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# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No	<u>BH07</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	<u>H11017</u>

PROJECT Moreton Bay Rail Link LOCATION Bridge 4, Ch.3600 COORDINATES 500728.4 E; 6985473.7 N  
 PROJECT No FG5921 SURFACE R.L. 13.00m PLUNGE \_\_\_\_\_ DATE STARTED 27/5/11 GRID DATUM MGA94 Zone 56  
 JOB No 250/120/3 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 27/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH							DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH	VI	IV	III	II	I				
0	13.00					<b>Silty CLAY (Topsoil)</b> Brown, moist, soft.  Contains organic materials.												Based on Driller's logs only	
1	12.00				A	<b>Gravelly Silty CLAY (Residual)</b> Orange-red mottled, moist, very stiff.  Low to medium plasticity.  Contains quartzitic gravel sizing <35mm.	(CL-CI)											3,10,13 N=23	SPT
2					B	White and yellow-red mottled iron stained below 2m depth.												5,8,10 N=18	SPT
3	10.00				C	<b>SANDSTONE</b> Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand-sized particles. <b>XW:</b> Generally exhibits the engineering properties of white-grey to red, moist, hard silty clay.												7,13,20 N=33	SPT
4					D	High plasticity.  Contains iron stained nodules.												9,16,25 N=41	SPT
5					E													10,16,25 N=41	SPT
6					F	Contains root debris.	XW											10,20,28 N=48	SPT
7					G													20,30/80mm,HB N>50	SPT
8					H	Colour change to grey below 8m.												9,13,19 N=32	SPT
9	4.00				J	<b>HW:</b> Grey-brown to black, hard sandy silty clay.  High plasticity.	HW											8,17,31 N=48	SPT
10																			

REMARKS \_\_\_\_\_

LOGGED BY  
DC2



# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No   BH07  

SHEET   2   of   2  

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DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	3.00				K	<b>SANDSTONE HW: (Cont'd)</b> Sedimentary rock structure preserved.	HW					30/110mm N>50	SPT
11	2.25		(54)			<b>MW:</b> Light brown-black, fine grained, massive with slightly laminated, medium to high strength.  Defects: - Drilling-induced lamination parting @ 10° (1-2/m) - Joint @ 65° (1-2/m) - Joint @ 80° (1/m)  Defect surfaces are closed and clay infill.	MW					Is(50) = 0.63MPa Is(50) = 0.74MPa  Is(50) = 0.77MPa  Is(50) = 3.14MPa Is(50) = 1.44MPa	x o  x o
12			100 (65)									DD = 2.27t/m <sup>3</sup> ; MC = 5.5%; UCS=15.7MPa Is(50) = 2.39MPa	UCS x
13			100 (65)								Carb band	Is(50) = 1.04MPa Is(50) = 1.32MPa	x o
14	-0.75		100 (87)			<b>SW:</b> Grey, fine grained, massive with slightly laminated, medium to high strength.  Contains mudstone interbeds.  Defects: - Drilling-induced lamination parting @ 5-10° (1/m) - Joint @ 80° (1/m)  Defect surfaces are generally medium spaced, irregular, rough, closed, with clay infill or minor carbonaceous.	SW					Is(50) = 0.32MPa Is(50) = 0.97MPa Is(50) = 3.58MPa Is(50) = 3.95MPa  Is(50) = 0.71MPa Is(50) = 2.59MPa	x o x o  x o
15			100 (87)									Is(50) = 0.73MPa Is(50) = 1.29MPa DD = 2.41t/m <sup>3</sup> ; MC = 3.7%; UCS=37.6MPa	x o  UCS
16	-3.40		100			Borehole terminated at 16.4m						Is(50) = 2.44MPa Is(50) = 2.07MPa	x o
17													
18													
19													
20													

REMARKS \_\_\_\_\_

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<b>Project Name</b>	<b>Moreton Bay Rail Link (MBRL)</b>		
<b>Project No</b>	FG5921	<b>Date</b>	27/05/11
<b>Borehole No</b>	BH 7	<b>TMR H No</b>	11017
<b>Location</b>	Bunbury Street Rail Bridge	<b>Start Depth (m)</b>	10.70
<b>Detail</b>	Structure	<b>Finish Depth (m)</b>	16.38
<b>Chainage</b>	3585 Approx	<b>Submitted By</b>	BW
<b>Remarks</b>			

