Queensland Government
Department of Main Roads

ENGINEERING BOREHOLE

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

BOREHOLE No BH6
SHEET 1 of 2
REFERENCE No H9786

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 5 - 14.1m left (along skew) of existing northbound bridge C/L
COORDINATES 497552.7 E; 7003538.1 N
PROJECT No FG5439 SURFACE R.L. 4.57 DATE STARTED 09/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 09/11/05 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	4.57				**Clayey SAND (Alluvium):** Brown, moist, loose, fine to medium grained, some low plasticity fines, some organic matter.						2,3,3 N=6	SPT
1												
2						SC					4,4,5 N=9	SPT
3					Grey-brown and more medium plasticity clay fines below 3.5m. Some dark orange-brown ironstained lenses and some organic matter throughout.							
4											2,3,3 N=6	SPT
5	-0.43				**SAND (Alluvium):** Brown, moist, loose to medium dense, coarse grained, occasional high plasticity grey clay bands, trace of fine gravel up to 5mm.	SP					5.0m: Water loss	
6	-1.93				**Gravelly SAND (Alluvium):** Pale brown, moist, loose, coarse grained, fine gravel up to 6mm.						2,4,6 N=10	SPT
7						SP					4,3,4 N=7	SPT
8	-3.83				**SANDSTONE:** HW: Orange-brown, ironstained, medium grained, very low strength, subhorizontal bedding laminations visible.	HW					30/110,-,- N>50	SPT
9												
10	-5.43										Pile Tip - 5.5 30/40,-,-	

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 BH6
SHEET 2 of 2
REFERENCE No H9786

PROJECT Caboolture River Bridge Foundation Investigation
LOCATION Pier 5 - 14.1m left (along skew) of existing northbound bridge C/L
COORDINATES 497552.7 E; 7003538.1 N
PROJECT No FG5439 SURFACE R.L. 4.57 DATE STARTED 09/11/05 DATUM MGA94 Zone 56
JOB No 25/10A/60C DATUM AHD DATE COMPLETED 09/11/05 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
10	-5.43												
	-5.53		(88)		**SANDSTONE:** HW: As above.		HW				Pile Tip -5.5 N>50		SPT
11					MW: Orange-brown, ironstained, a few light grey (non-ironstained) bands, medium grained, low to high strength, occasional coarse grained bands, thin dark brown subhorizontal carbonaceous laminae and black coal laminae, occasional bands containing grey-brown siltstone rip-up clasts. Defects: Numerous subhorizontal bedding partings and low angle joints. Rare 50-60° irregular joints.						Is(50)=0.06 MPa Is(50)=0.38 MPa 11-11.28m: Iron cemented band. Is(50)=1.06 MPa Is(50)=1.19 MPa	x o x o	
12							MW						
13	-8.53		100								12.58-13.10m: Numerous moderate to high angle drilling induced fractures.		
			(91)		SW: Light grey, medium to coarse grained, medium to high strength, occasional black coal laminae and bands up to 30mm thick, fairly massive. Defects: Occasional subhorizontal bedding partings. Rare 60-70° irregular joints.						Is(50)=0.39 MPa Is(50)=0.51 MPa	x o	
14													
15							SW						
16	-11.53		100								15.56-15.90m: Numerous moderate to high angle drilling induced fractures.		
					Borehole terminated at 16.1m								
17													
18													
19													
20													

