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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C43

SHEET 1 of 2

REFERENCE No H11132

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 11 COORDINATES 471336.9 E; 7095215.4 N

PROJECT No FG5799 SURFACE R.L. 76.40m PLUNGE          DATE STARTED 03/08/11 GRID DATUM MGA94

JOB No 232/10A/2 HEIGHT DATUM AHD BEARING          DATE COMPLETED 03/08/11 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	LOGGING WASH BORING CORE DRILLING	RCD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
0	76.40	ALGER WASH BORING CORE DRILLING	CORE REC %											
0.5	76.20				TOPSOIL: Mottled grey.									
0.8					Gravelly Clayey SILT (Residual): Grey/mottled brown, moist, minor organics.			(ML)				Based on driller's logs only		
1.0	75.70			A	SANDSTONE (XW): Exhibits engineering properties of a orange/brown, moist, fine grained, low to intermediate plasticity, very stiff to hard, moist, sandy clay.							7,10,12 N=22	SPT	
2.0				B				XW				30/80 N>50	SPT	
3.0	73.40		(0) 100 (88) 100 (0) 100 (0)		RHYOLITE (MW): Brown/orange, fine to medium grained, massive, mainly high strength.  Defects: -Quartz veining and infill throughout. -Joint at 25°-35° (2-3/m) -Joint at 60°-70° (1-2/m)  Defects are close to medium spaced. Defect surfaces are planar or irregular, tight or closed, quartz infilled, clay infilled, iron stained.			MW				Is(50) = 1.92MPa Is(50) = 2.22MPa	x o	
4.0												XW Clay Seam J, 70°, Pl, T, Cinf, FeSt  J, 60°, Pl, T, QZ  HW Contact Zone, BZ, CLy		
6.0	70.45		29 (0) 100 (0)		SILICIOUS SILTSTONE (HW): Grey/brown, fine grained, massive, very low to medium strength.  Defects: -Broken throughout -Joint at 10° (5-6/m) -Joint at 70°-75° (2-3/m)  Defects are extremely close to very closely spaced. Defect surfaces are planar, tight or open, slightly rough, clay infilled, iron stained.			HW				BZ XW Clay Seam XW Clay Seam BZ  CLy BZ		
7.0			100 (0) 100 (0) 100 (0)											
9.0	67.20		(81)		RHYOLITE (MW): Brown/mottled grey, fine to medium grained, massive, high to very high strength. Defects as above.			MW				J, 55°, Pl, C, QZ J, 55°, Pl, C, QZ J, 30°, Pl, C, QZ	Is(50) = 3.48MPa Is(50) = 1.26MPa	x o

REMARKS

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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C43

SHEET 2 of 2

REFERENCE No H11132

PROJECT Bruce Highway Upgrade (Cooroy to Curra) Section C

LOCATION Cut 11 COORDINATES 471336.9 E; 7095215.4 N

PROJECT No FG5799 SURFACE R.L. 76.40m PLUNGE DATE STARTED 03/08/11 GRID DATUM MGA94

JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 03/08/11 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	66.40												
	66.31		100										
			(0)		<b>SILICIOUS SILTSTONE (HW):</b> Grey/brown, fine grained, massive, very low strength.							XW Clay Seam	
			100		Defects:							BZ	
11	65.20		(0)		Highly broken throughout.								
			100		Borehole terminated at 11.2m								
12													
13													
14													
15													
16													
17													
18													
19													
20													

