

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 **BH215**

Sheet 1 of 4

REFERENCE No **H12224**

PROJECT Mackay Ring Road

LOCATION Pioneer River Bridge, Pier 4 (RHS) COORDINATES 721306.1 E; 7660142.8 N

PROJECT No FG6184 SURFACE RL 6.53m PLUNGE 90° DATE STARTED 25/08/2015 GRID DATUM GDA 94 / MGA Z55

JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 26/08/2015 DRILLER Cairns 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 1	VH 2	H 3	M 4	J 5	VI 6	EL 7	EC 8	VC 9	C 10	M 11	W 12	VW 13	EW 14								
	6.23				Silty SAND (Topsoil) Dark brown, moist, very loose to loose. Organics and rootlets.		(SM)																						
1				A	Silty SAND (Alluvium) Dark brown, dry to moist, loose. Organics. Fine to medium grained sand.		(SM)																				3, 4, 4 N=8	SPT	
2	4.28			B	SAND trace silt (Alluvium) Pale brown, dry, loose. Fine grained sand.		(SP)																				3, 4, 4 N=8	SPT	
3	3.53			C	Silty SAND (Alluvium) Dark brown, wet, very loose to loose. Fine to medium grained sand.																						2, 2, 2 N=4	SPT	
4				D			(SM)																				1, 1, 1 N=2	SPT	
5				E	5.00m: becomes brown grey. Trace organics, muscovite flakes																						2, 2, 2 N=4	SPT	
6	0.53			F	SAND trace clay and gravel (Alluvium) Orange brown, wet, medium dense. Fine to coarse grained sand.																						4, 6, 6 N=12	SPT	
7				G			(SP)																		7.00m-7.45m: No sample recovered		10, 11, 8 N=19	SPT	
8	-1.52			H	8.00 to 8.05m: fine to medium grained gravel lens. Silty SAND trace gravel (Alluvium) Pale grey brown, wet, dense. Fine to medium grained sand.																						6, 14, 18 N=32	SPT	
9				I			(SM)																		9.00m-9.45m: No sample recovered		8, 14, 17 N=31	SPT	
	-3.47																												

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

T.Goosey

S.Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH215**

Sheet 2 of 4

REFERENCE No **H12224**

PROJECT	Mackay Ring Road				
LOCATION	Pioneer River Bridge, Pier 4 (RHS)			COORDINATES 721306.1 E; 7660142.8 N	
PROJECT No	FG6184	SURFACE RL	6.53m	PLUNGE	90°
				DATE STARTED	25/08/2015
				GRID DATUM	GDA 94 / MGA Z55
JOB No	242/10G/906	HEIGHT DATUM	A.H.D.	BEARING	°
				DATE COMPLETED	26/08/2015
				DRILLER	Cairns 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 L			

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

T.Goosey

REVIEWED BY

S.Foley



Queensland
Government

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH215**

Sheet 3 of 4

REFERENCE No **H12224**

PROJECT	Mackay Ring Road
---------	------------------

LOCATION	Pioneer River Bridge, Pier 4 (RHS)
----------	------------------------------------

COORDINATES 721306.1 E; 7660142.8 N

PROJECT No FG6184

SURFACE RL 6.53m

PLUNGE 90°

DATE STARTED 25/08/2015

GRID DATUM GDA 94 / MGA Z55

JOB No 242/10G/906

HEIGHT DATUM A.H.D.

BEARING °

DATE COMPLETED 26/08/2015

DRILLER Cairns Drilling

[illegible]

Continued on next sheet

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

T.Goosey

S.Foley

**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH215**

Sheet 4 of 4

REFERENCE No **H12224**

PROJECT	Mackay Ring Road
---------	------------------

LOCATION	Pioneer River Bridge, Pier 4 (RHS)
----------	------------------------------------

COORDINATES 721306.1 E; 7660142.8 N

PROJECT No	FG6184	SURFACE RL 6.53m	PLUNGE 90°	DATE STARTED 25/08/2015	GRID DATUM GDA 94 / MGA Z55
------------	--------	------------------	------------	-------------------------	-----------------------------

JOB No 242/10G/906 HEIGHT DATUM A.H.D. BEARING ° DATE COMPLETED 26/08/2015 DRILLER Cairns Drilling

REMARKS: Kgwu = Wundaru Granodiorite

LOGGED BY

REVIEWED BY

T.Goosey

S.Foley

CORE PHOTO LOG

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



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	26/08/15
Borehole No.	BH 215	TMR H No.	H12224
Location	Pioneer River Bridge	Start Depth (m)	18.10
Detail	Pier 4, RHS	Finish Depth (m)	32.60
Chainage		Submitted By	M.Ensor
Remarks			

0	100	200	300	400	500	600	700
---	-----	-----	-----	-----	-----	-----	-----

SCALE 1:5