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ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH2B</u>
SHEET	<u>1</u> of <u>5</u>
REFERENCE No	11599

PROJ	ECT	Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes										
LOCA	TION	<u>Gatto</u>	n-Clifto	n <u>R</u> d	l, RHS table drain (Middle) Ch 15.225km	· — -			COORDIN	NATES <u>416203</u>	<u>.8 E; 6937825.</u> 4	<u> N</u>
PROJ	ECT No	<u>FG6</u>	128		SURFACE R.L. <u>215.47m</u> PLUNGE			DATE STARTED 16/	6/14	GRID DATUM	MGA94	
JOB N	No				HEIGHT DATUM <u>AHD</u> BEARING			DATE COMPLETED 18/	6/ <u>14</u>	DRILLER	Hinterland Dri	lling
O DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	JSC	INTACT DEFECT STRENGTH SPACING (AS1726) (AS1726) HHILLIAN ON SAME		ADDITIONAL D AND TEST RESUL		SAMPLES
1 2 2	210.47			В	Sandy CLAY (COLLUVIUM) Orange brown, moist, very stiff to hard. Intermediate to high plasticity. Sand is fine to medium grained. Iron stained throughout. High strength rock fragments up to 40mm in size.					4,10,15; LL	= 24; LS = 7.6	SPT :
5				С			(CI)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	6,1	4,17; LL = 25; PI =	= 14; LS = 8.4; MC = 17.1%	SPT -
6 7 7 10				D						11,30/130mm; LL LS = 10	= 32; PI = 19; ; MC = 14.7%	SPT :
	EMARKS	Load	cell use	<u>d do</u> e	s not comply with the test method requirements.				_		OGGED BY	
									_		TH / WW	



ENGINEERING BOREHOLE LOG

BOREHOLE No	BH2B
SHEET	2 of5
REFERENCE No	11599

PRO	JECT	Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes										
					, RHS table drain (Middle) Ch 15.225km						ORDINATES 416203.8 E; 6937825.4 N	
					SURFACE R.L215.47m PLUNGE							
JOB	NO				HEIGHT DATUM <u>AHD</u> BEARING _			DATE COM	PLETED 1	8/6/1	14 DRILLER Hinterland Drillin	<u>ng</u>
	R.L. (m)	<u>0</u> 2	RQD ()%				(1)	INTACT STRENGTH	DEFECT SPACING	(J	ADDITIONAL DATA	
DEPTH (m)	, ,	KG KG H BORING			MATERIAL	ЭGY	RIN	STRENGTH (AS1726) HH	(AS1726)	GRAPHIC LOG	AND	တ္သ
DEP.	205.47	SING SING SING SING SING SING SING SING	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	SC	 ≣₹_≂ .ረ::	00. - >}}	APHI	TEST RESULTS	SAMPLES
10	205.47		REC %	SA		5	NE NE			GR		SA TE
					Sandy CLAY (COLLUVIUM) (Cont'd) As before.							
							(CI)		_::::::::			
-				Е					- : : : : : :		17,27,30	SPT
-11	204.37	Щ						· · · · · · · · · · · ·	 			-
					Sandy CLAY with Cobbles and Boulders (COLLUVIUM)	$[\circ]$			- : : : : : : : : : : : : : : : : : : :			
-			100		Orange brown, moist. Generally comprises a hard Sandy Clay of			: : : : : : -				-
					intermediate plasticity which contains a mix	101						
- 12					of high strength cobbles and boulders up to 230mm size.			-				-
13						101						
-									- : : : : : : : : : : : : : : : : : : :		UCS=11.2MPa	-
-						101			<u></u>	7	Sandstone boulder	
13			100									-
-						0			- : : : : : :			
												-
						0			- : : : : : : : : : : : : : : : : : : :			
14										2	Sandstone boulder	-
-						60		: : : : : =	- : : : : : :			
<u> </u>			97			00			-:::::::::::::::::::::::::::::::::::::			-
- - - 15						60			 		— Small water loss	_
- 13						00			-::::::::::::::::::::::::::::::::::::::		Sitiali water 1055	
						100	(0)		= : : : : : : : : : : : : : : : : : : :			_
-							(CI)		= : : : : : :			
_ _16								_				_
-						00						
E						00			- · · · · · · · · · · · · · · · · · · ·	-	Fracture at 40° planar, polished, tight & clean	-
E												
- 17						101			_: : : : : : :			-
E			100			000						
-						101		-			Small airculation lass	-
F						000				H	Small circulation loss	
- 18						00				$\mid \cdot \mid$	Soft clay layer with rock fragments	-
<u> </u>						000			- : : : : : : :			
ţ l						101		: : : : : : : : : : : : : : : : : : : :			Fracture at 50° planar, polished, tight	-
-						000			- : : : : : : :		& clean	
19						10/						-
-						000			- : : : : : : : :		Fracture at 35° planar, polished, tight	
-						00					& clean Fracture at 40° planar, polished, tight & clean	-
-16 -17 -17 -18						000					& clean Fracture at 20° planar, polished, tight & clean	
		*1.02	ا دواا باده	ad doc	es not comply with the test method requirements.	0/		L · · · · · · · · · · · · · · · · · · ·		Ш	LOGGED BY	-
R	EIVIARKS		<u>, oon use</u>	<u> uot</u>	2 not comply with the coefficient requirements.						TH / WW	



