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ENGINEERING BOREHOLE LOG

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

BOREHOLE NO __BH_C27___

SHEET __1__ of __2__

REFERENCE NO __H11118___

CATION	Cut			<u>ay Q</u>	pgrade (Cooroy to Curra) Section C				cc	OORDINATES 472139.3 E; 7093551.6	N
OJECT No					SURFACE R.L. 87.00m PLUNGE _			DATE STARTED _	20/07	7/11 GRID DATUM MGA94	-
3 No	232	<u>/10/</u>	<u>4/2</u> _	. -	HEIGHT DATUM <u>AHD</u> BEARING _			DATE COMPLETED	20/07	7/11 DRILLER <u>Drillsure Pty Ltd</u>	d_
R.L. (m)	JGER SING ASH BORING	ORILING	RQD)%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	SC EATHERING	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
87.00	1 1 1 1	ŏ R	EC %	Ś	TOPSOIL: Brown.	21 1/2.	3 ≥ 		ō		ò
86.80					Sandy CLAY (Residual): Grey/brown.	1	(CL-	-	†		
86.40					SANDSTONE (HW):	//_	CI)	+	<u> </u>		
				A	Brown, fine to medium grained.		HW			Based on Driller's logs only 30/90mm N>50	
85.50			(7)		SANDSTONE (HW): Orange/brown to grey, fine to medium grained, massive, very low to low strength.	-:::				☐ J, 10°, C, Cinf☐ ☐ CLy seam, 70°	
			0.7		Defects: - Joint at 10° (4/m) - Joint at 40° (2-3/m) - Joint at 70° (2/m)					Is(50) = 1.14MPa Is(50) = 1.06MPa	
			97 (28)		Defect spacing is generally close to medium. Defect surfaces are planar, open or closed clay infilled.		HW			CLy zone Is(50) = 0.70MPa CLy zone	
82.57			100							— CLy zane — J, 10°, Ir, R, O, CInf	
			(37)		SiLTSTONE (HW): Grey/brown, fine grained, subtly foliated, very low strength. Defects: - Clayey throughout	× × × × × × × ×	нw			- CLy zone	
81.42					Defect spacing is medium.	×	× ·			CLy zone	
			100		SILTSTONE (MW): Brown to grey, fine grained, subtly foliated,	lx:	×			J, 70°, P, SR, T, FeSt	
		_	100 (53)		medium strength, indurated and/or slightly metamorphosed.	×	×			J, 15°, Pl, C, Clnf, 10mm	
					Defects: -Foliation at 40° -Joint at 10° (1/m) -Joint at 20-30° (2/m)	× × × × × × × × × × × × × × × × × × ×	XXXXX				
					-Joint at 50-60° (2/m) -Joint at 70° (3/m)	×	×			J, 70°, Un, T, Cinf	
		_	100 (84)		Defect spacing is close to medium. Defect surfaces are generally planar, tight smooth, clay infilled, iron stained.	××××	×			— J, 50°, Ir, C — J, 30°, O, R, FeSt — J, 40°, T, FeSt — J, 50°, P, C, CLy — J, 60°, C, CInf	
			100			×	XXXXX			— J, 40°, P, T, FeSt — J, 50°, P, C, Cinf — J, 50°, P, T, FeSt	
			(61)			××××	× × × × × × × × × × × × × × × × × × ×			J, 70°, C, FeSt DD = 2.38t/m³; WD = 2.44t/m³; − MC = 3.2%; UCS=3.5MPa −	Ų
					****	×	ž			,	_
REMARK	s	_=3				_				LOGGED BY	



