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ENGINEERING BOREHOLE LOG

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

BOREHOLE No __BH_C32___

SHEET __1__ of __3__

REFERENCE No __H11122___

		Bruce Highway Upgrade (Coordy to Curra) Section C											
		<u>Cut 9</u>											
					SURFACE R.L. <u>83.30m</u> PLUNGE						711 GRID DATUM MGA94		
JOB	JOB No		<u>232/10A/2</u>		HEIGHT DATUM _AHD BEARING			DATE COM	IPLETED _	<u>22/07</u>	711 DRILLER <u>Drillsure Pty</u> L	td	
o DEPTH (m)	R.L. (m)	CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
	83 20				TOPSOIL SANDSTONE (XW): Brown, slightly moist.	31/2	xw				— Based on driller's logs only	1	
-1	82.30				SANDSTONE (HW): Brown, medium grained.		HW				N>50	SPT	
- 2	81.80	4	(50)		SANDSTONE (MW): Brown, fine to medium grained, massive, medium to high strength, indurated and/or slightly metamorphosed.	× >	MV				ls(50) = 0.35MPa ls(50) = 1.77MPa	x ;	
			100 (67)		Defects: See siltstone below. SILTSTONE (MW): Brown, fine grained, massive, mainly medium strength, indurated and/or slightly	× > > > > > > > > > > > > > > > > > > >	4						
2) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			100 (57)		metamorphosed. Defects: -Joint at 15°-20° (3/m) -Joint at 40° (~2/m) -Joint at 60° (1/m) -Joint at 80° (1/m) Defects are generally close to medium spaced. Defect surfaces are planar, tight or open, smooth, clay infilled or iron stained.	l×:	**************************************					x -	
Log A ENGINEERING BOREHOLE LOG W LITHOLOGY 155/99 - BRUCE TWY			100			× × × × × × × × ×	~×××××××××××××××××××××××××××××××××××××				⇒– J, 40°, Pl, O, Clnf DD = 2.54t/m³; WD = 2.58t/m³; MC = 1.6%; UCS=20.2MPa	UCS -	
NEERING BOREHOLE LOG W.L			(51)			××××	*****				Is(50) = 0.67MPa ⇒- XW Clay Seam	-	
QLD_DMR_LIB_01A.GLB_tog_A_ENGIN	74,40		100 (58)		SANDSTONE (MW): Brown, fine to medium grained, massive, medium to high strength, indurated and/or slightly metamorphosed. (See over)	× × × ×	X X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	v			Is(50) = 1.82MPa	x ~	
	•	S Note	1 ' '	nor v	vater loss throughout borehole.		SECOND S				LOGGED BY JA/DC	-	



ENGINEERING BOREHOLE LOG

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

									OORDINATES <u>471861.5 E; 70</u> 94360.9				
						SURFACE R.L. 83.30m PLUNGE DATE STARTED					25222		
	JOB No				HEIGHT DATUM AHD BEARING				DATE COM	_			td
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORF DRILLING	COBE	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	nsc	WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
10	/3.30	11	I KEO %	-	SANDSTONE (MW): Cont'd	-	- [1					
- 11			100		Defects: -Joint at 15°-20° (3/m) -Joint at 30° (4-5/m) -Joint at 55° (1-2/m) -Joint at 70° (<1/m) -Joint at 80°-90° (~2-3/m)							DD = 2.63t/m ³ ; MC = 0.8%;	UCS
- 1			(26)		Defect spacing is generally close.	:::						UCS=67.39MPa	- 003
-12					Defect surfaces are planar, tight or open, slightly rough, clay infilled or iron stained.]_ J, 70°, C, QZ	_
-		-	100			:::				F	Ш	– BZ	_
- 13							MV	~		_		_ Highly Fractured Zone. Vertical to subvertical J's, i, T, QZ, FeSt	: - :
-			(27)			:::						Is(50) = 2.23MPa Is(50) = 1.72MPa	o _
-14												□─XW Clay Seam	-
-15 -		-	(51)]-вz	-
F "	67.00		100										-
- 17			(8)		SANDSTONE (SW): Brown/grey, fine grained, massive, generally high strength, indurated and/or slightly metamorphosed. Defects: -Joint at 10-20 (5/m) -Joint at 50-60 (~2/m) -Joint at 80-90 (~3/m)								
-18			(0) 100 (23)		Defects are generally closely spaced. Defect surfaces are irregular, tight or open, slightly rough, clay in filled or iron stained. Occasional siltstone and conglomerate beds. Conglomerate particles size up to 10mm.		sv	v				— CLy BZ	-
20												Is(50) = 1.87MPa Is(50) = 4.68MPa	x -
RE	MARK	Note:	Very mir	or w	ater loss throughout borehole.			- 1				LOGGED BY JA/DC	



