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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH3B  
SHEET 1 of 5  
REFERENCE No 11600

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain (Southern) Ch 15.308km COORDINATES 416148.5 E; 6937749.4 N  
PROJECT No FG6128 SURFACE R.L. 214.43m PLUNGE \_\_\_\_\_ DATE STARTED 10/6/14 GRID DATUM MGA94  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 12/6/14 DRILLER Hinterland Drilling

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	214.43												
1					A	<b>Gravelly SILT (COLLUVIUM)</b> Orange brown, dry to moist, firm. Angular gravel fragments up to 30mm in size.							
2					B	Becoming stiff.	(ML)					6,17,28; LL = 25; PI = 11; LS = 7	SPT
3	211.43				C	<b>Clayey SAND (XW Boulder?)</b> Pale grey brown mottled orange. Very dense with high strength rock fragments.						30/70mm	SPT
4							(SC)						
5	209.93				D	<b>Silty CLAY (COLLUVIUM)</b> Grey brown mottled orange, moist, very stiff to hard. Intermediate plasticity. Minor rock fragments up to 35mm in size. Traces of sand throughout.						11,14,15; LL = 39; PI = 23; LS = 11.4; MC = 16.8%	SPT
6					E		(CI)					10,13,13	SPT
7													
8	206.93				F	<b>Clayey SAND (XW Boulder?)</b> Pale grey brown, moist, very dense. Contains medium strength sandstone fragments in parts.						30/50mm	SPT
9							(SC)						
10	205.43				G	<b>Sandy CLAY (COLLUVIUM)</b> Grey brown mottled orange, moist, very stiff to hard. Intermediate plasticity. Traces of rock fragments up to 35mm in size and sand throughout.						7,13,16; LL = 39; PI = 23; LS = 11.6; MC = 20.6%	SPT
							(CI)						

REMARKS \*Load cell used does not comply with the test method requirements.

\*\*Sample failed along existing defect surface.

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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH3B  
SHEET 2 of 5  
REFERENCE No 11600

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain (Southern) Ch 15.308km COORDINATES 416148.5 E; 6937749.4 N  
PROJECT No FG6128 SURFACE R.L. 214.43m PLUNGE \_\_\_\_\_ DATE STARTED 10/6/14 GRID DATUM MGA94  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 12/6/14 DRILLER Hinterland Drilling

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	204.43					<b>Sandy CLAY (COLLUVIUM) (Cont'd)</b> As before.							
11					H							13,30/130mm	SPT
12					J		(Cl)					12,19,30	SPT
13					K							12,16,25; LL = 41; PI = 24; LS = 12.4; MC = 17.7%	SPT
14					L	<b>Clayey SAND (XW Boulder?)</b> Orange brown, moist, dense. Contains high strength sandstone fragments in parts.	(SC)					29,17,17	SPT
15	199.43												
16	198.53					<b>Sandy CLAY with Cobbles and Boulders (COLLUVIUM)</b> Orange brown, moist. Generally comprises a hard Sandy Clay of intermediate plasticity which contains a mix of high strength cobbles and boulders up to 170mm size.							
17			100									MW Sandstone cobble	
18			35				(Cl)						
19			90									MW Sandstone cobble	
20			58									%Pass 2.360mm = 88 %Pass 0.075mm = 71 %Pass 0.002mm = 30	

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\*\*Sample failed along existing defect surface.

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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH3B**  
SHEET **3** of **5**  
REFERENCE No **11600**

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain (Southern) Ch 15.308km COORDINATES 416148.5 E; 6937749.4 N  
PROJECT No FG6128 SURFACE R.L. 214.43m PLUNGE \_\_\_\_\_ DATE STARTED 10/6/14 GRID DATUM MGA94  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 12/6/14 DRILLER Hinterland Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ( ) %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	194.43											
21			54		Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd) As before.							
22			100								MW Sandstone cobble	
23			100								Commence NMLC coring	
24			100									
25											UCS=242kPa	
26											Total circulation loss MW Sandstone cobble	
27			100								Soft clay seam	
28			50								Total circulation loss Soft clay seam %Pass 2.360mm = 67 with highly fract. basalt %Pass 0.075mm = 29 %Pass 0.002mm = 10 Basalt fragments	
29			100								HW Sandstone boulder	
30			44								HW Sandstone boulder	
31			100								Soft clay seam	

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\*\*Sample failed along existing defect surface.

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# ENGINEERING BOREHOLE LOG

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BOREHOLE No   BH3B    
SHEET   5   of   5    
REFERENCE No   11600  

PROJECT Mt Whitestone: Slope Instability Investigation - Preliminary Inclinator Boreholes  
LOCATION Gatton-Clifton Rd, LHS table drain (Southern) Ch 15.308km COORDINATES 416148.5 E; 6937749.4 N  
PROJECT No FG6128 SURFACE R.L. 214.43m PLUNGE \_\_\_\_\_ DATE STARTED 10/6/14 GRID DATUM MGA94  
JOB No \_\_\_\_\_ HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 12/6/14 DRILLER Hinterland Drilling

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
40	174.43			100		Interbedded SILTSTONE and SANDSTONE SW- (Cont'd)								
	174.13					Borehole terminated at 40.3m								
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														

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\*\*Sample failed along existing defect surface.

