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**Queensland  
Government**

Department of  
Main Roads

**ENGINEERING  
BOREHOLE LOG**

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

BOREHOLE No     BH4    

SHEET     1     of     1    

REFERENCE No     H10296    

PROJECT     Oak Creek Bridge Foundation Investigation - Texas      
 LOCATION     Pier 3 O/S 2m Left     COORDINATES     320809.7 E: 6813979.0 N      
 PROJECT No     FG5573     SURFACE R.L.     291.47     PLUNGE      DATE STARTED     22/04/08     GRID DATUM     GDA84      
 JOB No     50-002989     HEIGHT DATUM     AHD     BEARING      DATE COMPLETED     22/04/08     DRILLER     R&D Drilling P/L    

DEPTH (m)	R.L. (m)	ALGER CASING ROCK ROLLER CORE DRILLING CORE REC %	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
							BT	SH	HL	SL	EL	R80	200	800				2000
0	291.47																	
1				A	<b>MUDSTONE (CERTIFIED) FINE-GRAINED SEDIMENTARY ROCK COMPOSED CHIEFLY OF CLAY-SILT SIZED PARTICLES.</b> XW: Pale yellow-brown with engineering properties of a dry, very dense clayey silty gravel.	XW										26,45/18 N>50	SPT	
2	289.17																	
3	288.77		(87)		HW: Greenish-grey (drilling supervisor's observations). SW: Dark grey, very fine grained, mostly massive with some thin, wavy laminations, generally high to very high strength. Contains some thin (<2mm) quartz veins throughout. Heavily chertified (see remarks). Defects include joints only. - Joints @ 25-35° (3/m) - Joints @ 70° (<1/m) The joints are generally planar to slightly undulose, rough, closed with ironstaining or yellow sulphide coating.	HW										0/5 N>50 No return	SPT	
4			100 (86)			SW										Is(50)=7.43 MPa Is(50)=6.06 MPa	x o	
5																Is(50)=3.76 MPa	x	
6	285.82		100		Borehole terminated at 5.65m													
7																		
8																		
9																		
10																		

REMARKS     Drilling supervision conducted by M.Dumesny. Certification - Silicification by microcrystalline or cryptocrystalline quartz.    

LOGGED BY  
**S.Rea**

Project: **Oakey Creek Bridge Texas**

Borehole No: **BH 4**

Start Depth: 2.70

Finish Depth: 5.65

Project No: FG5573

H No: 10296



SCALE 1:5

# Point Load Strength Index - Test Report

**Project: Oaky Creek Bridge Texas**  
**Project No: FG5573**

**Date Sampled 22/04/08**  
**Feature: N/A**  
**Sample Type: NMLC Core**

**Date Tested 29/05/08**

**Report No. FG5573/GS08-334/AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS08/334.A	BH 4	4.00	D	7.64	7.43	VH	Mudstone
GS08/334.B	BH 4	4.12	A	5.98	6.06	VH	Mudstone
GS08/334.C	BH 4	5.11	D	3.95	3.76	VH	Mudstone

**Sample Remarks**

GS08/334.A- Note 1  
GS08/334.B- Note 1  
GS08/334.C- Note 1

\* 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 AS1728 Table 6A )

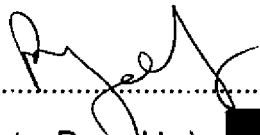
**Remarks / Variations to Test Procedures:**

Test Method: AS4133.4.1

Software Version 2.09 Beta July 2007

Note 1: Failure along existing shear plane

Client Name: Department of Main Roads  
Client Address: PO Box 70, Spring Hill QLD 4004  
Significant Equipment - gs33

Signatory  15/8/08  
( Peter Reynolds )



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