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# BOREHOLE LOG

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

**SURFACE LEVEL:** 22 m AHD  
**EASTING:** 502833  
**NORTHING:** 6957921  
**DIP/AZIMUTH:** -90°/--

**BORE No:** CRR105  
**PROJECT No:** 74321.00  
**DATE:** 23 April 2010  
**SHEET 1 OF 4**

Depth (m)	Description of Strata	Degree of Weathering						Graphic Log	Rock Strength						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	Water	B - Bedding	J - Joint	Type	Core Rec. %
0.1	ASPHALTIC CONCRETE														0.05						
0.3	FILLING - moderately compacted grey sandy gravel filling, medium to coarse sand and fine to coarse gravel fractions, with some silt, moist																				
	SILTY CLAY - very stiff, grey and orange-brown mottled, high plasticity silty clay, with trace of fine sand, moist (residual tuff)																	S			9, 15, 15 N = 30
1.3	SANDY CLAY - hard, orange-brown, low to medium plasticity, sandy clay, fine to medium sand fraction, with some silt (residual sandstone)																				
1.7	SANDSTONE - extremely low to very low strength, highly weathered, orange-brown fine grained sandstone, with sporadic coal laminae																				
2.0	TUFF - extremely low to very low strength, light grey tuff, highly altered, slightly reworked																	S			11, 30/140mm
	- becoming extremely low strength, highly weathered																				
																		S			20, 25, 24 N = 49
																		S			28, 30/125mm
4.3	TUFF - extremely low strength, highly weathered, fractured, grey and purple-grey mottled tuff, highly altered																	C	100	0	

4.58m: J: sh, un, ro, lim  
4.64m: J: 60°, pl, sm, cc  
4.7m: defects generally over printed by pervasive weathering and alteration

**RIG:** MD300      **DRILLER:** Taberner      **LOGGED:** MAH      **CASING:** HW to 2.5m

**TYPE OF BORING:** Auger 0.00-4.30m, NMLC core 4.30-19.30m

**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	D	Water seep
		W	Water level

CHECKED
Initials: <i>CS</i>
Date: 24/6/10



# BOREHOLE LOG

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**BORE No:** CRR105  
**PROJECT No:** 74321.00  
**DATE:** 23 April 2010  
**SHEET 2 OF 4**

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		Ex Low	Very Low	Low	Medium	High			Very High	Ex High	B - Bedding	J - Joint	Type	Core Rec. %
17	5.0	TUFF - (as before)																C	100	0	
	5.2	SILTSTONE - extremely low strength, highly weathered, slightly fractured, grey and dark grey banded siltstone, sub-horizontal bedding, sporadic carbonaceous bands - 100mm very low strength band, bedding at 10°															5.2m: B: sh, pl, sm, cc	C	100	39	
16	6.5	TUFF - very low strength, moderately weathered, slightly fractured, grey and red-brown mottled tuff, highly altered and slightly reworked																			
15	7.4	SILTSTONE - extremely low strength, moderately weathered, slightly fractured, grey and orange-brown siltstone, bedding at 10° - becoming highly to moderately weathered - sporadic clay bands to 50mm thickness															7.8m: J: 35°, pl, sm, cf 8mm	C	100	45	
14	9.6	SANDSTONE - extremely low to very low strength, highly weathered, fractured, orange-brown and grey banded fine to medium grained sandstone - becoming fractured, sporadic bands of very low strength to medium strength fine to medium grained sandstone															8.71m: B: 10°, pl, sm, cf 30mm 8.77m: B: 10°, pl, sm, cf 50mm 9.03m: J: 30°, pl, sm, cc 9.5m: J: 30°, pl, sm, cc 9.66m: J: sv, un, sm, cc, frg, to 10.00m	C	100	8	

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A	Auger sample	pp	Pocket penetrometer (kPa)
D	Disturbed sample	PID	Photo ionisation detector
B	Bulk sample	S	Standard penetration test
U <sub>t</sub>	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:	CMB
Date:	24/4/10



# BOREHOLE LOG

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**BORE No:** CRR105  
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**SHEET 3 OF 4**

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. %
12	10.0	bedding at 10°, sporadic siltstone laminae SANDSTONE - (as before) - becoming medium strength, slightly weathered, slightly fractured														9.97m: B: 10°, un, sm, cc 10.12m: J: 20°, un, sm								
		- becoming moderately to slightly weathered - 60mm fine grained conglomerate interbed														10.4m: J: 20°, pl, sm					C	100	8	
	11															10.92m: J: sv, pl, ti, lim								
	11.45	CONGLOMERATE - high strength, moderately weathered, slightly fractured, orange-brown medium to coarse grained conglomerate - becoming low strength, slightly weathered, grey and orange-brown banded fine to medium grained conglomerate, with sporadic bands of very low strength to low strength conglomerate														11.39m: J: 40°, un, sm, cc 11.49m: J: 45°, un, sm								
	12															11.72m: J: 50°, un, sm, cc 11.85m: J: 20°, un, sm								PL(A) = 0.09MPa PL(D) = 0.13MPa
	13	- becoming medium to coarse grained conglomerate														12.88m: J: 10°, un, ro					C	100	100	
		- becoming fine to medium grained conglomerate - 80mm siltstone interbed														13.4m: J: 30°, pl, sm								
	14															13.65m: B: 20°, pl, sm, cc								
		- becoming medium strength fine to medium grained conglomerate, with 50-80mm fine to medium grained sandstone interbeds at 100-300mm spacings - becoming medium strength														14.08m: J: 20°, un, ro								PL(A) = 0.39MPa PL(D) = 0.61MPa
																14.7m: J: 45°, un, ro, frg to 14.76m					C	100	93	

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**DRILLER:** Taberner

**LOGGED:** MAH

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C	Core drilling	▷	Water seep      ≠ Water level

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



**Douglas Partners**  
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