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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH274**

Sheet 1 of 2

REFERENCE No **H12426**

PROJECT **Mackay Ring Road**

LOCATION **Port Rail Overpass**

COORDINATES **721187.4 E; 7663324.4 N**

PROJECT No **FG6184**

SURFACE RL **23.96m**

PLUNGE **90°**

DATE STARTED **25/09/2015**

GRID DATUM **GDA 94 / MGA Z55**


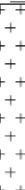





JOB No **242/10G/906**

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

BEARING **°**

DATE COMPLETED **26/09/2015**

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	VI	EL	EC	VC	C			M	W	VW	EW
1				A	Clayey SILT trace sand (Residual) Grey, dry to moist, very stiff.		(ML)											8, 10, 8 N=18	SPT				
2				B																4, 8, 9 N=17	SPT		
3				C				3.0m: Becoming hard.															
4	20.51		(0)		MICRODIORITE (Kgwu) XW: Recovered as brown and green brown, moist, hard, clayey silt with sand. Fine to medium grained sand.		XW											14, 20, 30 N=50	SPT				
			100 (0)																				
	19.16																						
5	18.71				MICRODIORITE (Kgwu) HW: Recovered as green grey, moist, medium dense clayey gravel.		HW											Is(50)=0.13 MPa Is(50)=0.08 MPa	D (3.50m) - A (3.55m)				
			100 (0)		Possible shear zone.																		
6	17.93				MICRODIORITE (Kgwu) MW: Fine grained, massive, medium to high strength.		MW											Is(50)=5.70 MPa	I (5.65m)				
			100 (0)																				
7	17.51				MICRODIORITE (Kgwu) XW: Recovered as brown and grey, moist, hard, gravelly sandy clay.		XW											6.15m-6.45m: SZ; brown, stiff, sandy clay.					
			100 (0)																				
8	16.06				MICRODIORITE (Kgwu) HW: Brown and grey, fine grained, massive, extremely low to very low strength.		HW											8.30m-8.45m: CORE LOSS 8.60m-8.80m: CORE LOSS					
			100 (0)																				
9	15.02				MICRODIORITE (Kgwu) XW: Recovered as brown and grey, moist, hard, gravelly sandy clay.		XW											Is(50)=0.50 MPa	I (9.02m)				
			100 (0)																				
			50 (0)				XW											Is(50)=1.50 MPa UCS=59.40 MPa E=63,368	D (9.66m) - (9.87m)				
			100 (47)		MICRODIORITE (Kgwu) SW: Dark grey, fine grained, massive, very high strength. Js: 10° to 25°; (4/m); Un-St/Ro; Cn, minor Fe St;		SW																
	13.96																						

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

G.Kennedy

REVIEWED BY

S.Foley

**Queensland
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GEOTECHNICAL BOREHOLE LOG

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SYMBOLS REFER FORM E:GEOT 017/8-2014

BOREHOLE No **BH274**

Sheet 2 of 2

REFERENCE No **H12426**

PROJECT	Mackay Ring Road
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LOCATION	Port Rail Overpass
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COORDINATES 721187.4 E; 7663324.4 N

PROJECT No	FG6184	SURFACE RL	23.96m	PLUNGE	90°	DATE STARTED	25/09/2015	GRID DATUM	GDA 94 / MGA Z55
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JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 26/09/2015 DRILLER Saxon Drilling

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

G.Kennedy

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.	FG 6184	Date	26/09/15
Borehole No.	BH 274	TMR H No.	H12426
Location	Port Rail Overpass Abutment B	Start Depth (m)	3.45
Detail		Finish Depth (m)	15.14
Chainage		Submitted By	BW
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5

CORE PHOTO LOG

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