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ENGINEERING

ENGINEERING

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005 BOREHOLE No ___BH5___ _ <u>1</u> _ of _ <u>2</u> _ SHEET __H9785 REFERENCE No

PROJECT Caboolture River Bridge Foundation Investigation Pier 4 - 14m left (along skew) of existing northbound bridge C/L LOCATION COORDINATES 497553.5 E; 7003521.8 N PROJECT No <u>FG5439</u> _ _ _ SURFACE R.L. 4.20 DATE STARTED _08/11/05 DATUM MGA94 Zone 56 JOB No. 25/10A/60C DATE COMPLETED _08/11/05 DATUM _AHD __ DRILLER Drillsure Pty Ltd RL ROD INTACT DEFECT (m) ()% STRENGTH ADDITIONAL DATA SPACING (E) **HERING** MATERIAL (mm) AND GRAPHIC SAMPLES DESCRIPTION CORE USC WEAL TEST RESULTS REC % 4.20 0 Clayey SAND (Alluvium): Brown, moist, loose, fine grained, medium plasticity fines. SPT SC Some medium grained sand and minor organic material below 2.5m. SPT 0.70 Sandy CLAY (Alluvium): Dark grey-brown, moist, very soft to soft, high plasticity, fine to medium grained sandy lenses, inter-laminations of brown organic plant matter, some lenses ironstained orange-brown. СН SPT 23/02/06 -0.80 Gravelly SAND (Alluvium): ROADS.GDT Pale grey-brown, wet, loose, coarse grained, fine gravel up to 5mm. 3,4,3 SPT QLD MAIN .GPJ SP CABOOLTURE R BRIDGE WIDENINGS. Occasional medium plasticity clay / silt lenses below 7.0m. SPT -3.80-8 SANDSTONE: HW: Grey-brown with some dark orange-brown ironstained bands, fine to medium grained with coarse grained bands, 4,30/100, BOREHOLE SPT very low to low strength. N>50 Stained pale orange-brown throughout HW rockmass below 9.20m. Is(50)=0.17 MPa Occasional thin dark grey-brown subhorizontal Is(50)=0.29 MPa laminae, and occasional bands of brown 9.62m: 60° joint, irregular siltstone rip-up clasts throughout. REMARKS LOGGED BY A O'Rourke



ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005 BOREHOLE No <u>BH5</u>

SHEET <u>2</u> of <u>2</u>

REFERENCE No

__H9785

Caboolture River Bridge Foundation Investigation **PROJECT** Pier 4 - 14m left (along skew) of existing northbound bridge C/L LOCATION 497553.5 E; 7003521.8 N COORDINATES PROJECT No <u>FG5439</u> _ _ _ SURFACE R.L. __4.20___ DATE STARTED _08/11/05 DATUM MGA94 Zone 56 JOB No 25/10A/60C DATUM _AHD __ DRILLER _Drillsure Pty Ltd___ DATE COMPLETED 08/11/05 R.L. RQD INTACT DEFECT (m) ()% STRENGTH SPACING ADDITIONAL DATA (E) 90 MATERIAL (mm) DEPTH AND SAMPLES DESCRIPTION TESTS CORE WEAT

WEAT

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2000 **TEST RESULTS** REC % 10 -5.80 11111 SANDSTONE: HW: As above. Defects: Subhorizontal bedding partings and joints, 60° irregular joint. Core loss 10.40-10.90m. -6.70 71 MW: 1' Pale orange-brown, ironstained throughout, medium grained, medium strength, occasional 11.31-11.38m: Numerous thin black coarse grained bands of fine gravel, occasional bands with brown silt- stone rip-up clasts, and 11.16-12.1m: Numerous brown MW black coal laminae. siltstone rip-up clasts. 12 Defects: Subhorizontal bedding partings and joints. Is(50)=0.38 MPa ls(50)=0.37 MPa Core loss 12.52-12.90m. 81 13 MW -9.00 Light grey, medium grained, medium-high strength, occasional coarse grained bands and 13.74-13.84m: Broken zone. black coal bands up to 5mm thick. Conglomerate band. SW Subhorizontal bedding partings and joints. Is(50)=1.10 MPa Is(50)=1.15 MPa MW 23/02/06 - 15 SW -10.95 100 Borehole terminated at 15.15m QLD MAIN ROADS.GDT WIDENINGS.GPJ CABOOLTURE R BRIDGE N **ENGINEERING BOREHOLE** REMARKS LOGGED BY A O'Rourke

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

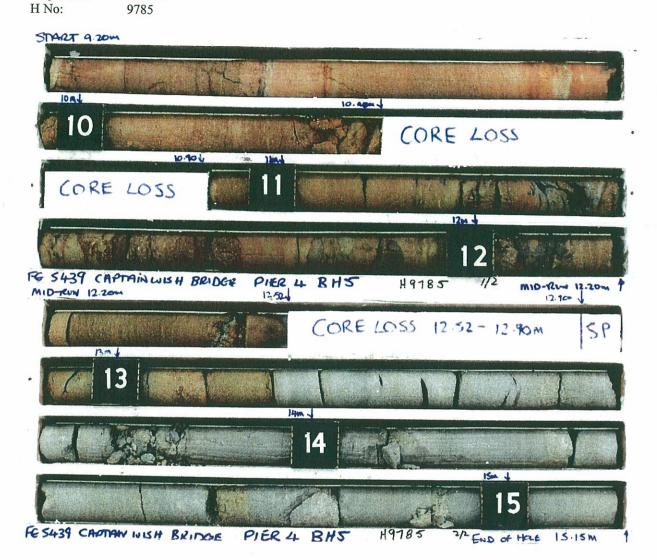
Borehole No: BH5 Pier 4

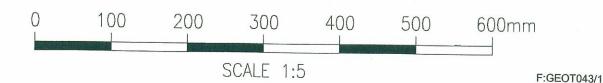
Start Depth: Finish Depth:

9.20m 15.15m

Project No:

FG5439 9785







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 8/11/05

Feature: PIER 4

Sample Type: NMLC ROCK CORE

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

Date Tested 6/12/05

No. of Concession, Name of Street, or other Persons, Name of Street, or ot	Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	ls (MPa)	ls50 (MPa)	Strength Descriptor**	Lithology
The same name of the same of t	GS05/806-A GS05/806-B GS05/806-C GS05/806-D GS05/806-E GS05/806-F	BH5 BH5 BH5 BH5 BH5 BH5	9.26 9.28 12.27 12.30 14.44 14.47	D A D A D	0.17 0.34 0.38 0.45 1.10 1.36	0.17 0.29 0.38 0.37 1.10 1.15	L L M M H	Sandstone 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.

(Peter Reynolds)



accreditation requirements.

s on attached cover page.