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# ENGINEERING BOREHOLE

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

BOREHOLE No \_\_\_\_\_BH11\_\_\_

SHEET \_\_1\_\_ of \_\_2\_\_

REFERENCE No \_\_\_\_H9788\_\_\_

	JECT No_				SURFACE R.L 3.28	[	DATE STARTE	ED _11/11	1/05	DATUM MGA94 Zone
)B	No _	25/10	)A/60C		DATUM <u>AHD</u>	DAT	E COMPLETE	D _11/11	<u> 1/05</u>	DRILLER <u>Drillsure Pty</u>
O DEPTH (m)	R.L. (m)	CASING WASH BORING CORE DRILLING	RQD ()% CORE REC%		MATERIAL DESCRIPTION	USC	INTACT STRENGTH 프子고오그것교	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA  AND  TEST RESULTS
1	1.28				Sandy CLAY (Alluvium): Brown, moist, soft to firm, medium plasticity, fine grained sand, black charcoal fragments throughout.	CI		-		1,2,2 N=4
					Clayey SAND (Alluvium): Pale brown, moist, loose, medium grained, medium plasticity fines, some black charcoal fragments and orange-brown ironstained lenses.	SC				3,3,4 N=7
	-0.32				Clayey Gravelly SAND (Alluvium): Grey-brown, moist, loose, coarse grained, fine gravel, some high plasticity grey clay bands up to 80mm thick, trace of medium gravel.					Water loss at 3.6m. 3,4,4 N=8
				0.0	Dark grey-brown, medium dense and coarser grained below 5.5m. Fine to medium gravel up to 15mm.	SP				3,8,7 N=15
					Mostly high plasticity grey clay with gravelly sand lenses between 7.0-7.45m.					3,4,4 N=8
	-4.72 -6.22				SANDSTONE: XW: Orange-brown, ironstained, medium grained, extremely low strength, grey siltstone bands throughout.  Has the soil properties of a clayey sand, moist, medium dense, medium grained, low to medium plasticity, with high plasticity grey clayey silt bands throughout.	xw				3,2,17 N=19
				1	HW:	HW	Ŧ			



### ENGINEERING BOREHOLE

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

**PROJECT** Caboolture River Bridge Foundation Investigation LOCATION Abutment A - 14.4m right (along skew) & 5.9m north of existing sthbound bridge C/L COORDINATES 497602.0 E; 7003482.2 N PROJECT No \_FG5439 \_ \_ \_ \_ SURFACE R.L. \_ 3.28 \_\_ DATE STARTED \_11/11/05 DATUM MGA94 Zone 56 JOB No 25/10A/60C DATUM \_AHD \_\_ DATE COMPLETED \_11/11/05 DRILLER \_Drillsure Pty Ltd R.L. RQD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA Œ MATERIAL (mm) AND DESCRIPTION SAMPLES CORE TEST RESULTS REC % 10 -6.72 SANDSTONE: HW: As above. -6.77(59) 30/50 -SBI No sample return. Is(50)=0.16 MPa Is(50)=0.04 MPa Is(50)=0.24 MPa Pale orange-brown, ironstained, coarse grained, low strength, occasional subhorizontal laminations. Defects: Occasional subhorizontal bedding partings.  $45^{\circ}$  planar joint. MW ls(50)=0.31 MPa 11.78m: 45° planar joint. 12 Fine grained, grey (non-ironstained) band 12.03-12.04m: Black vitreous coal 11.88-12.17m. Core loss 12.17-13.00m. (17)MW HW, very low to low strength band 13.47-13.60m. HW Core loss 13.60-14.20m. (80) Fine to medium grained with some grey (non-ironstained) bands below 14.20m. MW -11.52 23/02/06 SW: 15 Light grey, fine grained, medium to high strength, some minor orange-brown ROADS.GDT ironstaining above 15.34m. Is(50)=1.22 MPa Is(50)=0.41 MPa X Occaional subhorizontal planar bedding SW Is(50)=0.29 MPa Is(50)=0.56 MPa MAIN QLD GPJ -13.47 100 WIDENINGS. Borehole terminated at 16.75m - 17 R BRIDGE V CABOOLTURE R ENGINEERING BOREHOLE 19 REMARKS LOGGED BY A O'Rourke

Borehole No: BH11 Abutment A Start Depth: 10.00m Finish Depth: 16.75m Project No: FG5439 H No: 9788 START 10000 4059 CORE LOSS 12.17 - 13.00M FG S439 CAPTAIN WISH BRIDER ABUTMENT 17 131-111 1-1978 13M CORE LOSS 13 SPACER 14.20 M FG 5439 CAPTAIN WISH BRIDGE H9788 ABUTHIENT A BHII MID-EN 15.70M 16 16.78 W 16.75 m END OF HOLE FG 5439 CAPTAIN WITH BRIDGE ABUTMENT A BHII 3/3 H9788 200 100 300 400 500 600mm SCALE 1:5 F:GEOT043/1

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

Project:



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 11/11/05

Feature: ABUT A

Sample Type: NMLC ROCK CORE

Report No. FG 5439/3/GS05/816AS4133.4.1

Date Tested 8/12/05

San	nple nber	Sample Location	Depth (m)	Test Type D,A,B,I*	ls (MPa)	ls50 (MPa)	Strength Descriptor**	Lithology
GS0 GS0 GS0 GS0 GS0	05/816-A 05/816-B 05/816-C 05/816-D 05/816-E 05/816-F 05/816-G 05/816-H	BH11 BH11 BH11 BH11 BH11 BH11 BH11	10.07 10.25 10.28 11.52 15.51 15.57 15.83 15.86	A D A A D D	0.16 0.04 0.26 0.32 1.19 0.42 0.29 0.66	0.16 0.04 0.24 0.31 1.22 0.41 0.29 0.56	L VL L M H M L	Sandstone Sandstone 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

Signatory

(P. Reynolds)

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