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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **CRR705**

Sheet 1 of 4

REFERENCE No **H12931**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Hubert Street	COORDINATES 503369.8 E; 6959612.6 N	
PROJECT No	FG6470	SURFACE RL 17.74m	PLUNGE 90°
			DATE STARTED 02/11/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 07/11/2017
			DRILLER Hinterland

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
17.64	17.54					ASPHALT		(SP)					
			100 (88)			Gravelly SAND (Fill) Pale grey, moist. Medium to coarse grained sand, fine to medium grained gravel. Trace silt.		MW	M	VC-C			
1			100 (88)			TUFF (Rif) SW: Pale grey and orange brown, fine to medium grained, massive, high to very high strength. Sub angular clasts within fine grained matrix.			MH				
2			100 (86)			-Js: 5°-20° (1-4/m), Pl-Un/Sm-Ro, OP-CD, FeSt -Js: 45°-70° (1/m), Pl/Sm-Ro, CD-OP, Cn.				M		Is(50)=2.60 MPa Is(50)=4.00 MPa	D (2.05m) A (2.07m)
3							SW			C		Is(50)=2.10 MPa Is(50)=2.60 MPa	D (3.23m) A (3.25m)
4			100 (94)							CM		Is(50)=3.60 MPa Is(50)=4.00 MPa	D (4.60m) A (4.62m)
5										C			
6	11.65					TUFF (Rif) FR: Pale grey and grey, fine to medium grained, massive, high to very high strength. Sub angular clasts within fine grained matrix.			H-VH				
7			100 (96)			-Js: 5°-20° (1-4/m), Pl-Un/Sm-Ro, OP-CD, FeSt -Js: 45°-70° (1/m), Pl/Sm-Ro, CD-OP, Cn.				C		Is(50)=1.40 MPa Is(50)=3.50 MPa	D (6.35m) A (6.36m)
8							FR			M		Is(50)=1.60 MPa Is(50)=4.30 MPa	D (7.83m) A (7.84m)
9												Is(50)=4.70 MPa Is(50)=4.10 MPa	D (9.30m) A (9.32m)
7.74										VC			

Continued on next sheet

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff. Dcf - Neranleigh Fernvale Beds

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MS	S. Foley



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**GEOTECHNICAL  
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BOREHOLE No **CRR705**

Sheet 2 of 4

REFERENCE No **H12931**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Hubert Street	COORDINATES 503369.8 E; 6959612.6 N	
PROJECT No	FG6470	SURFACE RL 17.74m	PLUNGE 90°
			DATE STARTED 02/11/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 07/11/2017
			DRILLER Hinterland

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
11.0			100 (97)		TUFF (Rif) FR: Cont'd.				CM		Is(50)=0.98 MPa Is(50)=2.30 MPa	D (10.83m) A (10.84m)		
12.0									MW					
13.0											Is(50)=1.20 MPa Is(50)=1.70 MPa UCS=108.00 MPa E=13.2 GPa v= 0.063 Is(50)=5.60 MPa Is(50)=5.00 MPa	D (12.36m) A (12.37m) (12.52m) D (12.80m) A (12.82m)		
14.0			100 (100)								Is(50)=1.40 MPa Is(50)=1.80 MPa	D (13.82m) A (13.83m)		
15.0						FR					Is(50)=1.80 MPa Is(50)=4.00 MPa	D (15.12m) A (15.14m)		
16.0										15.50m: J: 80°, Un/Ro, TI-OP, FeSt.				
17.0			100 (100)							16.29m-16.31m: XW	Is(50)=1.50 MPa Is(50)=2.20 MPa	D (16.90m) A (16.91m)		
18.0														
19.0			100 (86)								Is(50)=1.00 MPa Is(50)=1.70 MPa	D (18.35m) A (18.36m)		
19.8	-2.26						HW	L						
19.9						FR				18.56m-18.85m: HFZ	Is(50)=1.90 MPa Is(50)=2.80 MPa	D (19.87m) A (19.89m)		

