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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH29
SHEET 1 of 2
REFERENCE No H11039

PROJECT Moreton Bay Rail Link
LOCATION Fill 18, Ch.10500 COORDINATES 506178.6 E; 6989032.0 N
PROJECT No FG5921 SURFACE R.L. 1.60m PLUNGE DATE STARTED 16/5/11 GRID DATUM MGA94 Zone 56
JOB No 250/120/3 HEIGHT DATUM AHD BEARING DATE COMPLETED 16/5/11 DRILLER R&D Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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
0	1.60				Silty CLAY (Estuarine) Grey brown with yellow mottles, moist, soft.						Based on Driller's logs only	
1	0.60			A	CLAY (Estuarine) Dark grey brown with yellow mottles, moist, very soft to soft. High plasticity.	(CH)					DD = 0.94t/m ³ ; WD = 1.56t/m ³ ; MC = 65.5%	U50
2				B	High organic content. Becoming yellow brown with red mottles.						"P" sized casing 0-2.5m DD = 0.82t/m ³ ; WD = 1.40t/m ³ ; MC = 72.6%; LL-82%, PI=47%, LS=18+	U100
3				C		(CH/OH)					DD = 1.14t/m ³ ; WD = 1.74t/m ³ ; MC = 50.8%	U100
4				D							DD = 1.18t/m ³ ; WD = 1.64t/m ³ ; MC = 38.8%; LL-70%, PI=39%, LS=15+	U100
5	-3.40			E	Silty CLAY (Alluvial) Blue grey and yellow red brown, moist, stiff to mainly very stiff. High plasticity.						4,6,9 N=15	SPT
6				F	Iron staining in parts.	(CH)					3,5,14 N=19; LL-69%, PI=40%, LS=15+	SPT
7	-5.40			G	Clayey SAND (Residual) Light grey and yellow brown, moist, medium dense to dense. Medium to high plasticity.						8,14,22 N=36	SPT
8				H	Sand fraction is fine to medium grained; iron stained. Minor traces of thin coal seams.	(CI/CH)					7,10,19 N=29	SPT
9												
10				J							8,11,14 N=25	SPT

REMARKS

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BW / JSM



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DEPTH (m)	R.L. (m)	AUGER CASING 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	-8.40		CORE REC %						20 60 200 600 2000			
11				K	Clayey SAND (Residual) (Cont'd) Becoming yellow brown with red and white scattered.	(Cl/CH)					6.9, 12 N=21	SPT
12												
13	-10.90			L	SANDSTONE (Quartz Feldspathic) Fine to medium grained, massive, poorly cemented sedimentary rock mainly comprising sand-sized particles HW: Yellow brown with black, white and yellow mottling, fine to medium grained, very dense sand.	HW					30/120mm, 30/75mm N>50	SPT
14	-12.40		(100)		MW: Yellow brown and red brown scattered, fine to medium grained, massive with slightly laminated, low to medium strength. Iron staining throughout. Defects: - Drilling induced laminations / bedding partings @ 10-20° (2-3/m) Defect surfaces are generally wide to very widely spaced, irregular, slightly rough, open, clean or iron stained.	MW					Is(50) = 0.32MPa Is(50) = 0.48MPa	x o
15			100 (100)								Is(50) = 0.33MPa Is(50) = 0.38MPa DD = 2.14t/m ³ ; MC = 6.3%; UCS = 6.47MPa Co laminate approx. 5mm thick	x o
16												
17	-15.40		100		Borehole terminated at 17m						Is(50) = 0.35MPa Is(50) = 0.32MPa	x o
18												
19												
20												

REMARKS _____

LOGGED BY
BW / JSM

Project Name	Moreton Bay Rail Link (MBRL)		
Project No	FG5921	Date	16/05/11
Borehole No	BH 29	TMR H No	11039
Location	Embankment	Start Depth (m)	14.00
Detail		Finish Depth (m)	17.00
Chainage	Approx	Submitted By	BW
Remarks			



