1	1	1	0	1	25.5
11 December	1	0	1	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
25 December	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3.0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau

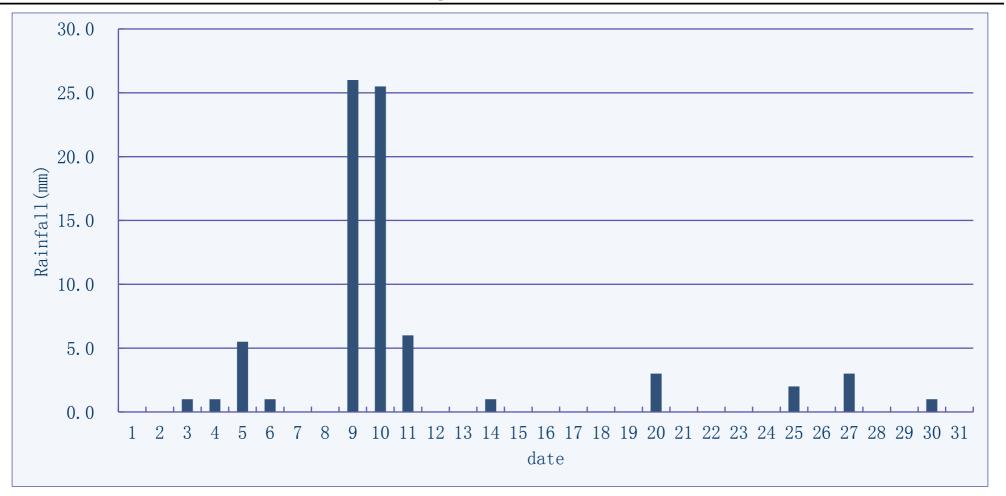


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Kwun Yam Temple Rain gauge no. 15008199

E: 806036.06 N: 811473.63 Elevation (mPD) 163.687

PR07 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Middle of KSRW9 15008196 806330.38 811576.56 274.836

			Loca	uon:	MILL	ne or	NON	VV 7						1300	8190		0003	30.38		0113	/0.50			2/4.	030
							PR0	8 Ra	infa	11 R	epor	t (D	ecemi	ber, 2	2015)	(ur	nit:n	ım)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00									16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2.0
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	1	0	0	1	1	0	0	0	0	10.0
6 December	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1.0
9 December	1	1.5	0	0	0	1	1.5	0	0	0	6	2.5	1.5	2.5	2	2	2	2	7. 5	4.5	2.5	0	0	0	40.0
10 December	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1. 0
23 December 24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1. 0
24 December 25 December	1	1	1.5	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6. 5
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3. 0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2. 0
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
or pecemper	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U 0	U	U	U	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





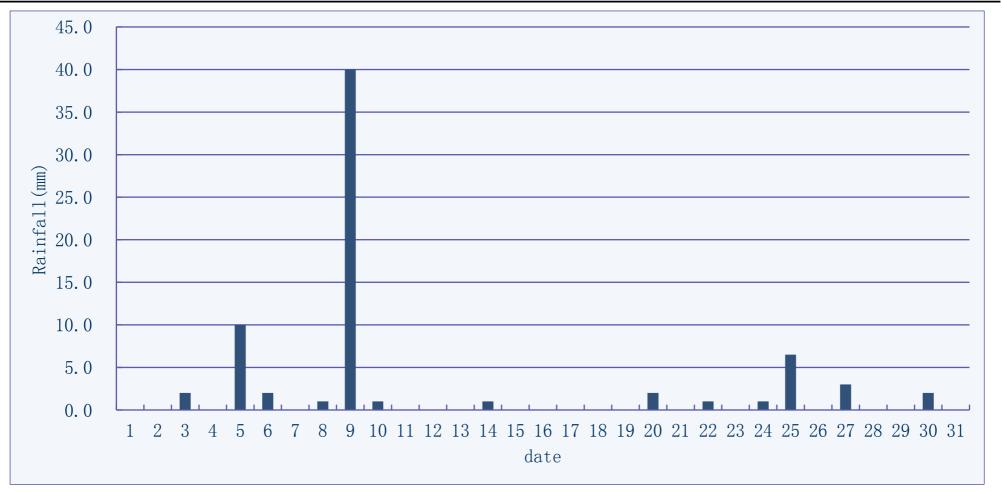
Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Middle of KSRW9

