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

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH144
SHEET	_1_ of _3_
REFERENCE No	12085

PRO.	JECT	_M	acka	ay Ring F	Road	Geotechnical Investigation - Stage 1								
LOC	ATION	_F	<u>ırsd</u>	en Creek	<u>Brid</u>	ge Abutment B; CH: 9195m;				COOR	DINATES	721489	.9 E; 7661511.	8 N
PRO.	JECT N	0 <u>F</u> (<u>361</u>	84		SURFACE R.L 7.61m PLUNGE				DATE STARTED <u>2/9/14</u> _	_ GRID [DATUM	GDA 94 /MG/	A Zone 5
JOB	No	_				HEIGHT DATUM <u>AHD</u> BEARING				DATE COMPLETED 4/9/14	_ DI	RILLER	ND Drilling Pt	y Ltd
DEPTH (m)	R.L. (m)	SER	SH BORING RE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	0	ATHERING	INTACT DEFECT SPACING (mm) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TIONAL I AND		SAMPLES
0	7.61	-PŠ	\$0	CORE REC %	SAI		트	ŠN	WE	<u> </u>	110	I KLOUI	-10	SAI
0.30	7.31	_				Sandy CLAY (TOPSOIL): Dark brown mottled orange, dry, soft. Medium plasticity. Fine to medium grained sand. Roots throughout.	11.3	(C	(1)	<u> </u>				- - - -
- - - 1 - - - - 1.50	6.11				А	Sandy CLAY (ALLUVIUM) Black, dry, stiff. Medium plasticity. Fine to medium grained sand.		(C	(1)	-			3,6,6 N=12	SPT -
- - - - - - 2	0.11				В	Silty SAND (ALLUVIUM) Brown, moist, loose. Fine to medium grained sand.		(SI	M)				3,4,5	SPT -
2.40	5.21 4.61					Clayey SAND (ALLUVIUM) Brown mottled orange, moist to wet, medium dense. Fine to medium grained sand. Medium plasticity.		(St	C)				N=9	- - - - -
- - - -3.45	4.16	3			С	Sandy CLAY (ALLUVIUM) Grey, moist, firm. Medium plasticity. Fine to medium grained sand.		(C	;I)				2,3,4 N=7	SPT =
- - - - 4 - - - - 4.50	3.11				D	Clayey SAND (ALLUVIUM) Grey, wet, loose. Fine to coarse grained sand.		(S(C)				4,4,2 N=6	SPT -
- - - 4.90	2.71					Silty SAND (ALLUVIUM) Grey, wet, medium dense. Fine to medium grained sand.		(SI	M)					-
- - - - - - - - - - - -					Е	CLAY with sand (ALLUVIUM) Dark grey mottled brown, moist, stiff. High plasticity. Fine to medium grained sand.		(CI	H)				3,4,6 N=10	SPT -
- - - - - - -	1.25	<u>i</u>			F	Clayey SAND (ALLUVIUM)		(S(C)			s 	u _(PP) =100kPa;	U50 -
6.80 - - 7 -	0.81				G	Grey, moist, medium dense. Fine to coarse grained. Medium dense. Sandy CLAY (ALLUVIUM) Grey mottled orange-brown, moist, very stiff. Medium plasticity. Fine to coarse		(C					4,7,10 N=17	SPT
7.50 - - - - - - 8	0.11				Н	grained sand. Silty SAND (ALLUVIUM) Pale grey, wet, dense. Fine to medium grained.		(SI	M)				13,18,16	- - - - SPT -
- - - - - 8.90	-1.29					Clavov SAND (PECIDIAL)	///						N=34	-
—9 - - - - - - -					J	Clayey SAND (RESIDUAL) Orange-brown mottled grey, moist, medium dense to dense. Fine to coarse grained, medium plasticity.		(S(C)				6,9,11 N=20	SPT -
10100 R	-2.39 EMARK	(S K				iranodiorite; ing existing defect surface.	<i>YZ</i>						OGGED BY EB/ND	
		_	_			<u> </u>		_	_					



