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**Queensland
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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH308**

Sheet 1 of 2

REFERENCE No _____

PROJECT Mackay Ring Road

LOCATION _____ COORDINATES 722349.2 E; 7663378.2 N

PROJECT No FG6184 SURFACE RL 12.65m PLUNGE 90° DATE STARTED 08/10/2015 GRID DATUM GDA 94 / MGA 255

JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 09/10/2015 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
0 - 1				A	Gravelly CLAY (Fill) Brown, moist, very stiff to hard. Fine to medium grained gravel, angular grains, low plasticity. 0.80m: becomes dark brown, dense to very dense. With clay.	[Cross-hatched pattern]												11, 14, 30/115 hb	SPT	
1 - 2				B															2, 3, 6 N=9	SPT
2 - 3	9.55			C	Clayey Silty SAND (Residual) Brown, moist, loose to medium dense. fine to medium grained sand, subangular grains. 3.60m: becomes medium dense.	[Dotted pattern]													3, 4, 4 N=8	SPT
3 - 4				D															4, 8, 14 N=22	SPT
4 - 5				E	5.00m: becomes dense. Fine to coarse grained sand, trace fine to medium grained gravel, subangular grains.	[Dotted pattern]	(SC)												10, 17, 22 N=39	SPT
5 - 6				F	6.00m: becomes brown to dark brown, very dense. With fine to medium grained gravel, subangular to angular grains.	[Dotted pattern]													14, 25, 28 N=53	SPT
6 - 7	5.65			G	GRANODIORITE XW: Recovered as brown, moist, very dense, Gravelly SAND with silt and clay. Fine to coarse grained sand, subangular grains, Fine to medium grained gravel, subangular grains.	[Cross-hatched pattern]													21, 30/40 hb	SPT
7 - 8				H															30/100 hb	SPT
8 - 9	3.65				GRANODIORITE XW: Recovered as brown, moist, very dense, Silty SAND trace gravel and clay. Fine grained sand, fine to medium grained gravel, angular	[Cross-hatched pattern]													30/50 hb	SPT
9 - 10	2.65																			

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REMARKS:

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REVIEWED BY

G.Kennedy



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BOREHOLE No **BH308**

Sheet 2 of 2

REFERENCE No _____

PROJECT **Mackay Ring Road**

LOCATION _____ COORDINATES **722349.2 E; 7663378.2 N**

PROJECT No **FG6184** SURFACE RL **12.65m** PLUNGE **90°** DATE STARTED **08/10/2015** GRID DATUM **GDA 94 / MGA 955**

JOB No **242/10G/906** HEIGHT DATUM **A.H.D.** BEARING **°** DATE COMPLETED **09/10/2015** 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	EW
10.5					J	grains, low plasticity fines. GRANODIORITE XW: (Cont'd)															23, 30/110 hb	SPT		
11.5					K																	30/50 hb	SPT	
12.0					L	12.00m: Fine to medium grained sand.																20, 30/120 hb	SPT	
13.0	-0.35					DOLERITE SW: Grey and blue grey, fine grained, coarse feldspar phenocrysts, porphyritic, massive, high to very high strength. Some MW zones of low to medium strength. Highly fractured. Js: 15° to 25°; (2/m); Pl/Ro; Fe St; Js: 40° to 50°; (4/m); Pl/Ro; OP; Fe St;																13.00m: No sample recovered 10/0 hb		
14.0	-1.98 -2.13		100 (0)																				13.40m-13.48m: core fractured in barrel. 13.73m: Water Loss	
15.0			88 (0)																				14.51m-14.63m: HFZ: rock fragments, Fe St, minor sand. 14.75m-14.87m: C2: sand and rock fragments, fine to medium grained gravel size, Fe St; 14.87m-15.24m: HFZ: rock fragments, Fe St, fine to coarse grained gravel size.	
16.0	-3.03		100 (53)																				15.59m-15.68m: HFZ: gravel sized rock fragments, Fe St;	
17.0	-4.73		100 (28)																				17.04m-17.12m: HFZ: rock fragments gravel size, Fe St;	
18.0																								
19.0																								

REMARKS:	LOGGED BY	REVIEWED BY
	G.Kennedy	