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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **CRR909**

Sheet 1 of 3

REFERENCE No **H13100**

PROJECT	Cross River Rail (CRR) Project - Additional Geotechnical Investigation		
LOCATION	Clapham Yard	COORDINATES 501319.3 E; 6954386.4 N	
PROJECT No	FG6470	SURFACE RL 8.76m	PLUNGE 90°
			DATE STARTED 25/06/2018
			GRID DATUM MGA94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 26/06/2018
			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
0	7.96					COBBLES with Clay trace Sand (Fill) Brown grey, dry, dense. Cobbles 20-70mm, angular ballast. Clay fraction is medium to high plasticity. Sand fraction is fine to coarse.							
1					A	CLAY with Sand (Alluvium) Grey mottled pale red and brown, moist, firm. Medium plasticity.						BULK	
2					B	Interbedded Sandy Clay and Clay with sand layers. Fine to medium grained sand.						3, 3, 4 N=7 SPT	
3					C	from 2.5m: stiff.	(C)					7, 9, 7 N=16 SPT	
4					D	from 3.5m: very stiff to hard.					3.50m-3.95m: CU Triaxial Test	MC=24.1% DD= 1.63 t/m <sup>3</sup> WD= 2.02 t/m <sup>3</sup> U50	
5					E	from 4.5m: pale grey mottled pale red and orange. Trace fine grained sand.						5, 13, 13 N=26 SPT LL=40% PI= 22% MC=25.3% LS= 8% <75µm= 63%	
6	3.26				F	Sandy CLAY (Alluvium) Grey to pale brown, moist, very stiff to hard. Medium plasticity. Fine grained sand.						9, 19, 19 N=38 SPT	
7					G							8, 7, 10 N=17 SPT	
8							CI						
9					H							5, 8, 10 N=18 SPT LL=36% PI= 16% MC=26.1% LS= 11% <75µm= 46%	
10	-1.24												

Continued on next sheet

REMARKS: Rip - Aspley Formation

LOGGED BY	REVIEWED BY
ND	S. Foley





# 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.		CRR909				Surface RL		8.76	
Geologist		N.DEWAR				Date		27/06/2018	
						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 / 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
17.06	BP	5°	UN	SM		OP	CN		
17.07	BP	5°	PI	SM		OP	CN		
17.13	BP	10°	UN	SM		OP	CN		
17.14	J	70°	PI	SM		OP	CN		
17.25	BP	20°	UN	SM		OP	CN		
17.36	BP	0°	PI	Ro		OP	CN		
17.43	J	0-40°	UN	SM		OP	CN		
17.46	-	-	-	-		-	-		
17.81	J	20°	UN	Ro(coarse sandstone)		OP	CN		
18.08	BP	10°	UN	SM		OP	Vr		SILT/CLAY
18.28	J	25°	UN	SM		OP	Vr		-
18.54	BP	5°	PI	SM		OP	Vr		COAL/CLAY
18.62	BP	0°	PI	SM		OP	Vr		CLAY
18.66	J	50°	UN	SM		OP	Ct		COAL(2mm)
18.82	J	0°	PI	Ro(coarse sandstone)		OP	CN		
19.09	BP	0°	PI	SM		OP	CN		
19.33	BP	10°	PI	SM		OP	CN		
19.34	J	40°							
19.45	BP	10°	PI	SM		OP	Vr		CLAY
19.34-19.54	J	80-90°	UN	SM		OP	CN		
19.54	J	5°	UN	Ro(coarse sandstone)		OP	CN		
19.70	J	10°	PI	-		OP	CN		
19.94	J	30°	UN	SM		OP	Vr		CLAY
20.55	J	5°	UN	Ro(coarse sandstone)		OP	CN		
20.86	J	10°	PI	-		OP	CN		
21.09	J	20°	UN			CD			
21.21	BP	0°	PI	SM		OP	CN		
21.50	J	50°	UN	Ro(coarse sandstone)		OP	CN		
21.53	J	10°	UN	-		-	-		
21.55	J	10°	UN	-		OP	Vr		CLAY
21.57	J	30°	UN	-		OP	CN		

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

F:GEOT 533/9 – 2014



<b>Project Name</b>	<b>Cross River Rail CRR 2018 – Geotechnical Investigation</b>		
<b>Project No.</b>	FG6470	<b>Date</b>	25/06/2018
<b>Borehole No.</b>	CRR909	<b>Reference No.</b>	H13100
<b>Location</b>	Clapham Yard	<b>Start Depth (m)</b>	15.0
<b>Submitted By</b>	J. Armstrong	<b>Finish Depth (m)</b>	21.6

