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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C42
SHEET 1 of 2
REFERENCE No H11131

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 10 COORDINATES 471559.5 E; 7094938.6 N
PROJECT No FG5799 SURFACE R.L. 82.00m PLUNGE _____ DATE STARTED 26/07/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 26/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	LOGGING 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	82.00												
0.5	81.50				TOPSOIL Grey, dry.								
1.0					SANDSTONE (HW): Brown, fine to medium grained.							Based on driller's logs only	
1.5													30/70 N>50
2.0	80.00												
2.5					SANDSTONE (HW): Brown, medium to coarse grained, massive, very low strength.								
3.0					Defects: -Joint at 5°-10° (3/m) -Joint at 45° (2/m) -Joint at 55°-60° (1/m)							J, 10°, Pl, C, Clnf J, 10°, Pl, T, C J, 55°, Pl, T, Clnf	
3.5												XW Clay Seam	
4.0					Defects are generally closely spaced. Defect surfaces are planar or irregular, tight, slightly rough, clay infilled, iron stained.							XW Clay Seam	
4.5												XW Clay Seam J, 50°, Pl, T, Clnf J, 55°, Pl, T, Clnf XW Clay Seam	
5.0	77.58				Pebbles throughout up to 40mm.							J, 30°, Pl, O, SR, Clnf, FeSt	
5.5					SANDSTONE (MW): Brown/grey, medium to coarse grained, massive, medium to mainly high strength, indurated and/or slightly metamorphosed.							XW Clay Seam J, 65°, Pl, T, Clnf DD = 2.49t/m ³ , MC = 1.5%; UCS=11.1MPa	
6.0					Defects: -Joint at 25°-30° (2/m) -Joint at 40° (<1/m) -Joint at 50° (<1/m) -Joint at 60°-65° (1-2/m) -Joint at 70° (1/m)							J, 50°, Pl, T, Clnf J, ~70°, Pl, T, Clnf	
6.5					Defects are generally medium to widely spaced. Defect surfaces are generally planar, tight, slightly rough, clay infilled, iron stained.							Siltstone Interbed XW Clay Seam	
7.0					Pebbles throughout up to 40mm, subrounded.							J, 60°, Broken, Pl, O, SR, Clnf, FeSt J, 80°-85°, Pl, T, SR, Clnf, FeSt CLy BZ	
7.5												Is(50) = 0.71MPa Is(50) = 0.61MPa	x o
8.0												Is(50) = 2.17MPa Is(50) = 2.00MPa	x o
8.5													
9.0													
9.5													
10.0												Is(50) = 1.13MPa	x

REMARKS _____

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C42
SHEET 2 of 2
REFERENCE No H11131

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 10 COORDINATES 471559.5 E; 7094938.6 N
PROJECT No FG5799 SURFACE R.L. 82.00m PLUNGE _____ DATE STARTED 26/07/11 GRID DATUM MG94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 26/07/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER WASHING 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	72.00													
11				100 (88)		SANDSTONE (MW): Cont'd							Is(50) = 1.78MPa	O
12				100 (89)									DD = 2.59t/m ³ ; MC = 0.8%; UCS=28.1MPa	UCS
13				100 (7)									J, 70°, Pl, T, Clnf, FeSt Is(50) = 2.13MPa Is(50) = 3.35MPa	X O
14				100 (50)									J, 70°, Pl, T, Clnf, FeSt J, 65°, Pl, T, Clnf, FeSt XW Clay Seam J, 70°, Pl, O, Clnf, FeSt	
15				100 (25)									Is(50) = 2.09MPa Is(50) = 1.61MPa	X O
16	65.56			100 (0)									Is(50) = 1.74MPa Is(50) = 4.23MPa	X O
17				100 (0)		SILTSTONE (SW): Red/grey, fine grained, subtly foliated, high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 25°-30° (1/m) -Joint at 30°-35° (2/m) -Joint at 55°-60° (3-4/m)							J, 35°, Pl, O, Clnf, FeSt DD = 2.69t/m ³ ; MC = 0.7%; UCS=25.3MPa	UCS
18				100 (0)		Defects are generally very close to closely spaced. Defect surfaces are planar, tight or closed, smooth, clay infilled, iron stained.							Is(50) = 0.87MPa Is(50) = 4.38MPa	X O
19	63.35			100 (0)		SANDSTONE (SHEAR ZONE) (HW): Grey/brown, medium to coarse grained, massive, very low strength, Defects: -Brecciated and clayey throughout.							Shear Zone J, 60°, Pl, O, SR, Clnf, FeSt	
20	62.00			100										

REMARKS Borehole terminated at 20m

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CORE PHOTO LOG - BH C42

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 10	Start Depth (m):	2.00
Reference No.:	H11131	Finish Depth (m):	20.00



SCALE 1:5

CORE PHOTO LOG - BH C42

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 10	Start Depth (m):	2.00
Reference No.:	H11131	Finish Depth (m):	20.00



SCALE 1:5