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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C72
SHEET 1 of 2
REFERENCE No H11148

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 4/Tandur Rd Underpass Abut A COORDINATES 472884.4 E; 7090574.3 N
PROJECT No FG5799 SURFACE R.L. 71.80m PLUNGE _____ DATE STARTED 31/08/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 01/09/11 DRILLER Caims Drilling Contract

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	71.80					TOPSOIL							
1	71.50					Gravelly Sandy CLAY (Residual?): Brown/grey, moist, very stiff, low to intermediate plasticity. Iron staining throughout.							
2					A							No recovery	U50
2					B							7, 10, 16 N=26	SPT
3					C							No recovery	U50
4	67.30				D	SANDSTONE (HW): Brown/grey, fine grained. Contains angular to subrounded clasts sizing up to 20mm.						30/100 N>50	SPT
5					E							30/60 N>50	SPT
6	64.30				F	SILTSTONE (MW): Grey/brown, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 10° (4/m) -Joint at 50° (4/m) -Joint at 70° (2/m) Defect spacing is mainly close. Defect surfaces are generally planar, tight or open, slightly rough, clay infilled, iron stained.						HB N>50	SPT
7													
8													
9													
10													

REMARKS

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BOREHOLE No BH C72
SHEET 2 of 2
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PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Embankment 4/Tandur Rd Underpass Abut A COORDINATES 472884.4 E; 7090574.3 N
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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	61.80		(0) 100 (15)		SILTSTONE (MW): Cont'd								
11			100 (31)					MW				BZ J, 70°, Pl, C, FeSt J, 10°, Pl, O, S, FeSt J, 50°, Pl, O, R, FeSt J, 10°, Pl, O, Clnf Is(50) = 0.40MPa Is(50) = 1.79MPa J, 10°, Cu, O, S, FeSt J, 50°, C, R, FeSt	x o
12	59.30				SILTSTONE (SW): Grey, fine grained, mainly medium strength, indurated and/or slightly metamorphosed.								
13			100 (34)		Defects: Clayey broken zones up to 500mm. -Joint at 20° (2/m) -Joint at 50° (2-3/m) -Joint at 80° (1/m) Defect spacing is generally medium. Defect surfaces are planar, tight, slightly rough, clay infilled. Foliation is highly disturbed.							Is(50) = 0.66MPa Is(50) = 0.59MPa J, 50°, Pl, O, S, FeSt Basalt dyke, grey, very high strength. J, 50°, Pl, O, S, FeSt DD = 2.57t/m ³ ; MC = 1.9%; UCS=5.7MPa J, 10°, Pl, O, R, FeSt	x o
14			97 (23)					SW				BZ Is(50) = 0.46MPa Partial water loss from 15.0m J, 80°, Pl, T, S, Cn J, 20°, Pl, O, S, Cn J, 30°, Pl, O, S, Cn J, 80°, Pl, T, S, Thinly Clnf	x
15			100 (8)									Clay Seam Is(50) = 0.84MPa Clay Seam BZ Cly BZ	x
16	53.44		100		Borehole terminated at 18.36m							BZ	
17													
18													
19													
20													

REMARKS _____

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CORE PHOTO LOG - BH C72

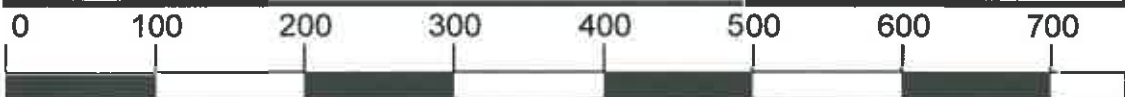
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Structure	Start Depth (m):	7.50
Reference No.:	H11148	Finish Depth (m):	18.36



SCALE 1:5

CORE PHOTO LOG - BH C72

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Structure	Start Depth (m):	7.50
Reference No.:	H11148	Finish Depth (m):	18.36



SCALE 1:5