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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH282**

Sheet 1 of 2

REFERENCE No **H12434**

PROJECT **Mackay Ring Road**

LOCATION **Lagoon Creek**

COORDINATES **721043.7 E; 7658366.3 N**

PROJECT No **FG6184**

SURFACE RL **7.00m**

PLUNGE **90°**

DATE STARTED **10/10/2015**

GRID DATUM **GDA 94 / MGA Z55**

JOB No **242/10G/906**

HEIGHT DATUM **A.H.D.**

BEARING **°**

DATE COMPLETED **11/10/2015**

DRILLER **Saxon Drilling**

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
				Z	Silty CLAY (Topsoil) Dark brown, dry, stiff. Medium plasticity.		(CI)				SPT
	6.30			ZX	CLAY trace sand (Alluvium) Grey mottled orange brown, moist, firm to stiff.		(CI)				SPT
1				A	Medium plasticity, trace rootlets.		(CI)				SPT
				AX			(CI)				SPT
2				B			(CI)				SPT
	4.50			BX	CLAY (Alluvium) Grey, moist to wet, very soft to soft. High plasticity.		(CH)				SPT
3				C			(CH)				SPT
	3.50			CX	Clayey SAND (Alluvium) Dark grey, moist to wet, very loose. Fine grained sand.		(SC)				SPT
4				D	Silty SAND trace clay (Alluvium) Grey, wet, medium dense. Fine to medium grained.		(SM)				SPT
	2.80			DX	Silty SAND trace gravel (Alluvium) Grey, wet, medium dense.		(SM)				SPT
5				E	Fine to medium grained sand, fine to medium grained gravel, subrounded grains.		(SM)				SPT
	2.31			EX			(SM)				SPT
6				F	6.00m: becomes fine to coarse grained sand.		(SM)				SPT
	0.50			FX	Gravelly SAND trace clay (Alluvium) Pale grey, wet, medium dense. Medium to coarse grained sand, fine to medium grained gravel, subrounded grains.		(SP)				SPT
7				G			(SP)				SPT
	-0.50			GX	Silty CLAY (Alluvium) Grey mottled orange brown, moist, stiff to very stiff.		(CI)				SPT
8				H	Trace fine to coarse grained sand and fine grained gravel, low to medium plasticity.		(CI)				SPT
	-1.30			HX	Silty CLAY (Residual) Pale grey and brown, hard. Trace fine grained sand and fine gravel, angular grains, medium plasticity.		(CI)				SPT
9							(CI)				SPT
	-3.00						(CI)				SPT

Continued on next sheet

ts(50)=2.20 MPa t(10.00m)

REMARKS: Kgwu = Wundaru Granodiorite

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REVIEWED BY

C.Boyes

S.Foley



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BOREHOLE No **BH282**

Sheet 2 of 2

REFERENCE No **H12434**

PROJECT	Mackay Ring Road				
LOCATION	Lagoon Creek			COORDINATES 721043.7 E; 7658366.3 N	
PROJECT No	FG6184	SURFACE RL	7.00m	PLUNGE	90°
				DATE STARTED	10/10/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	11/10/2015
				DRILLER	Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH											DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								EH _L _VH	_H _M	_J _L	_VI _L	EL	EC _L _VC	_C _M	_W _VW	_EW							
	-3.60		(19)		MICRODIORITE (Kgwu) SW: Grey, fine grained, massive, high strength. Js: 5°-15°(<4/m); Pl/Sm; Cn or Fe St Js: 40°-65°(3/m); Pl/Sm; FeSt or CA	+	SW									C						Is(50)=0.68 MPa	A (10.30m)
11	-4.14				GRANODIORITE (Kgwu) SW: Pink and grey, medium to coarse grained, porphyritic, high strength.		+	SW									C						Is(50)=2.00 MPa
			100 (28)		MICRODIORITE (Kgwu) SW: Grey, fine grained, massive, high strength. Fractured zones throughout. Calcite veins throughout.	+	SW									C						Is(50)=2.70 MPa	D (11.30m)
12	-5.44				Js: 5°-15°(<5/m); Pl/Sm; Fe St or CA VN; Js: 40°-60°(<2/m); Pl/Sm-Ro; Fe St or CA VN;		+	SW									C						Is(50)=1.10 MPa
			100 (46)		GRANODIORITE (Kgwu) SW: Pink and grey, medium to coarse grained, porphyritic, high strength.	+	SW									VC-C						Is(50)=1.20 MPa	D (13.15m)
13					Js: 5°-15°(<6/m); Pl/Sm-Ro; OP-TI; Cn; Js: 60°-90°(<1/m); Pl/Sm; OP; Cn;		+	SW									C						Is(50)=0.38 MPa
			100 (87)		MICRODIORITE (Kgwu) SW: Grey, fine grained, massive, very high strength.	+	HW									L							
14	-7.12						+	SW															Is(50)=6.40 MPa
	-7.72		100			+	SW															UCS=118.00 MPa	(14.55m)
15					SW: Grey, fine grained, massive, very high strength. Borehole completed at 14.73m																		
16																							
17																							
18																							
19																							

REMARKS: Kgwu = Wundaru Granodiorite

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REVIEWED BY

C.Boyes

S.Foley

CORE PHOTO LOG

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

