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# BOREHOLE LOG

**CLIENT:** AECOM Australia Pty Ltd  
**PROJECT:** Cross River Rail - Phase 1  
**LOCATION:** Tamar Street, Annerley

**SURFACE LEVEL:** 21.5 m AHD  
**EASTING:** 502858  
**NORTHING:** 6957694  
**DIP/AZIMUTH:** -90°/-

**BORE No:** CRR107  
**PROJECT No:** 74321.00  
**DATE:** 21 April 2010  
**SHEET 1 OF 3**

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities		Sampling & In Situ Testing			
			EW	HW	MW	SW	FS		FR	Ex. Low	Very Low	Low	Medium			High	Very High	Ex. High	B - Bedding	J - Joint	Type
	0.1	FILLING - loose, brown silty sand filling, sand fraction is fine to coarse grained, moist																			
	0.5	FILLING - loose to medium dense, grey-brown sandy gravel filling, fine to coarse grained sand and gravel, with some silt, moist																			
	0.9	SILTY CLAY - very stiff to hard, grey and orange brown mottled, medium to high plasticity silty clay, with trace fine to medium grained sand, moist (residual)																			
	1.0	SANDSTONE - very low strength, highly weathered orange-brown medium to coarse grained sandstone																			
	2.5	- 200mm low strength, slightly weathered, fine to medium sandstone interbed, bedding at 20°															2.5m: frg to 2.65m, di				
	3.0	CONGLOMERATE - extremely low to very low strength, moderately to slightly weathered, slightly fractured, orange-brown and grey medium grained conglomerate, subhorizontal clast orientation															2.85m: B, sh, un, fi				
	3.14	- becoming moderately weathered, orange brown and grey banded, fine to coarse grained sandstone interbeds to 60mm at 60-100mm spacing to 4.2m															3.14m: J: 30°, un, ro				
	3.18	- becoming slightly weathered, grey and orange-brown banded bedding at 15°																C	100	21	
	4.2	- bedding subhorizontal CORE LOSS															4.2m: CORE LOSS: 1000mm				
	4.2																	C	66	8	

**RIG:** MD300      **DRILLER:** Taberner      **LOGGED:** MAH      **CASING:** HW to 2.5m  
**TYPE OF BORING:** Auger 0.00-2.50m, NMLC core 2.50-10.00m  
**WATER OBSERVATIONS:** No free groundwater observed whilst augering  
**REMARKS:**

SAMPLING & IN SITU TESTING LEGEND			
A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U	Tube sample (x mm dia.)	PL	Point load strength Is(50) MPa
W	Water sample	V	Shear Vane (kPa)
C	Core drilling	▷	Water seep      ☹ Water level

CHECKED
Initials: <i>CB</i>
Date: 24/01/10



# BOREHOLE LOG

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**BORE No:** CRR107  
**PROJECT No:** 74321.00  
**DATE:** 21 April 2010  
**SHEET 2 OF 3**

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)	Discontinuities			Sampling & In Situ Testing					
			EW	HW	MW	SW	FS		FR	Ex Low	Very Low	Low	Medium			High	Very High	Ex High	B - Bedding	J - Joint	S - Shear	D - Drill Break	Type	Core Rec. %
		CORE LOSS (continued)	X						X															
16	5.2	CONGLOMERATE- sporadic sandstone interbeds to 50mm at 100-300mm spacings to 6.0m becoming coarse grained conglomerate becoming fine to medium grained conglomerate						[Conglomerate Pattern]								5.2m: frg to 5.28, di 5.4m: frg to 5.54m, di								
6	6.05	SANDSTONE - extremely low to very low strength, slightly weathered, slightly fractured, grey fine to medium grained sandstone, bedding at 10° 80mm extremely low strength, fine grained conglomerate interbed becoming fresh, grey-brown fine grained sandstone, bedding at subhorizontal to 10°, siltstone laminae to 5mm at 10-50mm spacings to 7.00m, sporadic laminae of coal and lignite to 7.20m						[Sandstone Pattern]								6.07m: J, 20°, un, sm 6.15m: B: 10°, pl, sm 6.24m: frg to 6.33m, di 6.25m: B: 10°, pl, sm 6.56m: B: sh, pl, sm	C	66	8					
14	7.2	CORE LOSS	X						X							7.2m: CORE LOSS: 600mm								
8	7.8	GRAVEL - grey medium to coarse gravel, potential fall-in from conglomerate unit at 3.00-6.00m 40mm extremely low strength, highly to moderately weathered grey siltstone interbed						[Gravel Pattern]								7.8m: frg to 8.16m, di								
13	8.16	SILTSTONE - extremely low strength, moderately weathered, slightly fractured, grey and orange-brown mottled siltstone, bedding subhorizontal to 10°						[Siltstone Pattern]								8.16m: B: 10°, un, sm 8.24m: B: 10°, pl, sm 8.35m: J: 10°, pl, ro, lim 8.59m: B, sh, pl, ro 8.64m: J: 60°, pl, h, lim 8.7m: B: 10°, pl, ro, lim	C	66	0					
9	9.0	CORE LOSS	X						X							9m: CORE LOSS: 500mm								
12	9.5	GRAVEL - grey fine gravel, grading to medium to coarse at 9.70m, potential fall-in from conglomerate unit at 3.00-6.00m						[Gravel Pattern]									C	50	0					
	9.95																							

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W	Water sample	V	Shear Vane (kPa)
C	Core drilling	>	Water seep
		≠	Water level

CHECKED

Initials: *MS*

Date: 24/6/10



# BOREHOLE LOG

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**SHEET 3 OF 3**

RL	Depth (m)	Description of Strata	Degree of Weathering					Graphic Log	Rock Strength					Water	Fracture Spacing (m)				Discontinuities		Sampling & In Situ Testing								
			EW	HW	MW	SW	FR		Ex Low	Very Low	Low	Medium	High		Very High	Ext High	0.01	0.05	0.10	0.50	1.00	B - Bedding	J - Joint	S - Shear	D - Drill Break	Type	Core Rec. %	RQD %	Test Results & Comments
	10.0	SILTSTONE - extremely low strength, highly to moderately weathered, fractured, grey siltstone Bore discontinued at 10.0m																											
	11																												
	11																												
	10																												
	12																												
	8																												
	13																												
	8																												
	14																												
	7																												

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C	Core drilling	D	Water seep                                  ≠ Water level

CHECKED
Initials: <i>MR</i>
Date: <i>24/4/10</i>





