COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by the Queensland Department of Transport and Main Roads under the <u>Creative Commons Attribution 4.0 Licence</u> (CC BY 4.0). When reusing the Document, in whole or in part, please attribute the Department as follows: "(c) State of Queensland (Department of Transport and Main Roads) 2020, licensed under the CC BY 4.0 Licence". This licence does not apply to the Queensland Government logo or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Departmental use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database http://qgd.org.au/



ENGINEERING BOREHOLE LOG

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

	JECT				pgrade (Cooroy to Curra) Section C									
		_Cut								-		DORDINATES		
						SURFACE R.L88.30m_ PLUNGE DATE STARTED21 HEIGHT DATUMAHD BEARING DATE COMPLETED22				D DATUM MGA94	2000			
JOB	NO	2321	10A/Z		HEIGHT DATOM _AHD _ BEARING _			UF	(TE COIVIPLI		22100	<u> </u>	DRILLER <u>Drillsure Pty</u>	
DEPTH (m)	R.L. (m) 88.30	UGER ASING VASH BORING ORF DRILLING	RQD ()%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	VH VH		EFECT PACING (mm)	GRAPHIC LOG		DITIONAL DATA AND EST RESULTS	SAMPLES
- 0			REC %	S	TOPSOIL	311/	 - -		+					W F
-	88.10 87.70				Gravelly SILT (Residual): Red/brown. SILTSTONE (HW):	×	(ML	.)				Based on D	ni ller's logs o n ly — — — -	
- - -1 -				А	Brown, fine grained.	XXX			‡				6,12,30/140m N>50	
- - - - -2						* * * * * * * * * * * * * * * * * * *	HW	ı	+					
				В		(XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		+				30/90mm N>50	
-	85.45	4	(66)		SILTSTONE (MW):		<u></u>	+-		T		 	Ts(50) = 0.60MPa	x]
-3 -			100		Grey mottled with brown, fine grained, subtly foliated, medium to high strength,	x :						XW Clay Se	earn	;
-4			100 (84)		indurated and/or slightly metamorphosed Defects: -Foliation parting at 40°-45° (~4/m) -Joint at 5°-10° (1/m) -Joint at 60° (1/m)		× × × × × × × × × × × × × × × × × × ×							1
5					Defects are generally medium spaced. Defect surfaces are generally planar, open or tight, smooth, clay infilled.	× × × × × × × × × × × × ×	× × × × × × × × × × × × × × × × × × ×					— J's, 60°, Cin	ls(50) = 1.40MPa	x _
6			(92)			×	××××××××××××××××××××××××××××××××××××××	v						7 1
						X	X					DD -	2.44t/m³; WD = 2.56t/m³	
- ₇			100			×]	MC = 4.2%; UCS=8.3MPa	UCS -
			(60)			××××	× × × × ×						Is(50) = 0.83MPa Is(50) = 1.58MPa	× -
						×××	×××					XW Clay Se	eam	
-8 -		-	100			×	ž					B <i>Z</i>		
-			(02)	Н		×	ž					T- BZ		
اديديدا						××××	XXXX							-
9 10		_	100 (82)			*************	****						Is(50) = 2.32MPa Is(50) = 0.66MPa; ⁴	x -
	EMARK	s <u>*Poir</u>	nt load fail	ed al	ong existing defect							. [LOGGED BY	
												_ [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 Cut 16 COORDINATES 470532.5 E; 7097368.0 N												
LOCATION	<u>Cut 16</u>											OORDINATES 470532.5 E; 7097368.	<u> </u>
				SURFACE R.L. <u>88.30m</u> PLUNGE _								3/11 GRID DATUM MGA94	
JOB No	232/1	U <u>A/2</u> _		HEIGHT DATUM <u>AHD</u> BEARING _			DA	TE COM	APLET	ED _	22/06	3/11 DRILLER Drillsure Pty I	<u>to</u>
R.L. (m) HLd30 78.30	AUGER CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	STF	TACT RENGTH	DEF SPAC (m	ECT CING m)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
- 10 78,30	77	INEO 70		SILTSTONE (MW): Cont'd			1			حلطہ			"
-11 -12 -13 -14 -15		100 (61) 100 (72) 100 (81) 100 (63)		SILESTONE (MAA): CONTO	X X X X X X X X X X X X X X X X X X X	MW	The state of the s					—- J, 60°, CInf □– XW Clayey Seam	
-13 -13 -14 -15 -16 -72.33		100 (91) 100 (71)		SILTSTONE (SW): Grey, fine grained, subtly foliated, medium to high strength, indurated and/or slightly metamorphosed. Defects: -Foliation parting at 40°-45° (~4/m) -Joint at 5°-10° (1/m) -Joint at 60° (~1/m) Defects are generally medium spaced. Defect surfaces are planar, open or tight, smooth, clay infilled.	X	SW						Is(50) = 1.23MPa Is(50) = 1.26MPa Is(50) = 1.26MPa DD = 2.67t/m³; MC = 1%; UCS=15.5MPa UCS=15.5MPa Is(50) = 0.79MPa Is(50) = 0.55MPa	UCS × °
	*Point I	oad faile	ed al	ong existing defect.				147				LOGGED BY	
								·				JA/DC	



ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH C56

SHEET 3 of 3

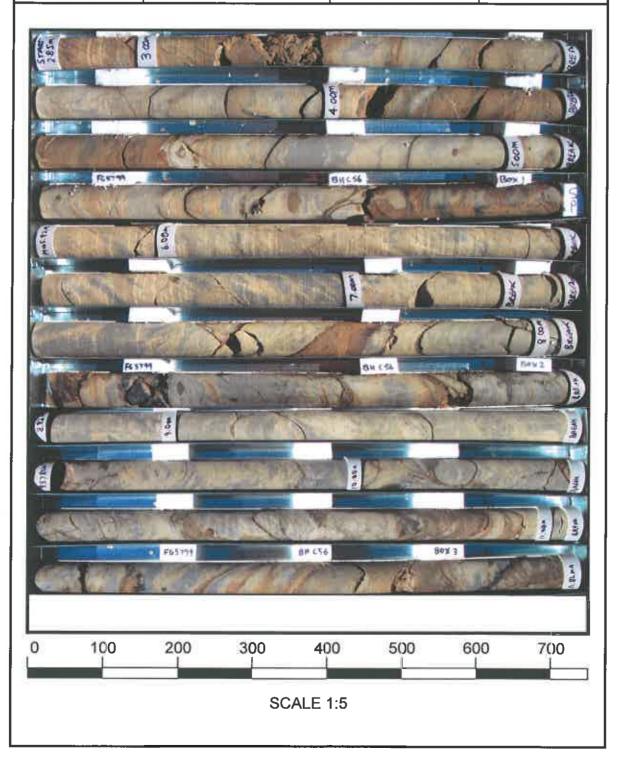
REFERENCE NO H11055

PROJECT No FG5799 SURFACE R.L. 88:30m PLUNGE DATE STARTED 21/06/11 GRID DATUM MGA94 JOB No 232/10A/2 HEIGHT DATUM AHD BEARING DATE COMPLETED 22/06/11 DRILLER Drillsure Pty Ltd. R.L. ORD RQD INTACT DEFECT STRENGTH SPACING OF ADDITIONAL DATA MATERIAL STRENGTH SPACING OF ADDITIONAL DATA	PROJECT LOCATION				lograde (Cooroy to Curra) Section C										
R.L. (m)															
MATERIAL DESCRIPTION DES	JOB No	_232/10A	<u> V2</u>		HEIGHT DATUM <u>AHD</u> BEARING _	-		DATE	СОМ	PLETED _	22/06	<u>5/11 </u>	DRILLER .	<u>Drillsure Pty L</u>	td
100	(E) HLLL (M) HLLL (B) G8.30	AUGER CASING WASH BORING CORE DRILLING) %	SAMPLE		LITHOLOGY	USC				GRAPHIC LOG		AND		SAMPLES
	- - - - - - - -				SILTSTONE (SW): Cont'd	× > > > > > > > > > > > > > > > > > > >						— Minor wate	ls(5 er loss at 20.6m	0) = 0.88MPa	x -
100 (90) Minor QZ veining Is(50) = 1.36MPa Minor QZ veining M	22	_ ⊨—	-			× × × × × × × × × × × ×	1						ls(50)	= 0.31MPa; * .	- x
