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# ENGINEERING BOREHOLE LOG

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

PRO.				∕ay L	Jpgrade (Cooroy to Curra) Section C					00000NATES 470856 1 F: 7096		
		_Cut 13			COORDINATES 470856.1 E; 7096424.4 N   SURFACE R.L79.00m PLUNGE DATE STARTED16/08/11 GRID DATUMMGA94						27.714	-
JOB I					HEIGHT DATUM AHD BEARING						— — — Illina Cor	ntra
				·	TECHT BATOM			INTACT DEFECT				
Œ	79.00	SING	()%		MATERIAL	≿	SING	STRENGTH SPACING (mm)	007	ADDITIONAL DATA		
DЕРТН (m)				٣	DESCRIPTION	ПТНОГОСУ	품		GRAPHIC LOG	AND	SAMPLES	Ś
o DE	70.00	AUGE CASIII MASE	CORE REC %	SAMPLE		Ę	USC WEA	0000 0000 0000 0000 0000 0000 0000 00	GRAF	TEST RESULTS	SAM	TESTS
-	78.80		INEO 70	ļ.,	TOPSOIL	7 14		+				
					SILTSTONE (HW):	××		‡				
-					Brown, fine grained.	× × × × × × ×	нw	†		Based on driller's logs only		
	70.00					× × × × × × ×					нв с	
-1	78.00			A-	SILTSTONE (MW):		1-	<del>-</del>		N	50 51	PT
-					Brown/grey, fine grained, subtly foliated, mainly high strength, indurated and/or	××		<b> </b>				
-			(9)		slightly metamorphosed.	××				— J, 80°, PI, T, S, FeSt		
					Defects:	× ×						
-2					-Highly weathered clayey zones up to 450mm.	X X				XW Clay Seam		
3					-Foliation parting at ~40°-50° (4/m)	× × × × × × × × × × × × × × × × × × ×				J, Subvertical, I, O, Clnf Is(50) = 0.12MF	a· *	x
-					-Joint at 30° (2/m) -Joint at 70°-80° (1/m)	X X					<u> </u>	
-			400		Defect spacing is generally medium.	X X				Clay Seam		
-3		-	100 (52)	-	Defect surfaces are generally planar, tight,	××						
:			, ,		smooth, clay in filled, iron stained.	***************************************					IPa :	х
-						XX				υ, το , ετ, τ <sub>ι</sub> Οππ		
						× >						
-4						× ×				— FP, 60°, PI, T, CInf — J, 15°, PI, T, CInf		
:						××				0, 10, 11, 1, 0		
-			100 (63)	ļ		XX				— XW Clay Seam		
:			(00)			X X						
-5						××				FP, 45°, PI, O, S, CInf J, 35°, PI, T, CInf		
						× > > × > × > × > × > × > × > × > × > ×						
-						××	MW			Is(50) = 2.17I	1Pa	x
							1			Is(50) = 3.43I		0
-6		-	(71)	$\vdash$		X X						
			`` ''			× X					.D.	
-						× ×					Pa P	o O
						× 3			##	1 01,752		
-7						X X				DD = 2.64t/m <sup>3</sup> ; MC = 0.	3%:	
						× ×				FP, 50°, PI, T, Clnf UCS=30.2		ICS
-		-	100 (33)	-		***************************************				— FP, 45°, Pl, T, Cinf, QZ		
			(55)			X X				FP, 55°, Pl, T, Cinf Is(50) = 2.13	1Pa	х
-8						× ×						
						X X						
-						× ×						
						××						
.9			100	_		× ×						
1			(25)			××			<del></del>	XW CLy BZ		
.						X X				Is(50) = 3.03l Is(50) = 1.93l	1Pa   1Pa	X O
-6 -7 -8 -9						***************************************						
10						× ×				HW Clayey Zone		_
R	EMARK	s <u>*Poin</u>	ı <u>t load fa</u> i	led al	long existing defect		-			_ LOGGED I	Y	



## ENGINEERING BOREHOLE LOG

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

Bruce Highway Upgrade (Coordy to Curra) Section C PROJECT COORDINATES 470856.1 E; 7096424.4 N LOCATION Cut 13\_ DATE STARTED 16/08/11 GRID DATUM MGA94 PLUNGE \_ \_ \_ \_ PROJECT No FG5799 SURFACE R.L. \_\_79.00m\_ DATE COMPLETED \_16/08/11\_ DRILLER Caims Drilling Contract HEIGHT DATUM \_AHD \_. BEARING \_\_\_\_\_ JOB No 232/10A/2 INTACT RQD R.I. NG H BORING E DRILLING STRENGTH SPACING ADDITIONAL DATA (m) ( )% -06 DEPTH (m) MATERIAL (mm) LITHOLOGY AND GRAPHIC SAMPLES SAMPLE DESCRIPTION TESTS AUGEF CASINC WASHI CORE **TEST RESULTS** REC % 10 SILTSTONE (MW): Cont'd - HW Clayey Zone 100 (35) - FP. 40°, Pl. O. S. Cinf 11.3: Colour change to grey mottled with - J, 30°, I, T, Cinf brown. ls(50) = 1.62MPa Is(50) = 2.07MPa 0 100 £ − 12 (72) DWG46352.CDW Datgel CPT Tool giNt Add-In 12/12/2011 - FP, 40°, Pl, T, Çinf 100 (29)Is(50) = 0.44MPa CLy BZ - J. 50°, Pl. O. S. Cinf 100 BRUCE HWY UPGRADE SECTION C.GPJ (79) — J, 10°, PI, O, S, C — J. 10°, PI, O, C, S Is(50) = 0.42MPa FG5799 - I DD = 2.64t/m3; MC = 1%; UCS=2.97 UCS LIB\_01A.GLB Log A ENGINEERING BOREHOLE LOG WLITHOLOGY Is(50) = 1.08MPa х Is(50) = 3.53MPa 62.00 100 Borehole terminated at 17m LOGGED BY REMARKS \*Point load failed along existing defect JA/DC

DEPARTMENT OF TRANSPORT & MAIN ROADS Geotechnical Branch 35 Butterfield Street, HERSTON Qld 4006 Phone 07 3115 3035 Fax 07 3115 3011



## **CORE PHOTO LOG - BH C50**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
Project No.:	FG5799	Date:	08/09/2011			
Details:	Cut 13	Start Depth (m):	1.50			
Reference No.:	H11137	Finish Depth (m):	17.00			





## **CORE PHOTO LOG - BH C50**

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	08/09/2011		
Details:	Cut 13	Start Depth (m):	1.50		
Reference No.:	H11137	Finish Depth (m):	17.00		

