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## ENGINEERING BOREHOLE

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

	ROJECT				Bridge Foundation Investigation							
			25/10A/60C									
_		20/1	<u> </u>		DATUM <u>AHD</u>	ATE COMPLETED <u>02/11/05</u> DRILLER <u>Drillsure Pty Ltd</u>						
_	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING		SAMPLE	MATERIAL DESCRIPTION	USC	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	
-	10.01				Sandy CLAY (Residual Soil):	1-1-			0		ο F	
	8.34				Dark red-brown, moist, stiff, medium plasticity, fine grained sand, some organic matter and bioturbation.  SANDSTONE:	CI				3,6,6 N=12	SPT	
F					XW:		İ					
	0				Pale grey with orange-brown and red-brown staining, fine to medium grained, extremely low strength.  Has the soil properties of a sandy clay, moist,					4,6,8 N=14	SPT	
-					stiff to hard, low to medium plasticity, fine to medium grained sand.							
3.GDT 23/02/06										9,13,21 N=34	SPT	
ALD MAIN ROADS.					Pale grey silstone band 5.5-5.8m. Some red-brown iron-cemented nodules between 5.8-5.95m.	xw	+			14,23,22 N=45	SPT	
ONE N DELICATION MAIN GENERAL MAIN ACCURATION OF THE PROPERTY					Below 7.0m has the soil properties of a clayey		1				-	
N BRIDGE W				1000	sand, moist, medium dense, fine grained sand, low to medium plasticity fines.			E 1		6,8,13 N=21	SPT	
8				46				5 10 10 20 20 20			-	
9										4,7,11 N=18	SPT	
10	0.34						<u></u>		_		=	
F	REMARKS									LOGGED BY		
	ē-									A O'Rourke		



GDT

ROADS.

MAIN F

QLD

GPJ

CABOOLTURE R BRIDGE

### **ENGINEERING BOREHOLE**

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005 BOREHOLE No \_\_\_BH20 SHEET \_ 2\_ of \_ 2

REFERENCE No H9798 Caboolture River Bridge Foundation Investigation **PROJECT** Abutment B - 14.5m right (along skew) & 6.6m north of existing sthbound bridge C/L LOCATION COORDINATES 497594.2 E; 7003652.2 N PROJECT No \_FG5439 \_ \_ \_ \_ SURFACE R.L. \_\_10.34\_\_\_ DATE STARTED 02/11/05 DATUM MGA94 Zone 56 25/10A/60C JOB No DATUM \_AHD \_\_ DATE COMPLETED \_02/11/05 DRILLER Drillsure Pty Ltd\_ RI ROD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA (m) **THERING** MATERIAL DEPTH ( AND DESCRIPTION SAMPLES CORF TEST RESULTS RFC % 10 0.34 SANDSTONE: XW: 7,11,16 SPT As above. XW -0.66 HW. Pale orange-brown, ironstained throughout. fine to medium grained, very low strength. 13.30/120. SPT HW N>50 12 -2.16 Pile Tip-2.2 MW: Orange-brown, ironstained throughout, medium grained, low to medium strength, occasional 13 30/30,-,dark brown subhorizontal laminations. No sample recovery. (97) 13.1-13.30m: Numerous silstone N>50 rip-up clasts up to 80mm in diameter. Occasional subhorizontal bedding partings. MW ls(50)=0.07 MPa ls(50)=0.17 MPa -5.06 SW: Pale grey, medium grained, medium strength, trace of orange-brown ironstaining, occasional thin subhorizontal black coal laminae and dark 15.75-15.77m: Dark brown carbonaceous band. Is(50)=0.99 MPa Is(50)=1.24 MPa 100 0 grey silstone rip-up clasts. 15.75 - 16.3m: Iron stained orange-brown 16.30-16.40m: Numerous thin black throughout. coal laminae. WIDENINGS SW 17.30-17.35m: Black vitreous coal Coarse grained below 17.6m. Defects: Occasional planar subhorizontal bedding partings. ls(50)=0.69 MPa ls(50)=0.84 MPa 18.54-18.68m: Broken zone. Numerous drilling-induced medium to high angle fractures. Numerous 0 ENGINEERING BOREHOLE 19 -8.76 100 Borehole terminated at 19.1m REMARKS LOGGED BY A O'Rourke

Project: FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN WHISH BRIDGES (NORTH AND SOUTHBOUND) – CABOOLTURE RIVER

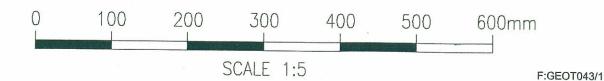
Borehole No: BH20 Abutment B

Start Depth: Finish Depth:

13.10m 18.10m

Project No: H No: FG5439 9798







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 2/11/05

Feature: ABUT B

Sample Type: NMLC ROCK CORE

Report No. FG 5439/8/GS05/819AS4133.4.1

Date Tested 9/12/05

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	ls (MPa)	ls50 (MPa)	Strength Descriptor*	Lithology *
GS05/819-A GS05/819-B GS05/819-C GS05/819-D GS05/819-E GS05/819-F	BH20 BH20 BH20 BH20 BH20 BH20	14.07 14.10 15.81 15.84 18.40 18.43	D A D A D	0.07 0.20 0.99 1.35 0.69 0.93	0.07 0.17 0.99 1.24 0.69 0.84	VL L M H M	Sandstone 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

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

(P. Reynolds)

Accreditation Number: 2302
Accredited for compliance

NATA

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Signatory ....