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Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH277**

Sheet 1 of 1

REFERENCE No **H12429**

PROJECT	Mackay Ring Road			COORDINATES	721230.8 E; 7663250.1 N								
LOCATION	Stage 2 Overpass			PROJECT No	FG6184	SURFACE RL	15.26m	PLUNGE	90°	DATE STARTED	21/09/2015	GRID DATUM	GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°	DATE COMPLETED	21/09/2015	DRILLER	Saxon Drilling				

DEPTH (m)	R.L. (m)	AUGER CASING WASHBORING CONE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH		DEFECT SPACING		ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH		EC			
									VH	H	M	J		
1					A	Silty SAND (Residual) Pale brown, dry, medium dense. Fine grained sand.	(SM)						4, 7, 7 N=14	SPT
2					B								6, 7, 9 N=16	SPT
3					C								6, 13, 14 N=27	SPT
4	11.56				D	GRANODIORITE (Kgwu) XW: Recovered as Silty Clayey SAND: Grey, moist, dense to very dense. Fine grained sand. Occasional fine gravel.	XW						6, 18, 30 N=48	SPT
5	10.06				E									SPT
6			(24)			MICRODIORITE (Kgwu) SW: Grey, medium grained, massive, generally very high strength. - Js; 5°-15° (2/m); Pl/Ro-Sm, TI-OP, some Fe St; - Js; 20°-40° (1/m); Pl/Sm, OP, some Fe St;	SW HW MW	VH	EC VC			5.20m-6.20m: Total water loss 5.40m-5.50m: HW zone 5.87m-5.90m: HW zone	30/140 hb Is(50)=5.70 MPa	A (5.24m)
7			100 (92)				SW	VH	C	M	W		Is(50)=4.10 MPa Is(50)=9.30 MPa UCS=141.00 MPa	A (6.32m) D (6.45m) (6.75m)
8			100 (78)				SW	VH	C	M			Is(50)=7.60 MPa Is(50)=9.30 MPa	A (7.30m) D (7.40m)
9	6.56		100			Borehole completed at 8.70m	HW SW	VH	C			8.30m-8.50m: HW zone, contains 20mm thick Sandy CLAY bed, 20°	Is(50)=7.30 MPa Is(50)=0.59 MPa	D (8.10m) A (8.65m)

REMARKS: Kgwu = Wundaru Granodiorite	<b>LOGGED BY</b>	<b>REVIEWED BY</b>
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**CORE PHOTO LOG**

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 Geotechnical Section  
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Project Name	<b>Mackay Ring Road Stage 1</b>		
Project No.	FG 6184	Date	21/09/15
Borehole No.	BH 277	TMR H No.	H12429
Location	Port Access Rd Overpass Abutment B	Start Depth (m)	5.20
Detail		Finish Depth (m)	8.70
Chainage		Submitted By	BW
Remarks			



SCALE 1:5