Rain gauge no. 15008196

E: 806330.38 N: 811576.56 Elevation (mPD) 274.836

PR08 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau

Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

均安建築有限公司

As-built Coordinates(meter)

Kwan On Construction Co. Ltd.

utop

Elevation (mPD)

			Loca	tion:	Cres	t of K	SRW	9						1500)8194		8065	50.19		8113	98.38			39	8
							PR0	9 Ra	infa	.11 R	epor	t (De	ecemb	per, 2	2015)	(ur	nit:n	nm)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5
4 December	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	0.5	0	0	0	0	0	0	0	0	0	2.0
6 December	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5
9 December	0	1	0	0	0.5	0	1	0	0	0.5	4	1	0.5	0.5	0.5	1	0.5	1	3. 5	1.5	1. 5	0	0	0	18.5
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.5	0	0	1.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	1.0
25 December	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0	0	0	0	0	0	0	0	0	0	0.5
28 December	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Location: Crest of KSRW9

Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



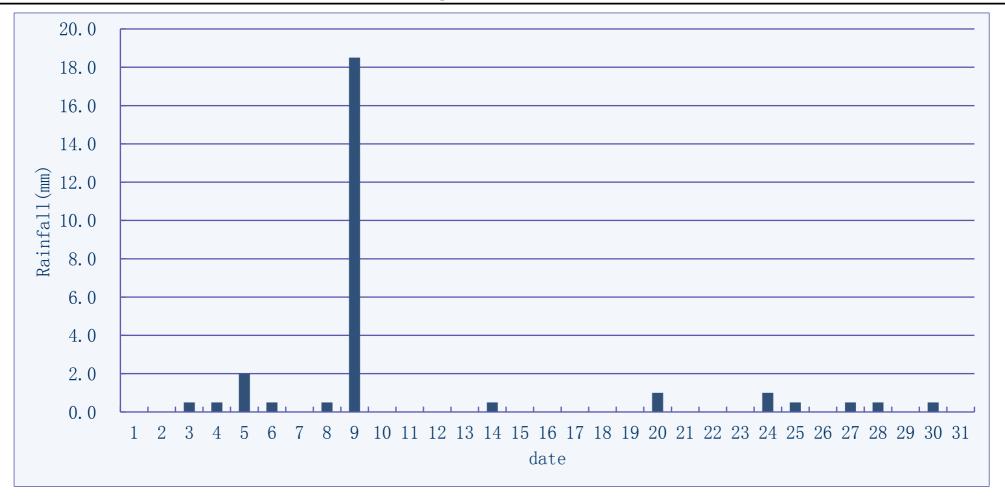
Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no. 15008194

E: 806550.19 N: **811398.38** Elevation (mPD)
398

PR09 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Yin Hing Monastry 14018651 806210.75 812961.25 410.309

			Loca	mon:	1 111 1	inng i	viona	Stry						1401	8051		0004	10.75		0147	01.25			410.	307
							PR1	0 Ra	infa	11 R	epor	t (De	eceml	ber, 2	2015)	(un	nit:n	ım)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3.0
4 December	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1.5	1	0	0	1	1	0	0	0	0	9.5
6 December	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1.0
9 December	1	1	1	0	0	1	1. 5	0	0	0	6. 5	3	2	3	2	2	2	2	8. 5	5	2. 5	0	0	0	44.0
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2.0
21 December	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1.5
25 December	2	1. 5	2	1. 5	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	10.0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2.0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