Continued on next sheet

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff. Dcf - Neranleigh Fernvale Beds

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Sheet 3 of 4

REFERENCE No **H12931**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Hubert Street	COORDINATES 503369.8 E; 6959612.6 N	
PROJECT No	FG6470	SURFACE RL 17.74m	PLUNGE 90°
			DATE STARTED 02/11/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 07/11/2017
			DRILLER Hinterland

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
21						TUFF (Rif) FR: Cont'd.		FR	H-VH	CM	Is(50)=4.10 MPa Is(50)=3.60 MPa	D (21.30m) A (21.31m)	
22			100 (89)					SW					
23								HW	H-VH		Is(50)=1.10 MPa Is(50)=3.10 MPa	D (22.77m) A (22.78m)	
24	-6.46							SW	H-VH		23.29m-23.32m: XW		
25	-6.86					SILTSTONE (Rip) SW: Brown, fine grained, thickly laminated, medium to high strength.		SW	VL-L		24.44m-24.54m: CAI=0.31		
26			100 (80)			ARGILLITE (DCf) SW: Dark grey and pale grey, fine grained, foliated, medium to high strength.		SW		c	Is(50)=0.95 MPa Is(50)=0.19 MPa	D (25.17m) A (25.18m)	
27						ARGILLITE (DCf) FR: Dark grey, fine grained, foliated, medium to mainly high strength. Frequent quartz bands <10mm thick, parallel to foliation. -Js: 5°-20° (1-2/m), Un/Ro, Cn-St -Js: 30-45° (1-2/m), Pl-Un/Sm-Ro, CD-OP, Cn-Vr					25.74m-25.85m: CAI=0.83		
28			100 (98)					FR		w	Is(50)=0.19 MPa Is(50)=0.84 MPa	D (26.15m) A (26.16m)	
29											Is(50)=0.24 MPa Is(50)=0.32 MPa UCS=9.76 MPa E=5.77 GPa v= 0.022	D (26.95m) A (26.97m) (27.14m) D (27.39m) A (27.40m)	
											27.50m-27.60m: Slake Durability Index Test		
											Is(50)=0.17 MPa Is(50)=0.36 MPa	D (28.63m) A (28.64m)	
											Is(50)=1.10 MPa Is(50)=0.53 MPa	D (29.16m) A (29.17m)	
	-12.26										29.27m-29.40m: CAI=1.00		

Continued on next sheet

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff. DCf - Neranleigh Fernvale Beds

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MS	S. Foley



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

BOREHOLE No **CRR705**

Sheet 4 of 4

REFERENCE No **H12931**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Hubert Street	COORDINATES 503369.8 E; 6959612.6 N	
PROJECT No	FG6470	SURFACE RL 17.74m	PLUNGE 90°
			DATE STARTED 02/11/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 07/11/2017
			DRILLER Hinterland

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	VH
31			100 (100)		ARGILLITE (DCf) FR: Cont'd.					Is(50)=0.95 MPa Is(50)=0.17 MPa	D (30.45m) A (30.46m)		
32										Is(50)=1.00 MPa Is(50)=0.37 MPa	D (31.90m) A (32.00m)		
33													
34			100 (100)			FR		MH	w	Is(50)=0.51 MPa Is(50)=0.43 MPa	D (33.40m) A (33.42m)		
35										Is(50)=0.48 MPa Is(50)=1.10 MPa	D (34.90m) A (34.91m)		
36			100 (91.5)										
37									c	Is(50)=2.70 MPa Is(50)=0.02 MPa	D (36.42m) A (36.49m)		
38	-20.46		100		Borehole completed at 38.20m				w				
39													

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff. DCf - Neranleigh Fernvale Beds	<b>LOGGED BY</b>	<b>REVIEWED BY</b>
	MS	S. Foley

