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ENGINEERING BORFHOLF

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No ______BH10 _____

SHEET ____1__ of ___3__

REFERENCE No _____H9773____

PROJEC					Bridge Foundation Investigation							
LOCATION AL					5.5m left (along skew) & 4.3m north of existing n					OORDINATES 497536.4 E; 7003625.7 N		
			0A/60C		SURFACE R.L <u>5.56</u> DATUM <u>AHD</u>		DATE START					
					DATOWI AND	DAT	E COMPLET	ED 21/10	0/05	DRILLER _Drillsure Pty	Ltd	
e R.	723	9 <u>8</u>	RQD ()%			0	INTACT STRENGTH	DEFECT SPACING	(2)	ADDITIONAL DATA		
DEPTH (m)		IG BORING DRILLING		ш	MATERIAL	N N	STRENGTH ボデェミュラロ	(mm)	GRAPHIC LOG	AND	ιςς.	
- B	i i	CASIN WASH CORE	CORE	SAMPLE	DESCRIPTION	USC	HE	0.0888	MAN	TEST RESULTS	SAMPLES	
0 5	5.56	(0 ≥ 0	REC %	Ś	Silty CLAY (Residual Soil):	3 3		11111	<u></u>	According to drilling supervisor's log	S E	
E					Grey-brown, moist.					above 1.0m.		
-							-	F			-	
F	4.56							Ė			:	
-1	+.00				SANDSTONE:		-			1,5,4		
					XW: Pale grey with white, red and orange mottles		-			N=9	SPT	
F	/				throughout, medium grained, extremely low to very low strength, some slightly iron cemented		-				-	
-2					bands.		-	-		w		
E					Has the soil properties of a sandy clay, moist,		1	F			-	
- 1				E4000	stiff to very stiff, medium plasticity, fine to medium grained sand.		-					
E							-			8,9,12 N=21	SPT	
-3							_	-		11-21		
E											-	
F								-			-	
E							-	-			-	
-4							-	-		7,11,11		
F										N=22	SPT	
F							-				-	
5 - 1 - 5							-	-]	
						xw					-	
ACTION OF THE AC						///]				-	
S -					Below 5.5m has the soil properties of a clayey sand, moist, medium dense to dense, fine to					3,8,8 N=16	SPT	
-6 -6					medium grained, low to medium plasticity fines.		=	-		N=10	=	
											-	
<u> </u>							-	-			-	
8							. +	-		2	-	
5 - 7 2 - 1							1			4712		
<u> </u>							1			4,7,12 N=19	SPT	
							1	-			-	
- - - 8							+]	
							1	-				
-				0.60000			1					
							‡			8,12,21 N=33	SPT	
9							‡	_		N=33		
3							#				=	
-3.	.95			+			#	-			-	
	45					HW	Ŧ				1	
10 -4. REMAR										LOGGED BY		
										A O'Rourke		
	_											



23/02/06

QLD MAIN ROADS.GDT

WIDENINGS.GPJ

BRIDGE

BOREHOLE

ENGINEERING

ENGINEERING

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

__BH10 BOREHOLE No SHEET _<u>2</u>_ of _<u>3</u>_ REFERENCE No H9773

Caboolture River Bridge Foundation Investigation **PROJECT** Abutment B - #25.5m left (along skew) & 4.3m north of existing nthbound bridge C/L LOCATION 497536.4 E; 7003625.7 N COORDINATES PROJECT No FG5439 SURFACE R.L. __5.56_ __. DATE STARTED 27/10/05 DATUM MGA94 Zone 56 JOB No 25/10A/60C DATUM _AHD __ DATE COMPLETED 27/10/05 DRILLER __Drillsure Pty Ltd____ RL RQD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA $\widehat{\Xi}$ MATERIAL (mm) AND SAMPLES DEP. DESCRIPTION CORF WEAT TEST RESULTS REC % 10 -4.45 111111111111 SANDSTONE: As above. 28,30/80. N>50 Grey, moistly iron-stained orange-brown, medium to coarse grained, very low strength, some fine gravel bands. HW Pile Tip -6.0 No sample recovery 30/80.-SPI N>50 -6.45 MW: Pale orange-brown, ironstained, medium grained, low to medium strength, occasional thin dark brown to black subhorizontal carbonaceous laminae. 13 (79)ls(50)=0.20 MPa ls(50)=0.15 MPa Rare planar subhorizontal bedding partings. MW Is(50)=0.35 MPa 14.5-14.75m: XW/HW band containing numerous black coal laminae. HW Core loss 14.75-15.05m. -9.50 - 15 (70) SW: Light grey, medium grained, medium strength, some slight pale orange ironstaining throughout rockmass above 15.83m. Defects: Numerous planar subhorizontal bedding partings. Is(50)=0.17 MPa Is(50)=0.50 MPa (76) SW CABOOLTURE R ls(50)=0.88 MPa 19 Numerous thin subhorizontal dark brown to black carbonaceous laminae below 19.55m. REMARKS LOGGED BY A O'Rourke



ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

BOREHOLE No	<u>BH10</u>			
SHEET	_3_ of _3_			
REFERENCE No	H9773			

ROD OF THE PROPERTY OF THE PRO	
SANDSTONE: SW: As above. Borehole terminated at 20.25m	

FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN Project: WHISH BRIDGES (NORTH AND SOUTHBOUND) - CABOOLTURE RIVER Borehole No: BH10 Abutment B Start Depth: 13.00m Finish Depth: 20.15m Project No: FG5439 H No: 9773 MART ISOM 119773 14 luns 1 CORE LOSS 1415-15.05 SPACER TO 3419 CATTO H WISH BROGE CARRETTURE BHID ABUTWENT B MID KEN IS SEE 113113 1800 56 5439 CADTAN WIGH BRIDGE CABOUTURE BHIO ABUTHIFAT B 18 70m MICHEN 16 YOU END OF HILE 20 ITM RG S439 CAPTON MISH BRINGE, CAGOORTHE BHID ABITHEMT B H 3773 100 200 300 400 500

SCALE 1:5

600mm

F:GEOT043/1



ROAD SYSTEM & ENGINEERING Geotechnical Branch 35 Butterfield St Herston 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 27/10/05

Feature: ABUT B

Sample Type: NMLC ROCK CORE

Report No. FG 5439/4/GS05/815AS4133.4.1

Date Tested 8/12/05

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	ls (MPa)	ls50 (MPa)	Strength Descriptor	Lithology
GS05/815-A GS05/815-B GS05/815-C GS05/815-D GS05/815-E GS05/815-F	BH10 BH10 BH10 BH10 BH10 BH10	13.07 13.09 14.38 17.03 17.06 18.82	D A A D A	0.20 0.16 0.41 0.17 0.54 0.88	0.20 0.15 0.35 0.17 0.50 0.88	L M L M	Sandstone Sandstone Sandstone Sandstone Sandstone

Sample Remarks

* D - Diametral; A - Axial; B - Block; I - Irregular;

** EL - Extremely Low; VL - Very Low; L - Low; M - Medium; H - High; VH - Very High; EH - Extremely High (taken from AS1726 Table 8A)

Remarks / Variations to Test Procedures:

 Test Method: AS4133.4.1 Software Version 2.03 April 2005

NATA

Client Name: RS&E STRUCTURES DIVISION
Client Address: PO BOX 1412 SPRING HILL 4001

Signatory

(P. Reynolds

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