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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH01
SHEET 1 of 3
REFERENCE No H11011

PROJECT Moreton Bay Rail Link
LOCATION Yebri Creek Rail Bridge, Ch.800 COORDINATES 498379.4 E; 6984285.8 N
PROJECT No FG5921 SURFACE R.L. 3.64m PLUNGE DATE STARTED 6/6/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 6/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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	J	VL			
0	3.64					Silty CLAY (Topsoil) Grey to dark grey, orange brown, moist, very soft. High plasticity; minor organic content. Occasional fine grained sand in parts.										Non-destructive drilling <1.5m Based on Driller's logs only	
1								(CH)									
2	1.44				A											RW,HW,1 N=1	SPT
3					B	Gravelly Silty CLAY (Residual) Grey to orange grey and brown, moist, mainly very stiff to hard. Medium to high plasticity. Gravel fraction is subangular sizing <15mm.										10,14,7 N=21	SPT
4					C	High strength gravel fragments @ 4.5m.		(CI- CH)								3,6,10 N=16	SPT
5					D											8,16,16 N=32	SPT
6	-1.61				E	Silty CLAY (Residual) Pale grey to orange brown, moist, stiff to very stiff. Medium to high plasticity. Iron staining throughout; contains rock kernels in parts.										5,5,8 N=13	SPT
7					F											5,5,9 N=14	SPT
8					G	Becoming very stiff below 7.5m.		(CI- CH)								6,8,10 N=18	SPT
9					H											4,7,9 N=16	SPT
10	-5.61				J	MUDSTONE Fine grained, sedimentary rock mainly comprising of mud-sized particles		XW								7,11,16 N=27	SPT

REMARKS

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DEPTH (m)	R.L. (m)	AUGER 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
10	-6.36												
11				K	MUDSTONE XW: (Cont'd) Generally exhibits engineering properties of grey to dark grey, orange brown, moist, very stiff to mainly hard, silty clay. Iron staining throughout; occasional carbonaceous (coal seams) bands below 12.5m. Becoming hard below 11.5m.							8,13,16 N=29	SPT
12				L								9,13,19 N=32	SPT
13				M		XW					Carb seams	9,14,22 N=36	SPT
14				N								13,23,30/120mm N>50	SPT
15	-11.36			P	Gradually grading into low strength rock with depth.							19,30/110mm N>50	SPT
16			(57)		Interbedded SILTSTONE and SANDSTONE Siltstone - Fine grained, sedimentary rock comprising mainly comprising of silt-sized particles Sandstone - Fine to coarse grained, massive, poorly cemented sedimentary rock mainly comprising of sand-sized particles MW: Orange brown to grey, dark grey, fine to medium grained, laminated, very low to low strength. Defects: - Drilling-induced lamination partings @ 5-15° (7/m) - Joint at 75-80° (1/m) Defect surfaces are generally planar to irregular, smooth to slightly rough, open.							Is(50) = 0.13MPa Is(50) = 0.17MPa Generally homogenous sands; no Ls	x o
17			100 (60)			MW						Is(50) = 0.08MPa	x
18	-14.38		100 (100)									SS; no Ls Mudstone Is(50) = 0.26MPa Is(50) = 0.10MPa High strength pebble inclusions; rip up clasts Dominantly sands	x o
19					MUDSTONE MW: Dark grey to black, laminated, low to medium strength. Defects: Rare or almost nil.	MW						Is(50) = 0.28MPa	x
20	-15.64		100 (82)		SANDSTONE Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles	SW						Is(50) = 1.14MPa Is(50) = 1.13MPa	x o

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BOREHOLE No BH01
SHEET 3 of 3
REFERENCE No H11011

PROJECT Moreton Bay Rail Link
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JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 6/6/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER 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
20	-16.36												
21			100 (90)		SANDSTONE (Cont'd) SW: Grey to dark grey brown, massive with slight laminations, fine to medium grained, medium to high strength. Thin carbonaceous bands in parts.								
22			100 (79)		Defects: - Drilling-induced lamination partings @ 5° (1/m) - Joint @ 45° (1/m) - Joint @ 70-75° (1/m) Defect surfaces are close to medium spaced, irregular, slightly rough to rough, open and calcite infill.	SW						CA mineralisation of J surface Is(50) = 3.91MPa Is(50) = 2.34MPa	x o
23			100 (79)									High strength pebble inclusions; rip up clasts Rip up clasts present	
24	-20.27		100		Borehole terminated at 23.9m							Is(50) = 0.64MPa Is(50) = 0.41MPa	x o
25													
26													
27													
28													
29													
30													

REMARKS

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Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	06/06/11
Borehole No	BH 1	TMR H No	11011
Location	Yebri Creek Rail Bridge	Start Depth (m)	15.00
Detail	Structure	Finish Depth (m)	23.90
Chainage	795 Approx	Submitted By	BW
Remarks			