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	07/11/2017
Borehole No.	CRR705	Reference No.	H12931
Location	Hubert Street	Start Depth (m)	0.20
Submitted By	M. de Gee	Finish Depth (m)	38.20



<b>Project Name</b>	<b>Cross River Rail CRR2017 – Geotechnical Investigation</b>		
<b>Project No.</b>	FG6470	<b>Date</b>	07/11/2017
<b>Borehole No.</b>	CRR705	<b>Reference No.</b>	H12931
<b>Location</b>	Hubert Street	<b>Start Depth (m)</b>	0.20
<b>Submitted By</b>	M. de Gee	<b>Finish Depth (m)</b>	38.20



<b>Project Name</b>	<b>Cross River Rail CRR2017 – Geotechnical Investigation</b>		
<b>Project No.</b>	FG6470	<b>Date</b>	07/11/2017
<b>Borehole No.</b>	CRR705	<b>Reference No.</b>	H12931
<b>Location</b>	Hubert Street	<b>Start Depth (m)</b>	0.20
<b>Submitted By</b>	M. de Gee	<b>Finish Depth (m)</b>	38.20





**CORE PHOTO LOG**  
 DEPARTMENT OF TRANSPORT AND MAIN ROADS  
 GEOTECHNICAL SECTION

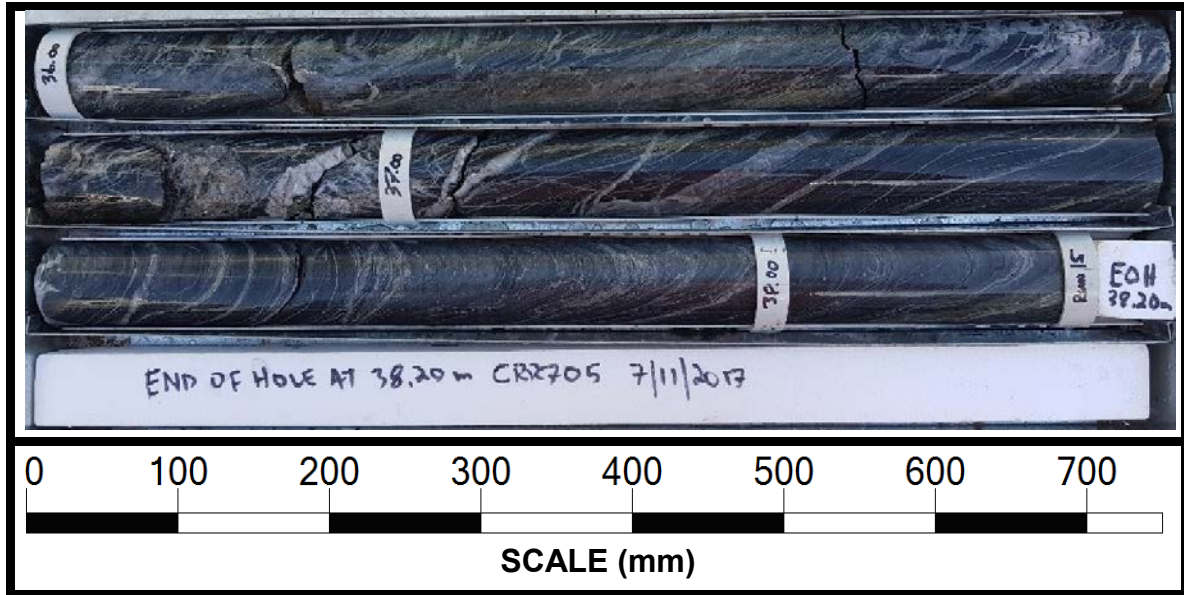
<b>Project Name</b>	<b>Cross River Rail CRR2017 – Geotechnical Investigation</b>		
<b>Project No.</b>	FG6470	<b>Date</b>	07/11/2017
<b>Borehole No.</b>	CRR705	<b>Reference No.</b>	H12931
<b>Location</b>	Hubert Street	<b>Start Depth (m)</b>	0.20
<b>Submitted By</b>	M. de Gee	<b>Finish Depth (m)</b>	38.20



