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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH124**
SHEET **1** of **3**
REFERENCE No **12070**

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Gibsons Road Overpass Abutment A; CH: 6463m; COORDINATES 721094.0 E; 7658808.9 N
PROJECT No FG6184 SURFACE R.L. 10.68m PLUNGE _____ DATE STARTED 9/9/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 9/9/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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	10.68												
0.45	10.23					Sandy CLAY (TOPSOIL) Dark brown, moist, firm. Low plasticity. Trace organic matter.	(CL)						
1						Clayey SAND (ALLUVIUM) Brown-orange, moist, loose to medium dense. Fine to medium grained.	(SC)						
1.30	9.38				A							3.4,6 N=10	SPT
2					B	Sandy CLAY (ALLUVIUM) Brown mottled grey, moist, stiff to very stiff. Medium plasticity.	(CI)					Su _(PP) =100kPa;	U50
3					C							3.5,7 N=12	SPT
4						3.35m: Becoming Silty SAND. Fine to medium grained. 3.50m: Colour change to brown. Fine to coarse grained sand.							
4.20	6.48				D								U50
5					E	Gravelly Silty SAND (ALLUVIUM) Brown, moist to wet, medium dense to very dense. Fine to medium grained. Fine to medium, subrounded to subangular gravel.						5.6,8 N=14	SPT
6					F		(SM)					10,17,51 N=68	SPT
7					G	6.40m: Colour change to orange-brown mottled red.						10,10,9 N=19	SPT
7.90	3.68					Gravelly SAND (ALLUVIUM) Brown, moist to wet, medium dense. Fine to coarse grained sand. Fine to medium, subangular gravel.						9,13,14 N=27	SPT
8					H								
9					J		(SW)					7,9,11 N=20	SPT
10					K							8,11,14 N=25	SPT

REMARKS _____

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BOREHOLE No **BH124**
SHEET **2** of **3**
REFERENCE No **12070**

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Gibsons Road Overpass Abutment A; CH: 6463m; COORDINATES 721094.0 E; 7658808.9 N
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DEPTH (m)	R.L. (m)	AUGER CASING 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
10	0.68												
10.20	0.48					Gravelly SAND (ALLUVIUM) (Cont'd)	(SW)						
					L	Gravelly Clayey SAND (ALLUVIUM) Orange-brown, moist to wet, medium dense to dense. Fine to coarse grained sand. Fine to coarse, subrounded gravel.	(SW-SC)					12,11,11 N=22	SPT
11					M	11.80m: Becoming Clayey SAND.						32,19,12 N=31	SPT
12	-1.42				N	Sandy CLAY (ALLUVIUM) Brown mottled grey, moist, very stiff. Medium plasticity. Fine to medium grained sand.						7,10,10 N=20	SPT
13					P							Su _{pp} =130kPa;	U50
14					Q		(CI)					7,8,13 N=21	SPT
15					R	15.85-16.30m: Becoming fine to coarse grained sand. Trace fine, subrounded gravel.						7,12,17 N=29	SPT
16	-5.62				S	Clayey Gravelly SAND (RESIDUAL) Grey to pink, moist, dense. Fine to coarse grained sand. Fine, angular gravel.	(SC)					13,25,38 N=63	SPT
17	-6.12				T	GRANODIORITE (Kgwu) XW: Recovered as pink, white and brown, dry to moist, very dense Clayey SAND. Fine to coarse grained.		XW				24,23,37 N=60	SPT
18					U	GRANODIORITE (Kgwu) HW: Pink, grey and white, fine to coarse grained, very low strength.		HW				35,53 hb	SPT
19	-7.62												
20													

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BOREHOLE No BH124
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DEPTH (m)	R.L. (m)	AUGER CASING 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
										EH	VH	H	M	J	VL	EL	EC	VC	W	VW	EW				
20	-9.32																								
20.08	-9.40				V	Borehole terminated at 20.08m. .																		40/80	SPT
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
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