REMARKS

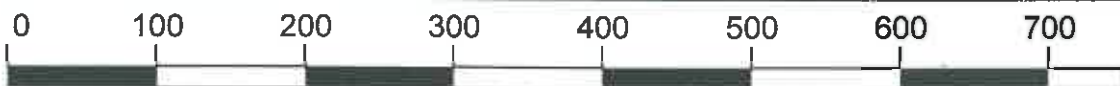
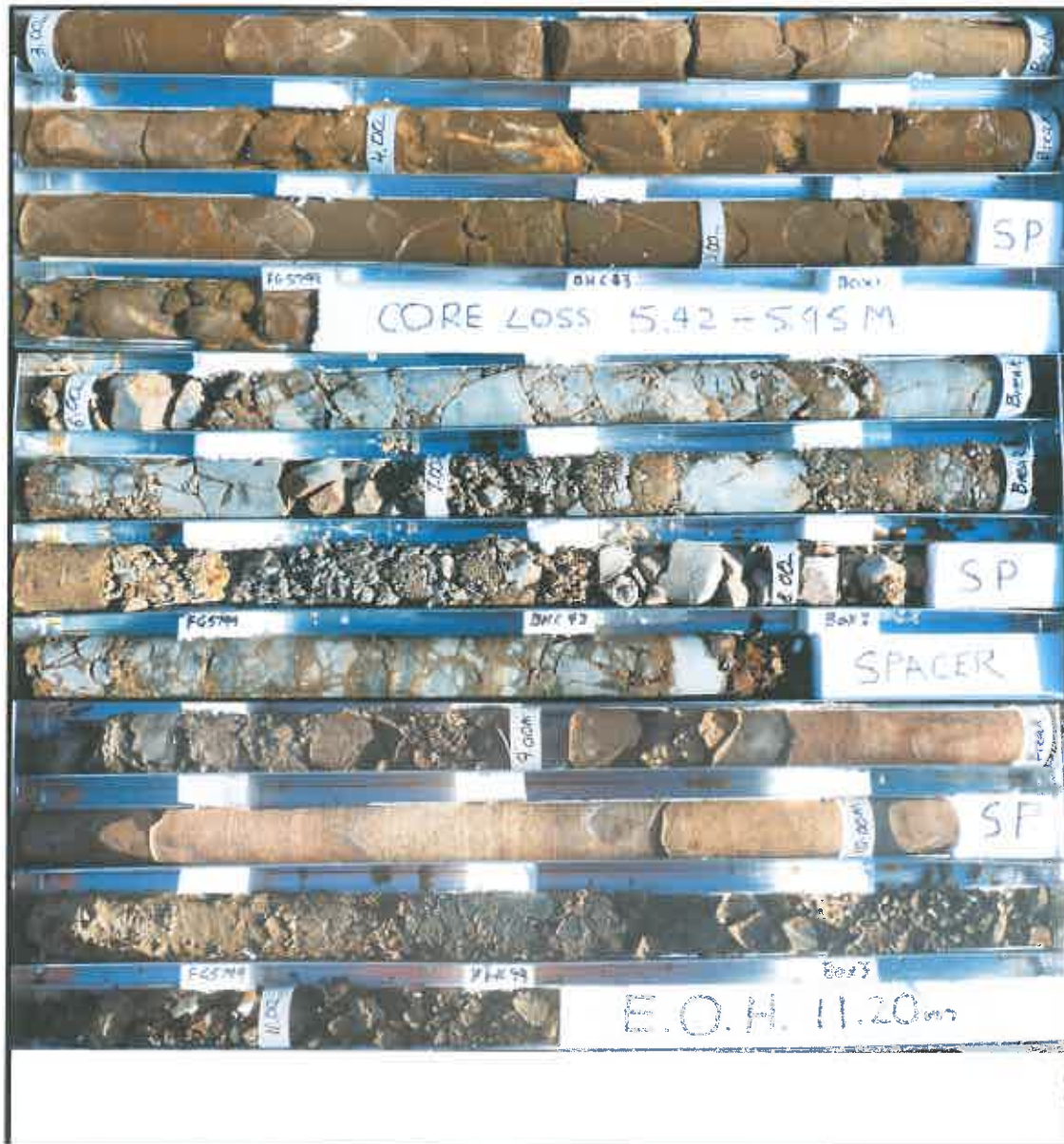
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QLD DMR LUB 01A GLB Log A ENGINEERING BOREHOLE LOG LITHOLOGY FG5799 - BRUCE HWY UPGRADE SECTION C.GPJ DWG46362.GDW Date: 03/08/11 16:28



## CORE PHOTO LOG - BH C43

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C		
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 11	Start Depth (m):	3.00
Reference No.:	H11132	Finish Depth (m):	11.20



SCALE 1:5