TMR LIBRARY FILE 2014.GIB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6128 MT WHITESTONE COMBINED.GPJ <<DrawngFile>> Datgel CPT Tool gillt Add-In 11/11/2015 15:25

ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH2B</u>
SHEET	3 of5
REFERENCE No	11599

PROJECT											
LOCATION	<u>Gatt</u>	on-Clifto	n <u>R</u> d	, RHS table drain (Middle) Ch 15.225km					CC	OORDINATES 416203.8 E; 6937825.	<u>4 N</u>
PROJECT No	F <u>G</u> 6	128		SURFACE R.L. <u>215.47m</u> PLUNGE _			DATE ST	ARTED 1	6/6/ <u></u>	14 GRID DATUM <u>MGA94</u>	
JOB No				HEIGHT DATUM <u>AHD</u> BEARING _			DATE COMP	PLETED 1	<u>8/6/</u>	DRILLER Hinterland Dr	lling
R.L. (m) HL dd D	AUGER CASING WASH BORING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION		USC	INTACT STRENGTH (AS1726)	DEFECT SPACING (AS1726)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
-21 -22 -22 -23 24 25 26 27 28 29 29		96 100	d doe	es not comply with the test method requirements.		(CI)				Fracture at 20° planar, polished, tight & clean Fracture at 10° planar, polished, tight & clean Fracture at 30° planar, polished, tight & clean UCS=843kPa	
KLIVIAKK										TH/WW	



ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH2B</u>
SHEET	<u>4</u> of <u>5</u>
REFERENCE No	11599

PROJECT	Mt Whitestone: Slope Instability Investigation - Preliminary Inclinometer Boreholes										
LOCATION				, RHS table drain (Middle) Ch 15.225km					ATES 416203		<u> </u>
				SURFACE R.L. 215.47m PLUNGE							
JOB No				HEIGHT DATUM <u>AHD</u> BEARING .			DATE COMPLETED 18/6	5/14	DRILLER	Hinterland Dri	<u>lling</u>
R.L. (m) HL430 30 185.47	AUGER CASING WASH BORING		SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT STRENGTH SPACING (AS1726) US CONTROL (AS1726) US CON		ADDITIONAL AND TEST RESU		SAMPLES
-		100		Sandy CLAY with Cobbles and Boulders (COLLUVIUM) (Cont'd) As before.				_ Loss 30.5r	%Pass	2.360mm = 98	-
-31 -31 		100				(CI)	-		%Pass clayey zone Pass	0.075mm = 62 0.002mm = 27	-
- - - - - - - - -					0000			- Sand	Istone cobble		
182.67	7	100 (45)		Interbedded SILTSTONE and SANDSTONE	000			& cle	ure at 35° planar, p an hed coal seam	oolished, tight	
	_	100 (77)		HW:Grey to black, fine to very fine grained, generally low to medium strength. Thin coal seams, carbonaceous layers, soft clay bands and relict shear zones throughout. Defects: J: 75° (<1/m); Stp/Ro, OP, FeSt. 2mm aperture. LP: 55° (<1/m); PI/Ro, TI.		HW		Soft	%Pass %Pass ls(50	0.075mm = 83 0.002mm = 18 0) = 0.04MPa; * 0) = 0.03MPa; *	x 0
- 35 - 35 179.82	2	100 (0)						Relic	ured coal seam t shear zone? clay seam with rocl	c fragments	
-36 - - - - - - - - - - - - - - - - - -	7	100		MW:Grey to dark grey, fine grained, medium strength. Fractured in parts with some clay bands. Thinly laminated at 0-5°. Defects: J: 90° (<1/m): Stp-Un/Ro, OP, ClyFL, 6-8mm		MW		— plana			0 X
-37 37 		(96)		aperture J: 30° (<1/m): PI/SI, T. SW:Grey, fine grained, medium to high strength. Some soft clay bands throughout. Laminated thoroughout at 0-5°. Defects: J: 10-20° (<1/m); PI/SI, TI.				& cle	Is(50 Is(50 ture at 20° planar, p) = 0.25MPa; *) = 0.27MPa; *	X O
		100 (100) 100 (100)				SW					
	S *Loa	d cell use	d doe	es not comply with the test method requirements.	<u></u>			_		LOGGED BY	
	TH/WW										



