Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH20
SHEET 1 of 2
REFERENCE No H9798

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Abutment B - 14.5m right (along skew) & 6.6m north of existing sthbound bridge C/L
COORDINATES 497594.2 E; 7003652.2 N
PROJECT No FG5439 SURFACE R.L. 10.34 DATE STARTED 02/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 02/11/05 DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES / TESTS
0	10.34				**Sandy CLAY (Residual Soil):** Dark red-brown, moist, stiff, medium plasticity, fine grained sand, some organic matter and bioturbation.	CI					3,6,6 N=12	SPT
2	8.34				**SANDSTONE:** XW: 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, stiff to hard, low to medium plasticity, fine to medium grained sand.						4,6,8 N=14	SPT
4											9,13,21 N=34	SPT
5					Pale grey silstone band 5.5-5.8m.						14,23,22 N=45	SPT
6					Some red-brown iron-cemented nodules between 5.8-5.95m.	XW						
7					Below 7.0m has the soil properties of a clayey sand, moist, medium dense, fine grained sand, low to medium plasticity fines.						6,8,13 N=21	SPT
9											4,7,11 N=18	SPT
10	0.34											

ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT 23/02/06

REMARKS

LOGGED BY
A O'Rourke

Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH20
SHEET 2 of 2
REFERENCE No H9798

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Abutment B - 14.5m right (along skew) & 6.6m north of existing sthbound bridge C/L
COORDINATES 497594.2 E; 7003652.2 N
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DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
10	0.34				**SANDSTONE:** XW: As above.	XW					7,11,16 N=27	SPT	
11	-0.66				HW: Pale orange-brown, ironstained throughout, fine to medium grained, very low strength.	HW					13,30/120,- N>50	SPT	
12	-2.16				MW: Orange-brown, ironstained throughout, medium grained, low to medium strength, occasional dark brown subhorizontal laminations. Defects: Occasional subhorizontal bedding partings.	MW					Pile Tip -2.2		
13			(97)								No sample recovery. 13.1-13.30m: Numerous silstone rip-up clasts up to 80mm in diameter.	30/30,-,- N>50	SPT
14											Is(50)=0.07 MPa Is(50)=0.17 MPa	x o	
15	-5.06				SW: Pale grey, medium grained, medium strength, trace of orange-brown ironstaining, occasional thin subhorizontal black coal laminae and dark grey silstone rip-up clasts. 15.75 - 16.3m: Iron stained orange-brown throughout.	SW					15.75-15.77m: Dark brown carbonaceous band. Is(50)=0.99 MPa Is(50)=1.24 MPa	x o	
16			100 (94)								16.30-16.40m: Numerous thin black coal laminae.		
17											17.30-17.35m: Black vitreous coal laminae.		
18					Coarse grained below 17.6m. Defects: Occasional planar subhorizontal bedding partings.						Is(50)=0.69 MPa Is(50)=0.84 MPa	x o	
19	-8.76		100								18.54-18.68m: Broken zone. Numerous drilling-induced medium to high angle fractures. Numerous siltstone rip-up clasts.		
20					Borehole terminated at 19.1m								

