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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH202**

Sheet 1 of 3

REFERENCE No **H12211**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Abutment A (CL)			COORDINATES 721279.1 E; 7660019.8 N	
PROJECT No	FG6184	SURFACE RL	7.28m	PLUNGE	90°
				DATE STARTED	24/09/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	25/09/2015
				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	H	M	J	V	EL	EC	VC	C			M	W	VW	EW				
1	6.28			Z	Silty CLAY trace sand (Topsoil) Brown, dry, soft to firm.																			1, 2, 1 N=3	SPT		
				ZX	Medium grained sand, medium plasticity, trace rootlets. 0.20m: becomes moist																						
2	5.28			A,C 1	Sandy CLAY (Alluvium) Brown mottled orange brown, moist, stiff.		(CI)																	3, 5, 6 N=11	SPT		
				AX	Medium to coarse grained sand, medium plasticity. 1.70m: becom fine grained sand.																						
3				B	CLAY trace sand (Alluvium) Brown mottled orange brown, moist, stiff.																			3, 3, 6 N=9	SPT		
				BX	Fine grained sand, low plasticity. Becoming very stiff.																						
4	3.78			C	Becoming stiff.																				3, 4, 6 N=10		
				CX	Sandy CLAY (Alluvium) Grey brown mottled orange brown, moist, stiff.																						
5	2.98			D	Fine grained sand, low plasticity. 4.00m: sand content increasing.																				4, 4, 6 N=10		
				DX	Clayey SAND (Alluvium) Pale grey, moist, medium dense. Fine grained sand, low plasticity.																						
6	2.28			E,C 2	Silty SAND trace clay (Alluvium) Pale grey, moist, medium dense. Fine grained sand.																				4, 8, 12 N=20		
				EX																							
7				F			(SM)																				
				FX																							
8	-0.32			G	7.00m: becomes pale grey mottled orange, dense.																						
				GX	Sandy CLAY (Alluvium) Grey mottled orange brown, moist, very stiff.																						
9				H	Low plasticity.																						
				HX	8.50m: becomes fine grained sand.																						
10	-1.92			I	Clayey SAND (Alluvium) Pale grey brown, moist, medium dense.																						
				IX	Medium to coarse grained sand, low																						

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REMARKS: Kgwu = Wundaru Granodiorite

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C.Boyes

S.Foley



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SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH202**

Sheet 2 of 3

REFERENCE No **H12211**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Abutment A (CL)			COORDINATES 721279.1 E; 7660019.8 N	
PROJECT No	FG6184	SURFACE RL	7.28m	PLUNGE	90°
				DATE STARTED	24/09/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	25/09/2015
				DRILLER	Saxon Drilling

DEPTH (m)	R.L. (m)	AUGER CASSING WASHBORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
				J.C. 3	plasticity. CLAY trace sand (Alluvium) Grey mottled brown, moist, stiff to very stiff.					6, 8, 11 N=19	SPT
				JX	fine grained sand, low plasticity. 10.50m: becomes low to medium plasticity.					5, 7, 8 N=15	SPT
				K		(CL)				4, 7, 9 N=16	SPT
				KX	11.50m: becomes very stiff. Trace carbonaceous material.					7, 10, 12 N=22	SPT
				L	12.00m: sand content increasing.					7, 10, 12 N=22	SPT
	-5.22			LX	Silty SAND trace clay (Alluvium) Pale grey, moist, medium dense. Fine grained sand. 13.00m: silt content decreasing.					7, 8, 17 N=25	SPT
				M		(SM)				5, 4, 12 N=16	SPT
				MX	13.50m: becomes fine to coarse grained sand.					8, 10, 11 N=21	SPT
	-7.02			N						7, 8, 8 N=16	SPT
				NX	Clayey SAND (Alluvium) Pale grey, moist, medium dense. Medium to coarse grained sand, medium plasticity. 15.00m: clay content increasing.	(SC)				7, 5, 7 N=12	SPT
	-8.02			O	Clayey SAND (Residual) Orange brown and grey, dry, medium dense to dense. Fine to medium grained, low plasticity.	(SC)				8, 12, 19 N=31	SPT
	-8.72			P							SPT
				Q	GRANODIORITE (Kgwu) XW: Recovered as brown-grey, dry, very dense, silty sand. Medium grained sand.	XW				30/115	SPT
	-9.92			(51)	GRANODIORITE (Kgwu) SW: Grey, dark grey and pink, medium to coarse grained, porphyritic, high to very high strength. Locally fractured and brecciated. Js: 5°-15°(<4/m); Pl/Ro; OP; Fe St or Cly Vr Js: 30°-50°(<5/m); Pl-Un/Ro; Sinf Js: 50°-75°(<2/m); Pl/Ro; OP; Sinf and Cly Js: 80°-90°(<1/m); Un-St/Sm; CD; Fe St 19.86 to 20.19m: MICRODIORITE (XW)	HW				hb	SPT
				100 (0)			SW				D (17.50m) A (17.58m)
				100 (30)			HW				
							SW				
							HW				
							MW				
							XW				
							SW				
	-12.72						XW				

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REMARKS: Kgwu = Wundaru Granodiorite

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GEOTECHNICAL BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **BH202**

Sheet 3 of 3

REFERENCE No **H12211**

PROJECT	Mackay Ring Road
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LOCATION	Pioneer River Bridge, Abutment A (CL)
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COORDINATES 721279.1 E; 7660019.8 N

PROJECT No	FG6184
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SURFACE RL 7.28m

PLUNGE 90°

DATE STARTED 24/09/2015

GRID DATUM GDA 94 / MGA Z55

JOB No 242/10G/906

HEIGHT DATUM A.H.D.

BEARING °

DATE COMPLETED 25/09/2015

DRILLER Saxon Drilling

[illegible]

REMARKS: Kgwu = Wundaru Granodiorite

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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



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	25/09/15
Borehole No.	BH 202	TMR H No.	H12211
Location	Pioneer River Bridge	Start Depth (m)	17.20
Detail	Abutment A, centreline	Finish Depth (m)	28.50
Chainage		Submitted By	M.Ensor
Remarks			

The photograph shows three boxes of core samples, labeled BOX 1, BOX 2, and BOX 3. Each box contains several cylindrical core segments. Labels on the boxes include 'FG6184', 'BH202', 'M.R.R.', and '25/09/15'. A scale bar at the bottom indicates a length of 700 units, with a scale of 1:5.

CORE PHOTO LOG

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