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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 **BH252**

Sheet 1 of 5

REFERENCE No **H12261**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 17 (LHS)	COORDINATES 721350.2 E; 7660594.9 N	
PROJECT No	FG6184	SURFACE RL 4.21m	PLUNGE 90°
			DATE STARTED 03/08/2015
			GRID DATUM GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 05/08/2015
			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
0	2.81			A	Silty SAND trace clay (Alluvium) Pale brown, moist, loose. Fine grained sand. 1.00m: becoming clayey sand. Medium plasticity.	(SM)					4, 5, 4 N=9	SPT	
1				B	SAND trace silt (Alluvium) Pale brown, moist, medium dense. Fine grained sand.	(SP)					4, 5, 7 N=12	SPT	
2				C	3.00m: becomes orange grey.						4, 3, 4 N=7	SPT	
3	0.71			D	Gravelly SAND (Alluvium) Brown, wet, loose. Medium to coarse grained sand, fine to coarse grained gravel, rounded grains.	(SW)					2, 4, 2 N=6	SPT	
4				E	5.0m: Becoming dense.						11, 16, 14 N=30	SPT	
5	-1.09			F	Sandy GRAVEL (Alluvium) Orange and dark grey, wet, dense. Medium to coarse grained sand, fine to coarse grained gravel.						15, 20, 11 N=31	SPT	
6				G	6.80m: interbedded with SAND (Alluvium): pale grey, wet, medium dense. Fine to medium grained sand.	(GW)					6, 7, 8 N=15	SPT	
7				H							20, 14, 8 N=22	SPT	
8				I	9.00m: fine to medium grained gravel, subrounded grains.						12, 11, 17 N=28	SPT	
9	-5.79												

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REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
C.Boyes	S.Foley



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BOREHOLE No **BH252**

Sheet 2 of 5

REFERENCE No **H12261**

PROJECT	Mackay Ring Road		
LOCATION	Pioneer River Bridge, Pier 17 (LHS)	COORDINATES 721350.2 E; 7660594.9 N	
PROJECT No	FG6184	SURFACE RL 4.21m	PLUNGE 90°
			DATE STARTED 03/08/2015
			GRID DATUM GDA 94 / MGA 255
JOB No	242/10G/906	HEIGHT DATUM A.H.D.	BEARING °
			DATE COMPLETED 05/08/2015
			DRILLER Saxon Drilling

DEPTH (m)	R.L. (m)	FAUGER 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
-6.09				J	Sandy GRAVEL (Alluvium) (Cont'd)		(GP)				30/110 hb	SPT	
11				K	Sandy CLAY (Residual) Mottled pale orange brown and grey, moist, hard. Fine to medium grained sand, high plasticity.		(CH)				11, 15, 16 N=31	SPT	
-8.09				L	GRANODIORITE						13, 17, 23 N=40	SPT	
				M	XW: Recovered as speckled grey, dark grey and brown, moist, dense, clayey sand. Fine to medium grained sand, pyrite throughout. 13.0m: Becoming very dense.					13.00m-13.10m: DOLERITE (XW): Recovered as CLAY: green, moist, very stiff. Medium to high plasticity clay.	14, 24, 28 N=52	SPT	
14				N							16, 29, 30/110	SPT	
15				O	15.00 to 15.30m: becomes pink to dark grey. Coarse grained sand.						25, 30/130	SPT	
16				P							22, 30/100	SPT	
17				Q							14, 30/120 hb	SPT	
-13.29				R	MICRODIORITE							SPT	
18					XW: Recovered as green grey, moist, very dense, clayey sand with gravel. Fine grained sand, fine grained gravel, angular grains.						30/70 hb	SPT	
-14.49				S	GRANODIORITE							SPT	
19					XW: Recovered as speckled pink and dark grey, moist, very dense, clayey sand. Medium to coarse grained sand, medium plasticity.						30/100 hb	SPT	
-15.79													

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hb

REMARKS: Kgwu = Wundaru Granodiorite

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BOREHOLE No **BH252**

Sheet 3 of 5

REFERENCE No **H12261**

PROJECT Mackay Ring Road
 LOCATION Pioneer River Bridge, Pier 17 (LHS) COORDINATES 721350.2 E; 7660594.9 N
 PROJECT No FG6184 SURFACE RL 4.21m PLUNGE 90° DATE STARTED 03/08/2015 GRID DATUM GDA 94 / MGA Z55
 JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 05/08/2015 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
21					GRANODIORITE XW: (Cont'd)	+					hb
22						+					hb
23	-18.79 -19.01		(0)	CORE LOSS							hb
24			37 (H) (S)	CORE LOSS	GRANODIORITE XW: Recovered as speckled pink, grey and dark grey, moist, very dense, gravelly sand. Coarse grained sand, angular grains. 24.00m: End coring, start washboring to 30.00m	+	XW HW XW				SPT 30/40 hb
25						+					hb
26				Z		+					SPT 30/20 hb
27						+					hb
28						+					hb
29				Z		+					SPT 30/50 hb
	-25.79					+					

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30.00m-30.04m: CORE LOSS

REMARKS: Kgwu = Wundaru Granodiorite

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CORE PHOTO LOG

DEPARTMENT OF TRANSPORT AND MAIN ROADS
 Geotechnical Section
 35 Butterfield Street, Herston Qld 4006
 Phone 07 3066 3336



Project Name	Mackay – Ring Road (Stage 2)		
Project No.	FG6184	Date	02/08/15
Borehole No.	BH 252	TMR H No.	H12261
Location	Pioneer River Bridge	Start Depth (m)	23.00
Detail	Pier 17 (LHS)	Finish Depth (m)	41.45
Chainage		Submitted By	M.Ensor
Remarks			