REMARKS

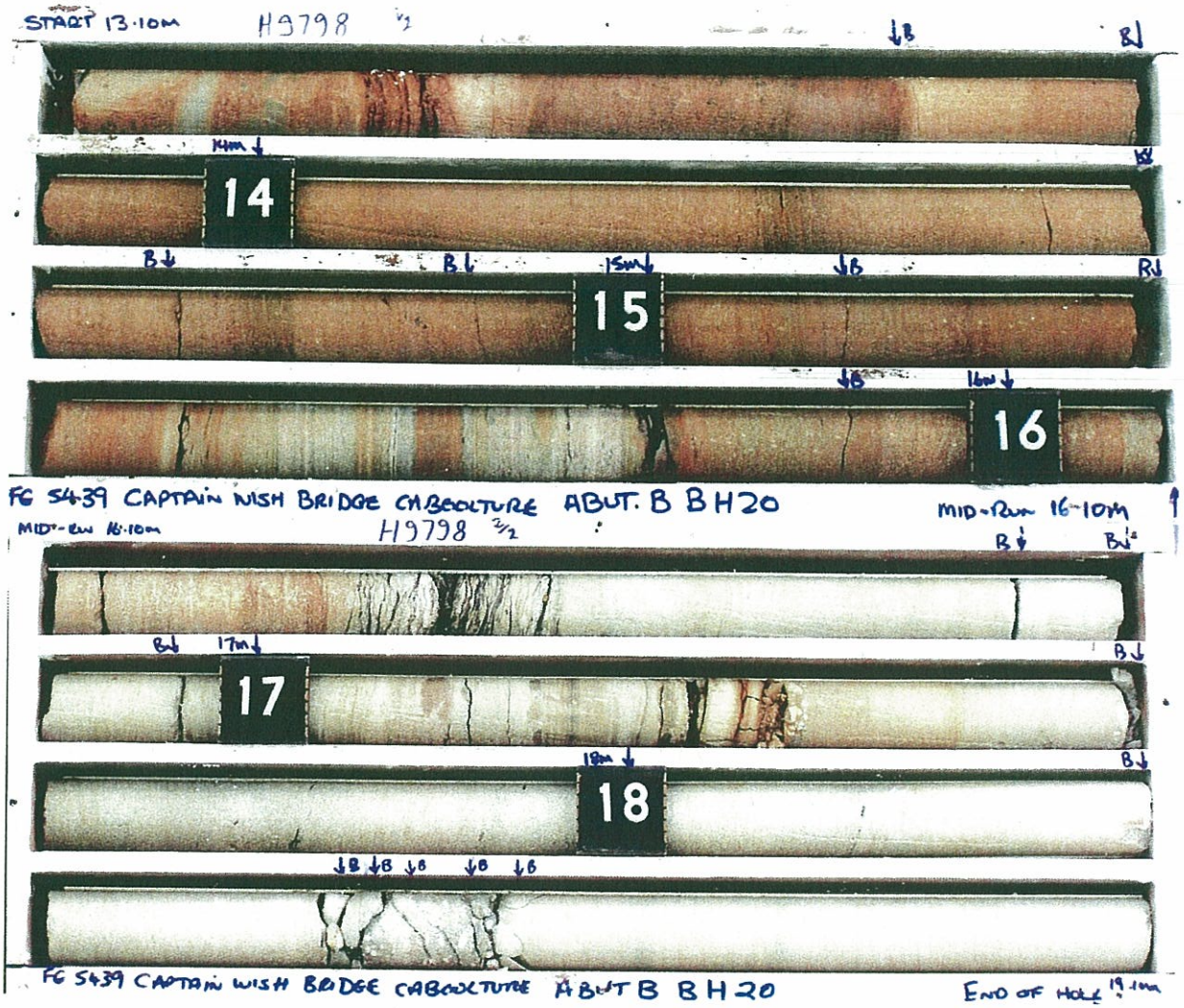
LOGGED BY
A O'Rourke

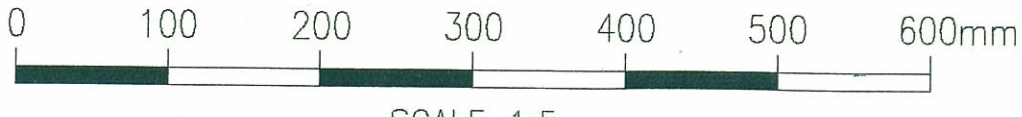
ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT 23/02/06

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

Borehole No: **BH20 Abutment B**

Start Depth: 13.10m
Finish Depth: 18.10m
Project No: FG5439
H No: 9798





SCALE 1:5

F:GEOT043/1

Queensland Government
Department of Main Roads

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

Date Tested 9/12/05

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

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/819-A	BH20	14.07	D	0.07	0.07	VL	Sandstone
GS05/819-B	BH20	14.10	A	0.20	0.17	L	Sandstone
GS05/819-C	BH20	15.81	D	0.99	0.99	M	Sandstone
GS05/819-D	BH20	15.84	A	1.35	1.24	H	Sandstone
GS05/819-E	BH20	18.40	D	0.69	0.69	M	Sandstone
GS05/819-F	BH20	18.43	A	0.93	0.84	M	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:

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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 19/12/05
(P. Reynolds)

NATA ACCREDITED FOR TECHNICAL COMPETENCE

Accreditation Number: 2302
Accredited for compliance with ISO/IEC 17025

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