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TMR JAN 15.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datgel CPT Tool glNt Add-In 04/03/2015 10:51

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH155
SHEET	_1_ of _3_
REFERENCE No	12096

LOCATION S	Sugars	shed Roa	id Ov	<u>/erpass Abutment A; CH: 10008m;</u>				CC	OORDINATES <u>721585.7 E; 7662318.7</u>	<u>N</u>
PROJECT No_F	G618	4		SURFACE R.L. <u>10</u> .85m_ PLUNGE			DATE STARTED 3	<u>1/10</u>	0/14 GRID DATUM <u>GDA 94 /MGA</u>	<u>Zone</u> <u>55</u>
JOB No _	. _ _			HEIGHT DATUM <u>AHD</u> BEARING			DATE COMPLETED 3	1/10	D/14 DRILLER Saxon Drilling	
R.L. (m) HLL (m) HL	WASH BORING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
- 10.03	П			Gravelly Clayey SAND (FILL)			: : : : : : + : : : : : : :			-
0.50 10.35				Brown, moist, loose to medium dense. Fine to coarse grained sand. Fine gravel.	\bowtie	(SC)				
- - - - -				Silty CLAY (ALLUVIUM) Dark brown to black, moist, stiff to very stiff. High plasticity.						-
- - - -			Α						2,3,9 N=12	SPT
							T.			-
-2 - - - -			В						Su _(PP) =80kPa;	U50 =
- - - - -3				2.50m: Colour change to brown-grey mottled orange.			T. T			-
- - - -			С			(CH)	<u> </u>		3,6,14 N=20	SPT =
- - - - - 4						(0				-
- - - - -			D				±		2,3,8 N=11	SPT -
- -5 - - -			Е						3,6,14 N=20	SPT :
- - - - - - - - - - - - - - - - - - -			F				+ + + + + + + + + + + + + + + + + + +		3,3,10 N=13	SPT
6.50 4.35				Sandy CLAY (ALLUVIUM) Grey, brown, moist, very stiff. Low to medium plasticity. Fine to coarse grained sand.		(CL-	<u> </u>		6,7,16	SPT
- - - - - - - - - - 2.95						CI)			6,7,16 N=23	- - - - -
			Н	Clayey SAND (ALLUVIUM) Pale brown to white, moist, medium dense to dense. Fine to medium grained sand.		(SC)			7,9,12 N=21	SPT -
- 9 			J				+		8,13,20 N=33	SPT -
				Sandy Silty CLAY (ALLUVIUM)		(CI)				
REMARKS <u>F</u>				ranodiorite; ng existing defect surface.	·				LOGGED BY MS	



