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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH125**
SHEET **1** of **3**
REFERENCE No **12071**

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Gibsons Road Overpass Abutment A; CH: 6463m; COORDINATES 721107.4 E; 7658807.5 N
PROJECT No FG6184 SURFACE R.L. 10.54m PLUNGE _____ DATE STARTED 12/9/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 17/9/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	10.54					Clayey SAND (TOPSOIL) Black, moist, loose. Fine to medium grained sand. Some roots. 0.30m: Colour change to black mottled orange. Medium dense.	(SC)						
0.90	9.64				A	Sandy CLAY (ALLUVIUM) Orange, moist, stiff to very stiff. Medium plasticity.	(CI)					Su _(PP) =110kPa;	U50
1.60	8.94				B	Silty SAND (ALLUVIUM) Brown-orange, moist, loose. Fine to medium grained.						3,3,3 N=6	SPT
2					C	3.40m: Becoming brown Clayey SAND.	(SM)					3,4,4 N=8	SPT
4	6.34				D	Sandy CLAY (ALLUVIUM) Brown mottled orange, moist, firm. Medium plasticity.	(CI)					3,3,3 N=6	SPT
5	5.24				E	Clayey SAND (ALLUVIUM) Brown-grey, moist to wet, very loose to loose. Fine to coarse grained.						3,3,3 N=6	SPT
6					F		(SC)					2,2,2 N=4	SPT
7	2.94				G							3,2,2 N=4	SPT
8					H	SAND (ALLUVIUM) Brown-grey, moist to wet, medium dense. Fine to coarse grained sand. Trace fine to medium, subrounded gravel.	(SW)					5,6,5 N=11	SPT
9	1.24				J	Sandy GRAVEL (ALLUVIUM) Grey-brown, wet, very dense. Fine to coarse, subrounded gravel.	(GP)					8,10,13 N=23	SPT
10													

REMARKS Kgwu - Wundaru Granodiorite;

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No **BH125**
SHEET **2** of **3**
REFERENCE No **12071**

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Gibsons Road Overpass Abutment A; CH: 6463m; COORDINATES 721107.4 E; 7658807.5 N
PROJECT No FG6184 SURFACE R.L. 10.54m PLUNGE _____ DATE STARTED 12/9/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 17/9/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	0.54												
11.00	-0.46				K	Sandy GRAVEL (ALLUVIUM) (Cont'd)	(GP)					22,32,24 N=56	SPT
11.90	-1.36				L	Gravelly SAND (ALLUVIUM) Brown, wet, dense. Fine to coarse grained sand. Fine to coarse, subrounded gravel.	(SW)					12,13,18 N=31	SPT
12					M	Silty CLAY (ALLUVIUM) Grey mottled brown, moist, very stiff. High plasticity. Trace fine to coarse grained sand. Trace fine to medium, subrounded gravel.	(CH)					6,11,13 N=24	SPT
13					N								U50
14	-3.71				P	Clayey SAND (ALLUVIUM) Grey, dry, medium dense. Fine to coarse grained.	(SC)					6,10,15 N=25	SPT
15.00	-4.46				Q	Sandy Gravelly CLAY (RESIDUAL) Brown and grey-green, dry, hard. Medium plasticity. Fine grained sand. Fine to coarse gravel.	(CI)					15.00m-15.25m: Clayey SAND; Dark grey and brown. 7,10,13 N=23	SPT
16	-5.86				R	16.30m: Grey and yellow, dense Clayey Gravelly SAND.						8,15,19 N=34	SPT
17					S	GRANODIORITE (Kgwu) XW: White, grey and pink, medium to coarse grained, extremely low strength.						10,15,22 N=37	SPT
18					T							15,23,35 N=58	SPT
19					U							30,46,42/80	SPT
20													

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH125
SHEET 3 of 3
REFERENCE No 12071

PROJECT Mackay Ring Road Geotechnical Investigation - Stage 1
LOCATION Gibsons Road Overpass Abutment A; CH: 6463m; COORDINATES 721107.4 E; 7658807.5 N
PROJECT No FG6184 SURFACE R.L. 10.54m PLUNGE _____ DATE STARTED 12/9/14 GRID DATUM GDA 94 /MGA Zone 55
JOB No _____ HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 17/9/14 DRILLER ND Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD () %	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
20	-9.46				V	GRANODIORITE (Kgwu) XW: (Cont'd)	+					26,29,37 N=66	SPT
21	-10.68				W		+	XW				33,30/70	SPT
22		(71) 100 100 (0) (17)				GRANODIORITE (Kgwu) HW: Grey, white and pink, fine to coarse grained, massive, very low strength. Broken throughout.	+	HW				21.22m-21.65m: BZ; 21.65m-22.21m: Core Loss Is(50) = 0.10MPa	D (22.25m)
23		46 (0) 100 (43) 100 (100) 100 (100) 100					+	HW				22.21m-24.00m: BZ; Is(50) = 0.17MPa Is(50) = 0.07MPa	D (22.95m) D (23.20m)
24	-13.46	(100) 100 (100) 100				Borehole terminated at 24m .	+					Is(50) = 0.06MPa 23.90m: J; 5°-10°, PI/Ro;	D (23.55m)
25													
26													
27													
28													
29													
30													

REMARKS Kgwu - Wundaru Granodiorite;

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CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
Geotechnical Branch
35 Butterfield Street, HERSTON Qld 4006
Phone 07 3066 3336



Department of
Transport and Main Roads

Project Name	Mackay – Ring Road		
Project No	FG6184	Date	17/09/15
Borehole No	BH 125	TMR H No	12071
Location	Gibsons Rd Overpass	Start Depth (m)	21.22
Detail	Abutment A	Finish Depth (m)	24.0
Chainage	6463m	Submitted By	DC
Remarks			



Scale (mm)