**CORE PHOTO LOG**  
 DEPARTMENT OF TRANSPORT AND MAIN ROADS  
 GEOTECHNICAL SECTION



<b>Project Name</b>	<b>Cross River Rail CRR2017 – Geotechnical Investigation</b>		
<b>Project No.</b>	FG6470	<b>Date</b>	07/11/2017
<b>Borehole No.</b>	CRR705	<b>Reference No.</b>	H12931
<b>Location</b>	Hubert Street	<b>Start Depth (m)</b>	0.20
<b>Submitted By</b>	M. de Gee	<b>Finish Depth (m)</b>	38.20



# 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.		CRR705				Surface RL		18.71	
Geologist		M.S.				Date		2/11/2017	
						Page		1	of 5
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 <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other
0.23	J	30	Stp	Ro	I	OP	St		Clay infill
0.40	J	10	Stp	Ro	I	OP	St		
0.41	J	10	Pl	Sm	VIII	CD	St		Gravel infill
0.51	J	5	Stp	Ro	I	OP	St		
0.64	J	5	Un	Sm	V	OP	St		
0.84	J	20	Un	Ro	IV	OP	St		
1.14	J	5	Stp	Ro	I	OP	St		
1.24	J	5	Un	Ro	IV	OP	St		
1.31	J	50	Un	Ro	IV	CD	St		Sand infill
1.50	J	10	Un	Ro	IV	OP	St		
2.05	J	45	Un	Ro	IV	CD	St		
2.50	J	20	Pl	Sm	VIII	CD	St		
2.54	J	10	Un	Sm	V	OP	St		
2.59	J	10	Un	Ro	IV	CD	St		
2.68	J	10	Un	Ro	IV	CD	St		
2.76	J	20	Un	Ro	IV	OP	St		
2.83	J	60	Un	Ro	IV	OP	St		
3.03	J	20	Pl	Sm	VIII	CD	St		
3.15	J	5	Un	Ro	IV	OP	St		
3.33	J	20	Un	Ro	IV	OP	St		
3.50	J	60	Un	Ro	IV	OP	St		
3.63	J	10	Un	Ro	IV	OP	St		
3.90	J	10	Un	Ro	IV	OP	St		
3.93	J	20	Un	Ro	IV	OP	St		
4.15	J	20	Un	Ro	IV	OP	St		
4.25	J	60	Un	Ro	IV	OP	St		
4.78	J	20	Stp	Ro	I	OP	St		
4.92	J	5	Un	Ro	IV	OP	St		
4.95	J	5	Pl	Sm	VIII	OP	St		
4.98	J	10	Un	Ro	IV	CD	St		
5.16	J	0	Pl	Sm	VIII	OP	St		

