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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C55

SHEET 1 of 3

REFERENCE No H11054

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 16

COORDINATES 470495.9 E; 7097369.8 N

PROJECT No FG5799

SURFACE R.L. 84.60m

PLUNGE

DATE STARTED 20/06/11

GRID DATUM MGA94

JOB No 232/10A/2

HEIGHT DATUM AHD

BEARING

DATE COMPLETED 20/06/11

DRILLER Drillsure Pty Ltd

Q:\D_MMR_LIB_01\A_GLB_Log_A_ENGINEERING BOREHOLE LOG W\LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46352.GDW Date: 12/12/2001 11:16:30

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	84.60													
1	83.90					TOPSOIL: Grey, dry, organic.							Based on driller's logs only	
					A	Silty CLAY (Residual): Mottled brown, moist, very stiff, intermediate plasticity, occasional organics.			(CI)				4.9.9 N=18	SPT
2	83.00					SILTSTONE (HW): Pale grey, fine grained.			HW				30/30mm N>50; No recovery	SPT
3	81.50					SILTSTONE (MW): Grey mottled with brown, fine grained, subtly foliated, high strength, indurated and/or slightly metamorphosed.			MW				Blade refusal	
4			(42)			Defects: -Joint at 5°-10° (1-2/m) -Joint at 60°-65° (<1/m) Defects are medium spaced. Defect surfaces are planar, tight or open, clay infilled.							Is(50) = 1.77MPa Is(50) = 2.06MPa	x o
5			100 (10)											
6			100 (34)										Is(50) = 1.03MPa Is(50) = 2.65MPa DD = 2.56t/m ³ ; WD = 2.60t/m ³ ; MC = 1.2%; UCS=7.2MPa	x o UCS
7			100 (50)										Is(50) = 1.85MPa Is(50) = 1.44MPa	x o
8			100 (58)										FP, 45°, Cinf	
9			100 (69)										Is(50) = 3.00MPa	x
10													Conglomeritic Interbed	

REMARKS

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C55

SHEET 2 of 3

REFERENCE No H11054

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 16

COORDINATES 470495.9 E; 7097369.8 N

PROJECT No FG5799

SURFACE R.L. 84.60m

PLUNGE

DATE STARTED 20/06/11

GRID DATUM MGA94

JOB No 232/10A/2

HEIGHT DATUM AHD

BEARING

DATE COMPLETED 20/06/11

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	DEFECT	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS	
										STRENGTH	SPACING					
										(mm)	(mm)					
10	74.60					SILTSTONE (MW): Cont'd	MW						Conglomeritic Interbed			
11	74.00		100 (60)			SILTSTONE (SW): Grey, fine grained, subtly foliated, high to very high strength, indurated and/or slightly metamorphosed. Defects: -Foliation parting at 40°-45° (4/m) -Joint at 60°-65° (<1/m) -Joint at 75° (<1/m) Defects are generally medium to widely spaced. Defect surfaces are planar, open or tight, smooth, thinly clay infilled.							Is(50) = 5.74MPa Is(50) = 3.90MPa	x o		
12													BZ			
13			100 (87)										J, 65°, QZ Total water loss at 12.9m.	Is(50) = 1.46MPa Is(50) = 3.30MPa	x o	
14			100 (77)													
15																
16			100 (94)										FP, QZ	Is(50) = 2.81MPa Is(50) = 3.01MPa	x o	
17													FP, QZ			
18			100 (100)										FP, QZ	DD = 2.65t/m ³ ; MC = 0.3%; USC=32.3MPa	USC	
19			100 (54)											Is(50) = 2.02MPa	x	
20														Is(50) = 1.47MPa	x	

REMARKS

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C55
SHEET 3 of 3
REFERENCE No H11054

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C
LOCATION Cut 16 COORDINATES 470495.9 E: 7097369.8 N
PROJECT No FG5799 SURFACE R.L. 84.60m PLUNGE _____ DATE STARTED 20/06/11 GRID DATUM MGA94
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 20/06/11 DRILLER Drillsure Pty Ltd

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
20	64.60		CORE REC %										
	64.30		100		SILTSTONE (SW): Cont'd	xxx	xxx	SW				Is(50) = 3.83MPa	0
					Borehole terminated at 20.3m								
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													

REMARKS _____

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CORE PHOTO LOG - BH C55

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	3.10
Reference No.:	H11054	Finish Depth (m):	20.30



CORE PHOTO LOG - BH C55

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	3.10
Reference No.:	H11054	Finish Depth (m):	20.30



SCALE 1:5