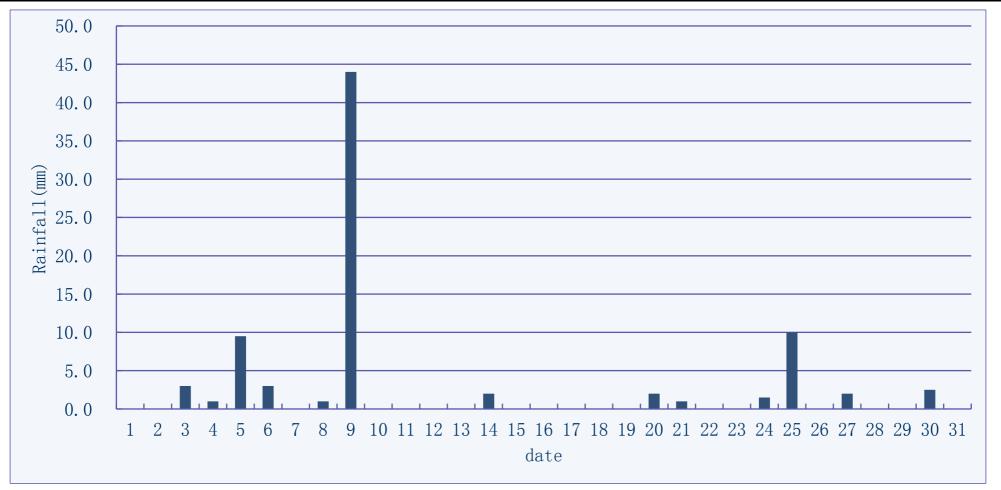
Field Instrumentation Works at West Lantau

As-built Coordinates (meter)

Raingauge Monthly Monitoring Report Location: Yin Hing Monastry Rain gauge no. 14018651

E: 806210.75 N: **812961.25** Elevation (mPD)
410.309

PR10 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

As-built Coordinates(meter)

E:

N:

Elevation (mPD)

Location: Cheung Shan 15008203 805517.13 813730.25 415.568

						<u>. 51</u>	PR1	1 Ra	infa	11 R	enor	t (D	ecem	ber,	2015	(111	nit:r	nm)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00										18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0.5	0	0.5	1.5
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	3. 5	1	0.5	0	0	0.5	0	0	0.5	0	0	6.0
6 December	0	0	0.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5
9 December	0	1	0	0	0.5	0	1	0	0	0.5	6	3	1	2	1	0.5	1.5	2	10.5	2. 5	1.5	0	0	0	34. 5
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0	0	0.5	0	1.5
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2.0
25 December	2	1.5	2	0.5	0.5	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	7.0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0.5	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



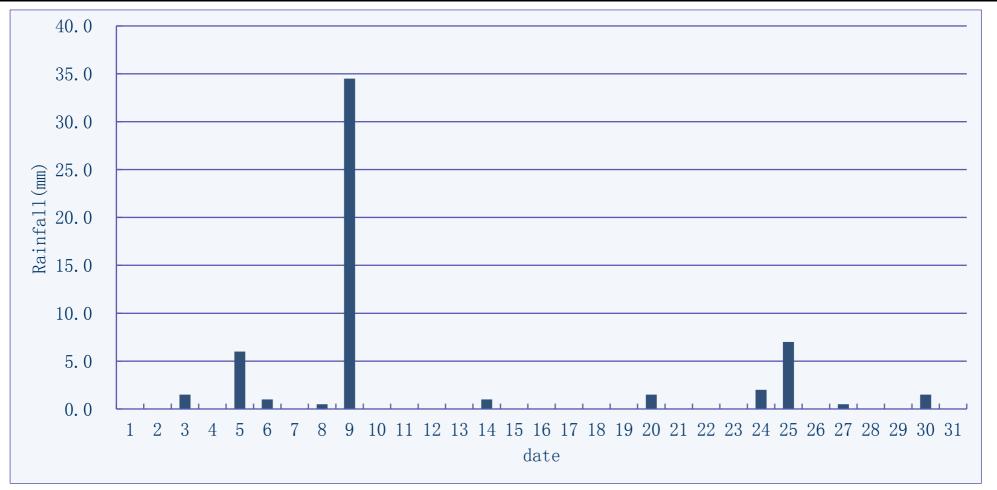
Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Cheung Shan

