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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C30
SHEET 1 of 2
REFERENCE No H11120

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 8 COORDINATES 472077.8 E; 7093685.9 N
PROJECT No FG5799 SURFACE R.L. 82.50m PLUNGE _____ DATE STARTED 08/07/11 GRID DATUM MG94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 08/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING 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	82.50												
0.30	82.30					TOPSOIL: Brown, silt.	(ML)						
0.70	81.70					Sandy SILT Mottled grey, dry.	(ML)					Based on Driller's logs only	
1.00					A	SILTSTONE (HW): Orange/brown, fine grained.	HW					18,29,30/100mm N>50	SPT
2.00													
2.50					B							30/80mm N>50	SPT
3.00	79.50					SILTSTONE (MW): Grey to mottled brown, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed.	MW						
4.00			(0)			Defects: - Joint at 20° (2/m) - Joint at 40° (4/m) - Joint at 50° (2-3/m) - Joint at 70° (2-3/m)						BZ J, 70°, T, Clnf J, 40°, T, Clnf J, 70°, T, Clnf	
5.00			100 (13)			Defect spacing is mainly close. Defect surfaces are generally planar or irregular, tight, smooth, clay infilled or iron stained.							
6.00			100 (7)			Becoming SW Siltstone.						Is(50) = 1.12MPa Is(50) = 0.82MPa	
7.00			100 (25)									J, 70-75°, C, FeSt	
8.00	75.15					SANDSTONE (SW): Grey/brown, fine to medium grained, massive, high strength, indurated and/or slightly metamorphosed.	SW					CLy band QZ VN, 60° J, 70°, T, FeSt Is(50) = 1.22MPa Is(50) = 1.50MPa	x o
9.00			100 (24)			Defects: - Joint at 10° (2/m) - Joint at 55-60° (3/m) - Joint at 70° (3/m)						J, 90°, C, FeSt J, 65°, Pl, T, Clnf, FeSt Is(50) = 1.35MPa Is(50) = 1.24MPa	x o
10.00			100 (29)			Defects spacing is close to medium. Defect surfaces are planar or irregular, tight, slightly rough, clay infilled or iron stained.						J, 40°, Pl, T, FeSt	
						Contains frequent pebbles up to 5mm.						J, 70-80°, C, FeSt	

REMARKS *Sample failed along existing defect

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C30
SHEET 2 of 2
REFERENCE No H11120

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 8 COORDINATES 472077.8 E; 7093685.9 N
PROJECT No FG5799 SURFACE R.L. 82.50m PLUNGE _____ DATE STARTED 08/07/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 08/07/11 DRILLER Drillsure Pty Ltd

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
10	72.50												
	72.32					SANDSTONE (SW): Cont'd		SW					
						CONGLOMERATE (SW): Grey, coarse grained, massive, high strength, indurated and/or slightly metamorphosed.							
						Defects: - Joint at 10-20° (2-3/m) - Joint at 50° (~1/m) - Joints at 80° (1-2/m)							
						Defect spacing is mainly medium. Defect surfaces are planar, open or tight, smooth, iron stained, thinly clay infilled.						Is(50) = 3.27MPa Is(50) = 2.50MPa	x o
						Pebbles size up to 10mm.		SW				Water loss at 12.65m. DD = 2.57l/m ³ ; MC = 0.8%; Sandstone Interbed UCS=25.2MPa*	UCS
												J, 80°-90°, T, FeSt	
	68.10				100								
						Borehole terminated at 14.4m							
15													
16													
17													
18													
19													
20													

REMARKS *Sample failed along existing defect

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CORE PHOTO LOG - BH C30

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	3.00
Reference No.:	H11120	Finish Depth (m):	14.40

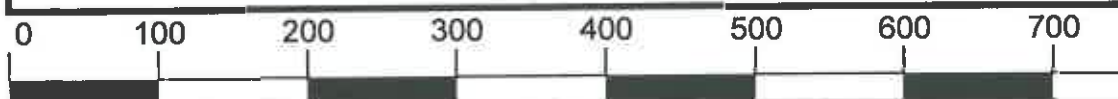


SCALE 1:5



CORE PHOTO LOG - BH C30

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	3.00
Reference No.:	H11120	Finish Depth (m):	14.40



SCALE 1:5