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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR707**

Sheet 1 of 5

REFERENCE No **H12933**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation		
LOCATION	Anglesy Street	COORDINATES 503435.2 E; 6960068.0 N	
PROJECT No	FG6470	SURFACE RL 18.76m	PLUNGE 90°
			DATE STARTED 03/10/2017
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 09/10/2017
			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
0 - 1.5				A	Gravelly SAND (Fill) Grey, moist, poorly compacted. Medium to coarse grained. Fine to medium grained sub angular gravel. With low plasticity fines.	(SP)					5, 10, 24 N=34	SPT	
1.5 - 3.0	16.96			B	Sandy CLAY (Residual) Pale grey and orange brown, moist, hard. Medium plasticity. Fine grained sand. Trace silt.	(CI)					14, 15, 23 N=38	SPT	
3.0 - 4.5				C							16, 27, 30/120mm	SPT	
4.5 - 5.5				D							18, 24, 25 N=49	SPT	
5.5 - 6.5	13.46			E	TUFF (Rif) HW: Recovered as Sandy CLAY. Pale grey and orange brown, medium gravel sized clasts in a fine grained matrix, very low strength.	HW					14, 30/120mm	SPT	
6.5 - 7.5			(51)	F							30, 30/70mm LL=48% PI= 30% MC=12.6% LS= 12% <75µm= 59%	SPT	
7.5 - 8.0													
8.0 - 8.79	10.76				TUFF (Rif) MW: Pale grey and orange brown, massive, fine grained, medium strength. Medium gravel size clasts in a fine grained matrix.						Is(50)=0.13 MPa Is(50)=0.21 MPa	D (7.89m) A (7.91m)	
8.79 - 9.0			100 (76)		-Js: 30° (2-5/m), Pl/Ro, FeSt, Cly Vr -Js: 0°-10° (2-5/m), Pl-Un/Ro, FeSt						Is(50)=0.75 MPa Is(50)=0.57 MPa	D (8.77m) A (8.79m)	
9.0 - 10.0	8.76												

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REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff.

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**GEOTECHNICAL
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FOR GEOTECHNICAL TERMS AND
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BOREHOLE No **CRR707**

Sheet 2 of 5

REFERENCE No **H12933**

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation

LOCATION Anglesey Street COORDINATES 503435.2 E; 6960068.0 N

PROJECT No FG6470 SURFACE RL 18.76m PLUNGE 90° DATE STARTED 03/10/2017 GRID DATUM MGA94

JOB No _____ HEIGHT DATUM AHD BEARING ° DATE COMPLETED 09/10/2017 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
11	7.51					TUFF (Rif) MW: Cont'd.	MW			C M	Is(50)=0.86 MPa Is(50)=0.60 MPa	D (10.50m) A (10.52m)	
12	6.26		100 (98)			TUFF (Rif) SW: Pale grey, pale purple grey and orange brown, massive, fine grained, medium strength. Fine to medium gravel size clasts within clay matrix. -Js: 20°-40° (1/m), Pl/Ro, TI-OP, Cn or FeSt.	SW			M	Is(50)=0.72 MPa Is(50)=0.39 MPa	D (11.85m) A (11.87m)	
13						TUFF (Rif) FR: Green grey and grey, fine grained, massive, generally medium to high strength. Slightly altered. Fine to medium gravel size clasts within a clay matrix. -Js: 20°-40° (1-2/m), Pl/Sm-Ro, Cn or some Cly Vr	FR			C M	Is(50)=0.76 MPa Is(50)=0.81 MPa	D (12.90m) A (12.92m)	
14										M W	Is(50)=0.12 MPa Is(50)=0.29 MPa	D (14.40m) A (14.42m)	
15			100 (100)							M VW	Is(50)=0.05 MPa Is(50)=0.04 MPa	D (15.70m) A (15.72m)	
16										W	Is(50)=0.10 MPa Is(50)=0.10 MPa	D (17.32m) A (17.34m)	
17										W	Is(50)=0.39 MPa Is(50)=0.96 MPa	D (18.65m) A (18.66m)	
18			100 (97)							W			
19										W			
19	-1.24									W			

Continued on next sheet

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff.

