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GEOTECHNICAL BOREHOLE LOG

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

BH206

Sheet 1 of 3

BOREHOLE No

REFERENCE No

H12215

PROJE	ст	Ν	Лас	kay Rin	g Ro	ad								
LOCAT	ION	P	Pion	eer Riv	er B	ridge, Pier 1 (RHS)					CO	ORDINATES 721271.5	E; 766004	1.1 N
PROJE	CT No	F	G6	184		SURFACE RL 6.24m	PLU	NGE S	90°	DATE STAF	RTED 10/09/2015	GRID DATUM	5DA 94 / N	1GA Z55
JOB No	D C	2	242/	'10G/90	06	HEIGHT DATUM A.H.D.	BEAF	RING_		DATE COMPLE	ETED 11/09/2015	DRILLER C	Cairns Drill	ing
DEPTH (m)	R.L. (m)	UGER	WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	ГІТНОГОБҮ	USCS WEATHERING	INTACT STRENGTH 표근구구,구,구,리			DDITIONAL DATA AND rest results		SAMPLES TESTS
-	5.64					Sandy CLAY (Topsoil) Dark brown, dry, very soft to soft. Low plasticity, rootlets and organics. Sandy CLAY (Alluvium)		(CL)						
- - - - - -						Dark brown, moist, soft to firm. Fine grained sand, low plasticity.							1, 1, 2 N=3	SPT
- - - - - - -					В			(CL)	- - - - - - - - - - -				1, 2, 2 N=4	SPT
- - - - - -	3.24				С	CLAY trace sand (Alluvium) Grey mottled brown, moist, stiff. Fine grained sand, medium plasticity.		(CI)					2, 4, 6 N=10	SPT
- 4 - 4 	2.24	-				Clayey SAND (Alluvium) Pale grey, moist, medium dense. Fine grained sand.							6, 12, 15 N=27	SPT
- - - - - -					E			(SC)					7, 10, 15 N=25	SPT
- 6 					F	6.00m: becoming dense.							11, 15, 22 N=37	SPT
- - - - - - - -	-0.76	-			G	Silty CLAY (Alluvium) Grey mottled brown and brown, moist, very stiff. Medium plasticity.							7, 12, 16 N=28	SPT
- 8					Н			(CI)					6, 9, 12 N=21	SPT
- 9 - 9 - 1 - 1 - 1 - 1					1	9.00m: becomes brown grey.							6, 9, 13 N=22	SPT
				ı	ı	Continued on next sheet	Là 🚈	ı	I	L	I		I	
R	EMAR	KS:		kgwu :	= W	/undaru Granodiorite						LOGGED BY	REVIE	WED BY
												T.Goosey	S.F	oley
						TMR G	EOTECH	HNICAL B	DREHOLE LOG - CREATED \	VITH HOLEBASE SI				

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						_		FINAL 1	7/03/2016
	àr		C	ΞE	OTECHNICAL		BOREHOLE No	В	H206
	💓 Que	ensland	E	30	REHOLE LOG		Sheet	2 of 3	
B	🗶 Gov	ernment			GEOTECHNICAL TERMS AND REFER FORM F:GEOT 017/8-2014		REFERENCE No	H	12215
PROJECT	Mackay Ring Ro	Dad							
LOCATION		ridge, Pier 1 (RHS)					COORDINATES 721271.5	E; 766004	41.1 N
PROJECT No	FG6184	SURFACE RL 6.24m	PLUN	GE 9	0° DATE STA	 RTED 10/09/2015			
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARIN			ETED 11/09/2015		, Cairns Dril	
									0
DEPTH (m) (m)	ADDER ADDER CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING CORE DRILLING	MATERIAL DESCRIPTION	LITHOLOGY	WEATHERING	INTACT STRENGTH DEFECT SPACING 표독규목가수대 연유수록주출		ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
	J	Clayey SAND (Alluvium) Grey, moist, medium dense.		SC)				5, 11, 17 N=28	SPT
- - - 11 -4.76		Fine to medium grained sand. Silty CLAY (Alluvium)		50)	+				=
	к	Grey, moist, very stiff. Medium plasticity.						5, 7, 11 N=18	SPT
- - - 12				CI)		12.00m-12.45m: No	o sample		-
	L					recovered		5, 11, 13 N=24	SPT
<u>-6.76</u>		Silty SAND trace clay (Alluvium)	×						SPT
-	M	Pale grey, moist, medium dense. Fine to medium grained sand.	×××		+			8, 12, 16 N=28	
- - 14 -	N		× × × (s	5M)				7, 8, 11	SPT
-			× ×××		+			N=19	-
- 15 - 15 	0	Sandy CLAY (Alluvium) Pale grey, moist, very stiff.			+			7, 10, 15 N=25	SPT
		Low to medium plasticity.	(CI)				11-23	-
	P	MICRODIORITE (Kgwu) HW: Grey, fine grained, massive, very low strength.						30/120 hb	SPT -
10.76		very low strength.	\bigotimes						
-11.26	Q	GRANODIORITE (Kgwu) XW: Recovered as pale brown-grey, moist, very dense, clayey sand.	+ + + + + +					18, 30/120 hb	SPT
- - - - 18	(53)	GRANODIORITE (Kgwu) SW: Pale red grey, coarse grained, porphyritic, very high strength.	+++++++++++++++++++++++++++++++++++++++		С				- - - - -
		Js: 5° to 15°; (3/m); PI/Ro; TI; Fe St; Js: 70° to 75°; (1/m); PI/Sm; TI; Fe St; Js: 80° to 90°; (<1/m); PI/Sm; TI; Fe St;		ŝW	M			50)=6.90 MPa 50)=4.40 MPa	– – – D (18.55m) – A (18.62m)
- 19 	<u> 100 </u>	-	+ + + + + +		M				
-			• • •		M		Is(50)=9.50 MPa	D (19.70m)
		Continued on next sheet							
REMAR	KS: Kgwu = V	/undaru Granodiorite					LOGGED BY		WED BY
		T18.40	GEOTECHNI	CAI PO	IREHOLE LOG - CREATED WITH HOLEBASE SI		T.Goosey	S.	Foley
		TMR	GEOTECHNI	UNL BO	INCLOSE LOG - CREATED WITH HOLEBASE SI				

