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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH53  
SHEET 1 of 2  
REFERENCE No H11092

PROJECT Moreton Bay Rail Link  
LOCATION Brays Road Rail Bridge 5, Centre Pier, Ch.4200 COORDINATES 501300.6 E; 6985657.1 N  
PROJECT No FG5921 SURFACE R.L. 7.40m PLUNGE        DATE STARTED 6/7/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING        DATE COMPLETED 6/7/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	OTHER WASH BORING CORE DRILLING	RQD ( ) %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
									EH	VH			
0	7.40		CORE REC %										
1				A	<b>Silty CLAY (Alluvial)</b> Mottled grey red yellow, moist, stiff to very stiff.  High plasticity.  Minor organic contents; iron staining in parts.	(CH)						Non-destructive drilling up to 1.5m. (Based on Driller's logs only)	5,6,8 N=14 SPT
2	5.20			B	<b>Silty CLAY (Residual)</b> Yellow grey, moist, mainly very stiff to hard.  Medium to high plasticity.	(CI-CH)						5,8,13 N=21 SPT	
3	4.10			C	<b>SANDSTONE</b> <b>Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising of sand sized particles</b> <b>XW:</b> Generally exhibits engineering properties of grey, moist, fine to medium grained medium dense to very dense clayey sand.	XW						7,12,18 N=30 SPT	
4				D	Contains subangular, high strength quartzitic gravel sizing <15mm.							10,15,30/140mm N>50 SPT	
5	2.20			E	<b>HW:</b> Grey, moist, fine to medium grained, very dense silty sand.  Contains subangular high strength quartzitic gravel sizing <40mm.	HW						5,8,16 N=24 SPT	
6				F								18,30/130mm,HB N>50 SPT	
7	0.40		(90)		<b>MW:</b> Orange yellow to white grey, fine grained, massive with slightly laminated, low to medium strength.  Becoming grey and laminated below 9m.							Is(50) = 0.42MPa Is(50) = 0.45MPa  Is(50) = 0.22MPa Is(50) = 0.28MPa  Is(50) = 1.06MPa Is(50) = 0.99MPa	x o  x o  x o
8			100 (86)			MW							
9													
10			100		(See over)								

REMARKS \_\_\_\_\_

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DEPTH (m)	R.L. (m)	OTHER 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	IN	N	VL	EL			
10	-2.60					<b>SANDSTONE</b> <b>MW: (Cont'd)</b>												
	-3.10					<b>SW:</b> Grey, fine grained, laminated medium to high strength.  Defects: - Drilling-induced lamination partings @ 15° (2/m)		MW										
11																		
12																		
	-5.10					<b>MUDSTONE</b> <b>Fine grained sedimentary rock mainly comprising of mud sized particles</b> <b>SW:</b> Black, laminated, high strength.  Contains thin bands of coal below 12.5m, approx. 120mm thick.  Displays dessicated structure on drying.  Defects: - Drilling-induced lamination partings and fractures @ 5-10° (2/m) - Joint @ 10-15° (2-3/m)		SW										
13																		
14																		
15																		
	-8.54																	
16						Borehole terminated at 15.94m												
17																		
18																		
19																		
20																		

REMARKS

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