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ENGINEERING BOREHOLE LOG

BOREHOLE No	<u>BH2B</u>
SHEET	<u>5</u> of <u>5</u>
REFERENCE No	11599

PRO	JECT	Mt W	/hiteston	e: Sl	ope Instability Investigation - Preliminary Incline	met	er_Bo	rehc	les				
LOC	ATION	<u>Gatto</u>	on-Cliftor	n <u>R</u> d	, RHS table drain (Middle) Ch 15.225km						СО	ORDINATES 416203.8 E; 6937825.4	<u> </u>
PRO	JECT No	FG6	128		SURFACE R.L. <u>215.47m</u> PLUNGE	DATE STARTED <u>16/6/14</u> GRID DATUM				4 GRID DATUM MGA94			
JOB	No				HEIGHT DATUM <u>AHD</u> BEARING			DA	TE COM	IPLETED _1	<u>8/6/1</u>	4 DRILLER Hinterland Dri	lling
OEPTH (m)	R.L. (m)	AÜGER CASING WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	IN STR	TACT ENGTH IS1726)	DEFECT SPACING (AS1726) UO SSSSMIN UNITED STATEMENT OF THE STATEMENT OF T	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
	173.77		100		Interbedded SILTSTONE and SANDSTONE SW: (Cont'd) As before.		sw					Inclinometer installed Siltstone with carbonaceous pockets (possible fossil rootlets)	
-44 -44 -45 -45 -46 -47 -47 -48 -48					Borehole terminated at 41.7m								
F	REMARKS	S *Load	d cell use	d doe	es not comply with the test method requirements.							LOGGED BY TH / WW	
							I [] / VV VV						

CORE PHOTO LOG

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



roject Name	Mt Whitestone: Slope Instability		
Project No.	FG6128	Date	23/6/14
Borehole No.	BH2B	TMR H No.	H11599
Location	Gatton-Clifton Rd	Start Depth (m)	8.70m
Detail	RHS table drain	Finish Depth (m)	41.65m
Chainage Remarks	Ch 15.225km	Prepared By	TAH
to the second	BHZB		Z Z
	CL 13-20- 13-25		88 88
Q S			ag
SP C	58 S		RR B
SP &			W W W W W W W W W W W W W W W W W W W
SP & 20-3			a a
SP (a	BHZR	Box 3	88 A. A.
	Maria San Maria		S S S S S S S S S S S S S S S S S S S
22			BR BR
A Maria			29.10 N

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. Inclinometer Boreholes								
Project No.	FG6128	FG6128 Date 23/6/14							
Borehole No.	BH2B	TMR H No.	H11599						
Location	Gatton-Clifton Rd	Start Depth (m)	8.70m						
Detail	RHS table drain	Finish Depth (m)	41.65m						
Chainage	Ch 15.225km	Prepared By	TAH						
Remarks		·							

