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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND

FINAL 17/03/2016

BOREHOLE No BH279

Sheet 1 of 2

4) V			-	•			IYZ	MBOLS	REFER FORM	F:GEO	Г 017/8-2014		REFE	RENCE No	H1	12431
ROJECT		N	Лас	kay Rin _{	g Ro	ad											
OCATION		L	.ago	oon Creek COORDINATES 721040.2 E; 7658343.2 N													
ROJECT No)	F	G62	184		SURFACE RL 7.05m		PLU	INGE 9	0°		DATE STAR	TED 12/10/201	15	GRID DATUM	DA 94 / N	ИGA Z55
OB No		242/10G/906 HEIGHT DATUM A.H.D.					BEARING DATE COMPLETED 13/10/2015					5 DRILLER Cairns Drilling					
DEPTH (m))	AUGEK	WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION		LITHOLOGY	USCS WEATHERING	INTACT STRENGT	Н	DEFECT SPACING		ADDITIONA AND TEST RES			SAMPLES TESTS
6.5	1					Silty CLAY (Topsoil) Dark grey, dry, soft to firm. L medium plasticity, organics a			(CI)		#						_ _ _ _
					А	cootlets. CLAY (Alluvium)		Æ	(61)		#					3, 4, 5 N=9	SPT
5.5	5				В	Dark grey, dry, stiff. ow to medium plasticity. 1.00m: becomes grey			(CI)		#					3, 4, 5 N=9	SPT
						CLAY trace sand (Alluvium) Grey brown, moist, firm to s Fine grained sand, low to me					Ŧ					3, 3, 5 N=8	SPT
- 2					D	plasticity. 2.00m: becomes grey, firm.	diuiii				#	-				3, 3, 4 N=7	SPT
					Е	2.5m: Becoming soft.			(CI)		#					47% PI= 24% 3.1% LS= 12% hw, 2, 1	SPT
- 3					F	3.00 to 3.80m: Clay lens: dai brown, moist, very soft. Medi high plasticity.		==			#	-				N=3	U50
3.2	5				G	SAND trace silt (Alluvium)										hw, 2, 7 N=9	SPT
- 4						Grey, moist, loose. Medium to coarse grained, subrounded to subangular.					#	-				3, 5, 4 N=9	SPT
					1	4.50m: becomes medium de Trace fine to medium grained gravel, subrounded grains.					#					3, 6, 6 N=12	SPT
- 5					J				(SP)		#	-				2, 5, 6 N=11	SPT
					К	5.50m: becomes loose					#					3, 3, 3 N=6	SPT
- 6					L	6.00m: with fine to medium gravel, subrounded grains.	rained				#	-				1, 3, 3 N=6	SPT
0.4	5					Silty CLAY trace sand (Alluviu Mottled grey and red brown		×			#					2, 7, 10 N=17	SPT
- 7						very stiff. Fine grained sand, medium to high plasticity. 7.00m: becomes hard. Trace		×_				-				4, 18, 23 N=41	SPT
					0	to medium grained gravel, ar grains.		×_	(CI)		#					5, 18, 21 N=39	SPT
- 8					Р	8.00m: becomes very stiff		×_			#	-				7, 10, 13 N=23	SPT
-1.7 -1.9					Q	8.50m: becomes mottled pall brown, dark grey and orange brown. Trace fine grained sa	nd.	×-	(CI)		#					6, 12, 16 N=28	SPT
9 -1.8	,,,				R	Silty CLAY trace sand (Residu Pale brown, dark grey and o brown, moist, very stiff. Fine	ange	d-			#	-				13, 20, 21 N=41	SPT
-2.9	95				S	sand, medium plasticity. Clayey SAND trace gravel (Re			(SC)		#					13, 30/140	SPT
-2.0	. J			1		Continued on next sheet		100									
REMA	٩Rk	<s:< td=""><td>: H</td><td>(gwu =</td><td>= W</td><td>/undaru Granodiorite</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>GED BY</td><td></td><td>WED BY</td></s:<>	: H	(gwu =	= W	/undaru Granodiorite									GED BY		WED BY
														T.G	oosey	S.I	Foley
							77.00	CEOTES									

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/8-2014 FINAL 17/03/2016

BH279 BOREHOLE No

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H12431 REFERENCE No

Mackay Ring Road PROJECT Lagoon Creek COORDINATES 721040.2 E; 7658343.2 N LOCATION FG6184 PLUNGE 90° DATE STARTED 12/10/2015 GRID DATUM GDA 94 / MGA Z55 SURFACE RL 7.05m PROJECT No 242/10G/906 DRILLER Cairns Drilling HEIGHT DATUM A.H.D. DATE COMPLETED 13/10/2015 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY SAMPLE STRENGTH RΙ DEPTH MATERIAL DESCRIPTION (m) CORE REC % ᆂᆇᅥᅿᅿᅖᆛᇚᇰᄓᇎᇂᇂᆘᇕ Brown and dark grey, moist, dense 30/130 to very dense. XW GRANODIORITE (Kgwu) XW: Recovered as grey brown, (65) moist, very dense, silty sand. Fine to MW -3.95 çoarse grained sand. Is(50)=7.10 MPa D (11.05m)_ GRANODIORITE SW SW: Green grey, grey and black, medium to coarse grained, 11.59m-11.70m: MW zone, MW crystalline, massive, slightly nedium to high strength (97) A (11.85m)_ Is(50)=2.70 MPa porphyritic, elongated hornblende phenocrysts, generally very high strength. s: 25° to 35° ;(2/m); Pl/Ro ;Cly Ct, s: 40° to 50;° (3/m); PI/Ro; Fe St; Is(50)=6.80 MPa Is(50)=5.00 MPa D (12.82m) s: 65° to 80° ; (1/m); PI-Un/Ro; Cly A (12.83m) 13 Ct 3mm, Fe St; SW 12.20m: Defects become: Js: 5° to 20°; (1/m); PI/Ro; Fe St; Is(50)=5.40 MPa A (13.46m) Is(50)=8.70 MPa D (14.15m) Is(50)=8.70 MPa A (14.16m) UCS=91.20 MPa E=89.5 GPa (14.65m) --7.71 100 Borehole completed at 14.76m v= 0.19 15 16 REMARKS: Kgwu = Wundaru Granodiorite **LOGGED BY REVIEWED BY** T.Goosey S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

CORE PHOTO LOG

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



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	13/10/15
Borehole No.	BH 279	TMR H No.	H12431
Location	Lagoon	Start Depth (m)	10.70
Detail	Abutment A, centreline	Finish Depth (m)	14.76
Chainage		Submitted By	M.Ensor
Remarks			
7.01 	e E		
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