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

F:GEOT 533/9 – 2014

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Site ID / Borehole No.		CRR705				Surface RL		18.71	
Geologist		M.S.				Date		2/11/2017	
						Page		2 of 5	
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 / PI	Roughness Ro / Sm / SI	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other
5.33	J	70	Un	Ro	IV	CD	St		
5.64	J	70	Un	Ro	IV	CD	St		
5.77	J	10	PI	Sm	VIII	OP	St		
5.87	J	10	Un	Sm	V	CD	St		
5.91	J	20	Un	Ro	IV	OP	St		
6.00	J	70	PI	Sm	VIII	OP	St		
6.13	J	10	Un	Ro	IV	OP	St		Fe
6.28	J	10	Un	Ro	IV	OP	St		Fe
6.45	J	5	Un	Ro	IV	OP	St		Fe
6.48	J	20	Un	Ro	IV	CD	St		Fe
6.58	J	50	Un	Ro	IV	CD	St		Fe
6.69	J	70	Un	Ro	IV	CD	St		Fe
7.04	J	20	PI	Sm	VIII	OP	St		Fe
7.33	J	10	Un	Ro	IV	OP	St		Fe
7.68	J	15	Stp	Sm	II	OP	St		Fe
7.92	J	5	PI	Sm	VIII	OP	St		Fe
8.21	J	10	PI	Sm	VIII	OP	St		Fe
8.78	J	5	Un	Ro	IV	OP	St		Fe
9.50	J	55	Un	Ro	IV	OP	St		
9.56	J	10	PI	Sm	VIII	OP	St		
9.85	J	70	Un	Ro	IV	OP	St		
9.87	J	70	Un	Ro	IV	OP	St		
10.14	J	30	Un	Ro	IV	CD	St		
10.36	J	20	PI	Sm	VIII	OP	St		
10.45	J	70	PI	Sm	VIII	CD	St		
11.44	J	50	Un	Ro	IV	OP	St		
12.24	J	40	PI	Sm	VIII	OP	St		
12.33	J	5	Un	Ro	IV	OP	St		
13.91	J	60	Un	Ro	IV	CD	St		
14.00	J	45	Un	Ro	IV	OP	St		
14.31	J	70	Un	Ro	IV	OP	St		

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

F:GEOT 533/9 – 2014

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Project Name		Cross River Rail				Project No.	FG6470			
Site ID / Borehole No.		CRR705				Surface RL	18.71			
Geologist		M.S.				Date	2/11/2017			
						Page	3	of	5	
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 <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other	
14.41	J	30	Un	Ro	IV	CD	St	Gravel and sand infill		
14.59	J	60	Un	Ro	IV	CD	St			
14.63	J	30	Un	Ro	IV	CD	St			
15.03	J	10	Un	Ro	IV	CD	St			
15.16	J	40	Pl	Sm	VIII	OP	St		Sand infill	
15.32	J	40	Un	Ro	IV	CD/OP	St			
15.84	J	20	Un	Ro	IV	OP	St			
15.96	J	10	Un	Ro	IV	OP	St			
16.13	J	5	Un	Ro	IV	OP	St			
16.26	J	5	Un	Ro	IV	OP	St		Clay infill	
16.33	J	10	Pl	Sm	VIII	OP	St		Clay infill	
16.63	J	5	Un	Ro	IV	CD	St			
17.25	J	70	Un	Ro	IV	OP	St			
17.45	J	70	Un	Ro	IV	OP	St			
18.45	J	60	Pl	Sm	VIII	OP	St			
18.58	J	60	Un	Ro	IV	OP	St			
18.68	J	40	Un	Ro	IV	OP	St			
18.85	J	50	Pl	Sm	VIII	OP	St		Clay infill	
19.28	J	10	Un	Ro	IV	OP	Cn			
20.04	J	70	Pl	Ro	VIII	OP	St			
20.10	J	30	Un	Ro	IV	OP	St		Gravel infill	
20.16	J	70	Pl	Sm	VIII	OP	St			
20.40	J	70	Pl	Sm	VIII	OP	St			
20.90	J	5	Pl	Sm	VIII	OP	St			
21.22	J	10	Pl	Sm	VIII	OP	St		Gravel infill	
21.55	J	5	Un	Ro	IV	OP	St			
21.56	J	10	Pl	Sm	VIII	OP	St			
21.86	J	80	Un	Ro	IV	OP	St			
21.95	J	5	Un	Ro	IV	OP	St		Clay infill	
22.00	J	10	Un	Ro	IV	CD	St			
22.11	J	80	Un	Ro	IV	OP	St		Sand infill	

