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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C38

SHEET 1 of 2

REFERENCE No H11128

Bruce Highway Upgrade (Cooroy to Curra) Section C PROJECT 471555.0 E; 7094752.9 N LOCATION Cut 10/Woondum Rd Overpass Abut A COORDINATES PROJECT No FG5799 _____ SURFACE R.L. _ 77.90m PLUNGE _ _ _ _ DATE STARTED 01/08/11 GRID DATUM MGA94 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 01/08/11 JOB No DRILLER Drillsure Pty Ltd ____ INTACT DEFECT RQD G BORING DRILLING ()% STRENGTH SPACING ADDITIONAL DATA (m) LOG DEPTH (m) MATERIAL (mm) LITHOLOGY AND GRAPHIC SAMPLE DESCRIPTION TESTS SAMPL WEA THE WEA S CORE **TEST RESULT\$** REC % 0 77.90 A 14 TOPSOIL: Mottled grey. 77.50 Sandy SILT (Residual): Orange/brown. - Based only on driller's logs only (ML) 77.20 SANDSTONE (HW): Brown, fine grained. 30/130,30/150,30 SPT N>50 HW 75.90 Datgel CPT Tool gINt Add-In 12/12/2011 16:29 (0) SANDSTONE (HW): J. 60°, Pl. T. Cinf Is(50) = 0.31MPa Brown/orange, fined grained, massive medium strength, indurated and/or slightly Is(50) = 0.46MPa ٥ J. 40°, Pl. T. S. Cinf. metamorphosed. Defects: -Joint at 30°-40° (4/m) J. 60°, Pl. T. Cinf 100 Joint at 60° (2/m) (0) Defect spacing is very close to mainly close. ☐—XW Clayey Seam 100 Defect surfaces are planar, closed or tight, ⊐– XW Clayey Seam DWG46352.GDW smooth or clay infilled. (0)Occasional quartz seams. Broken QZ Vein SECTION C.GPJ - J. 40°, Pl. T. Cinf Is(50) = 0.84MPa Is(50) = 0.68MPa ô H\\\ FG5799 - BRUCE HWY UPGRADE 100 (9) Is(50) = 0.38MPa Is(50) = 0.18MPa ٥ DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG WLITHOLOGY Brecciated Zone 100 Is(50) = 0.57MPax (20) 100 100 (0) (0) -8 69.60 SANDSTONE (MW): Grey to slightly orange, medium to coarse 100 grained, massive, mainly high strength, (35) indurated and/or slightly metamorphosed. Defects: MW -Joint at 10° (1-2/m) -Joint at 30°-35° (3/m) -Joint at 60° (1-2/m) ls(50) = 1.65MPaX O Is(50) = 0.84MPa LOGGED BY REMARKS _____ JA/DC