REMARKS

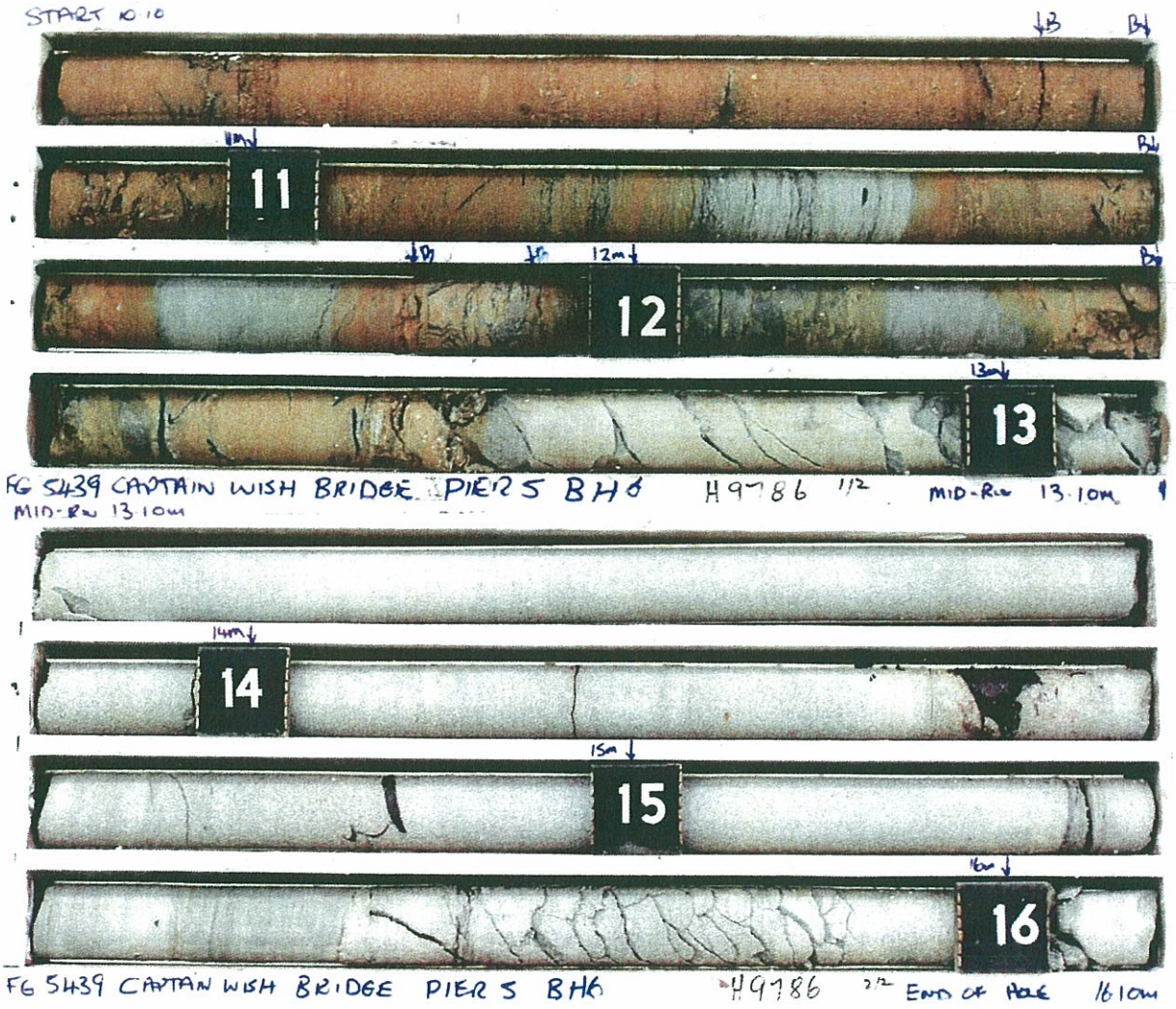
LOGGED BY
A O'Rourke

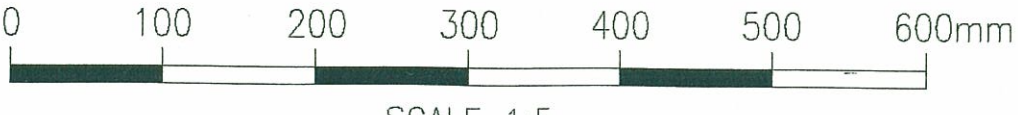
ENGINEERING BOREHOLE CABOOLTURE R BRIDGE WIDENINGS.GPJ QLD MAIN ROADS.GDT 23/02/06

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

Borehole No: **BH6 Pier 5**

Start Depth: 10.10m
Finish Depth: 16.10m
Project No: FG5439
H No: 9786





SCALE 1:5

F:GEOT043/1

Queensland Government
Department of Main Roads

Road System & Engineering
35 Butterfield Street
Herston Qld 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE
Project No: FG 5439

Date Sampled 9/11/05
Feature: PIER 5
Sample Type: NMLC ROCK CORE

Date Tested 6/12/05

Report No. FG 5439/1/GS05/801/AS4133.4.1

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS05/801-A	BH6	10.30	D	0.06	0.06	VL	Sandstone
GS05/801-B	BH6	10.33	A	0.42	0.38	M	Sandstone
GS05/801-C	BH6	11.15	D	1.07	1.06	H	Sandstone
GS05/801-D	BH6	11.18	A	1.38	1.19	H	Sandstone
GS05/801-E	BH6	13.18	D	0.39	0.39	M	Sandstone
GS05/801-F	BH6	13.21	A	0.57	0.51	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:

,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,
,,,,,,,,,,,,,,,

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 6/12/05

(Peter Reynolds)

NATA ACCREDITED FOR TECHNICAL COMPETENCE

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

This document is issued in accordance with NATA's accreditation requirements.