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

F:GEOT 533/9 – 2014

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Site ID / Borehole No.		CRR705				Surface RL		18.71	
Geologist		M.S.				Date		2/11/2017	
						Page		4 of 5	
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 <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other
22.62	J	30	Un	Ro	IV	OP	St		
22.84	J	20	Un	Ro	IV	CD	Cn		
22.88	J	5	Un	Ro	IV	OP	St		
23.00	J	5	Pl	Sm	VIII	OP	Cn		
23.29	J	10	Un	Ro	IV	OP	Cn		
23.31	J	30	Pl	Ro	VIII	OP	St		
23.33	J	45	Pl	Sm	VIII	OP	Cn		
23.44	J	30	Un	Ro	IV	CD	St		
23.61	J	45	Un	Ro	IV	CD	St		
23.66	J	10	Pl	Sm	VIII	OP	St		
23.68	J	40	Un	Ro	IV	OP	St		
23.73	J	30	Un	Ro	IV	OP	St		
23.83	J	10	Un	Ro	IV	CD	St		
23.85	J	10	Un	Ro	IV	CD	St		
23.97	J	10	Un	Ro	IV	OP	St		Gravel infill
24.09	J	5	Pl	Sm	VIII	CD	St		
24.13	J	5	Pl	Sm	VIII	CD	St		
24.16	J	5	Un	Ro	IV	CD	St		
24.28	J	30	Pl	Sm	VIII	OP	St		
24.29	J	60	Un	Ro	IV	OP	Cn		
24.43	J	10	Un	Ro	IV	OP	Cn		
24.53	J	10	Pl	Sm	VIII	OP	Cn		
24.56	J	10	Un	Ro	IV	OP	Cn		
24.75	J	60	Un	Ro	IV	OP	St		
25.20	J	60	Pl	Sm	VIII	OP	St		
25.25	J	70	Stp	Sm	II	OP	St		
25.38	J	60	Un	Sm	V	OP	St		
25.55	J	40	Un	Sm	V	OP	St		
25.83	J	40	Un	Sm	V	OP	St		
25.92	J	30	Un	Sm	V	OP	St		
26.02	J	60	Un	Sm	V	OP	St		

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

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# 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.		CRR705				Surface RL	18.71			
Geologist		M.S.				Date	2/11/2017			
						Page	5	of	5	
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 <sup>1</sup>	Zones <sup>1</sup> SZ / CZ / HFZ / AZ	Other	
26.39	J	20	Un	Ro	IV	OP	St			
26.50	J	70	Un	Ro	IV	OP	St			
26.61	J	10	Un	Ro	IV	OP	St		Quartz band	
26.66	J	10	Stp	Ro	III	OP	St			
26.74	J	30	Un	Sm	V	OP	St		Quartz band	
26.77	J	20	Un	Ro	IV	OP	St		Quartz band	
26.83	J	30	Un	Ro	IV	OP	St		Quartz band	
26.88	J	5	Stp	Ro	III	OP	St			
28.70	J	10	Un	Ro	IV	OP	Cn		Quartz band	
29.01	J	40	Un	Ro	IV	OP	St		Quartz band	
29.82	J	10	Un	Ro	IV	OP	St		Quartz band	
29.93	J	30	Pl	Sm	VIII	OP	Cn			
29.97	J	40	Stp	Sm	II	OP	Cn			
30.08	J	45	Un	Ro	IV	OP	St			
30.86	J	10	Un	Ro	IV	OP	Cn			
31.70	J	30	Un	Ro	IV	OP	St			
33.59	J	40	Stp	Sm	II	OP	St			
34.01	J	10	Pl	Sm	VIII	OP	Cn			
34.77	J	10	Un	Ro	IV	OP	Cn			
35.11	J	5	Un	Ro	IV	CD	St		Quartz band	
35.36	J	10	Un	Ro	IV	OP	Cn			
36.17	J	30	Un	Ro	IV	OP	St			
36.73	J	60	Un	Ro	IV	OP	St			
36.91	J	40	Un	Ro	IV	OP	St			
37.03	J	20	Un	Ro	IV	OP	St		Quartz band	

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

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