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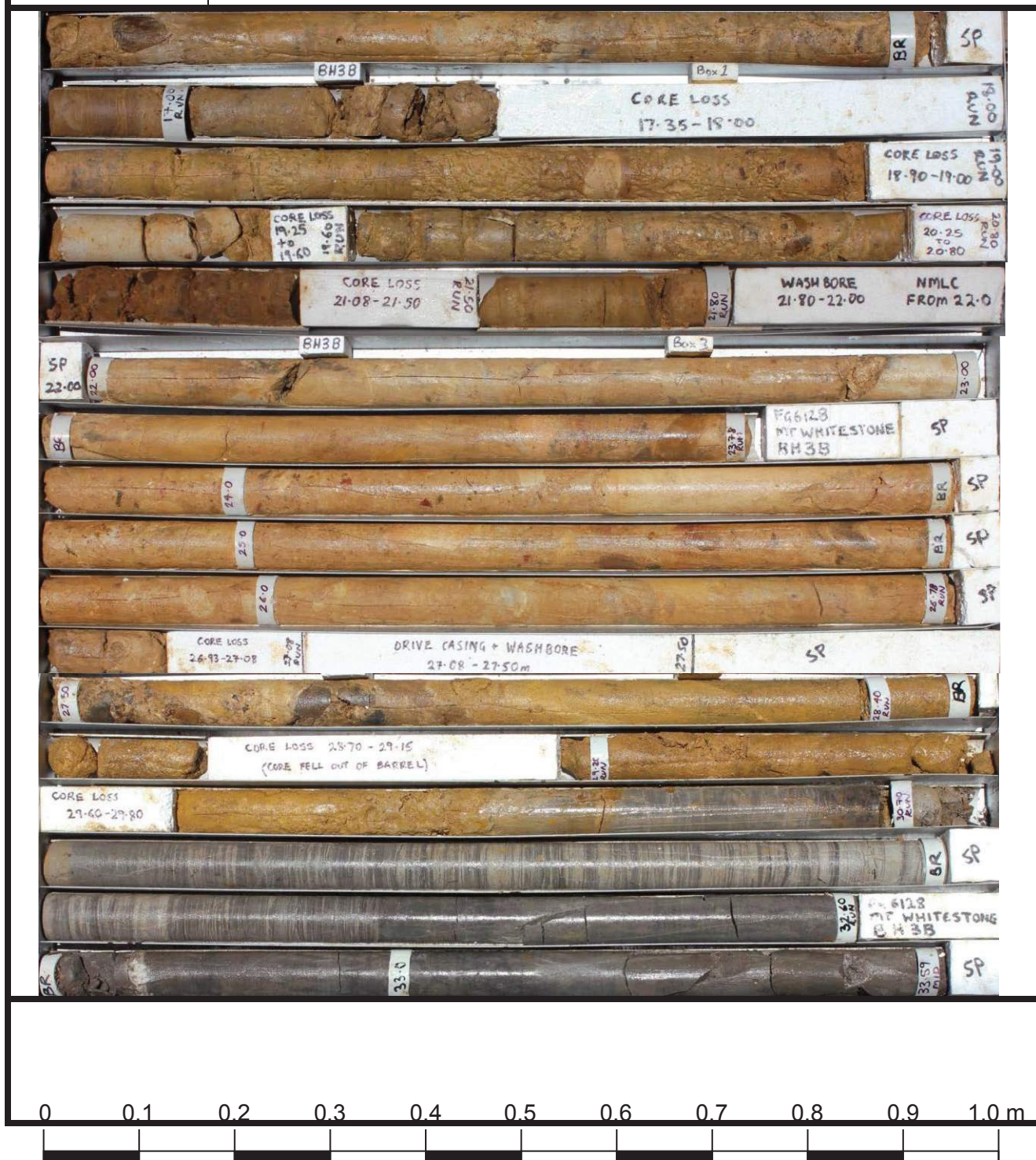


# CORE PHOTO LOG

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



Project Name	Mt Whitestone: Slope Instability Investigation, Supp. Inclinator Boreholes		
Project No.	FG6128	Date	10/6/14
Borehole No.	BH3B	TMR H No.	H11600
Location	Gatton-Clifton Rd	Start Depth (m)	15.70m
Detail	LHS table drain	Finish Depth (m)	40.12m
Chainage	Ch 15.308km	Prepared By	TAH
Remarks			



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35 Butterfield Street, Herston Qld 4006  
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Project Name	<b>Mt Whitestone: Slope Instability Investigation, Supp. Inclinator Boreholes</b>		
Project No.	FG6128	Date	10/6/14
Borehole No.	BH3B	TMR H No.	H11600
Location	Gatton-Clifton Rd	Start Depth (m)	15.70m
Detail	LHS table drain	Finish Depth (m)	40.12m
Chainage	<b>Ch 15.308km</b>	Prepared By	TAH
Remarks			



0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 m