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# **Queensland** Government

#### **GEOTECHNICAL BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND

**CRR921** BOREHOLE No

FINAL 27/09/2018

Sheet 1 of 1

H13125

REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Cross River Rail (CRR) Project - Additional Geotechnical Investigation PROJECT COORDINATES 503278.8 E; 6963890.1 N O'Connell Terrace LOCATION FG6470 SURFACE RL 16.14m PLUNGE 90° DATE STARTED 28/08/2018 GRID DATUM MGA94 PROJECT No DATE COMPLETED 28/08/2018 DRILLER Geodrill JOB No HEIGHT DATUM AHD BEARING S RQD USCS WEATHERING ADDITIONAL DATA INTACT DEFECT SPACING SAMPLES TESTS Ê LITHOLOGY AND TEST RESULTS STRENGTH RΙ DEPTH SAMP MATERIAL DESCRIPTION CORE REC % 15.99 ASPHALT COBBLES (Fill) 15.74 Grey, pale red, orange brown, dry, dense. Angular to subangular fine to coarse sized cobbles. Cobbles are (CH) mainly high strength Tuff. Sandy CLAY (Fill) 14.84 (81) Pale brown and pale grey, moist, HW 14.67 stiff to very stiff. High plasticity. Fine Is(50)=0.65 MPa Is(50)=0.65 MPa D (1.65m) to coarse grained sand. Trace fine, A (1.67m) ub-angualr gravel. TUFF (Rif) HW: Pale grey and pale red, stained М pale orange, fine grained, massive, fine to medium gravel sized clasts Is(50)=0.90 MPa D (2.65m) MW throughout. Low strength. Is(50)=1.40 MPa A (2.66m) TUFF (Rif) TUFF (RIT)
MW: Pale grey and pale red, stained UCS=40.70 MPa (3.17m)E=19.8 GPa v= 0.134 ls(50)=0.67 MPa pale orange, fine grained, massive, D (3.46m) fine to medium gravel sized clasts A (3.47m) \_ Is(50)=4.00 MPa throughout. Medium to high 12.19 strength. Is(50)=5.10 MPa D (3.85m) Is(50)=4.90 MPa A (3.87m) TUFF (Rif) SW: Pale grey and pale red, stained pale orange, fine grained, massive, fine to medium gravel sized clasts throughout, high to very strength. Is(50)=6.70 MPa D (4.85m) 11.06 A (4.87m) TUFF (Rif) 100 (85) MW: Pale grey and pale red, stained Is(50)=2.90 MPa D (5.50m) pale orange, fine grained, massive, Is(50)=4.80 MPa A (5.52m) fine to medium gravel sized clasts throughout, high to very high strength. Is(50)=3.00 MPa Is(50)=5.40 MPa UCS=87.30 MPa D (6.65m) MW A (6.67m) (6.67m) E=26.6 GPa v= 0.09 Is(50)=1.70 MPa D (7.05m) A (7.06m) Is(50)=3.20 MPa Is(50)=1.20 MPa Is(50)=0.47 MPa D (7.70m) A (7.71m) 7.68 100 Borehole completed at 8.46m REMARKS: Rif-Brisbane Tuff **LOGGED BY REVIEWED BY** ND S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

## **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 - Stage 2				Project No.FG6470			
Site ID / Borehole No.			`	•		Surface RL16.14			
Geologist		Nick Dewar				Date 28/08/2018			
						Page	1	of	2
Traverse	Туре	Dip ° / Dip	Planarity	Roughness	Roughness		Infilling	Zones <sup>1</sup>	Other
Chainage;		Direction °;			Class				
or	LP/	or				CD/	Cn /	SZ /	
Down hole	BP /	Angle ° from	Stp /	Ro /	I to IX	OP /	St /	CZ /	
depth	FP/	horizontal	Un /	Sm /		FL/	Vr/	HFZ /	
(rock core)	J etc.	(rock core)	PI	SI		TI	Ct 1	AZ	
1.32	J	0	Un	Ro	IV	OP	Vr		Cly
1.33	J	5	Un	Ro	IV	OP	Cn		
1.35	J	5	Un	Ro	IV	OP	Cn		
1.47	J	20	Un	Ro	IV	FL	Ct		Cly
1.50	J	10	Un	Ro	IV	OP	Vr		Cly
1.63	J	20	Un	Ro	IV	OP	Cn		
1.75	J	10	Un	Ro	IV	CD	St		Fe
1.81	J	20	Un	Ro	IV	CD	St		Fe
2.10	J	10	Un	Ro	IV	CD	St		Fe
2.28	J	0	Un	Ro	IV	OP	St		Fe
2.55	J	10	Un	Ro	IV	OP	St		Fe
2.60	J	0	Un	Ro	IV	OP	St		Fe
2.68	J	5	Pl	Ro	VII	OP	Cn		
2.97	J	0	Un	Ro	IV	OP	St		Fe
3.10	J	0	Un	Ro	IV	OP	St		Fe
3.15	J	20	Un	Ro	IV	OP	St		Fe
3.41	J	5	Un	Ro	IV	OP	St		Fe
3.48	J	5	PI	Ro	Vii	OP	St		Fe
3.55	J	10	Un	Ro	IV	OP	St		Fe
3.74	J	20	Un	Ro	IV	OP	St		Fe
3.79	J	0	Un	Ro	IV	CD/TI	St		Fe
3.92	J	5	Un	Ro	IV	CD/TI	St		Fe
4.25	J	20	Un	Ro	IV	OP	St		Fe
4.54	J	20	Un	Ro	IV	OP	St		Fe
4.59	J	0	Un	Ro	IV	OP	St		Fe
5.02	J	70	PI	Ro	VII	OP	Cn		Fe
5.18	J	5	PI	Ro	VII	OP	St		Fe
5.19	J	5	Un	Ro	IV	OP	St		Fe
5.21	J	5	PI	Ro	VII	OP	St		Fe
5.27	J	10	Un	Ro	IV	OP	St		Fe
5.80	J	5	Un	Ro	IV	OP	St		Fe

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 - Stage 2				Project No FG6470			
Site ID / Borehole No. Geologist		CRR921				Surface RL 16.14			
		Nick Dewar	r			Date 28/08/2018			
						Page	2	of	
5.80	J	5	Un	Ro	IV	OP	St		Fe
5.98	J	5	Un	Ro	IV	OP	St		Fe
6.19	SM	10	Un	Ro	IV	OP/FL	Ct		Cly
6.24	J	20	Un	Ro	IV	OP	Vr		Cly
6.26	J	10	Un	Ro	IV	OP	Vr		Cly
6.30	J	0	Un	Ro	IV	OP	St		Fe
6.54	J	10	Un	Ro	IV	OP	St		Fe
6.76	J	5	Un	Ro	IV	OP	St		Fe
7.19	J	5	Stp	Ro	I	OP	St		Fe
7.53	J	5	Un	Ro	IV	OP	St		Fe
7.63	J	15	Un	Ro	IV	OP	St		Fe
8.30	J	70	Un	Ro	IV	OP	St		Fe
						+			
						+			
						+			

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

F:GEOT 533/9 - 2014

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



Project Name	Cross River Rail CRR 2018 – Geotechnical Investigation					
Project No.	FG6470	Date	28/08/2018			
Borehole No.	CRR921	Reference No.	H13125			
Location	O'Connell Terrace	Start Depth (m)	1.3			
Submitted By	J. Armstrong	Finish Depth (m)	8.46			



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