

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Cross River Rail Delivery Authority under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute as follows: "*(c) Cross River Rail Delivery Authority 2023, licensed under the CC BY 4.0 Licence, prepared by the State of Queensland (Department of Transport and Main Roads)*". This licence does not apply to logos 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 the Cross River Rail Delivery Authority 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 **CRR731**

Sheet 1 of 2

REFERENCE No **H12957**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	RNA showgrounds	COORDINATES 503045.9 E; 6963708.7 N	
PROJECT No	FG6470	SURFACE RL 8.58m	PLUNGE 90°
			DATE STARTED 25/09/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 25/09/2017
			DRILLER Schneider

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 - 1	7.08					Gravelly SAND (Fill) Grey, moist to dry, fine to coarse grained. Fine grained, angular gravel.	(SW)				0.00m-1.50m: Non destructive drilling			
1 - 2	6.18				A	Clayey SAND (Fill) Grey brown, moist, loose. Fine grained sand. Trace fine to medium grained, sub rounded gravel.	SC				1, 3, 4 N=7 LL=21% PI= 2% MC=7.9% LS= 150% <75µm= 28%	SPT		
2 - 3	5.22			(87)	B	TUFF (Rif) MW: Orange, fine grained, massive, medium strength, iron staining. -Js: 0°-5° (4/m), Un/Sm, OP, FeSt -Js: 70°-90° (2/m), Un/Sm, OP, FeSt	HW MW SW				30/70mm	SPT		
3 - 4						TUFF (Rif) FR: Grey-purple mottled brown and white, fine to coarse gravel sized clasts within fine grained matrix, massive, high to very high strength. -Js: 0°-10° (1/m), Un/Sm, OP, Cn					Is(50)=0.67 MPa Is(50)=2.10 MPa	D (3.05m) A (3.06m)		
4 - 5						Between 4.6m-5.0m: becoming pale grey white with mottled grey and brown.					Is(50)=3.60 MPa Is(50)=5.30 MPa	D (4.05m) A (4.06m)		
5 - 6				100 (100)							UCS=88.20 MPa E=17.1 GPa v= 0.152 Is(50)=4.00 MPa Is(50)=6.00 MPa Is(50)=2.80 MPa Is(50)=5.40 MPa	(4.44m) D (4.60m) A (4.61m) D (4.90m) A (4.92m)		
6 - 7						At 6.5m: becoming pale grey white with mottled grey and brown.					Is(50)=4.20 MPa Is(50)=6.10 MPa Is(50)=2.10 MPa Is(50)=6.90 MPa	D (5.60m) A (5.62m) D (5.78m) A (5.80m)		
7 - 8							FR				UCS=91.70 MPa E=17.2 GPa v= 0.103 Is(50)=5.30 MPa Is(50)=6.10 MPa	(6.13m) D (6.40m) A (6.42m)		
8 - 9				100 (33)							Is(50)=1.70 MPa Is(50)=5.10 MPa	D (7.30m) A (7.31m)		
9 - 10	-1.42										Is(50)=2.10 MPa Is(50)=4.30 MPa	D (8.10m) A (8.11m)		
											Is(50)=4.80 MPa Is(50)=1.20 MPa	D (9.80m) A (9.82m)		

Continued on next sheet

REMARKS: Rif - Brisbane Tuff

LOGGED BY	REVIEWED BY
ZC	S. Foley



**Queensland
Government**

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **CRR731**

Sheet 2 of 2

REFERENCE No **H12957**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation

LOCATION RNA showgrounds COORDINATES 503045.9 E; 6963708.7 N

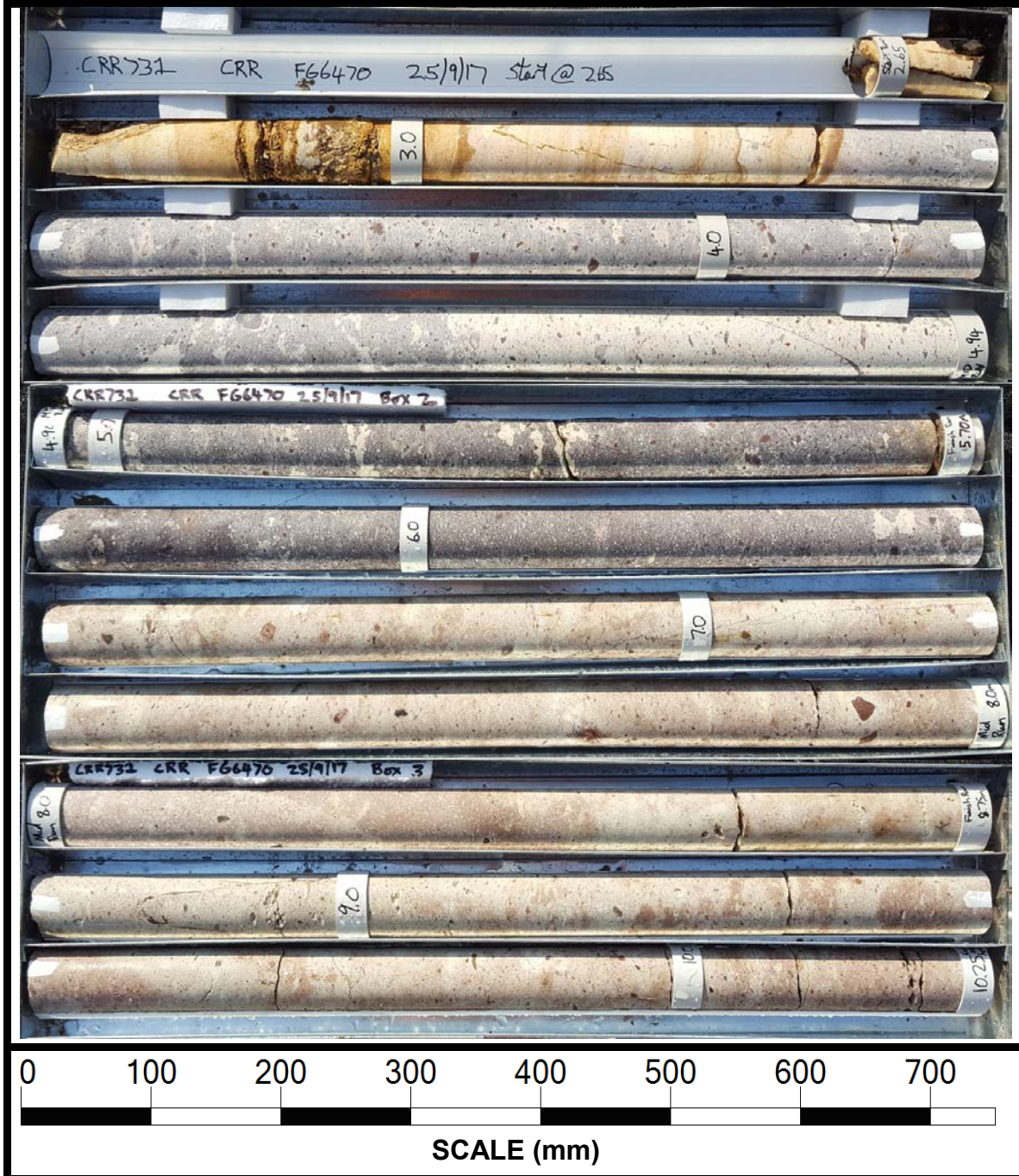
PROJECT No FG6470 SURFACE RL 8.58m PLUNGE 90° DATE STARTED 25/09/2017 GRID DATUM MGA94

JOB No _____ HEIGHT DATUM AHD BEARING ° DATE COMPLETED 25/09/2017 DRILLER Schneider

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		H		M		L		VL				EL		EC		VC		C		M		W		VW		EW	
-1.67						100			TUFF (Rif) FR: Cont'd. <small>Borehole completed at 10.25m</small>		FR																														
11																																									
12																																									
13																																									
14																																									
15																																									
16																																									
17																																									
18																																									
19																																									

REMARKS: Rif - Brisbane Tuff	LOGGED BY	REVIEWED BY
	ZC	S. Foley

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	25/09/2017
Borehole No.	CRR731	Reference No.	H12957
Location	RNA Showgrounds	Start Depth (m)	2.65
Submitted By	M. de Gee	Finish Depth (m)	10.25



Detailed Discontinuity Description Log



This form is intended for the detailed description of discontinuities and defects as measured in outcrop by line mapping, or as they occur downhole in drilled rock core. The descriptions and abbreviations used shall be in accordance with Australian Standard AS1726-1993 Geotechnical site investigations and TMR Geotechnical Terms and Symbols Form F:GEOT017/8.

Project Name		Cross River Rail				Project No. FG6470			
Site ID / Borehole No.		CRR731				Surface RL 8.58			
Geologist		Z.C.				Date		25/09/2017	
						Page		1	of 1
Traverse Chainage; or Down hole depth (rock core)	Type LP / BP / FP / J etc.	Dip ° / Dip Direction °; or Angle ° from horizontal (rock core)	Planarity Stp / Un / Pl	Roughness Ro / Sm / Sl	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
2.65	J	70	Un	Sm	V	OP	St		Fe
2.75	J	75	Un	Sm	V	OP	St		Fe
2.91	J	10	Un	Ro	IV	TI	St		Fe
2.93	J	10	Un	Ro	IV	TI	St		Fe
2.99	J	10	Un	Ro	IV	TI	St		Fe
3.36	J	12	Pl	Sm	VIII	OP	St		Fe
4.14	J	5	Un	Sm	V	OP	Cn		
5.36	J	20	Un	Sm	V	OP	Cn		
7.85	J	5	Un	Sm	V	OP	Cn		
8.55	J	5	Un	Sm	V	OP	Cn		
8.75	J	85	Un	Sm	V	OP	Cn		
8.95	J	85	Un/Stp	Sm	V/II	OP	Cn		
9.34	J	90	Un/Stp	Sm	V/II	OP	Cn		
9.68	J	30	Stp	Sm	II	OP	Cn		
9.99	J	2	Un	Sm	V	OP	Cn		
10.08	J	0	Un	Sm	V	OP	Cn		
10.16	J	0	Un	Sm	V	OP	Cn		
10.17	J	0	Un	Sm	V	OP	Cn		

Note: 1. Describe zones and coatings in terms of composition and thickness (mm)

F:GEOT 533/9 – 2014