ENGINEERING BOREHOLE LOG

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

 BOREHOLE No
 BH C27

 SHEET
 2 of 2

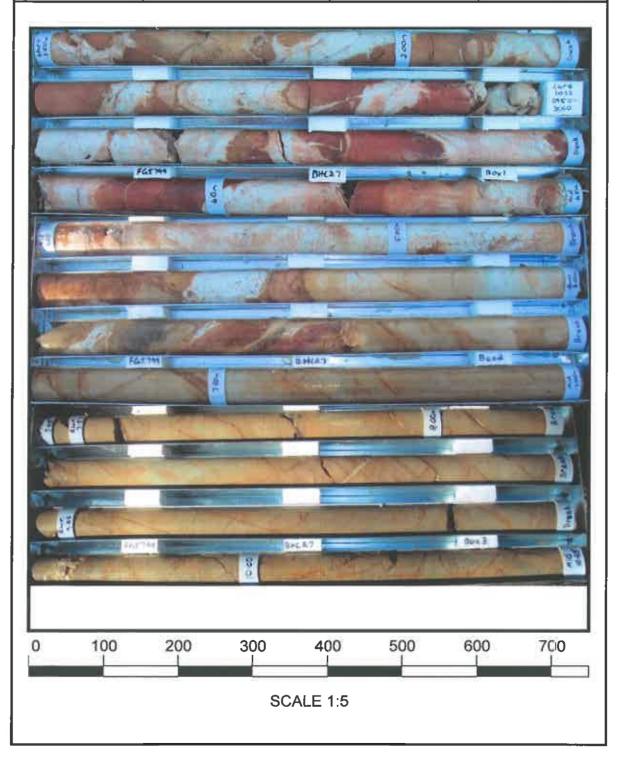
 REFERENCE No
 H11118

PRO				a <u>y</u> U	pgrade (Cooroy to Curra) Section C					.=_	OORDINATES 472139.3 E; 7093551.	
		Cut 8			CURRACE DA 97.00m BLUNCE	***	-	DATES	TARTED		711 GRID DATUM MGA94	<u> </u>
					SURFACE R.L. <u>87.00m</u> PLUNGE HEIGHT DATUM <u>AHD</u> BEARING							
JOB	I		FOR		HEIGHT DATOMAHD BEARING		 []	INTACT	DEFECT	20/01	71. Divicen Division of	
Ê	77.00	ING LING	()%		MATERIAL	>	NG NG	STRENGTH	SPACING (mm)	507	ADDITIONAL DATA	
DEPTH (m)		70 E		밀	DESCRIPTION	LITHOLOGY	뿚			GRAPHIC LOG	AND	SAMPLES
10	77.00	AUGE CASII WASI	CORE REC %	SAMPLE		ПТН	USC	╨╾┺╌⋛╓	88888	GRA	TEST RESULTS	SAMPLI
- 10	77.00				SILTSTONE (MW): Cont'd	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					J, 50°, Pl, T, FeSt	
-			100			XX						1 -
F			(16)			× × × × × × × × × × × × × × × × × × ×					J, 60°, PI, O, CInf	
-11						X X X X		4			-CLy BZ	
-						× ×					J, 10°, Cu, R, O, FeSt J, 20°, PI, S, O, FeSt]
-	ļ					X X					BZ	
- -12			100			XX]
			(35)			x x					— J, 30°, PI, S, F, FeSt]
-			100			XX						1 -
			(19)			X X	MW				J, 20°, Ir, T, FeSt	
-13						××					CLy seam	
E						× ×			臣			
F						X X					J, 10°, Pl, R, T, FeSt]
- - - 14						XX			Н		— J, 70°, C, Clnf]
F ''						x x					J, 30°, S, T, FeSt	0]
Ł I						x 3			5		J, 70°, PI, S, T, Cn J, 30°, P1, T, FeSt	
-						X X					— J, 70°, C, FeSt	
- 15 -		-	(55)	\geq		X X	× ×				J, 50°, PI, T, Cinf	-
-	71.57					×××				↓	J, 40°, PI, T, FeSt	
-					SILTSTONE (SW): Pale grey, fine grained, subtly foliated, high	× X					J, 10°, Ir, T, FeSt]
- -16					strength, indurated and/or slightly metamorphosed.	x s					J, 50°, Pl, C, FeSt]
[]					Defects:	×					J, 30°, Pl, S, O, FeSt]]
F					- Joints at 30-40° (3/m) - Joints at 50° (1/m)	X X						-
E					Defect spacing is medium.	× × × × × × × × × × × × × × × × × × ×	sw				J, 10° DD CIn2.56t/m³; WD = 2.60t/m³; MC = 2.2%; UCS=6.1MPa	UCS -
- 17					Defect surfaces are, planar, tight, smooth, iron stained.	X X	***				In/50) = 4.44MDn	-
-					non stanieu.	X X	ž		H		J, 40°, C, CLy, 5mm Is(50) = 1.94MPa	0 :
-						X X	X				— J, 40°, T, FeSt — J, 40°, T, CInf] :
- 48	69.00		100			X X					⊢ BZ	-
E					Borehole terminated at 18m				‡			
Ė									‡			-
									‡			:
19									ŧ			:
ļ									‡			
									Ŧ			1
20			<u> </u>						†			
F	REMARK	s									LOGGED BY JA/DC	
		-									- JAVDC	



CORE PHOTO LOG - BH C27

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C					
Project No.:	FG5799	Date:	06/09/2011			
Details:	Cut 8	Start Depth (m):	1.50			
Reference No.:	H11118	Finish Depth (m):	18.00			





Project Name:	BRUCE HIGHWAY UP	GRADE - SECTION C	
Project No.:	FG5799	Date:	06/09/2011
Details:	Cut 8	Start Depth (m):	1.50
Reference No.:	H11118	Finish Depth (m):	18.00
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Live 161.5. 100 mm / m.ma. of ma	11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	JAN 19	
FAST		#C/17	A P
	2	2 11/1 11 3	