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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C23
 SHEET 1 of 1
 REFERENCE No H11116

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
 LOCATION Cut 7 COORDINATES 472540.3 E; 7092584.1 N
 PROJECT No FG5799 SURFACE R.L. 89.80m PLUNGE _____ DATE STARTED 01/08/11 GRID DATUM MGA94
 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 01/08/11 DRILLER Cairns Drilling Contract

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	H	M	J	VL	EL	20				60	200
0	89.80					TOPSOIL: Brown.																
0.5	89.50				A	Gravelly Silty SAND (Residual): Lightly brown/grey, dry, dense to very dense.		(SM)														Based on driller's logs only 10,23,26 N=49 SPT
2.0	87.80				B	ANDESITE (MW): Brown/grey, fine to medium grained, massive, high strength. Defects: -Highly weathered zones up to 250mm. -Joint at 50° (3/m) -Joint at 70° (1/m) Defects are closely spaced. Defect surfaces are planar, tight, slightly rough, clay infilled.		MW														30, HB N>50 SPT
3.5	86.43				(39)																	HW Clayey Zone J, 30°, Pl, O, Clnf Clay Seam Clay Seam Is(50) = 1.75MPa L
4.0					100	SILTSTONE (MW): Red/brown, fine grained, massive, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 20° (2/m) -Joint at 30°-40° (3/m) -Joint at 70° (2/m) Defects are medium spaced. Defect surfaces are planar, tight, smooth, clay infilled, iron stained.																DD = 2.53m ³ , MC = 2.5%, UCS=22.4MPa UCS
4.5					(29)																	J, 40°, Pl, R, Clnf, 10mm Is(50) = 0.40MPa L
5.5					100																	J, 40°, Pl, O, Clnf Clayey Zone J, 10°, O, Clnf, 20mm Clay Seam, 20mm Clayey BZ Is(50) = 1.92MPa Is(50) = 0.33MPa x o
6.5					(14)																	DD = 2.50m ³ , MC = 3.4%, UCS=29.44 UCS
7.5					100																	J, 70°, Pl, T, S, Clnf Clay Seam Clay Seam Clay Seam Clay BZ Is(50) = 0.36MPa o
8.5					(18)																	J, 80°, P, S, FeSt J, 30°, Pl, O, SR, FeSt J, 20°, Pl, T, FeSt J, 20°, Pl, O, Clnf J, 30°, Pl, T, R, FeSt J, 10°, Pl, T, R, FeSt
9.5					100																	
10.0	79.80				100																	

QLD_DMR_LIB_014_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_LITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG#46352.GDW/ D:\geog\GPT_Tools\glnl\AddIn\12/1/2001_16:29

REMARKS Borehole terminated at 10m LOGGED BY JA/DC

CORE PHOTO LOG - BH C23

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 7	Start Depth (m):	2.00
Reference No.:	H11116	Finish Depth (m):	10.00



SCALE 1:5