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ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH3A

SHEET 1 of 5

REFERENCE No 11527

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes

LOCATION Gatton-Clifton Rd, RHS table drain, approx Ch 15.30km COORDINATES 416148.0 E; 6937750.4 N

PROJECT No FG6128 SURFACE R.L. 214.40m PLUNGE _____ DATE STARTED 3/12/13 GRID DATUM MGA94

JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 6/12/13 DRILLER Northcoast

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)	DEFECT SPACING (AS1728)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	214.40					Silty SAND (COLLUVIUM) Mottled yellow brown with some gravel - based on drillers logs. Clayey in parts.							
1							(SM)						
2													
3	211.40				A	Clayey SILT (COLLUVIUM) Orange grey, dry, hard.						13,22,30	SPT
4							(ML)						
5													
6	208.40				B	Sandy CLAY (COLLUVIUM) Grey brown mottled orange, moist, hard. Intermediate plasticity with some organic matter and angular gravel sized to 15mm.						7,16,25	SPT
7													
8							(CI)						
9					C	Sub angular rock fragments sized to 35mm and iron concretions sized to 10mm.						11,17,29	SPT
10													

REMARKS *See point load test results for details of this test

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BOREHOLE No BH3A
SHEET 2 of 5
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10	204.40												
11						Sandy CLAY (COLLUVIUM) (Cont'd)							
12					D							18,29,30/100	SPT
13													
14													
15					E		(Cl)					11,14,17	SPT
16													
17													
18					F						Possible cobble	30/130	SPT
19													
20													

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BOREHOLE No BH3A
SHEET 3 of 5
REFERENCE No 11527

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes
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20	194.40					Sandy CLAY (COLLUVIUM) (Cont'd)							
21					G							12,28,30/140	SPT
22							(Cl)						
23													
24	190.40				H	Sandy CLAY with Cobbles and Boulders (COLLUVIUM) Orange brown, moist, hard. With high strength rock fragments and boulders sized to 900mm.							HB SPT
25			(100)										
26			100 (100)										
27			100 (100)										
28			100 (53)				(Cl)					VWP installed	
29			80 (79)										
30			100 (93)										
31			100 (73)										

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BOREHOLE No BH3A
SHEET 4 of 5
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PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)	DEFECT SPACING (AS1728)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
30	184.40					Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd)	(CI)						
31	183.18				100 (98)								
32	182.50				100 (72)	Interbedded SILTSTONE and SANDSTONE Fine to medium grained sedimentary rock composed of interbeds of sand and silt sized particles. HW: Pale grey to grey, fine to medium grained, low strength with some ironstaining along fracture surfaces. Bedding at 10-15°. Defects: Js: 30° (<1/m); PI/Ro-Sm, TI-CD, FeSt. Js: 60-70° (10/m); PI/Ro-Sm, TI-CD, FeSt.	HW					Relict shear zone with bedding at 45°	
33					95 (45)	SILTSTONE MW: Grey, fine grained, medium strength. XW and fractured zones throughout. Defects: Js: 0-20° (3/m); PI-Stp/Ro-Sm, TI-OP. Js: 40-50° (2/m); PI-Stp/Ro-Sm, TI-OP. Js: 70° (<1/m); PI-Stp/Ro-Sm, TI-OP.	MW					Bedding at 0-5° SW band Is(50) = 0.29MPa; * Clay seam Is(50) = 0.16MPa; * Is(50) = 0.63MPa	L x o
34					94 (60)							Fractured zone Fractured coal seam Fractured coal seam	
35					100 (43)							Clay seam Broken zone Clay seam	
36					100 (91)	Interbedded SILTSTONE and SANDSTONE SW: Grey to pale grey, fine to medium grained, medium strength. Occasional XW - HW zones and coaliferous inclusions. Defects: Js: at 0-10° (3/m); PI-Stp/Ro-Sm, TI-OP. Js: at 8-90° (2/m); PI-Stp/Ro-Sm, TI-OP.	SW					HW band Fractured coal seam HW band Clay seam Is(50) = 0.44MPa; * Is(50) = 0.79MPa HW band with coal fragments Clay seam Is(50) = 0.37MPa; * Is(50) = 0.94MPa	x o x o
37	177.28												
38					100 (81)								
39													
40													

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BOREHOLE No BH3A
SHEET 5 of 5
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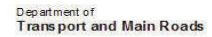
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40	174.40			100 (87)		Interbedded SILTSTONE and SANDSTONE SW: (Cont'd)									
41				100									Is(50) = 0.24MPa; * Is(50) = 0.64MPa	x	o
42	172.70					Borehole terminated at 41.7m							Washbore - no sample retrieved. Inclinometer installed		
43															
44															
45															
46															
47															
48															
49															
50															

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DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
35 Butterfield Street, HERSTON Qld 4006
Phone 07 3066 3336



SCALE 1:5

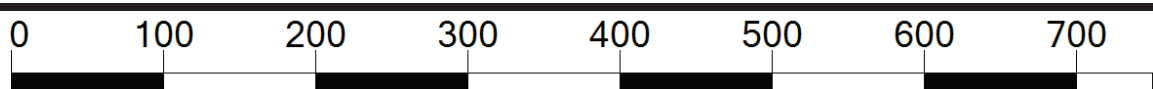
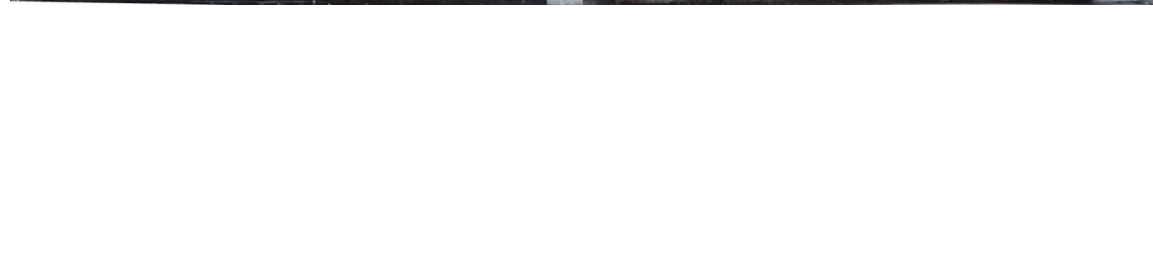
CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
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Department of
Transport and Main Roads

Project Name	Mount Whitestone Cutting		
Project No	FG 6128	Date	04/12/13
Borehole No	BH 3A	TMR H No	11527
Location	Gatton- Clifton Road	Start Depth (m)	24.00
Detail		Finish Depth (m)	41.53
Chainage		Submitted By	J. Lopez
Remarks			



SCALE 1:5

CORE PHOTO LOG

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