

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "*(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence*". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH217**

Sheet 1 of 3

REFERENCE No **H12226**

PROJECT Mackay Ring Road
 LOCATION Pioneer River Bridge, Pier 5 (CL) COORDINATES 721302.1 E; 7660178.2 N
 PROJECT No FG6184 SURFACE RL 7.45m PLUNGE 90° DATE STARTED 31/08/2015 GRID DATUM GDA 94 / MGA Z55
 JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 02/09/2015 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	VJ	EU	EC	VC	C	M	W			VW	EW
6.95				Z	Sandy CLAY (Topsoil) Dark brown, moist, firm.	(CH)															2, 3, 3 N=6	SPT	
6.25				ZX	Clayey SAND (Alluvium) Brown, moist, loose.	(SC)																2, 3, 3 N=6	SPT
				A	Fine grained sand.																	1, 2, 2 N=4	SPT
				AX	Silty SAND with clay (Alluvium) Grey brown, dry, loose.																	2, 3, 2 N=5	SPT
				B	Fine grained sand, medium to high plasticity, trace rootlets.	(SM)																2, 3, 3 N=6	SPT
	4.95			BX	SAND trace clay, silt and gravel (Alluvium) Orange grey, moist, loose.																	2, 3, 2 N=5	SPT
				C	Fine to coarse grained sand, fine to medium grained gravel, subrounded to rounded grains																	3, 3, 4 N=7	SPT
				CX																		2, 2, 4 N=6	SPT
				D																		3, 3, 4 N=7	SPT
				DX																		3, 3, 2 N=5	SPT
				E	5.00m: becomes medium dense. Fine to medium grained sand.	(SP)																4, 8, 7 N=15	SPT
				EX																		6, 7, 6 N=13	SPT
				F	6.00m: becomes medium to coarse grained sand, fine grained gravel																	8, 7, 10 N=17	SPT
				FX	6.50m: fine to medium grained sand.																	4, 7, 6 N=13	SPT
				G	7.00m: trace fine to medium grained gravel, angular grains.																	13, 21, 18 N=39	SPT
	-0.05			GX	Sandy Clayey GRAVEL (Alluvium) Brown grey, wet, medium dense.	(GC)																17, 15, 12 N=27	SPT
				H	Medium to coarse grained sand, fine to medium grained gravel, subrounded to angular grains.																	19, 12, 8 N=20	SPT
				HX	8.10m: fine to medium grained gravel, subrounded grains.																	12, 11, 12 N=23	SPT
				I	Clayey SAND (Alluvium) Pale grey, moist, medium dense.																	8, 8, 8 N=16	SPT
				IX	Fine to medium grained sand, medium plasticity. 9.00m: trace clay	(SC)																6, 8, 7 N=15	SPT

Continued on next sheet

REMARKS: Abandon hole at 21.00m, casing broke off down hole at 19.50m, unable to drill through. Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

C.Boyes

S.Foley



**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **BH217**

Sheet 2 of 3

REFERENCE No **H12226**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Pier 5 (CL)			COORDINATES 721302.1 E; 7660178.2 N	
PROJECT No	FG6184	SURFACE RL	7.45m	PLUNGE	90°
				DATE STARTED	31/08/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	02/09/2015
				DRILLER	Saxon Drilling

DEPTH (m)	R.L. (m)	FAUGER CASING WASHBORING CONE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
													EH
	-3.05				J	Clayey SAND (Alluvium) (Cont'd)		(SC)				7, 9, 11 N=20	SPT
					JX	Sandy CLAY (Alluvium)						8, 8, 11 N=19	SPT
11					K	Pale grey mottled orange brown, moist, very stiff.						5, 8, 10 N=18	SPT
					KX	Fine grained sand, medium to high plasticity.						6, 7, 9 N=16	SPT
12					L		(CH)					7, 6, 9 N=15	SPT
					LX	12.50m: Sand content increasing						6, 8, 11 N=19	SPT
13					M							6, 9, 11 N=20	SPT
	-6.05				MX	Clayey SAND (Alluvium)		(SC)				6, 9, 13 N=22	SPT
14					N	Pale grey, wet, medium dense. Fine to medium grained sand.						5, 10, 15 N=25	SPT
					NX	Sandy CLAY (Alluvium)		(CI)				12, 17, 22 N=39	SPT
15					O	Pale grey mottled orange brown, moist, very stiff. Low to medium plasticity.						12, 15, 22 N=37	SPT
						Clayey Silty SAND trace gravel (Residual)							
16					P	Mottled orange brown and grey, moist, dense. Fine to medium grained sand, fine grained gravel, angular grains.		(SC)				22, 23, 23 N=46	SPT
					Q	MICRODIORITE						22, 30, 24 N=54	SPT
17						XW: Recovered as orange brown and green grey, moist, dense, clayey sand. Medium to coarse grained sand. Becoming very dense.							
					R	18.00m: XW white calcite veins visible in SPT sample.		XW				25, 30/60 hb	SPT
18					S	19.00m: trace fine grained gravel, angular grains.						30/80 hb	SPT
19													
	-12.55												

Continued on next sheet

REMARKS: Abandon hole at 21.00m, casing broke off down hole at 19.50m, unable to drill through. Kgwu = Wundaru Granodiorite

LOGGED BY	REVIEWED BY
C.Boyes	S.Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH217**

Sheet 3 of 3

REFERENCE No **H12226**

PROJECT Mackay Ring Road
 LOCATION Pioneer River Bridge, Pier 5 (CL) COORDINATES 721302.1 E; 7660178.2 N
 PROJECT No FG6184 SURFACE RL 7.45m PLUNGE 90° DATE STARTED 31/08/2015 GRID DATUM GDA 94 / MGA Z55
 JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 02/09/2015 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	S		VI	EL	EC	VC	C			M
21	-13.55				MICRODIORITE XW: (Cont'd)	+												30/90 hb	SPT	
Borehole completed at 21.00m																				

REMARKS: Abandon hole at 21.00m, casing broke off down hole at 19.50m, unable to drill through. Kgwu = Wundaru Granodiorite	LOGGED BY	REVIEWED BY
	C.Boyes	S.Foley