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BOREHOLE No **CRR707**

Sheet 3 of 5

REFERENCE No **H12933**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation				
LOCATION	Angelsey Street		COORDINATES 503435.2 E; 6960068.0 N		
PROJECT No	FG6470	SURFACE RL	18.76m	PLUNGE	90°
				DATE STARTED	03/10/2017
				GRID DATUM	MGA94
JOB No		HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	09/10/2017
				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
21			100 (98)		TUFF (Rif) FR: Cont'd.					Is(50)=0.87 MPa Is(50)=0.90 MPa	D (20.56m) A (20.57m)		
22										Is(50)=1.40 MPa Is(50)=0.20 MPa	D (22.12m) A (22.14m)		
23										Is(50)=1.40 MPa Is(50)=0.21 MPa	D (23.60m) A (23.62m)		
24			100 (97)										
25						FR		MH	M	Is(50)=0.47 MPa Is(50)=1.10 MPa	D (25.34m) A (25.36m)		
26													
27			100 (100)							Is(50)=0.83 MPa Is(50)=0.92 MPa	D (27.12m) A (27.14m)		
28													
29										Is(50)=0.33 MPa Is(50)=2.10 MPa	D (28.65m) A (28.66m)		
	-11.24												

Continued on next sheet

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff.

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GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No CRR707

Sheet 4 of 5

REFERENCE No H12933

PROJECT Cross River Rail CRR2017 - Additional Geotechnical Investigation

LOCATION Anglesey Street COORDINATES 503435.2 E; 6960068.0 N

PROJECT No FG6470 SURFACE RL 18.76m PLUNGE 90° DATE STARTED 03/10/2017 GRID DATUM MGA94

JOB No HEIGHT DATUM AHD BEARING ° DATE COMPLETED 09/10/2017 DRILLER Hinterland

Table with columns: 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. Includes data for TUFF (Rif) FR: Cont'd. with various strength and test results.

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff.

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**GEOTECHNICAL
BOREHOLE LOG**

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

BOREHOLE No **CRR707**

Sheet 5 of 5

REFERENCE No **H12933**

PROJECT	Cross River Rail CRR2017 - Additional Geotechnical Investigation				
LOCATION	Anglesey Street	COORDINATES 503435.2 E; 6960068.0 N			
PROJECT No	FG6470	SURFACE RL	18.76m	PLUNGE	90°
		DATE STARTED	03/10/2017	GRID DATUM	MGA94
JOB No		HEIGHT DATUM	AHD	BEARING	°
		DATE COMPLETED	09/10/2017	DRILLER	Hinterland

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
								INTACT STRENGTH											DEFECT SPACING												
								EH	VH	H	M	L	VL	EL	EC	VC	C	M	W	VW	EW	EH	VH	H	M	L	VL	EL	EC		
-21.45			100 (100)		TUFF (Rif) FR: Cont'd.		FR	[Strength Data]											[Defect Spacing Data]											40.21m-40.35m: Siltstone bed	
-22.13					SANDSTONE (Rip) FR: Grey, medium to coarse grained, laminated, mainly medium strength. Lamination at 5°-25°		FR	[Strength Data]											[Defect Spacing Data]											Is(50)=0.16 MPa Is(50)=0.73 MPa	D (40.48m) A (40.55m)
41					CONGLOMERATE (Rip) FR: Grey and pale grey, fine to coarse grained gravel clasts within a fine grained matrix, generally high to very high strength.		FR	[Strength Data]											[Defect Spacing Data]											Is(50)=0.99 MPa Is(50)=1.60 MPa	D (41.88m) A (41.89m)
-24.04			100		Borehole completed at 42.80m																										

REMARKS: Rip - Aspley Formation. Rif - Brisbane Tuff.	LOGGED BY	REVIEWED BY
	MH	S. Foley

Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	09/10/2017
Borehole No.	CRR707	Reference No.	H12933
Location	Anglesey Street	Start Depth (m)	6.87
Submitted By	M. de Gee	Finish Depth (m)	42.80



CORE PHOTO LOG
 DEPARTMENT OF TRANSPORT AND MAIN ROADS
 GEOTECHNICAL SECTION



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	09/10/2017
Borehole No.	CRR707	Reference No.	H12933
Location	Anglesey Street	Start Depth (m)	6.87
Submitted By	M. de Gee	Finish Depth (m)	42.80



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	09/10/2017
Borehole No.	CRR707	Reference No.	H12933
Location	Anglesey Street	Start Depth (m)	6.87
Submitted By	M. de Gee	Finish Depth (m)	42.80



Project Name	Cross River Rail CRR2017 – Geotechnical Investigation		
Project No.	FG6470	Date	09/10/2017
Borehole No.	CRR707	Reference No.	H12933
Location	Anglesey Street	Start Depth (m)	6.87
Submitted By	M. de Gee	Finish Depth (m)	42.80



