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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C22

SHEET 1 of 2

REFERENCE No H11115

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 7 COORDINATES 472498.5 E; 7092563.0 N

PROJECT No FG5799 SURFACE R.L. 93.40m PLUNGE DATE STARTED 02/08/11 GRID DATUM MGA94

JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 02/08/11 DRILLER Cairns Drilling Contract

OLD_DMR_LIB_01A_GLB_Log_A_ENGINEERING_BOREHOLE_LOG_WLITHOLOGY_FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46952.GDW Datepl CPT Tool glnr Add-in 12/12/2001 16:29

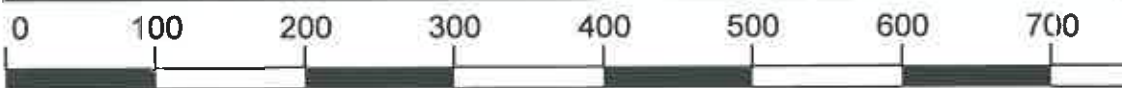
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	93.40					TOPSOIL							
93.10						Gravelly Silty SAND (Residual): Brown/grey, very dense.	(SM)						
92.70						SANDSTONE (HW): Pale grey.	HW					30/100mm N>50	SPT
1					A							Based on driller's logs only	
2	91.40				B	SILTSTONE (HW): Brown/grey, fine grained, massive, mainly extremely low to very low strength.	HW					30/80mm N>50	SPT
3					(33)	Defects: -Frequent clay seams. -Joint at 40° (2-3/m) Defect spacing is generally extremely close. Defect surfaces are planar, closed or tight, smooth, thickly clay infilled.					Clay Seam Clay Seam Clay Seam	Is(50) = 0.17MPa	L
4					100 (14)						Clay Seam Clay Seam Clay Seam	Is(50) = 1.63MPa Is(50) = 1.49MPa	x o
5					100 (13)		HW				Clayey Zone Clay Seam		
6											Clayey Zone Clay Seam		
7					100 (7)						Clay Seam	Is(50) = 0.03MPa Is(50) = 0.31MPa	L o
8											Clay Seam Clay Seam	Is(50) = 0.45MPa	L
84.90					100 (9)	Indistinct boundary ANDESITE (HW): Brown, fine grained, massive, very low to low strength. Defects: -Joint at 20° (3/m) -Joint at 70° (2-3/m) -Joint at 80° (<1/m) Defect spacing is mainly close. Defect surfaces are planar, tight or closed, slightly rough, clay infilled, iron stained.	HW						
9													
10					100								

REMARKS _____

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JA/DC

CORE PHOTO LOG - BH C22

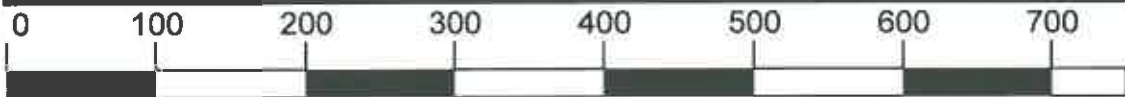
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 7	Start Depth (m):	2.50
Reference No.:	H11115	Finish Depth (m):	15.50



SCALE 1:5

CORE PHOTO LOG - BH C22

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
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SCALE 1:5