Borehole terminated at 25.15m	-24 -25 -25 -25 -25 -3.15	(8	90)			* * * * * * * * * * * * * * * * * * *						- Minor QZ v	veining Is(50	D) = 1.36MPa	X
- 28 - 28 - 28 - 28 - 28 - 28 - 28 - 28	-26 -27				Borehole terminated at 25.15m					-				3	
10 1 29 10 1 10 1 10 1 10 1 10 1 10 1 10	-28 -29 -29			77.					+ + + + + + + + + + + + + + + + + + + +	-					
REMARKS *Point load failed along existing defect JA/DC		*Point load	d failed	alo	ng existing defect				T						



CORE PHOTO LOG = BH C56

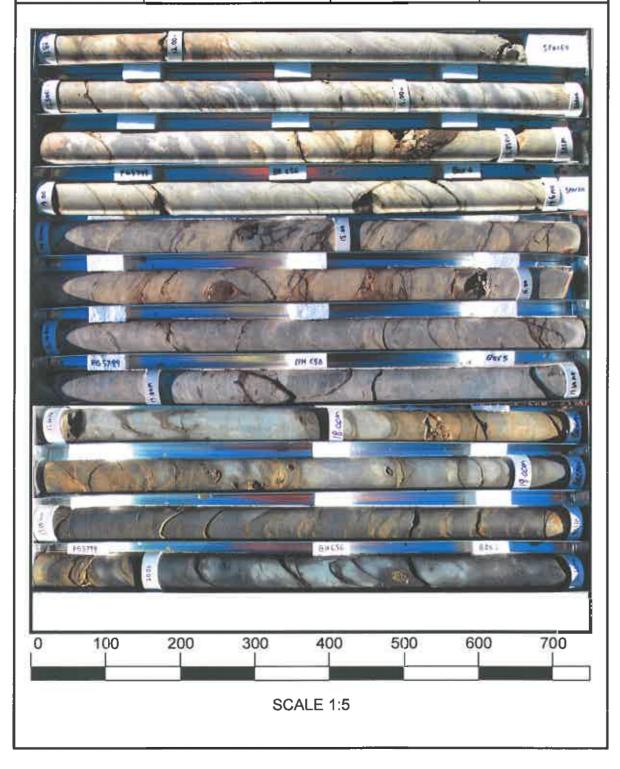
Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C						
Project No.:	FG5799	Date:	08/09/2011				
Details:	Cut 16	Start Depth (m):	2.85				
Reference No.:	H11055	Finish Depth (m):	25.15				





CORE PHOTO LOG - BH C56

Project Name:	BRUCE HIGHWAY UPGRADE - SECTION C						
Project No.:	FG5799	Date:	08/09/2011				
Details:	Cut 16	Start Depth (m):	2.85				
Reference No.:	H11055	Finish Depth (m):	25.15				





CORE PHOTO LOG - BH C56

Project Name:	BRUCE HIGHWAY UPG	GRADE - SECTION C	
Project No.:	FG5799	Date:	08/09/2011
Details:	Cut 16	Start Depth (m):	2.85
Reference No.:	H11055	Finish Depth (m):	25.15
PE 9 744	NO HOLE 5659		
0 100	200 300 4	00 500 6	00 700
	SCALE	1:5	