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ENGINEERINGBOREHOLE LOG

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

BOREHOLE No __BH144 __

SHEET __2 _ of __3 __

REFERENCE No __12085 ___

PRC	JECT					Geotechnical Investigation - Stage 1							
						ge Abutment B; CH: 9195m;					NATES <u>721489</u>		
) <u>F</u>				SURFACE R.L 7.61m PLUNGE							
JOB	No					HEIGHT DATUM <u>AHD</u> BEARING			DATE COMPLETED 4/9	9/14	DRILLER	ND Drilling Pt	y Ltd
DEPTH (m)	R.L. (m)	AÚGER CASING	WASH BUKING CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL D AND TEST RESUL		SAMPLES TESTS
-	-2.00		П			Clayey SAND (RESIDUAL)						9,15,18	-
- - - - - - - -					K	(Cont'd)			±			N=33	SPT -
-					L	11.40m: Becoming green-grey mottled brown. Trace fine, angular gravel.		(SC)				7,12,14 N=26	SPT =
- -12 -12.15 - - -	-4.54				М	GRANODIORITE (Kgwu) XW: White, grey and pink, coarse grained, extremely low strength.	+		±			11,23,37 N=60	SPT =
- - - - - 13					N	extremely low strength.	+ -		± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			13,25,30	SPT
-					IN		+ -		±			N=55	
14 					Р	14.30m: Brown, grey and green in colour.	+ -		<u> </u>			13,28,30/80	SPT -
- - 15 - - -					Q	15.20m: Becoming grey with clayey bands.	-		±			16,19,40	- - SPT -
 - - - - - - 16							 + + 	xw				N=59	- - - - - - -
- - - - - - - 17					R		+ -		‡			21,26,37 N=63	SPT -
- - - - - - - -					S		 + +		<u> </u>			25,32,43 N=75	SPT -
					Т		 - - - -		# #			31,44,30/75	SPT -
- - - 19.40	-11.79			(0) 100 (0)	/	Core Loss	+ +					31,11,00/70	-
- - - 20 200	-12.39			0	\mathbb{X}		\mathbb{X}			19.4	10m-20.00m: Core Lo	ss	
F	REMARK					iranodiorite;					L	OGGED BY EB/ND	
		_											



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ENGINEERINGBOREHOLE LOG

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

PRO	JECT					Geotechnical Investigation - Stage 1							
	ATION					ge Abutment B; CH: 9195m;						ORDINATES 721489.9 E; 7661511.	
						SURFACE R.L 7.61m PLUNGE _							
JOB	No					HEIGHT DATUM <u>AHD</u> BEARING _				DATE COMPLETED 4/	9/14	4 DRILLER ND Drilling Pt	y Ltd
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	CORE DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОСУ	USC	WEATHERING	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
-	.2.00		П		U	GRANODIORITE (Kgwu)	+					40/110	SPT _
	-14.76			(0) 22 (0)	W	XW: (Cont'd) GRANODIORITE (Kgwu) HW: Grey, white and pink, fine to coarse	+ + + + + + + + + + + + + + + + + + + +	XV	v			50/130 -22.13m-22.38m: Core Loss -22.50m-22.60m: Is(50) = 0.02MPa; #	SPT -
- 23 - 23 	-16.09			60 (20) 100 (40)		HW. Gley, white and pink, life to coarse grained, massive, very low strength. Highly friable. Defects: - Js; 0°-10° (4/m); PI/Ro, TI; - Js; 20°-30° (4/m); PI/Ro, TI; - Js; 45° (2/m); PI/Ro, TI;	+ + + + + + + + + + + + + + + + + + + +	HW	v			— 23.00m: J; 0°, Pl/Ro;	- - - - - - -
- 24 - - - - - - - - - - - -				100 (93)		GRANODIORITE (Kgwu) SW: Grey, white and pink, fine to coarse grained, massive, very high strength. Defects: - Js; 0°-15° (1-2/m); PI/Ro, TI; mainly Cn, some CA; - Js; 40°-45° (2/m); PI/Ro, TI; mainly Cn, some CA;	+ + + + + +						-
- 20 				100 (100) 100 (100) 100 (80)			+ + + + + + + + + + + + + + + + + + + +	sw	v			— 25.10m: J; 30°, CD; — 25.40m: J; 0°, Pl/Ro, OP; Is(50) = 8.88MPa — 25.65m: J; 30°, CD; Is(50) = 8.20MPa — 26.12m: J; 0°, Un/Ro;	D (25.55m)- A (25.60m)-
- - - - - - - - - - - - - - - - - - -	-19.56					MICRODIORITE (Kgwu) SW: Dark grey, fine to medium grained, massive, very high strength. Defects: - Js; 45° (<1/m); PI/Ro, TI, Cn;	+ - + - + - + - + - + - + - + - + - + -	Sw	v		\sim	- 27.17m-27.40m: AZ; CA Vn; Is(50) = 6.28MPa; # Is(50) = 6.21MPa	D (27.50m) A (27.60m)
 - - 29 	-21.54			100		Borehole terminated at 29.15m	+ + +			+		Is(50) = 6.91MPa Is(50) = 7.22MPa	A (28.58m) D (28.60m)
- - - - - - 30										+			-
F	REMARK					ranodiorite;						LOGGED BY EB/ND	
		<u>#</u> S	<u>am</u>	ple faile	<u>d</u> alo	ng existing defect surface.			_			ED/NU	

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



	Mackay - Ring Ro	ad										
Project Name Project No	FG6184	- Wa Wa	Date	04/09/14								
Borehole No	BH144	TMR H No	12085									
Location	Fursden Creek Brid	Start Depth (m)	19.0									
Detail	Abutment B	Finish Depth (m)	29.15									
Chainage	9195m	Submitted By	DC									
Remarks	Cubilities By											
	The Add Assessed											
S CORE TORE												
WASH BORE												
CORE LOS	5	S Loss	Va Paris	A								
		67		200								
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			and the second	8								
	14-15 FIWIS#		D. 产生的	Control Control								
X Marie Control	表達											
		Scale (mm)										
100 2	200 300 40	00 500 600	700 800	900 1000								
	200 1	200 000	, , , ,	1000								