STUDY AREA BOUNDARY

report on two previous slope failures
3/2/109
3/2/85
GCI 3/2/169
SPR 3/84
rock joint data oriented adversely for stability against planar failure
3/1/712
SPR 2/89
3/1/336
3/1/11
deep seated failure on Kaolinitic joint infill Kaolinitic veins noted in Grade IV and V tuff
3/1/888
2072/89
DH 510/72/HK
GCI 3/1/367
ADR 2/87
3/2/156
2031/82
2007/82
3020/84
2101/80
2063/89
previous landslips noted in report stability of existing slope suspect
2051/85
DH 223/66/HK
S2R 1D/91
S2R 2/91
deeply weathered tuff overlying bedrock possible planar failures
S1R 33/87
2033/91
2043/85
slow moving landslide as precursor to rapid failure associated with Kaolinitic clay
perched groundwater above colluvium / bedrock interface
SPR 4/89
S3R 18/87
DH 151/82/HK
3/2/41
3/1/703
3/2/1
2104/85
2069/79
S1 152/79
2018/91
S1 124/79
S2R 25/90
2107/90
2065/89
2048/87
2055/92
2028/94
2014/81
S1 121/79
3/2/4
2063/89
2008/86
GCI 3/1/813
sub-horizontal joints and heavy seepage noted in rock cut slope
many photos of cut rock slope during excavation some joint measurements of rock slopes indicates potential for wedge failures out of SE facing slopes
deep weathering noted in GI report, Kaolinitic clay and yellow clay observed
previous landslide noted
day lighting low angle sheeting joint with clay infill noted
S3 7/85
2017/92
DH 512/72/HK
DH 200/92/HK
3/1/142
2032/82
2035/85
3/1/105
S3 7/85
3033/94
DH 16/84/HK
S3 7/85
2069/89
2107/90
GCI 3/2/174
2101/92
2025/83
3076/77
photograph of sub-horizontal joint dipping out of cut slope stereoplot of joints indicate potential for toppling and planar failure
R6297 SITE C10(i)
115W-D/C123, 124
DH 350/75/HK
API report highlight previous slope failures
2086/79
DH 159/91/HK
3/1/151
2085/79
3031/77
stereoplots of rock joints indicating toppling + planar failure photographs of cut slope show abrupt change, weathering front low angle joints noted
3122/87
3030/92
south of Heung Yip Road, report notes that bedrock change to quartz syenite
3077/95
2045/81
ADR 25/90
3/1/146
3/1/104
2061/82
3/1/481
3/1/489
GCI 3/2/172
3078/89
DH 158/92
2090/85
GCI 3/1/781
DH 62/89/HK
2155/77
3/1/418
2046/82
S3R 19/90
S1R 96/86
Deep weathering noted in GI report
3/1/522
DH 218/78/HK
R6297 SITE C10(i)
3/1/732
Kaolinitic clay noted in Grade III tuff from borehole logs for GI report
3/1/750
3056/95
Kaolinitic clay noted in Grade III tuff from borehole logs for GI report
3027/88
DH 179/95/HK
3005/96
Kaolinitic clay occurring both as discrete seams and as infilling of relict joints noted in Grade IV to III tuff from borehole logs and also in Grade IV tuff in test pits in the GI report. Localised narrow zones of deep weathering oriented transverse to the slope
DH 120/82/HK
3024/86
3041/86
report notes rock joints indicate possible toppling failure mode
DH 404/78/HK
3/1/135
S1R 68/89
S1R 28/90
S1R 29/90
S1R 31/90
S1R 27/90
S1R 30/90
deep weathering in quartz syenite
3/1/59
S1R 26/90
deep weathering in granite >10m noted in report
2035/88
3/2/14
rock joints oriented adversely for planar and wedge failure
20m wide quartz syenite dyke intruding tuff. Four previous landslips noted in report
ADR 6/90
ADR 9/91
zone of irregular weathering depths :- road cutting, cracked chunam covering, thin seams of Kaolinitic clay in relict joints within Grade IV/V tuff sub-horizontal joints
PGA report 9/95
2102/92
GCI 3/1/817
3/1/121
3/1/725
2029/88
2005/81
2057/88
2032/81
2005/81
3/1/811
2045/82
ADR 2/84
2051/81
3/1/424
2019/87
2013/83
0011/88
3/1/245
3/1/448
2108/79
ADR 21/87
3/1/742
ADR 10/87
ADR 15/84
3/2/115
GCI 3/1/793
GCI 3/1/794
3/2/15
PGA report 9/92, 10/92 Kaolinitic clay noted in borehole logs
thick seam of Kaolinitic clay (100-150mm) dipping out of cut slope, at time of inspection steady seepage noted (7/11/96)
Kaolinitic clay veins and relict joint infilling in Grade IV/V tuff, high groundwater
deep weathering noted in report between 11 and 19m
some rock joints noted adverse to stability from wedge failure in NW facing cut slopes
medium angle faults and joints dipping out of slope high groundwater
GCI 3/2/173
ADR 20/92
DH 312/94
3/2/15
2086/88
2062/94
2059/90
2003/87
2071/86
photos of rock slope during construction indicates some low angle joints oriented adversely for slope stability
thin seams of Kaolinitic clay infilling hoted in relict joints within Grade IV/V tuff
3/1/744
site of cut slope failure during construction attributed to high groundwater and deep weathering in faulted ground. Rock fill subsequently placed to stabilize the slope
2031/99
Previous landslips noted in report within gully upslope of cut slope. Also previous landslips in cut slope. Perched groundwater table above colluvium / bedrock interface

LEGEND

- Stage 1, 2 and 3 Study boundary
- S1R84/7 — Stage 1 Study Report
- S2R3/82 — Stage 2 Study Report
- S3R3/82 — Stage 3 Study Report
- Binnie & Partners Phase IIC Area boundary
- R6296 SITE C10(i) — Report number
- Island Division File boundary
- 3112/87 — BLD Duplicate Files
- 3/1/139 — Architectural Office Projects
- 3/2/52 — Housing Projects
- DH151/82/HK — Dangerous Hill Files
- GEO Report area boundary
- ADR 25/90 — Advisory Report
- SPR 3/84 — Special Project Report
- ✻ 2107/90 — Report (2107/90) notes low angle joints within the bedrock dipping out of the slope

no.	date	description	initial
REVISION			

	name	date
surveyed		
designed	C. Franks	9/96
drawn	K. W. Wong	9/96
traced		
checked	C. Franks	9/96
examined		

contract no.

file no. GCP 2/E2/10

job no.

project

ASSESSMENT OF GEOLOGICAL FEATURES RELATED TO RECENT LANDSLIDES IN VOLCANIC ROCKS OF HONG KONG

PHASE 2B: ABERDEEN

drawing title

MAP No.7

REPORT SUMMARY

drawing no. GS-SP/15-NW-B/746

scale 1:5 000

office

PLANNING DIVISION

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING DEPARTMENT