Rain gauge no. 15008203

E: 805517.13 N: 813730.25 Elevation (mPD) 415.568

PR11 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation(mPD)

Location: Ngong Ping 15008197 807527.69 814745.19 462.331

			Loca	mon:	Mgor	ig Pin	g							1500	8197		80/5	41.09		0147	45.19			462.	331
							PR12	2 Rai	infal	1 Re	eport	(De	cemb	er, 2	015)	(un	it:m	n)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2.0
4 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	3. 5	1.5	1	0	0	0	0	1	0	0	0	7.0
6 December	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2.0
9 December	0	0	1	0	0	1	1.5	0	0	0	6	2. 5	2	2. 5	1. 5	1	1	2.5	8	2. 5	1	1	0	0	35.0
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1. 0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1. 5
25 December	1.5	1	1.5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1.0
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Ngong Ping

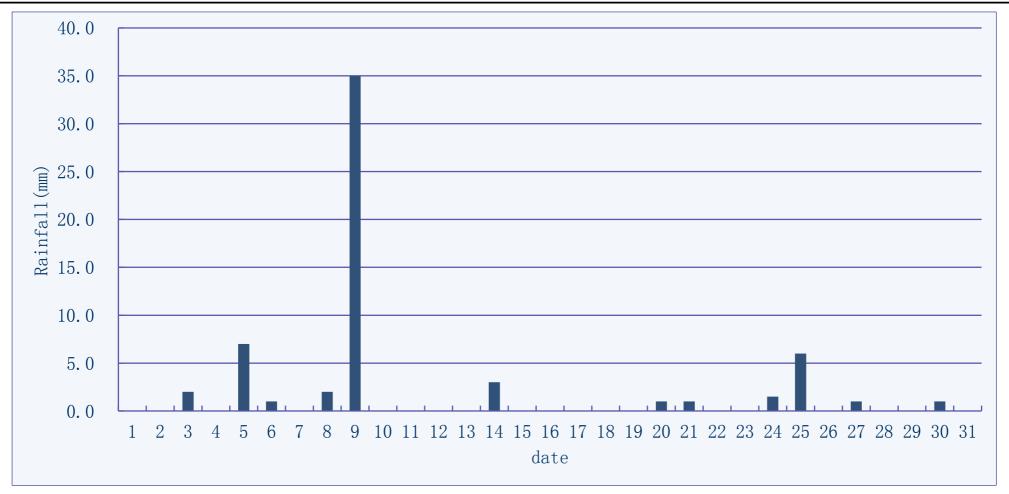
Rain gauge no. 15008197

807527.69

E:

N: 814745.19 Elevation(mPD) 462.331

PR12 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau





Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E: N:

Elevation (mPD)

Location: Sham Shek Tsuen Public Toilet 15008193 806953 815658.44 12.872

			Loca	uon:	Silaii	n Sne	K 15u	en ru	idhe .	ı one				1500	8193		000	953		0130	58.44			12.	314
							PR1	3 Rai	infal	11 Re	eport	: (De	ecemb	er, 2	<u> 2015)</u>	(un	it:m	m)							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0							0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0											0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0																			0.0
4 December																									0.0
5 December											0	0	0	3	1. 5	1	0	0	1.5	0	0	0	0	0	7.0
6 December	0	1	1	0																					2.0
7 December													0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0																			0.0
9 December																									0.0
10 December														0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0											0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0							0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0						0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0																		0.0
15 December													0	0	0	0	0	0	0	0	0	0			0.0
16 December												0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0								0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0											0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0																					0.0
20 December																									0.0
21 December												0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0																			0.0
23 December												0	0	0	0	0	0	0	0	0				0	0.0
24 December	0	0			0							0	0	0	0	0	0	0		0				1	1.0
25 December	2	2. 5	2	2								_			_							_		_	8. 5
26 December			_	_								0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0																					0.0
28 December												_													0.0
29 December			_	_		_	_	_				0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0					2. 0
31 December												0	0	0	0	0	0	0	0	0	0	0	0	0	0.0

Remark: Lower power (1~31 December)



