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ENGINEERING BOREHOLE

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

	ATION	_Pier	<u>2 - 15.2</u>	2m_riç	<u>ght (along skew) of existing southbound bridge C</u>				OORDINATES 497603.4 E; 7003510	. <u>0 N</u>
					SURFACE R.L2.53		DATE STARTED _16/1			<u> 56</u>
OB	No	<u>25/</u> 1	0A/60C		DATUM AHD	DAT	E COMPLETED _16/1	1/05	DRILLER _Drillsure Pty	Ltd_
O DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING	RQD ()% CORE REC%	SAMPLE	MATERIAL DESCRIPTION	USC	INTACT DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES
					Sandy CLAY (Alluvium): Brown, slightly moist, stiff, medium plasticity, fine grained sand, some silt, some organic matter including plant roots, and visible bioturbation.	CI			4,6,6 N=12	
3	-0.08			-	Clayey SAND (Alluvium): Dark grey, moist, very loose, fine to medium grained, medium plasticity, lots of organics including black decomposed plant matter, some orange ironstaining.	SC			1,1,1 N=2	3
					Highly organic layer at 3.5-3.6m, possibly an old tree intersected. Clayey Gravelly SAND (Alluvium): Pale grey-brown, moist, loose to medium dense, medium to coarse grained, fine gravel up to 6mm, some medium plasticity brown clay, trace of medium gravel.	SP			3,5,5 N=10	·
	-2.48				Gravelly SAND (Alluvium): Grey-brown, wet, loose, coarse grained, fine gravel up to 4mm.	SP	+		2,3,3 N=6	,
	-3.68				Sandy GRAVEL (Alluvium): Grey-brown, wet, loose, fine to medium gravel up to 10mm, coarse grained sand.	GP	+		0.20/00	
				1 6	SANDSTONE:		‡		9,30/80,- N>50	S
	-5.78				HW:	HW	‡ ‡			
	20				MW:				Very hard to drill from 8.3m. No sample recovered. 30/50,-,- N>50	=\$
	-7.48					MW		\	PileTip-7.0	
REM	1ARKS								LOGGED BY	
									A O'Rourke	



ENGINEERING BOREHOLE

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

SANDSTONE: As above. Page gray, medium agrained, medium shorough, need of orange-brown toonsabloing in places, consistent and of dark gray sitistone rep-up clasts and thin black coal laminae, occasional band of dark gray sitistone rep-up clasts. Defects: Occasional subhorizontal bedding partings. To ² irregular joint. SW WM SW Core loss 12.43-13.0m (left down hole). Borehole terminated at 13m Borehole terminated at 13m		JECT				Bridge Foundation Investigation							
JOB No. 2519A60C DATUM AND DATE COMPLETED 10110S DRILLER Dillips Py LO Read 115 Read													
RL (W) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S													
STEAM PROPERTY OF THE PROPERTY	100		_25/10	DAVOUC		DATUM _AHD	DAT	E COMPLET	ED <u>16/1</u>	1/05	DRILLER Drillsure Pty I	_td	
SANDSTONE: As above. Service of corresponding present in places, consistent of the property o		(m)	TÚGER SASING WASH BORING SORE DRILLING	()%	SAMPLE		SC	STRENGTH	SPACING (mm)	RAPHIC LOG	AND	SAMPLES	
Pelle groy, medium grained, medium strength, switch and proceed of arrange-horn increating in places, occasional bands of dark gray sitistone rip-up dasts and thin black coal laminae, occasional low strength MW bends. Defects: Occasional subhorizontal bedding partings. 70" irregular joint. Core loss 12.43-13.0m (left down hole). Barehole torminated at 13m Barehole torminated at 13m	10	-7.48	11	(54)	o)	SANDSTONE: As above.	5 3		11111	Ö	Io/50\=0.40 MDo		
10. 10.48 81 Core loss 12.43-13.0m (left down hole). 10. 10.48 81 Borehole terminated at 13m 11. 10. 10. 10. 10. 10. 10. 10. 10. 10.						Pale grey, medium grained, medium strength, trace of orange-brown ironstaining in places, occasional bands of dark grey siltstone rip-up clasts and thin black coal laminae, occasional low strength MW bands. Defects: Occasional subhorizontal bedding partings	MW SW MW SW				Is(50)=0.62 MPa Is(50)=0.24 MPa 11.57-11.85m: Conglomerate band containing grey siltstone rip-up clasts.	0	
10.48 8 81 / Borehole terminated at 13m 14	F				7		SVV	-	_		ls(50)=0.58 MPa		
Borehole terminated at 13m 14 15 16 17 18 19 10 10 10 10 10 10 10 10 10	E	-10.49		04	X	Core loss 12.43-13.0m (left down hole).							
REMARKS	-15 -16 -17 -18 -19												
LOGGED BY											A O'Rourke		

Project:

FOUNDATION INVESTIGATION FOR THE WIDENING OF THE CAPTAIN

WHISH BRIDGES (NORTH AND SOUTHBOUND) - CABOOLTURE RIVER

Borehole No: BH13 Pier 2

Start Depth:

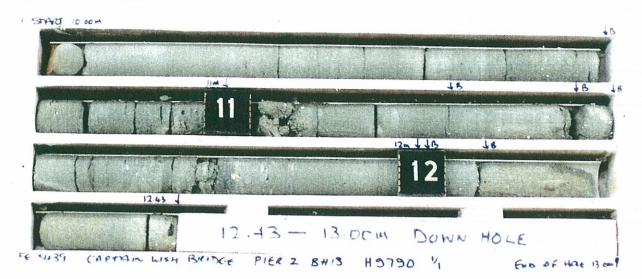
10.00m

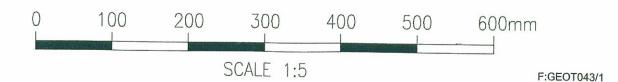
Finish Depth: Project No:

13.00m FG5439

H No:

9790







ROAD SYSTEM & ENGINEERING Geotechnical Branch Butterfield St Herston QLD 4006

Point Load Strength Index - Test Report

Project: CABOOLTURE RIVER BRIDGE

Project No: FG 5439

Date Sampled 16/11/05

Feature: PIER 2

Sample Type: NMLC ROCK CORE

Report No. FG 5439/12/GS05/821AS4133.4.1

Date Tested 14/12/05

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	ls (MPa)	ls50 (MPa)	Strength Descripto	Lithology r**
GS05/821-A GS05/821-B GS05/821-C GS05/821-D GS05/821-E	BH13 BH13 BH13 BH13 BH13	10.12 10.16 10.98 12.29 12.32	D A A D A	0.50 0.69 0.27 0.36 0.66	0.49 0.62 0.24 0.35 0.58	M M L M	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.REYNOLOS)

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