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**Queensland  
Government**

Department of  
Main Roads

# ENGINEERING BOREHOLE

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

BOREHOLE No     BH5    

SHEET     2     of     2    

REFERENCE No     H9785    

PROJECT     Caboolture River Bridge Foundation Investigation    

LOCATION     Pier 4 - 14m left (along skew) of existing northbound bridge C/L     COORDINATES     497553.5 E; 7003521.8 N    

PROJECT No     FG5439     SURFACE R.L.     4.20     DATE STARTED     08/11/05     DATUM     MGA94 Zone 56    

JOB No     25/10A/60C     DATUM     AHD     DATE COMPLETED     08/11/05     DRILLER     Drillsure Pty Ltd    

DEPTH (m)	R.L. (m)	AUGER Casing WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
							EH	VH	H	M	J	VL				
10	-5.80				<b>SANDSTONE:</b> HW: As above. Defects: Subhorizontal bedding partings and joints, 60° irregular joint. Core loss 10.40-10.90m.	HW										
11	-6.70		71		<b>MW:</b> Pale orange-brown, ironstained throughout, medium grained, medium strength, occasional coarse grained bands of fine gravel, occasional bands with brown silt- stone rip-up clasts, and black coal laminae. Defects: Subhorizontal bedding partings and joints.	MW								11.31-11.38m: Numerous thin black coal laminae. 11.16-12.1m: Numerous brown siltstone rip-up clasts.	Is(50)=0.38 MPa Is(50)=0.37 MPa	x o
13	-9.00		81		Core loss 12.52-12.90m.	MW										
14					<b>SW:</b> Light grey, medium grained, medium-high strength, occasional coarse grained bands and black coal bands up to 5mm thick. Defects: Subhorizontal bedding partings and joints.	SW								13.74-13.84m: Broken zone. Conglomerate band.	Is(50)=1.10 MPa Is(50)=1.15 MPa	x o
15	-10.95		100		Borehole terminated at 15.15m	SW										
16																
17																
18																
19																
20																

REMARKS

LOGGED BY  
A O'Rourke



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

Borehole No: BH5 Pier 4

Start Depth: 9.20m

Finish Depth: 15.15m

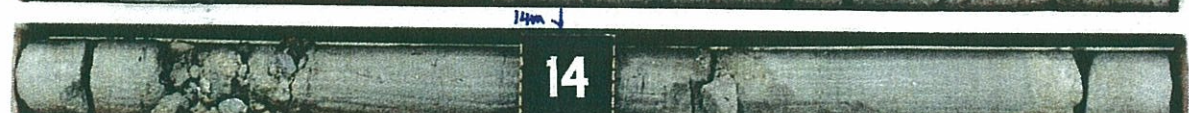
Project No: FG5439

H No: 9785

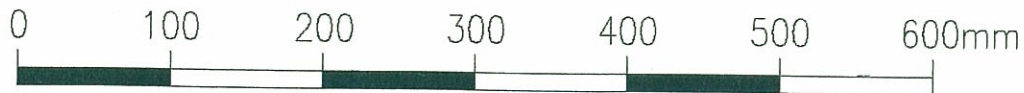
START 9.20m



FG 5439 CAPTAIN WHISH BRIDGE PIER 4 BHS H9785 1/2 MID-RUN 12.20m ↑  
MID-RUN 12.20m 12.20m ↓



FG 5439 CAPTAIN WHISH BRIDGE PIER 4 BHS H9785 2/2 END of HOLE 15.15m ↑



SCALE 1:5

F:GEOT043/1

# Point Load Strength Index - Test Report

**Project: CABOOLTURE RIVER BRIDGE**

**Project No: FG 5439**

**Date Sampled 8/11/05**

**Date Tested 6/12/05**

**Feature: PIER 4**

**Sample Type: NMLC ROCK CORE**

**Report No. FG 5439/1/GS05/806/AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/806-A	BH5	9.26	D	0.17	0.17	L	Sandstone
GS05/806-B	BH5	9.28	A	0.34	0.29	L	Sandstone
GS05/806-C	BH5	12.27	D	0.38	0.38	M	Sandstone
GS05/806-D	BH5	12.30	A	0.45	0.37	M	Sandstone
GS05/806-E	BH5	14.44	D	1.10	1.10	H	Sandstone
GS05/806-F	BH5	14.47	A	1.36	1.15	H	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

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

Signatory  6/12/05  
( Peter Reynolds )



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