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



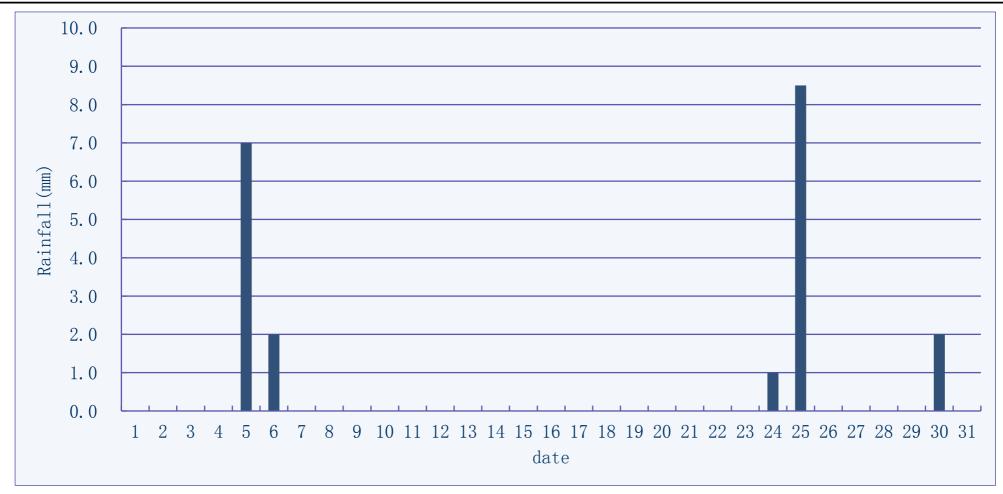


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Sham Shek Tsuen Public Toilet Rain gauge no. 15008193

E: 806953 N: 815658.44 Elevation (mPD) 12.872

PR13 Rainfall Report (December, 2015) (unit:mm)



Remark: Lower power (1~31 December)



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Lantau Peak 14018654 809871.7 812288.17 895.076

								_	_			,					_								
							PR1	<u>4 Ra</u>	<u>infa</u>	11 R	epor	t (D	eceml	per, 2	<u> 2015)</u>) (ur	nit:n	<u>nm)</u>							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0.5
4 December	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
5 December	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5	3. 5	2	1	0	0	0.5	0.5	0	0.5	0	0	9.0
6 December	0	0	1	0	0	0.5	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0.5
9 December	0	0	0.5	0	0	0	0.5	0.5	0	0	4	1.5	0.5	2.5	1.5	2	1	1	9.5	4	2.5	0	0	0	31.5
10 December	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8.0
12 December	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0	1.5
13 December	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.0
14 December	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	1.0
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0.5	0	0.5	0	2.0
21 December	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
22 December	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	1.0
23 December	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0.5	0	0	0	1.0
24 December	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
25 December	0	0.5	0	0.5	0.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
26 December	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
27 December	0	0	0	0	0	0.5	0	0	0	0.5	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	2.0
28 December	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0.5	0.5	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)

