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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 BH2
SHEET 1 of 2
REFERENCE No H9782

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 1 - 14.6m (along skew) left of existing northbound bridge C/L COORDINATES 497555.1 E; 7003472.5 N
PROJECT No FG5439 SURFACE R.L. 4.18 DATE STARTED 03/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 07/11/05 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	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	4.18					Sandy CLAY (Alluvium): Brown, mottled.					According to Drilling Supervisor's log above 1.0m.	
1	3.48					Clayey SAND (Alluvium): Pale orange-brown, moist, loose, fine to coarse grained, trace of fine angular gravel, some low to medium plasticity fines.						2,2,3 N=5 SPT
2						Fine to medium grained and more clayey below 2.0m.	SC					
3												3,3,4 N=7 SPT
4	0.08					Silty CLAY (Alluvium): Grey-brown, moist, soft to firm, high plasticity, trace of orange-brown ironstained lenses. Firm to stiff below 4.5m.	CH				S _u = 57 kPa (PP)	2,2,2 N=4 SPT
5	-1.22											
6						Clayey Gravelly SAND (Alluvium): Grey-brown, moist, loose, coarse grained sand, fine angular gravel, high plasticity grey clay fines.	SP					2,1,5 N=6 SPT
7	-2.32					Gravelly SAND (Alluvium): Brown, moist, medium dense, medium to coarse grained sand, fine to medium angular gravel up to 15mm, some low to medium plasticity brown fines.						5,8,7 N=15 SPT
8						Less sand content and increased gravel content with depth.						
9						Gravel up to 20mm maximum size towards base of unit.	SP					7,3,3 N=6 SPT
10	-5.32					SANDSTONE: HW: Greenish-grey, fine grained, very low strength.	HW					
	-5.82											

REMARKS

LOGGED BY
A O'Rourke



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BOREHOLE No BH2

SHEET 2 of 2

REFERENCE No H9782

PROJECT Caboolture River Bridge Foundation Investigation

LOCATION Pier 1 - 14.6m (along skew) left of existing northbound bridge C/L

COORDINATES 497555.1 E; 7003472.5 N

PROJECT No FG5439

SURFACE R.L. 4.18

DATE STARTED 03/11/05

DATUM MGA94 Zone 56

JOB No 25/10A/60C

DATUM AHD

DATE COMPLETED 07/11/05

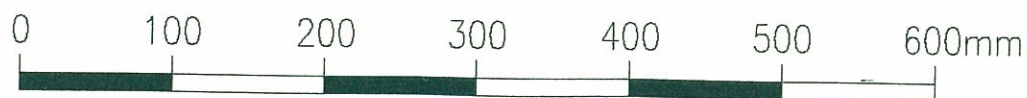
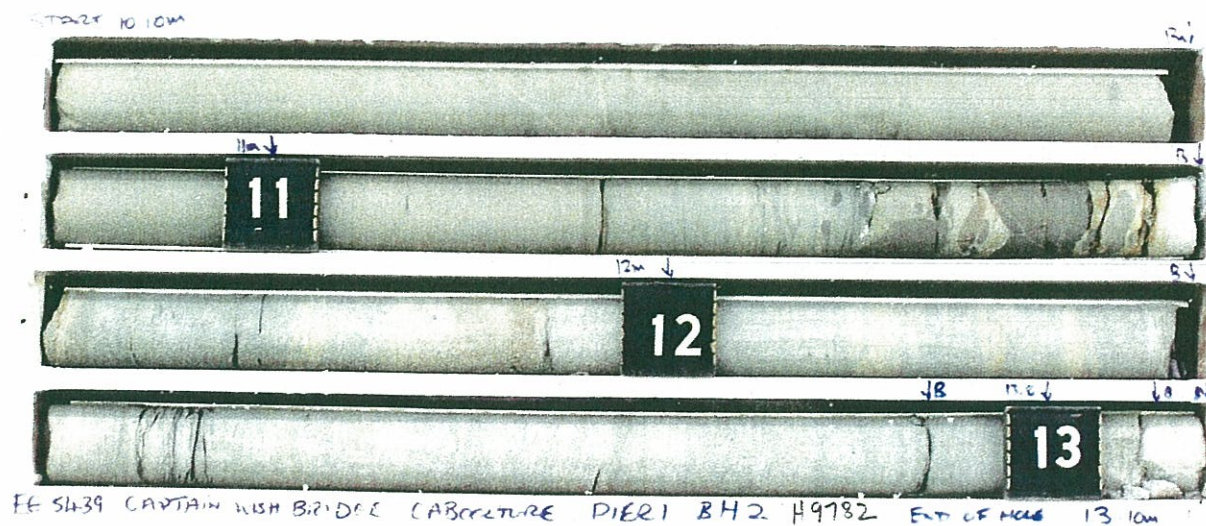
DRILLER Drillsure Pty Ltd

DEPTH (m)	R.L. (m)	ALGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
10	-5.82											
	-5.92					SANDSTONE: HW: As above SW: Grey, fine to medium grained, medium to high strength, trace of fine gravel sized dark grey siltstone rip up clasts and ironstaining through the rockmass, occasional thin (<1mm) dark grey siltstone laminations, generally massive.	SW				<i>Pile tip -6.0</i> 30/40, N>50 Is(50)=0.82 MPa Is(50)=1.30 MPa	SPT x o
11	-7.20					MW: Light grey, medium to coarse grained, low to medium strength, some dark brown to black carbonaceous laminations up to 3mm thick, trace of fine angular gravel, some ironstaining throughout rockmass.	MW				11.21m: Subhorizontal bedding parting, planar, smooth, ironstained. 11.36-11.60m: Conglomerate band with dark grey siltstone rip up clasts, ironstaining. Is(50)=0.23 MPa Is(50)=0.53 MPa	x o
12						Defects: Subhorizontal bedding laminations and partings throughout.					12.41-12.46m: Numerous dark brown carbonaceous laminae.	
13	-8.92		100			Borehole terminated at 13.1m					Is(50)=0.13 MPa Is(50)=0.21 MPa	x o
14												
15												
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: BH2 Pier 1
Start Depth: 10.10m
Finish Depth: 13.10m
Project No: FG5439
H No: 9782



SCALE 1:5

F:GEOT043/1



Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 7/11/05

Feature: PIER 1

Sample Type: NMLC ROCK CORE

Date Tested 30/11/05

Report No. FG 5439/10/GS05/785AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/785-A	BH2	10.18	D	0.82	0.82	M	Sandstone
GS05/785-B	BH2	10.20	A	1.37	1.30	H	Sandstone
GS05/785-C	BH2	11.78	D	0.23	0.23	L	Sandstone
GS05/785-D	BH2	11.80	A	0.58	0.53	M	Sandstone
GS05/785-E	BH2	12.98	D	0.13	0.13	L	Sandstone
GS05/785-F	BH2	13.00	A	0.22	0.21	L	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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