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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH6
SHEET 1 of 6
REFERENCE No H12013

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes
LOCATION At tension features COORDINATES 416286.3 E; 6937684.7 N
PROJECT No FG6128 SURFACE R.L. 263.63m PLUNGE _____ DATE STARTED 25/11/14 GRID DATUM MGA94
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 28/11/14 DRILLER Hinterland

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	263.63					Sandy CLAY with Cobbles and Boulders (COLLUVIUM) Orange brown, moist. Generally comprises a hard Sandy Clay of intermediate plasticity which contains a mix of high strength cobbles and boulders.							
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													

Rock roller used to advance through high strength material.

REMARKS _____

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BOREHOLE No BH6
SHEET 2 of 6
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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 (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	253.63												
11						Sandy CLAY with Cobbles and Boulders (COLLUVIUM) as before						Rock roller used to advance through high strength material.	
12													
13													
14													
15					A	SPT sample Silty CLAY, grey brown, mottled orange, moist, medium plasticity, with traces of organic material.	(CI)					15,30/130	SPT
16													
17													
18													
19													
20													

REMARKS _____

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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
20	243.63					Sandy CLAY with Cobbles and Boulders (COLLUVIUM) as before							
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

REMARKS _____

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BOREHOLE No BH6
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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1728)	DEFECT SPACING (AS1728)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
30	233.63											
31					Sandy CLAY with Cobbles and Boulders (COLLUVIUM) as before	(CI)						
32	231.68				SANDSTONE MW: Yellow brown, medium to coarse grained, generally medium strength. Bedding generally at 10-20°. Conglomeratic banding with sub rounded to sub angular clasts generally 5-10mm in size. Ironstained throughout.							
33			94		Defects: BP: 10° - 20° (1/m); PI/Ro, OP-TI Js: 0° - 10° (2/m); PI-Stp/Ro, TI-OP, ClyFL Js: 50° - 60° (1/m); PI-Stp/Ro, OP, ClyFL, FeSt	MW						
34												
35			100									
36	227.88				Interbedded SILTSTONE and SANDSTONE MW: Yellow brown, very low strength. Defects: LP: 10° (5/m); PI/Ro, TI Js: 10° (1/m); PI/Ro, TI							
37	227.45				Interbedded SILTSTONE and SANDSTONE SW: Grey, very low strength. Defects: LP: 0° - 5° (2/m); PI-Stp/Ro, TI-OP, ClyFL Js: 10° - 20° (3/m); PI/Ro, TI	SW						
38	225.09		100		SANDSTONE SW: Light grey, medium to coarse grained, generally low to medium strength.							
39					SANDSTONE MW: Yellow brown, medium to coarse grained, generally medium to high strength. Bedding generally at 0-5°. Conglomeratic banding with sub rounded to sub angular clasts generally 5-10mm in size. Ironstained throughout.	MW						
40												

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40	223.63											
41			100		SANDSTONE MW: as before Defects: LP: 10° - 20° (<1/m); Pl/Ro, OP-TI Js: 5° (<1/m); Un/Ro, TI- Js: 20° - 30° (1/m); Un/Ro, OP Js: 60° - 80° (<1/m); Un/Ro, OP, ClyFL	MW						
42	221.32											
	221.09				SANDSTONE SW: Light grey, medium to coarse grained, generally medium to high strength. LP: 0° (1/m); Un/Ro, OP	SW						
43					SANDSTONE MW: Yellow brown, medium to coarse grained, generally medium to high strength. Bedding generally at 5°. Conglomeratic banding with sub rounded to sub angular clasts generally 5-10mm in size. Ironstained throughout.	MW						
44	220.32		100		Js: 20° - 30° (3/m); Pl-Un/Ro, TI SANDSTONE SW: Pale grey, fine to medium grained, medium to high strength. Bedding at 0-5°. Conglomeratic banding with sub rounded to sub angular clasts generally 5-10mm in size. Occasional coal wisps, organic inclusions and sub-angular to sub rounded clasts up to 15mm in size.					Petrified wood		
45					Defects: BP: 0° (<1/m); Un-Stp/Ro, OP-TI Js: 0° - 5° (<1/m); Un/Ro, TI Js: 10° - 20° (<1/m); Un/Ro, TI Js: 75° (1/m); Un/Ro, OP, ClyFL							
46						SW						
47			100								Broken zone	
48											Coal seam at 10° Organic inclusions	
49											Coal seam at 20° Inclinometer installed Organic inclusions Organic inclusions	
50												

REMARKS _____

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50	213.63												
50	213.43			100		SANDSTONE MW: as before		SW				Inclinometer installed	
						Borehole terminated at 50.2m							
51													
52													
53													
54													
55													
56													
57													
58													
59													
60													

REMARKS _____

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CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
Geotechnical Section
35 Butterfield Street, Herston Qld 4006
Phone 07 3066 3336



Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Start Date	25/11/14
Borehole No.	BH 6	Finish Date	28/11/14
Location		Start Depth (m)	31.0
Detail	Gatton Clifton Rd -313	Finish Depth (m)	50.20
Chainage	15.04-15.40km	Submitted By	TH
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5

CORE PHOTO LOG

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Project Name	Mt Whitestone (Detailed Investigation)		
Project No.	FG6196	Start Date	25/11/14
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Detail	Gatton Clifton Rd -313	Finish Depth (m)	50.20
Chainage	15.04-15.40km	Submitted By	TH
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5

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Chainage	15.04-15.40km	Submitted By	TH
Remarks			

A photograph showing two soil core samples. The top sample is a long, cylindrical core with a label "490" and "BH 6" on its left end. The bottom sample is a shorter, cylindrical core with a label "500" and "Box 7" on its left end. Both cores are light brown and appear to be made of a granular material.

A scale bar with markings from 0 to 700 mm in increments of 100 mm. Below the scale bar, the text "SCALE 1:5" is written.

0 100 200 300 400 500 600 700

SCALE 1:5

Stand Pipe Details - SP6