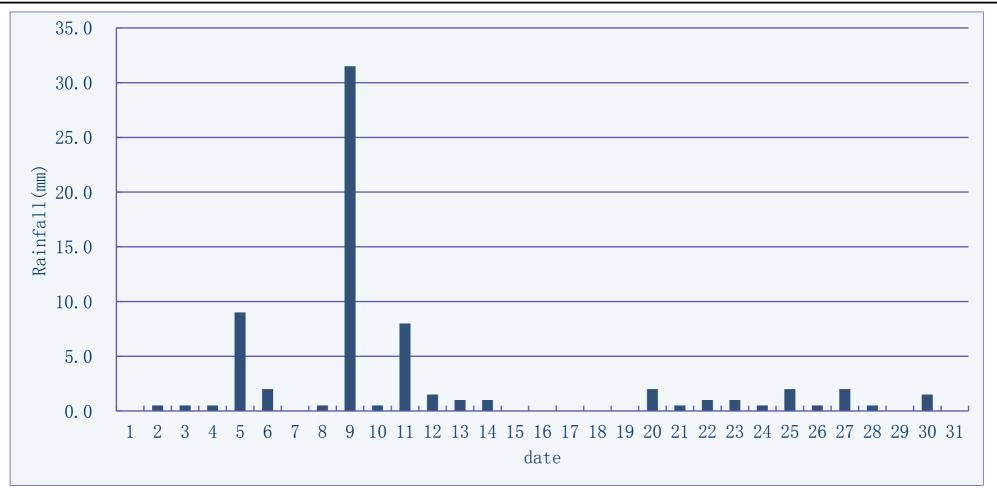


Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Lantau Peak Rain gauge no. 14018654

E: 809871.7 N: 812288.17 Elevation (mPD) 895.076

PR14 Rainfall Report (December, 2015) (unit:mm)





Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



As-built Coordinates(meter)



Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report

Rain gauge no.

E:

N:

Elevation (mPD)

Location: Near Sham Wat Road 15008204 806979.81 811994.38 289.14

			Luca	mon.	Incar	Shan	u vva	ı Kua	u					1300	0204		0009	77.01		0117	94.30			409	•17
				_			PR1	5 Ra	infa]	11 Re	port	(De	cemb	er, 2	015)	(un	it:m	<u>m) </u>							
Date Hour	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Total rainfall
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
3 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0.5
4 December	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
5 December	0	0	0	0	0	0	0	0	0	0	0	0	0	3.5	1.5	0	0.5	0	0.5	0	0	0	0	0	6.0
6 December	0.5	0	0.5	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
8 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0.5
9 December	0	1	0	0	0	0.5	1	0	0	0	5. 5	2	1	2.5	2. 5	2	1.5	1.5	7.5	5	2.5	0	0	0	36.0
10 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
11 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
12 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
14 December	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
20 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0.5	0	0	0	1.0
21 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
22 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
24 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5
25 December	0.5	0.5	0.5	1	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.0
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
27 December	0	0	0	0	0	0.5	0	0	0	0	0	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	1.5
28 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
30 December	0	0	0	0	1	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0



Landslip Prevention and Mitigation Programme, 2008, Package N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West Lantau



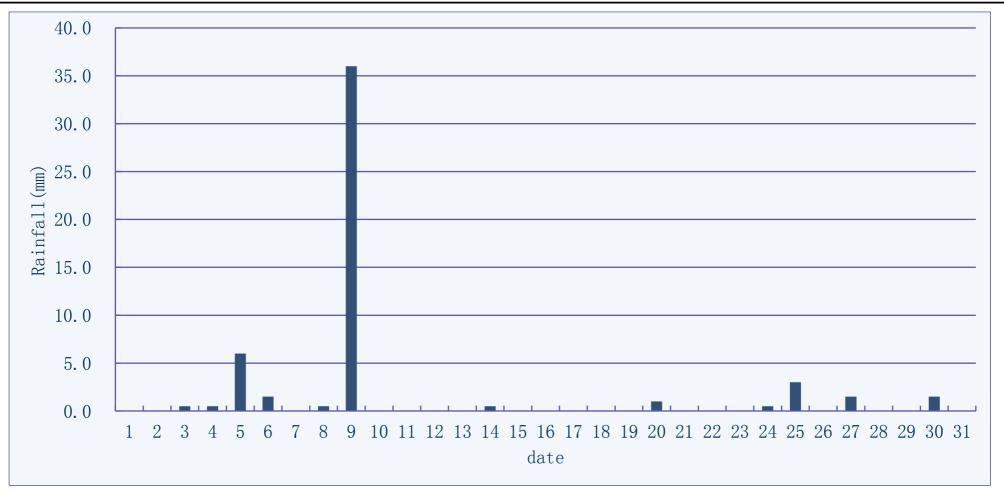


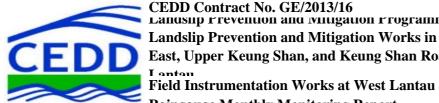
Field Instrumentation Works at West Lantau

Raingauge Monthly Monitoring Report Location: Near Sham Wat Road Rain gauge no. 15008204

