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**Queensland
Government**

ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH134

SHEET 1 of 2

REFERENCE No 12079

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
 LOCATION Embankment; CH: 8851m; COORDINATES 721446.4 E; 7661170.6 N
 PROJECT No FG6184 SURFACE R.L. 7.96m PLUNGE _____ DATE STARTED 3/11/14 GRID DATUM GDA 94 /MGA Zone 55
 JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 3/11/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AIR BORING WASH BORING	RQD () % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	7.96				Sandy CLAY (TOPSOIL) Dark brown, dry, hard. Low plasticity. Fine to coarse grained sand. Roots & root fibres.	(CL)					0.10m: Sugar cane	
0.30	7.66				Sandy CLAY (ALLUVIUM) Dark brown, dry, stiff. Medium plasticity. Fine to medium grained sand.	(CI)						
0.80	7.16			A	Clayey SAND (ALLUVIUM) Dark brown, moist, medium dense. Fine to coarse grained.	(SC)					4.5,6 N=11	SPT
1.60	6.36				Silty SAND (ALLUVIUM) Brown, moist, medium dense. Fine to coarse grained.							
2				B	3.00m: Silt content reducing, becoming SAND with silt.	(SM)					3,4,5 N=9	SPT
3				C	4.00m: Becoming wet. Trace fine, subrounded to rounded gravel.						12,7,7 N=14	SPT
4				D								
5	2.86			E	Sandy Silty GRAVEL (ALLUVIUM) Brown, grey, wet, very dense. Fine to coarse, subangular to subrounded gravel. Fine to coarse grained sand.	(GM)					6,6,7 N=13	SPT
6	1.96			F	Gravelly Silty SAND (ALLUVIUM) White, brown, orange, grey, wet, dense. Fine to coarse grained sand. Fine to coarse, subrounded to rounded gravel.						12,18,40 N=58	SPT
7				G							8,20,18 N=38	SPT
8				H	8.00m: Becoming very dense.	(SM)					2,1,1 N=2	SPT
9				I	9.00m: Becoming medium dense.						16,35,30 N=65	SPT
10											8,9,6 N=15	SPT

TMJR JAN 15 GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG6184 - BOREHOLES.GPJ <<DrawingFile>> Datget CPT Tool gINT Add-In 04/09/2015 10:51

REMARKS Kgwu - Wundaru Granodiorite;

LOGGED BY
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ENGINEERING BOREHOLE LOG

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SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No BH134
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REFERENCE No 12079

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DEPTH (m)	R.L. (m)	AIR BORING WASH BORING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH											DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS					
								USC	WEATHERING	EH	VH	H	M	J	VL	EL	EC	VC					W	VW	WV	EW	
10	-2.04				J	Gravelly Silty SAND (ALLUVIUM) (Cont'd)	(SM)																			7,7,9 N=16	SPT
11.00	-3.04				K	Sandy CLAY (ALLUVIUM) Pale grey mottled orange, moist, stiff. Medium plasticity. Fine to coarse grained sand.	(CI)																			4,5,8 N=13	SPT
11.50	-3.54					Clayey SAND (ALLUVIUM) Pale grey, moist, medium dense. Fine to coarse grained.	(SC)																				
12.00	-4.04				L	Sandy CLAY (ALLUVIUM) Grey and orange mottled black, moist, very stiff to hard. High plasticity. Fine to coarse grained sand.	(CH)																			7,10,10 N=20	SPT
13					M																					Su _(pp) =225kPa;	U50
13.50	-5.54																										
14.00	-6.04				N	Sandy CLAY (RESIDUAL) White, grey, dry, hard. Medium plasticity. Fine to coarse grained sand.	(CI)																			5,26,27 N=53	SPT
15						GRANODIORITE (Kgwu) XW: Recovered as grey, white, very dense Clayey SAND.																					
15.50	-7.54				O																					5,9,16 N=25	SPT
16						Borehole terminated at 15.5m.																					
17																											
18																											
19																											
20																											

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