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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR737**

Sheet 1 of 2

REFERENCE No **H12963**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	QR land (Mayne Yard)	COORDINATES 503845.9 E; 6964873.5 N	
PROJECT No	FG6470	SURFACE RL 4.16m	PLUNGE 90°
			DATE STARTED 21/09/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 21/09/2017
			DRILLER Geodrill

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 - 1.06				A	Sandy Gravelly CLAY (Fill) Grey, mottled orange brown, dry, firm to stiff. Low plasticity.	(CL)				0.00m-1.10m: Non destructive drilling	3, 4, 4 N=8	SPT	
1.06 - 3.08			(33) 100 (0)	B	ARGILLITE BOULDER (Fill) Grey, orange brown, fine grained, foliated, clay and quartz veins up to 5mm. Medium to high strength.						15, 5, 3 N=8	SPT	
3.08 - 4.16	1.06				Gravelly CLAY (Fill) Dark grey, moist, firm. Low to medium plasticity. Fine to coarse sized, sub-angular gravel.	(CL)					3, 3, 4 N=7	SPT	
4.16 - 5.24	0.08		55	C	Clayey SAND (Alluvium) Dark grey, moist, very loose. Medium plasticity clay. Fine to medium grained sand.						1, 1, 2 N=3 LL=37% PI= 22% MC=28.1% LS= 125% <75µm= 35%	SPT	
5.24 - 8.00	-2.24			D	8.0m: Becoming loose. Trace fine gravel of argillite.	SC					1, 1, 6 N=7 <75µm= 19%	SPT	
8.00 - 5.84	-5.24			E	Sandy CLAY (Alluvium) Dark grey, moist, stiff. High plasticity.	CH					5, 7, 6 N=13 LL=51% PI= 35% MC=18.4% LS= 127% <75µm= 67%	SPT	
5.84 - 5.84	-5.84			F									

Continued on next sheet

REMARKS: Dcf - Neranleigh Fernvale Beds

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GP	S. Foley



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**GEOTECHNICAL
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BOREHOLE No **CRR737**

Sheet 2 of 2

REFERENCE No **H12963**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation
 LOCATION QR land (Mayne Yard) COORDINATES 503845.9 E; 6964873.5 N
 PROJECT No FG6470 SURFACE RL 4.16m PLUNGE 90° DATE STARTED 21/09/2017 GRID DATUM MGA94
 JOB No _____ HEIGHT DATUM AHD BEARING ° DATE COMPLETED 21/09/2017 DRILLER Geodrill

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
	-6.74				Sandy CLAY (Alluvium) Cont'd. Fine to medium grained sand.	CH					
11	-7.15			G	ARGILLITE (DCf) XW: Recovered as Clayey SAND: Dark grey, moist, very dense. Low plasticity Clay. Trace fine to coarse sized, sub-angular gravel. Borehole completed at 11.31m	XW				8, 29, 30/110mm LL=34% PI= 18% MC=12.9% LS= 126% <75µm= 48%	SPT
12											
13											
14											
15											
16											
17											
18											
19											

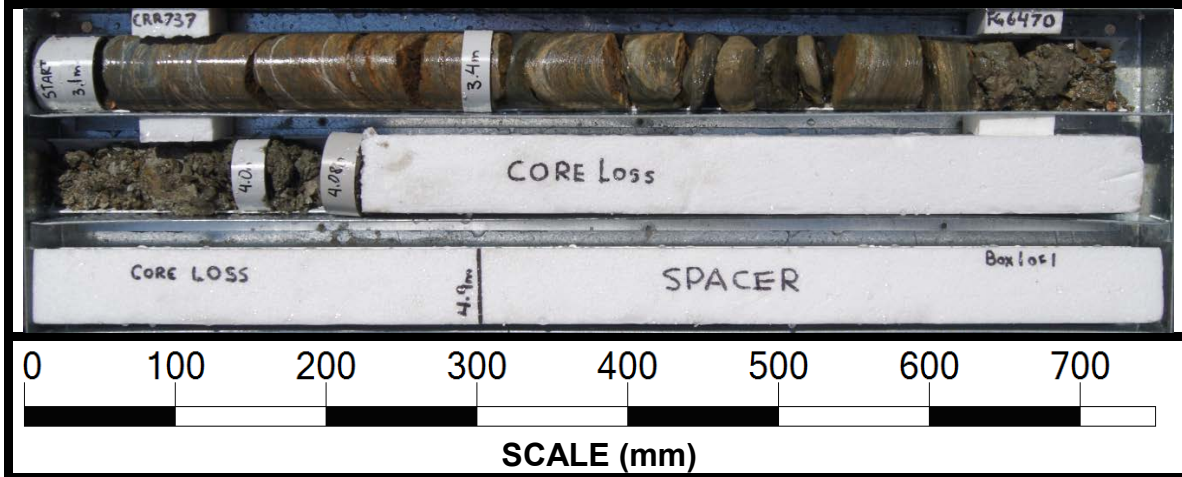
REMARKS: DCf - Neranleigh Fernvale Beds

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GP	S. Foley

CORE PHOTO LOG
 DEPARTMENT OF TRANSPORT AND MAIN ROADS
 GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	21/09/2017
Borehole No.	CRR737	Reference No.	H12963
Location	QR land (Mayne Yard)	Start Depth (m)	3.10
Submitted By	M. de Gee	Finish Depth (m)	4.90



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.		CRR737				Surface RL		4.16		
Geologist		G.P.				Date		21/09/2017		
						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		Other
								SZ / CZ / HFZ / AZ		
3.10-3.15	FP	-	Un	Ro	IV	OP	Cn / St	HFZ	DI	
3.25	FP	40	Un	Ro	IV	OP	Cn / St			
3.33	FP	40	Un	Ro	IV	OP	Cn / St			
3.36	FP	40	Un	Ro	IV	OP	Cn / St			

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

F:GEOT 533/9 – 2014