ENGINEERING BOREHOLE LOG

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

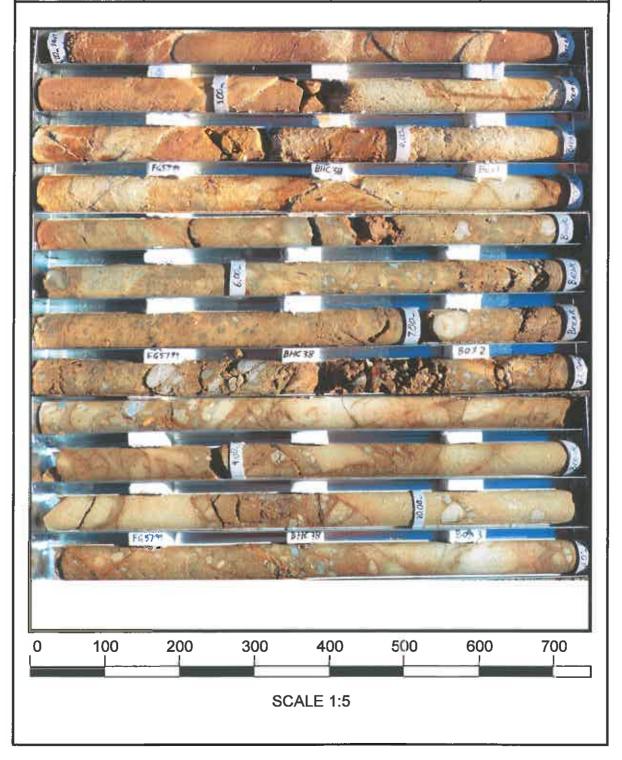
PROJECT	Bruce Highway Upgrade (Cooroy to Curra) Section C											
LOCATION									OORDINATES <u>471555.0 E; 7094752.</u>	9 N		
				SURFACE R.L77.90m PLUNGE DATE STARTED _01/08/11 GI HEIGHT DATUM _AHD BEARING DATE COMPLETED _01/08/11					td			
	_252/			TEIGHT DATOM _ALD BEAKING		<u>-</u> .				9 1799	Divident Dimonet & F	
R.L. (m)	92	RQD ()%				l c		NTACT RENGTH	DEFECT SPACING	ø	ADDITIONAL DATA	
DEPTH (m)	G BORING DRILLING		til	MATERIAL	OGY	FRIN			SPACING (mm)	GRAPHIC LOG	AND	မ္မ
OEP	ラー・・・・	CORE	SAMPLE	DESCRIPTION	LITHOLOGY	USC	┋┃ ⋚ਜ਼ੑੑੑਜ਼ੑੑੑੑੑੑ	ᅩᄝᆞᅻᆏ	88888	RAPH	TEST RESULTS	SAMPLES
10 67.90	AUGE CASIN WASH	REC %	Ś	SANDSTONE (MW): Cont'd	:::	5 3	5	I		Ø		Ø F
<u> </u>	H	(39)		Defect spacing is medium.							J, 60°, PI, T, FeSt	
F		ζ- ,		Defect Surfaces are planar or irregular, closed or tight, slightly rough, iron stained	: : :							-
E				or thinly clay infilled.	: : :						Is(50) = 2.13MPa	x :
-11 -					:::						Is(50) = 1.95MPa	0 -
E												
Εl											J, 60°, PI, O, SR, FeSt	-
F		100 (58)									J, Subvertical, Pi, T, S, FeSt	:
-12		()			:::						DD = 2.54t/m ³ ; MC = 1.2%; — J, 40°, PI, T, S, FeSt UCS=27MPa	UCS -
E]
F					::::							:
13						MW	,				ls(50) = 1.85MPa ls(50) = 2.18MPa	x -
		400			:::						HW Zone	
[-]		(24)							Щ			_
<u> </u>					: : :						J, 50°, PI, T, S, CInf	
- - 14											J, 50 , FI, 1, 5, OIIII	-
					: : :		'					:
Ė I									—		J, 50°, PI, T, S, FeSt	-
<u> </u>		100			:::						BZ, Drilling Induced?	:
15		(8)									BZ, Drilling Induced?	-
<u> </u>					:::							
F					: : :							-
61.95					:::] :
- 16 -				SANDSTONE (SW): Grey, medium grained, massive, high to			\top 1] :
[100		very high strength, indurated and/or slightly	:::				H			:
<u> </u>		(45)		metamorphosed.							J, 60°, Pl, T, S, FeSt Is(50) = 2.62MPa	×
<u> </u>				Defects: -Joint at 20° (1/m)	:::						J, 50°, Pl, O, S, FeSt Is(50) = 2.75MPa J, 50°, Pl, O, S, FeSt	٥
- 17 -				-Joint at 30° (2/m) -Joint at 60° (3/m)	1:::] :
E				, , ,	1:::]
<u> </u>				Defect spacing is mainly medium. Defect surfaces are planar, tight, slightly		SW	,					[;
18		100		rough, iron stained or thinly clay infilled.	:::				E		HW Broken Zone] -
E		(26)							Ц		J, 60°, PI, T, S, CInf	:
<u> </u>					:::] -
E											J, 30°, PI, T, S, FeSt	
19											L 60° DL C EAC] -
<u> </u>									Ц		J, 60°, PI, C, FeSt	
58.35		100		Perchala terminated at 10 FF	:::		\perp				J, 30°, PI, O, R, FeSt	-
E				Borehole terminated at 19.55m					Ė			
REMARK	l						_				LOGGED BY	
VERMIN	د دید		5.77			-					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 C38

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
Project No.:	FG5799	Date:	08/09/2011			
Details:	Cut 10	Start Depth (m):	2.00			
Reference No.:	H11128	Finish Depth (m):	19.55			





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