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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 10:50

ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH105
SHEET	_1_ of _3_
REFERENCE No	12052

PROJECT				Geotechnical Investigation - Stage 1							
LOCATION				Overpass Abutment B; CH: 3850m;					ORDINATES <u>720725</u>		
PROJECT N				SURFACE R.L. <u>11.24m</u> PLUNGE _						GDA 94 /MG/	<u> Zone 55</u>
JOB No				HEIGHT DATUM <u>AHD</u> BEARING _			DATE COMPLETED	18/9/14	4 DRILLER	Saxon Drilling	L
R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%	쁘	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL D AND TEST RESUL		SAMPLES
_0 11.24 -	1 1	I KLO /	0,	Silty Sandy CLAY (ALLUVIUM)		-1-					-
- - - - - - - -				Brown-orange mottled grey, moist, firm to stiff. Medium to mainly high plasticity.		(CI- CH)	±				- - - - - -
	1		Α						<u>V</u> 17/9	4,4,6 N=10	SPT =
			В	Silty SAND (ALLUVIUM) Brown, moist, medium dense. Fine grained.		0.14	<u> </u>			3,5,7 N=12	SPT -
			С	3.00m: Becoming loose.		SM)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			1,1,1 N=2	SPT -
	<u>+</u>		D	Silty CLAY (ALLUVIUM) Brown, moist, stiff. High plasticity. Trace sand.						4,5,7 N=12	SPT -
- - - - - - - - - - - -			E	5.00m: Colour becoming brown-orange mottled grey.		CH)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			2,4,6 N=10	SPT :
- - - - - - - -	<u>4</u>		F	Clayey SAND (ALLUVIUM) Grey, moist, medium dense to dense. Fine to medium grained.						- — — <u>- 8,8,9</u> N=17	SPT :
- 7 			G							7,10,15 N=25	SPT]
			Н	8.00m: Colour change to brown and grey.		SC)	± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			6,8,21 N=29	SPT -
- - - 9 - - - -			J				± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±			10,21,18 N=39	SPT -
9.80 1.44	4			CIA. CLAV (DECIDITAL) (Consequence		CL IN		:			
REMAR	\ Kgw 	u <u>- Wun</u>	daru C	Silty CLAY (RESIDUAL) (See over) Sranodiorite;		CH)		<u></u>	L	OGGED BY MS	



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ENGINEERINGBOREHOLE LOG

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

BOREHOLE No __BH105 __
SHEET __2 __ of __3 __
REFERENCE No __12052 ___

PROJECT				Geotechnical Investigation - Stage 1			 RDINATES	
				SURFACE R.L11.24m_ PLUNGE				
JOB No				HEIGHT DATUM AHD BEARING				
R.L. (m)	AUGER CASING WASH BORING	CORE	SAMPLE	MATERIAL DESCRIPTION		INTACT DEFECT SPACING (mm) OUT OF THE WAY OF	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
	1	REC %	K	Silty CLAY (RESIDUAL)		<u> </u>	8,12,18	SPT -
- - - - -			K	(Cont'd) Brown-orange mottled grey, moist, mainly very stiff to hard. Mainly high plasticity, medium plasticity in			N=30	
- 11 - - - - -			L	parts.			6,8,11 N=19	SPT =
- - - - - - - -			М				5,8,12 N=20	SPT]
- - - - - - - - 13						±.		- - - - -
- - - - - -			N		(CI	H) = ==================================	12,17,18 N=35	SPT =
- 14 15 			Р				7,9,12 N=21	SPT -
- - - - 15 - - -			Q				6,9,12 N=21	SPT -
 			R				5,12,21 N=33	SPT -
-16.80 -5.5 - -17 -	66		S	Sandy Silty CLAY (RESIDUAL) Brown mottled grey, moist, hard. Medium plasticity. Fine to medium grained sand.			19,15,23 N=38	SPT =
- - - - - - - - 18			Т		(C		12,15,25 N=40	SPT
- - - - - - - - - 19				19.00m: Colour change to dark brown-grey			14-40	-
- - 19.50 -8.2 - -	26		U	mottled orange. Low Plasticity. Fine to coarse grained sand. Clayey SAND (RESIDUAL) Brown, moist to dry, very dense.	(SC	2)	19,27,30/110	SPT -
REMAR	KS <u>Kgw</u> u	u <u>- Wunda</u>	aru G	Fine to coarse grained.			LOGGED BY MS	



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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	BH105
SHEET	_3_ of _3_
REFERENCE No	12052

PRO	JECT	_Mack	ay Ring F	Road_	Geotechnical Investigation - Stage 1							
LOC	ATION	<u>Schm</u>	nid <u>tke's</u> R	oad (Overpass Abutment B; CH: 3850m;					СО	ORDINATES <u>720725.9 E; 7656222.</u>	3 <u>N</u>
PRO	JECT No				SURFACE R.L. <u>11.24m</u> PLUNGE _						14 GRID DATUM <u>GDA 94 /MGA</u>	<u> Zone 55</u>
JOB	No				HEIGHT DATUM <u>AHD</u> BEARING _		_	-	DATE COMPLETED _18	3/9/	14 DRILLER <u>Saxon Drilling</u>	
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	nsc	WEATHERING	INTACT DEFECT STRENGTH SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
-20.15	-8.91	1	(86)	V	Clayey SAND (RESIDUAL) (Cont'd)		(S	C)			30/50	SPT _
- 21			100		GRANODIORITE (Kgwu) HW: White, grey and brown, medium to coarse grained, massive, very low strength. Defects: - Js; 5° (2/m); Pl-Un/Ro, OP, Cly Vr;	1+ + + + + + + + + + + + + + + + + + +	H	W			q _u =646kPa; q _u =365kPa; 21.60m-21.95m: XW-HW rock with EL	UCS -
			100			┝╷-					strength.	-
- 22 - - - - - - - - _{22.75}	-11.51		(53)			+ + +	1				22.25m-22.75m: XW-HW rock with EL strength.	
					Borehole terminated at 22.75m							
R	EMARK	S <u>Kgw</u> ı	ı - Wund	aru G	Granodiorite;		_	_			LOGGED BY	
							_	-			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	17/09/14
Borehole No	BH 105			TMR H No	12052
Location	Schmidke's Ro	ad Overpass		Start Depth (m)	20.1
Detail	Abutment B			Finish Depth (m)	22.75
Chainage	3850			Submitted By	J. Lopez
Remarks					
E V V	and the same of th		Sales de la	100	
			tristan i		
Same	0,0		er, im-te-		
				- Contraction	
C A			22.0	A STATE OF THE	
La series		10-18-4			
FG	616A		RHIDS	B (XI
	人族 "				
0 100) 200	300	400	500 600	700

SCALE

1:5