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ENGINEERINGBOREHOLE LOG

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

BOREHOLE No __BH155__
SHEET __2_ of __3_
REFERENCE No __12096___

PRO.	JECT	_Ma	acka	ay Ring F	Road_	Geotechnical Investigation - Stage 1							
LOC	ATION	_ <u>Su</u>	ıgar	shed Ro	ad O	verpass Abutment A; CH: 10008m;					СО	ORDINATES <u>721585.7 E; 7662318</u>	.7 <u>N</u>
PRO.	JECT N	0 <u>F</u>	618	<u>84</u>		SURFACE R.L. <u>10.85m</u> PLUNGE _				DATE STARTED 3	<u>1/10</u>	<u>//14</u> GRID DATUM <u>GDA 94 /MG/</u>	<u> A Zone 55</u>
JOB	No					HEIGHT DATUMAHD BEARING			-	DATE COMPLETED 3	1/10	DRILLER Saxon Drilling	<u> </u>
DEPTH (m)	R.L. (m)		VASH BORING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	nsc	WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
<u>10</u>	0.85			REC %		Sandy Silty CLAY (ALLUVIUM) (Cont'd)		ا ر	>			7,12,15	-
- -	-0.05				K	Brown-grey mottled orange, moist, very stiff. Medium plasticity.		(C	CI)			N=27	SPT :
10.90 11	-0.05					GRANODIORITE (Kgwu)	+						-
- - - - -					L	XW: Recovered as brown, grey and white, moist, very stiff to hard Clayey Sandy SILT. Low to medium plasticity.	+ + +					7,13,15 N=28	SPT -
- - - 12		Ш						X۱	w	<u> </u>			
- - - -					М		-					11,13,20 N=33	SPT =
-		Ш					+						-
13,09 -	-2.15	1			N	MICRODIORITE (Kgwu)	<u></u> [+]			<u> </u>		30/90	SPT _
- - - - - - -						XW: Recovered as black to dark grey, moist to dry, very dense Clayey SAND. Fine to medium grained sand. Some fine to medium gravel sized HW rock fragments.	+ + + - + - +			‡			- - - - - - - - - - - - - - - - - - -
14 					Р		[+] + + +	X۱	w			18,29,30/80	SPT -
- - - - - 15.15	-4.25				Q		- + - + - +					30/30	SPT
- - - - - - -				(15)		MICRODIORITE (Kgwu) SW: Black, fine grained, massive, very high strength. Highly fractured, occasional thin clay seams. Some XW zones with EL strength. Defects:	+ - + - + - + - + - + -				1 1	Is(50) = 3.72MPa □−15.25m-15.35m: Clay seam. □−15.45m-15.50m: Clay seam.	(15.10m)
- 16 - - - - - -				(30)		- Js; 25° (1/m); PI-Un/Ro, OP-TI, some Fe St, some Cly Vr; - Js; 40°-45° (4/m); PI-Un/Ro, OP-TI, some Fe St, some Cly Vr;	-	SI	w			ls(50) = 1.66MPa;#	- - - - -
- - - - 17 -						- Js; 60° (3/m); PI-Un/Ro, OP-TI, some Fe St, some Cly Vr; - Js; 75°-85° (3/m); PI-Un/Ro, OP-TI, some Fe St, some Cly Vr;	+					Is(50) = 3.72MPa	D (16.65m) D (16.70m) D (17.00m)
-				100 (24)			+						=
-				(24)				X۱	w			17.50m-17.90m: XW rock recovered as Silty CLAY.	-
- - - 18 -							-					Is(50) = 7.61MPa Is(50) = 7.96MPa	D (17.90m) A (17.95m)
-				(8)			- <u>+</u> -						-
- - - - - 19							- · - · - - · -	S۱	w			s(50) = 6.68MPa 	D _(18.65m) -
-							+ - +					☐ 19.18m-19.27m: Clay seam.	
-							+ + +					⊐− 19.49m-19.54m: Clay seam.	-
20				100			+			<u>: </u>			
R	EMARK					ranodiorite; ong existing defect surface.		_	-			LOGGED BY MS	
		_	_					_	_				



ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH155
SHEET	_3_ of _3_
REFERENCE No	12096

PROJECT					Geotechnical Investigation - Stag										
LOCATIO					verpass Abutment A; CH: 10008r									5.7 E; 7662318	
	ΓNo_				SURFACE R.L. <u>10.85m</u>									<u>GDA 94 /MG</u>	
JOB No	-				HEIGHT DATUM <u>AHD</u>	BEARING _			DATE COM	IPLETED <u>3</u>	1/10/14	D	RILLER	Saxon Drilling	<u>g</u>
(E) R.L (m) (m) 20 -9.) AUGER	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC %	SAMPLE	MATERIA DESCRIPTI		LITHOLOGY	USC WEATHERING	INTACT STRENGTH ボチェミュラゴ	DEFECT SPACING (mm)	GRAPHIC LOG		TIONAL AND ST RESU		SAMPLES
- - - - - - - -			(45)		MICRODIORITE (Kgwu) SW: (Cont'd)		+++	SW					Is(50) Is(5	= 5.90MPa; # 50) = 4.96MPa	D
-24 22 23 24 25 26 27 27 28 28			100		Borehole terminated at 21.11	n									
30															
REMA					ranodiorite;								L	OGGED BY	
		# San	nple faile	ed alc	ng existing defect surface.									MS	

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



Project Name	Mackay – Ring Road			
Project No	FG6184		Date	31/10/14
Borehole No	BH155		TMR H No	12096
Location	Sugarshed Road Overp	ass	Start Depth (m	
Detail	Abutment A		Finish Depth (
Chainage	10008m		Submitted By	J. Lopez
Remarks				
	K W S	Y		
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	FEX	1	
FG6184		BHISS		()·
FOR PARTY				B9 X 1
		27 10 1		
E P)	5°		
	13	TA.	-	
FGGIS	9	BHISS	B	OX2
				20°0
0 100	200 300	0 400	500 6	700
		SCALE 1:5		