Detailed Discontinuity Description Log



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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR707				Surface RL		18.81	
Geologist		M.H.				Date		3/10/2017	
						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 / PI	Roughness Ro / Sm / SI	Roughness Class I to IX	Aperture CD / OP / FL / TI	Infilling Cn / St / Vr / Ct ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
6.87	130mm Extremely weathered residual soil								
7.00	J	25	PI	Ro	VII	CD	Vr		Cly
7.37	J	10	Un	Ro	IV	OP	St		Fe
7.46	J	15	Un	Ro	IV	OP	St		Fe
4.53	J	10	Un	Ro	IV	OP	St		Fe
7.59	J	10	PI	Ro	VII	CD	St		Fe
7.62	J	5	Un	Ro	IV	CD	St		Fe
7.71	J	25	PI	Sm	VIII	CD	Vr		Cly
7.80	J	10	PI	Ro	VII	CD	St		Fe
7.87	J	10	PI	Ro	VII	CD	St		Fe
7.94	J	20	PI	Ro	VII	CD	St		Fe
8.07	J	10	PI	Ro	VII	CD	St		Fe
8.15	J	10	PI	Sm	VIII	CD	Vr		Cly, 20mm
8.16	J	45	PI	Sm	VIII	OP	Ct		Cly 3mm
8.26	J	20	PI	Sm	VIII	OP	Ct		Cly, 10mm
8.35	J	30	PI	Sm	VIII	OP	St		Fe
8.57	J	0	PI	Sm	VIII	CD	St		Cly, 10mm
8.60	J	30	PI	Sm	VIII	OP	Ct		Fe
8.90	J	5	PI	Ro	VII	CD	St		Fe
8.98	J	25	Un	Ro	IV	CD	St		Fe
9.15	J	15	PI	Ro	VII	OP	St		Fe
9.28	J	10	PI	Sm	VIII	OP	Cn		
9.36	J	5	PI	Ro	VII	OP	Vr		Cly
9.59	J	10	Un	Sm	V	OP	Ct		Cly, 30mm
9.74	J	30	PI	Ro	VII	OP	St		Fe
9.84	J	5	PI	Ro	VII	OP	St		Fe
9.85	J	10	PI	Ro	VII	OP	St		Fe
9.87	J	10	PI	Sm	VIII	OP	St		Fe
9.97	J	10	PI	Ro	VII	CD	St		Fe
9.99	J	10	PI	Sm	VIII	CD	St		Fe
10.11	J	10	PI	Sm	VIII	CD	St		Fe

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

F:GEOT 533/9 – 2014

Detailed Discontinuity Description Log



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Project Name		Cross River Rail				Project No.		FG6470	
Site ID / Borehole No.		CRR707				Surface RL		18.81	
Geologist		M.H.				Date		3/10/2017	
						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 / 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
10.13	J	10	Pl	Sm	VIII	OP	St		Fe
10.37	J	10	Pl	Sm	VIII	OP	St		Fe
10.38	J	10	Pl	Sm	VIII	OP	St		Fe
10.45	J	10	Pl	Sm	VIII	OP	St		Fe
10.47	J	10	Pl	Ro	VII	OP	St		Fe
10.48	J	5	Un	Ro	IV	CD	St		Fe
10.62	J	5	Un	Ro	IV	CD	St		Fe
10.71	J	20	Pl	Ro	VII	OP	St		Fe
10.79	J	30	Pl	Ro	VII	OP	St		Fe
10.81	J	90	Un	Ro	IV	OP	St (Fe)	Start 10.61 end 10.95	
11.17	J	35	Pl	Ro	VII	OP	St		Fe
11.50	J	55	Pl	TI		TI	Ct	Fe, silica, 30mm	
11.75	J	10	Pl	Ro	VII		St		
12.27	J	50	Pl	Sl	IX	CD	Vr		Cly
12.37	J	60	Un	Sm	V	CD	Vr		Cly
12.44	J	30	Pl	Ro	VII	OP	St		Fe
12.79	J	50	Pl	Sl	IX	OP	Vr		Cly
12.98	J	20	Un	Sm	V	CD	Vr		Cly
13.00	J	40	Un	Sm	V	CD	Vr		Cly
13.25	J	60	Pl	Sl	IX	CD	Vr		Cly
13.42	J	30	Un	Sm	V	OP	Vr		Cly
13.46	J	60	Pl	Ro	VII	OP	Vr		Cly
13.91	J	30	Pl	Sm	VIII	CD	Vr		Cly
14.55	J	45	St	Ro	II	OP	Vr		Cly
14.58	J	30	Pl	Sm	VIII	OP	Vr		Cly
15.30	J	75	Un			TI			
16.05	J	60	Pl			TI			
16.92	J	45	Pl	Sl	IX	OP	Vr		Cly
17.65	J	45	St	IR	I	CD	Cn		
18.83	J	10	Pl	Ro	VII	OP	Cn		
18.89	J	45	Un	Ro	IV	CD	Cn		

