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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C56  
SHEET 1 of 3  
REFERENCE No H11055

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C  
LOCATION Cut 16 COORDINATES 470532.5 E; 7097368.0 N  
PROJECT No FG5799 SURFACE R.L. 88.30m PLUNGE          DATE STARTED 21/06/11 GRID DATUM MGA94  
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING          DATE COMPLETED 22/06/11 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 STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	88.30					TOPSOIL								
	88.10					Gravelly SILT (Residual): Red/brown.			(ML)				Based on Driller's logs only	
	87.70					SILTSTONE (HW): Brown, fine grained.								
1					A								6, 12, 30/140m N>50	SPT
2									HW					
	85.45				B								30/90mm N>50	SPT
3			(66)			SILTSTONE (MW): Gray mottled with brown, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed							Is(50) = 0.60MPa	x
			100										XW Clay Seam	
			(87)											
4						Defects: -Foliation parting at 40°-45° (~4/m) -Joint at 5°-10° (1/m) -Joint at 60° (1/m)								
			100			Defects are generally medium spaced. Defect surfaces are generally planar, open or tight, smooth, clay infilled.							J's, 60°, Cinf	
5			(84)										Is(50) = 1.40MPa	x
			100										DD = 2.44t/m <sup>3</sup> ; WD = 2.56t/m <sup>3</sup> ; MC = 4.2%; UCS=8.3MPa	UCS
6			(92)										Is(50) = 0.83MPa Is(50) = 1.58MPa	x o
			100										XW Clay Seam	
8			(82)										BZ	
			100										Is(50) = 2.32MPa Is(50) = 0.66MPa; *	x o
10			(82)											

REMARKS \*Point load failed along existing defect

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

BOREHOLE No BH C56  
SHEET 2 of 3  
REFERENCE No H11055

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C  
LOCATION Cut 16 COORDINATES 470532.5 E: 7097368.0 N  
PROJECT No FG5799 SURFACE R.L. 88.30m PLUNGE \_\_\_\_\_ DATE STARTED 21/06/11 GRID DATUM MGA94  
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 22/06/11 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
10	78.30												
11			100 (61)		SILTSTONE (MW): Cont'd								
12			100 (72)									J, 60°, Clnf	
13			100 (81)			MW							
14			100 (81)									XW Clayey Seam	
15			100 (63)										
16	72.33		100 (91)		SILTSTONE (SW): Grey, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed.							Is(50) = 1.23MPa Is(50) = 1.26MPa	x o
17					Defects: -Foliation parting at 40°-45° (~4/m) -Joint at 5°-10° (1/m) -Joint at 60° (~1/m)							DD = 2.67t/m³; MC = 1%; UCS=15.5MPa	UCS
18			100 (71)		Defects are generally medium spaced. Defect surfaces are planar, open or tight, smooth, clay infilled.	SW						XW Clayey Seam Is(50) = 0.79MPa Is(50) = 0.55MPa	x o
19			100 (59)										
20													

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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C56  
SHEET 3 of 3  
REFERENCE No H11055

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C  
LOCATION Cut 16 COORDINATES 470532.5 E; 7097368.0 N  
PROJECT No FG5799 SURFACE R.L. 88.30m PLUNGE \_\_\_\_\_ DATE STARTED 21/06/11 GRID DATUM MGA94  
JOB No 232/10A/2 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 22/06/11 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	68.30												
21			100 (67)		SILTSTONE (SW): Cont'd	XXXXXX						Is(50) = 0.88MPa Minor water loss at 20.6m	x
22			100 (73)			XXXXXX							
23			100 (90)			XXXXXX	SW					Is(50) = 0.31MPa; *	x
24						XXXXXX						Minor QZ veining Is(50) = 1.36MPa	x
25	63.15		100		Borehole terminated at 25.15m	XXXXXX							
26													
27													
28													
29													
30													

REMARKS \*Point load failed along existing defect

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**CORE PHOTO LOG - BH C56**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	2.85
Reference No.:	H11055	Finish Depth (m):	25.15







**CORE PHOTO LOG - BH C56**

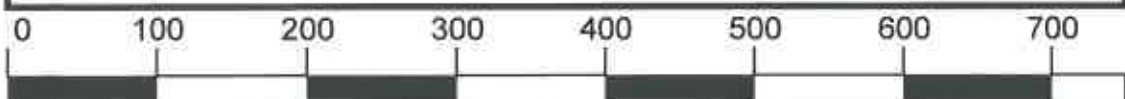
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
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SCALE 1:5

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SCALE 1:5