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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH17  
SHEET 1 of 2  
REFERENCE No H11027

PROJECT Moreton Bay Rail Link  
LOCATION Bridge 10, Ch.6890 COORDINATES 503284.0 E; 6987237.4 N  
PROJECT No FG5921 SURFACE R.L. 13.20m PLUNGE \_\_\_\_\_ DATE STARTED 25/5/11 GRID DATUM MGA94 Zone 56  
JOB No 250/120/3 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 25/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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
0	13.20					<b>Silty CLAY (Topsoil)</b> Dark brown, moist, soft.						Based on Driller's logs only	
1	12.20				A	<b>Silty CLAY (Residual)</b> Dark brown white with yellow red mottles, moist, stiff.  Medium to high plasticity.  Red iron stained nodules abundant.	(Cl-CH)					2,4,6 N=10; LL=59%, PI=38%, LS=16+	SPT
2													
3	10.70				B	<b>Sandy CLAY (Residual)</b> Grey, moist, hard.  Low plasticity.  Red iron stained nodules throughout.	(CL)					12,31,26 N>50	SPT
4	9.20				C	<b>Silty CLAY (Residual)</b> White grey with red mottles, moist, stiff to very stiff.  High plasticity.  Red iron stained nodules throughout.						5,8,6 N=14	SPT
5													
6					D	Becoming white, moist, very stiff.  High plasticity.	(CH)					7,13,11 N=24	SPT
7	6.20				E	<b>SANDSTONE</b> Fine grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles <b>HW:</b> White with red pink mottles, moist, hard, clayey silt. <b>MW:</b> Yellow red, fine grained, laminated, low strength.  Defects: - Drilling-induced partings @ 5° (1/m) - Joint @ 35-45° (1/m)	HW					30/85mm N>50	SPT
8	5.70		(76)			Defect surfaces are irregular, closed, clay infilled or iron stained.	MW					Is(50) = 0.14MPa Is(50) = 0.14MPa  Is(50) = 0.18MPa Is(50) = 0.24MPa  Is(50) = 0.06MPa Is(50) = 0.32MPa	x o  x o  x x

REMARKS \_\_\_\_\_

LOGGED BY  
DC2 / LD



# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH17  
SHEET 2 of 2  
REFERENCE No H11027

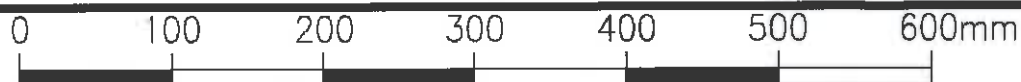
PROJECT Moreton Bay Rail Link  
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DEPTH (m)	R.L. (m)	AUGER WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	3.20				<b>SANDSTONE</b> <b>MW: (Cont'd)</b>							Is(50) = 0.24MPa	o
	2.80		100 (63)		<b>SW:</b> Grey with yellow iron staining, laminated, low to medium strength.  Mudstone interbeds in parts.  Defects: - Drilling-induced lamination partings @ 5° (1-2/m) - Joints @ 20-30° (1-2/m) - Joint @ 75° (1/m)		MW						
11							SW					Is(50) = 0.10MPa Is(50) = 0.25MPa  Is(50) = 0.29MPa Is(50) = 0.27MPa Is(50) = 0.99MPa Is(50) = 0.80MPa	x o  x o x o
12	1.20		100		Defect surfaces are irregular, rough, open and closed, clay infilled or iron stained. Borehole terminated at 12m								
13													
14													
15													
16													
17													
18													
19													
20													

REMARKS \_\_\_\_\_

LOGGED BY  
DC2 / LD

<b>Project Name</b>	<b>Moreton Bay Rail Link (MBRL)</b>		
<b>Project No</b>	FG5921	<b>Date</b>	25/05/11
<b>Borehole No</b>	BH 17	<b>TMR H No</b>	11027
<b>Location</b>	Kinsellas Rd East Bridge	<b>Start Depth (m)</b>	7.50
<b>Detail</b>	Structure	<b>Finish Depth (m)</b>	11.97
<b>Chainage</b>	6900	<b>Submitted By</b>	BW
<b>Remarks</b>			



SCALE 1:5