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.		CRR707				Surface RL		18.81	
Geologist		M.H.				Date		3/10/2017	
						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 ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
18.92	J	40	Un	Sm	V	OP	Vr		Cly
19.88	J	60	Un	Ro	IV	OP	Cn		
20.01	J	10	Pl	Ro	VII	OP	Cn		
20.19	J	30	Pl	Ro	VII	CD	Cn		
20.29	J	10	Pl	Ro	VII	CD	Cn		
20.32	J	40	Pl	Sm	VIII	OP	Ct		Cly 10mm
20.49	J	30	St	IR	I	OP	Cn		
21.60	J	60	Pl	Sm	VIII	OP	Vr/Ct		Cly 2mm
21.75	J	75	Un	Sm	V	CD	Cn		
21.94	J	60	Pl	Sm	VIII	OP	Vr		Cly
22.80	J	30	Pl	Ro	VII	OP	Cn		
22.97	J	10	Pl	Ro	VII	CD	Cn		
23.37	J	60	St	Sm	II	OP	Cn		
23.97	Js	5	Un	Ro	IV	CD	Cn		x4 to 23.99
24.10	J	40	Un	Ro	IV	OP	Cn		
24.25	J	90	Un	Ro	IV	OP	Cn	Start 23.97 end 24.4	
25.30	J	20	Pl	Ro	VII	OP	Cn		
25.89	J	30	Pl	Sm	VIII	OP	Vr		Cly
25.95	J	70	Pl	Ro	VII	OP	Cn		
26.20	J	55	Un	Ro	IV	CD	Cn		
26.42	J	10	Pl	Sm	VIII	CD	Cn		
28.38	J	10	Pl	Sm	VIII	CD	Cn		
28.60	J	10	Pl	Sm	VIII	OP	Cn		
29.19	J	35	Un	Sm	V	CD	Cn		
29.65	J	30	Pl	Sm	VIII	CD	Cn		
29.98	J	10	Un	Ro	IV	OP	Cn		
30.38	J	90	Un	Ro	IV	OP	Vr		Cly
30.48	J	50	Pl	Sm	VIII	OP	Cn		
30.69	J	45	Pl	Sm	VIII	CD	Cn		
30.90	J	60	Un	Sm	V	CD	Cn		
31.00	J	45	Un			TI			

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.		CRR707				Surface RL		18.81	
Geologist		M.H.				Date		3/10/2017	
						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 ¹	Zones ¹ SZ / CZ / HFZ / AZ	Other
31.42	J	45	Pl	Sm	VIII	TI	Cn		
31.59	J	5	Pl	Sm	VIII	CD	Cn		
31.75	J	30	Un	Sm	V	OP	Cn		
31.85	J	45	Pl	Sm	VIII	CD	Vr		Cly
31.91	J	30	Un	Sm	V	OP	Cn		
32.02	J	35	Un	Sm	V	OP	Cn		
32.57	J	10	Pl	Sm	VIII	CD	Cn		
32.84	J	60	St	Sm	II	CD	Vr		
33.15	J	90	Pl			TI	Cn		
33.61	J	30	Pl	Sm	VIII	CD	Vr		Cly
33.65	J	10	Pl	Sm	VIII	OP	Vr		Cly
34.18	J	35	Un	Sm	V	OP	Vr		Cly
34.77	J	15	Un	Sm	V	OP	Cn		
35.18	J	70	Pl	Sm	VIII	OP	Cn/Vr		Cly
36.53	J	10	Un	Sm	V	OP	Cn		
36.61	J	35	Pl	Sm	VIII	CD	Cn		
36.72	J	40	Un	Sm	V	OP	Vr		Cly
36.95	J	30	Pl	Sm	VIII	OP	Vr		Cly
37.60	J	35	Pl	Sm	VIII	OP	Vr		Cly
38.16	J	50	Pl	Sm	VIII	CD	Vr		Cly
38.35	J	35	Pl	Sm	VIII	OP	Vr/St		Cly
39.00	J	40	Un	Sm	V	CD	Vr		Cly
39.05	J	50	Un	Sm	V	CD	Cn		
39.25	J	65	Un	Sm	V	OP	Vr	BZ	Ca 30mm
39.75	J	50	Un	Sm	V	OP	Ct		Ca 30mm
40.24	BP	20	Pl	Sm	VIII	OP	Cn		
40.28	BP	20	Pl	Sm	VIII	OP	Cn		
40.42	BP	20	Pl	Sm	VIII	OP	Cn		
40.45	J	70	Un	Ro	IV	OP	Vr		Cly
40.61	BP	20	Pl	Sm	VIII	CD	Cn		
40.81	BP	15	Pl	Sm	VIII	OP	Cn		

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

F:GEOT 533/9 – 2014

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.		CRR707				Surface RL		18.81		
Geologist		M.H.				Date		3/10/2017		
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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 /	
40.88	BP	10	Un	Sm	V	CD	Cn			

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

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