ENGINEERING BOREHOLE LOG

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

Bruce Highway Upgrade (Cooroy to Curra) Section C **PROJECT** COORDINATES 471861.5 E; 7094360.9 N LOCATION _Cut 9 _ _ _ _ _ _ PROJECT No FG5799 ____ SURFACE R.L. _83.30m PLUNGE _ _ _ _ DATE STARTED _22/07/11_ GRID DATUM MGA94_ _ _ _ _ 232/10A/2 _ _ HEIGHT DATUM _ AHD _ BEARING _ _ _ _ . DATE COMPLETED _22/07/11_ DRILLER _Drillsure Pty Ltd ___ JOB No INTACT DEFECT RQD R.L AÜĞER CASING WASH BORING CORE DRILLING ADDITIONAL DATA STRENGTH SPACING ()% Ξ MATERIAL (mm) LITHOLOGY AND DEPTH SAMPLES SAMPLE TESTS DESCRIPTION TEST RESULTS CORE REC % 20 63.30 SANDSTONE (SW): Cont'd SW 62.95 100 Borehole terminated at 20.35m -21 87 - 22 92 - 22 SECTION C.GPJ DWG46352.GDW - 25 - BRUCE HWY U FG5739 -LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG WLITHOLOGY DMR LOGGED BY REMARKS Note: Very minor water loss throughout borehole. 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 C32

Project Name:	Project Name: BRUCE HIGHWAY UPGRADE - SECTION C				
Project No.:	FG5799	Date:	08/09/2011		
Details:	Cut 9	Start Depth (m):	1.50		
Reference No.:	H11122	Finish Depth (m):	20.35		

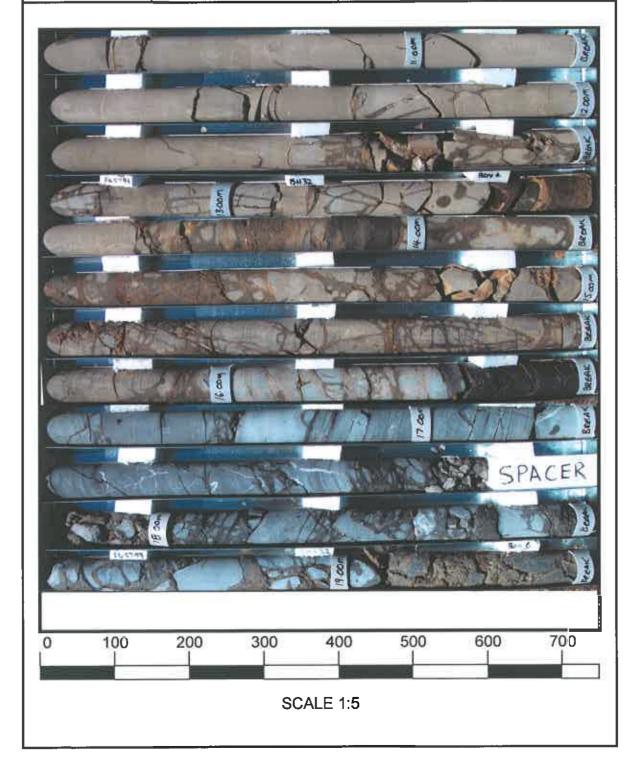


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CORE PHOTO LOG - BH C32

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
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CORE PHOTO LOG = BH C32									
Project Name:	oject Name: BRUCE HIGHWAY UPGRADE - SECTION C								
Project No.:	FG5799	Date:	08/09/2011						
Details:	Cut 9	Start Depth (m):	1.50						
Reference No.:	H11122	Finish Depth (m):	20.35						
	END OF E	BOREHOLE 20.3	5 M						