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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH273**

Sheet 1 of 2

REFERENCE No **H12425**

PROJECT	Mackay Ring Road				
LOCATION	Port Rail Overpass			COORDINATES 721214.8 E; 7663304.0 N	
PROJECT No	FG6184	SURFACE RL	20.93m	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	24/09/2015
				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
1	19.93				Silty CLAY (Alluvium) Dark grey to black, moist, soft. Low plasticity.	(CL)					
	19.13			A	Silty SAND (Alluvium) Brown, dry, loose. Fine grained sand.	(SM)				2, 4, 5 N=9	SPT
2				B	GRANODIORITE (Kgwu) XW: Recovered as pale brown, dry, very dense, silty sand. Fine grained sand.		XW			9, 10, 30/140	SPT
3	17.73			C							SPT
				(0)	GRANODIORITE (Kgwu) HW: Brown, medium to coarse grained, massive, generally very low to medium strength.		HW			17, 10/10 hb	D (3.25m)
				100 (0)	Js: 5° to 30°; (8/m); Pl/Sm; TI; Fe St; Js: 30° to 60°; (5/m); Pl/Sm; TI; Fe St;		XW			3.80m-4.35m: XW zone; sandy clay; Is(50)=0.08 MPa Is(50)=0.08 MPa	D (3.68m)
				100 (13)			MW			Is(50)=1.50 MPa	D (4.56m)
	15.88				GRANODIORITE (Kgwu) MW: Brown and grey, medium to coarse grained, massive, generally medium to high strength.		HW				
				100 (45)	Js: 5° to 30°; (5/m); Pl/Sm-Ro; TI-OP; Fe St;					Is(50)=0.22 MPa	A (5.90m)
				100 (81)	From 6.43m: Js: 5° to 15°; (3/m); Pl/Sm; OP; some Cly FL; Js: 30° to 45°; (2/m); Pl/Sm; OP;					6.37m: Clay seam; 5°; 10mm; 6.45m: Clay seam; 10°; 10mm; Is(50)=0.47 MPa	A (6.46m)
										6.85m: Clay seam; 10°; 20mm; UCS=140.00 MPa	(6.95m)
							MW				
				100 (32)						8.50m-8.59m: HFZ, HW Is(50)=1.70 MPa Is(50)=7.90 MPa	D (8.20m) A (8.35m)
				100 (27)	From 8.75m: Js: 5° to 15°; (3/m); Pl/Sm; TI; Fe St, some Cly C					8.75m-9.00m: HFZ, HW Is(50)=1.20 MPa	A (8.67m)
	10.93			100						9.70m: Clay seam; 50°; 50mm; 10.00m-10.25m: HW HFZ	

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

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REVIEWED BY

M.Ensor

S.Foley

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SYMBOLS REFER FORM E:GEOT 017/8-2014

BOREHOLE No **BH273**

Sheet 2 of 2

REFERENCE No **H12425**

PROJECT	Mackay Ring Road
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LOCATION	Port Rail Overpass
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COORDINATES 721214.8 E; 7663304.0 N

PROJECT No	FG6184	SURFACE RL	20.93m	PLUNGE	90°	DATE STARTED	24/09/2015	GRID DATUM	GDA 94 / MGA Z55
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JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 24/09/2015 DRILLER Saxon Drilling

REMARKS: Kgwu = Wundaru Granodiorite

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REVIEWED BY

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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	24/09/15
Borehole No.	BH 273	TMR H No.	H12425
Location	Port Rail Overpass Abutment A	Start Depth (m)	3.20
Detail		Finish Depth (m)	12.00
Chainage		Submitted By	BW
Remarks			

0 100 200 300 400 500 600 700

SCALE 1:5