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**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH304**

Sheet 1 of 1

REFERENCE No

PROJECT **Mackay Ring Road**

LOCATION

COORDINATES **721575.0 E; 7663593.4 N**

PROJECT No **FG6184**

SURFACE RL **16.40m**

PLUNGE **90°**

DATE STARTED **29/09/2015**

GRID DATUM **GDA 94 / MGA 255**

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

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

BEARING **°**

DATE COMPLETED **05/10/2015**

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	H	M	J	VI	EL	EC	VC	C				M	W	VW
	15.70				GRAVEL with cobbles (Fill)																		
1				A	Silty CLAY with cobbles and boulders (Residual) Mottled red brown, moist, very stiff.		(CI)															2, 4, 15 N=19	SPT
2	14.80		(0) (0) 100		Silty CLAY trace sand (Residual) Grey and brown, moist, very stiff. Fine grained sand, low to medium plasticity.		(CI)															3, 8, 12 N=20	SPT
3	13.40			C	Sandy CLAY trace gravel (Residual) Brown, moist, hard.		(CI)															12, 23, 16 N=39	SPT
4	12.95		(74) 100		Fine grained sand. DOLERITE		SW		VH														
			(70)		SW: Blue grey, fine to medium grained, crystalline, massive, very high strength. Minor iron staining round defects. Pyrite minerals present. Some XW extremely low to very low strength zones, recovered as brown clayey sand.		MW		L														
5			100 (29)				SW																
	10.91		100 (0)		Js: 35° to 45°; (5/m); Pl/Ro; OP; Fe St, minor Cly;		SW		VH														
	10.76		100 (59)		Js: 50° to 60°; (2/m); Pl/Ro; OP; Fe St;		XW																
6	10.58 10.44				Js: 75° to 80°; (1/m); Un/Ro; OP; Fe St; DOLERITE XW: Recovered as sand with gravel. Fine to coarse grained gravel. Decomposed seam.		XW MW																
7			86 (97)		CORE LOSS DOLERITE XW: Recovered as brown, medium dense, gravelly sand. Fine to coarse grained sand and gravel, subangular grains. Some clay seams <30mm thick.		SW																
8																							
9	7.95		100		DOLERITE SW: Grey to dark blue grey, fine to medium grained, crystalline, massive, very high strength. Minor calcite and chlorite veining. Js: 40° to 60°; (3/m); Pl/Ro; OP; CA Vr, Chl, minor Fe St; Borehole completed at 8.45m																		

4.40m: AZ/decomposed seam: 75°; Pl; brown clayey sand, 30mm thick;
4.68m-4.70m: AZ/decomposed seam: 60°; brown sand, 15mm thick;
4.93m-4.98m: AZ/decomposed seam: 45°; Pl; brown clayey sand, 50mm thick;
5.19m: AZ/decomposed seam: 50°; Pl/Ro; Sinf, Fe St, 5mm thick; possible weathered calcite vein;
6.02m-6.04m: Clay seam: brown, moist, stiff. Low plasticity.

REMARKS:

LOGGED BY

REVIEWED BY

G.Kennedy