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					_		FINAL 1	7/03/2016
A PAR			GE	OTECHNICAL		BOREHOLE No	В	H206
	🔊 Que	ensland	BO	REHOLE LOG		Sheet	3 of 3	
B	Kr Gove	ernment		GEOTECHNICAL TERMS AND REFER FORM F:GEOT 017/8-20	014	REFERENCE No	H	12215
PROJECT	Mackay Ring Ro	J L			L			
LOCATION		ridge, Pier 1 (RHS)				COORDINATES 721271.5	E; 766004	41.1 N
PROJECT No	FG6184	SURFACE RL 6.24m	plunge 90	0° DAT	E STARTED 10/09/2015			
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING		OMPLETED 11/09/2015		Cairns Dril	
(iii) HL dag G (m)	AUGER AUGER	MATERIAL DESCRIPTION			IG	ADDITIONAL DATA AND TEST RESULTS		SAMPLES TESTS
- 21	<u> 100 </u> (80)		+ - + - + - + - + - + - + - + -	w c c M		IS(50)=5.40 MPa 50)=5.50 MPa 50)=3.40 MPa 0)=3.40 MPa	A (20.80m)
- 22 - 22 			* * * * * * * * * * * * * *	VH M	⇒ 21.95m-21.98m: Do ⊐ 22.20m-22.26m: Do	olerite Dyke	,	D (21.75m)- - - - - - - - - - - - - - - - - - -
24	<u>100</u> (100)		+ - + - + - + - + - + - + - + -	M		is(50)=9.00 MPa 50)=4.20 MPa 0)=12.00 MPa	A (23.68m) D (23.78m)
25 -18.86	5		+++++++++++++++++++++++++++++++++++++++		25 10-m Canta da 70		.,	
- <u>-19.36</u> - <u>-</u> 26	<u>8</u>	MICRODIORITE (Kgwu) SW: Blue grey, fine to medium grained, massive, high to very hi strength. GRANODIORITE (Kgwu) SW: Pale red grey, coarse grainer porphyritic, high to very high	-/[+]	C M	25.10m: Contact; 70 St 25.60m: Contact; 70 St	ls(: ls(5)	50)=6.40 MPa 0)=13.00 MPa	(/
- - - 27 21.06		strength. Js: 5° to 15°; (3/m); PI/Ro; TI; Fe Js: 40° to 50°; (<1/m); PI/Ro; TI; I St;		C M			i=207.00 MPa 0)=12.00 MPa	(26.40m) A (26.50m)
		Borehole completed at 27.30m						
E								-
F				Ŧ				
REMAR	RKS: Kgwu = W	/undaru Granodiorite				LOGGED BY	REVIE	WED BY
	<u> </u>					T.Goosey		Foley
			TMR GEOTECHNICAL BO	REHOLE LOG - CREATED WITH HOLEBASE S	61			,

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CORE PHOTO LOG

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



Droje et Name	Maakay Ding Dood (Store 2)		
Project Name Project No.	Mackay – Ring Road (Stage 2) FG6184	Date	10/09/15
Borehole No.	BH 206	TMR H No.	H12215
Location	Pioneer River Bridge	Start Depth (m)	17.50
Detail	Pier 1, RHS	Finish Depth (m)	27.30
Chainage		Submitted By	M.Ensor
Remarks		Submitted By	M.LIISOI
Romanto	FG6184	Mikin	
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DEPARTMENT OF TRANSPORT AND MAIN ROADS Geotechnical Section 35 Butterfield Street, Herston Qld 4006 Phone 07 3066 3336



Drojoot Nors-	Maakay Ding Dood (Stage 2)		
Project Name	Mackay – Ring Road (Stage 2) FG6184	Date	02/07/15
Project No. Borehole No.		TMR H No.	
	BH 206		H12215
Location	Pioneer River Bridge	Start Depth (m)	17.50
Detail	Pier 1, RHS	Finish Depth (m)	27.30
Chainage		Submitted By	M.Ensor
Remarks			
F	G(184	M.R.I	P
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