E: 806979.81 N: **811994.38** Elevation (mPD) 289.14

PR15 Rainfall Report (December, 2015) (unit:mm)





CEDD Contract No. GE/2013/16 Lanusup rrevenuon and Mugauon rrogramme, 2008, rackage N, Landslip Prevention and Mitigation Works in Sham Wat, Tai O East, Upper Keung Shan, and Keung Shan Road East in West







Raingauge Monthly Monitoring Report

			rumgu	uge moi		ummarv			1 of 1	Each R	lainga	1ge			
Date RG	PR01	PR02	PR04	PR05	PR06	PR07	PR08	PR09	PR10	PR11	PR12	PR13	PR14	PR15	Nearest raingauge at Ngong Ping Reservoir
1 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 December	0	0	0	0	0	0	0	0	0	0	0	0	0. 5	0	0
3 December	5	1.5	4	2. 5	2	1	2	0.5	3	1.5	2	0	0.5	0.5	1
4 December	0	0.5	2	0	0	1	0	0.5	1	0	0	0	0.5	0.5	0. 5
5 December	9. 5	5	11	7. 5	5	5. 5	10	2	9.5	6	7	7	9	6	7
6 December	2. 5	1	4	1.5	1	1	2	0.5	3	1	1	2	2	1.5	1. 5
7 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 December	1	0.5	1	0. 5	0	0	1	0.5	1	0.5	2	0	0.5	0.5	1
9 December	59	43.5	46. 5	38. 5	27	26	40	18.5	44	34. 5	35	0	31.5	36	41
10 December	0	0	0	0	0	25. 5	1	0	0	0	0	0	0.5	0	0
11 December	0	0	0	0	0	6	0	0	0	0	0	0	8	0	0
12 December	0	0	1	0	0	0	0	0	0	0	0	0	1.5	0	0
13 December	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
14 December	2	0.5	1	0. 5	0.5	1	1	0.5	2	1	3	0	1	0.5	0. 5
15 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 December	2	0.5	2	1.5	1	3	2	1	2	1.5	1	0	2	1	1. 5
21 December	0	0	1	0	0.5	0	0	0	1	0	1	0	0.5	0	0
22 December	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0. 5
23 December	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
24 December	2	0.5	1.5	1.5	1	0	1	1	1.5	2	1.5	1	0.5	0.5	0. 5
25 December	15	9. 5	10	6. 5	1.5	2	6. 5	0.5	10	7	6	8. 5	2	3	2
26 December	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0
27 December	2	0.5	3	1	1.5	3	3	0.5	2	0.5	1	0	2	1.5	0
28 December	0	0	0	0. 5	0	0	0	0.5	0	0	0	0	0.5	0	0
29 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30 December	3. 5	1.5	2	1	1	1	2	0.5	2.5	1.5	1	2	1.5	1.5	1. 5
31 December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

5. Rainfall Data during Storms

N/A.

6. Rainfall Data during Red/	Black Rainstorm
Warning	
Warning	

N/A.

7. Malfunctioning Rain-gauges Record

Malfunctioning Rain-gauge Record

Rain-gauge	Time	Malfunction
PR13	1~31 December	Lower power

Discussion

1. PR13 need add solar panel.

8.	Calibration	of	Rain-gauges	&	Field
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Inspections

1. Site maintenance:

Rain-gauge	Latest date for maintenance	Latest date for calibration
PR01	06/10/2015	15/05/2015
PR02	16/10/2015	15/05/2015
PR04	27/05/2015	27/05/2015
PR05	18/05/2015	18/05/2015
PR06	19/05/2015	19/05/2015
PR07	08/10/2015	14/05/2015
PR08	08/10/2015	20/05/2015
PR09	19/05/2015	19/05/2015
PR10	13/10/2015	26/05/2015
PR11	26/05/2015	26/05/2015
PR12	25/05/2015	25/05/2015
PR13	27/10/2015	17/05/2015
PR14	27/05/2015	27/05/2015
PR15	15/05/2015	15/05/2015