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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH228**

Sheet 1 of 3

REFERENCE No **H12237**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 9 (LHS)	COORDINATES 721312.7 E; 7660316.5 N	
PROJECT No	FG6184	SURFACE RL 3.33m	PLUNGE 90°
			DATE STARTED 24/10/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 25/10/2015
			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	VH
0	-0.17				Silty SAND trace gravel (Fill) Pale orange grey, moist to wet, loose to medium dense. Fine to coarse grained sand, fine to coarse grained gravel, rounded grains.								
4				A	Gravelly SAND trace cobbles (Alluvium) Pale orange grey and dark grey, wet, medium dense. Fine to medium grained sand, fine to coarse grained gravel, rounded to subrounded grains.	(SP)					6, 8, 10 N=18	SPT	
5				B	5.00m: becoming fine to coarse grained sand, fine grained gravel.						3, 5, 6 N=11	SPT	
6	-2.37			C	Silty SAND trace gravel (Alluvium) Pale grey, moist to wet, dense. Fine to medium grained sand, fine to medium grained gravel, rounded.						6, 22, 30/90	SPT	
7				D	7.00m: trace clay, no more gravel. Becoming medium dense.						10, 15, 15 N=30	SPT	
8				E	8.0m: Becoming dense.	(SM)					9, 12, 12 N=24	SPT	
9				F							11, 13, 11 N=24	SPT	
	-6.37				Sandy CLAY (Alluvium)	(CI)							
	-6.67												

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
C.Boyes	S.Foley



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**GEOTECHNICAL
BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **BH228**

Sheet 2 of 3

REFERENCE No **H12237**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 9 (LHS)	COORDINATES	721312.7 E; 7660316.5 N
PROJECT No	FG6184	SURFACE RL	3.33m
		PLUNGE	90°
		DATE STARTED	24/10/2015
		GRID DATUM	GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.
		BEARING	°
		DATE COMPLETED	25/10/2015
		DRILLER	Saxon Drilling

DEPTH (m)	R.L. (m)	FAUGER 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	VH
	-7.37			G	Brown grey and brown, moist, very stiff. Fine grained sand, medium plasticity.	(CI)					10, 9, 11 N=20	SPT	
	-8.07			H	Sandy CLAY (Alluvium) (Cont'd) Silty CLAY trace sand (Alluvium) Green grey, moist, very stiff to hard.	(CI)					8, 8, 24 N=32	SPT	
	-9.37			I	Medium grained sand, low to medium plasticity. Gravelly CLAY (Residual) Pale white grey, moist, hard.	(CH)					14, 18, 20 N=38	SPT	
	-10.87			J	Fine to medium grained gravel, angular grains, high plasticity. Clayey GRAVEL (Residual) Pale grey and dark grey, moist, very dense.	(GC)					19, 26, 30/75	SPT	
	-13.67			K	Fine to medium grained gravel, angular grains, high plasticity.						25, 30/85	SPT	
	-16.24			L	GRANODIORITE (Kgwu) XW: Recovered as grey and brown, moist, very dense, clayey silty sand.	XW					15, 30/30 hb	SPT	
	-16.67			M	Fine to medium grained sand, low to medium plasticity.						30/125 hb	SPT	
										17.00m: No sample recovered	hb		
				O	MICRODIORITE (Kgwu) XW: Grey, fine grained, massive, extremely low to very low strength.	XW					30/90 hb	SPT	
			100 (52)							18.30m-18.55m: Granodiorite ban 18.35m: Contact: 70°; Pl/Sm;			
					From 19.57m: Becoming SW Js: 5°-20° (<4/m); Pl/Sm; OP; Fe St or CA Vr <1mm; Js: 30°-50° (<4/m); Pl/Sm; OP; Fe St or CA Vr <1mm;								
					GRANODIORITE (Kgwu) SW:								
												Is(50)=5.20 MPa A (19.24m)	

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REMARKS: Kgwu = Wundaru Granodiorite

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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



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	25/10/15
Borehole No.	BH 228	TMR H No.	H12237
Location	Pioneer River Bridge	Start Depth (m)	18.30
Detail	Pier 9, LHS	Finish Depth (m)	27.10
Chainage		Submitted By	M.Ensor
Remarks			

