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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     BH2    

SHEET     1     of     1    

REFERENCE No     H10294    

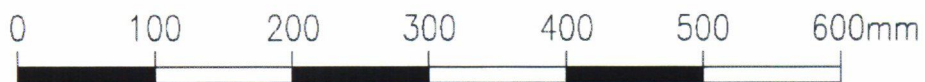
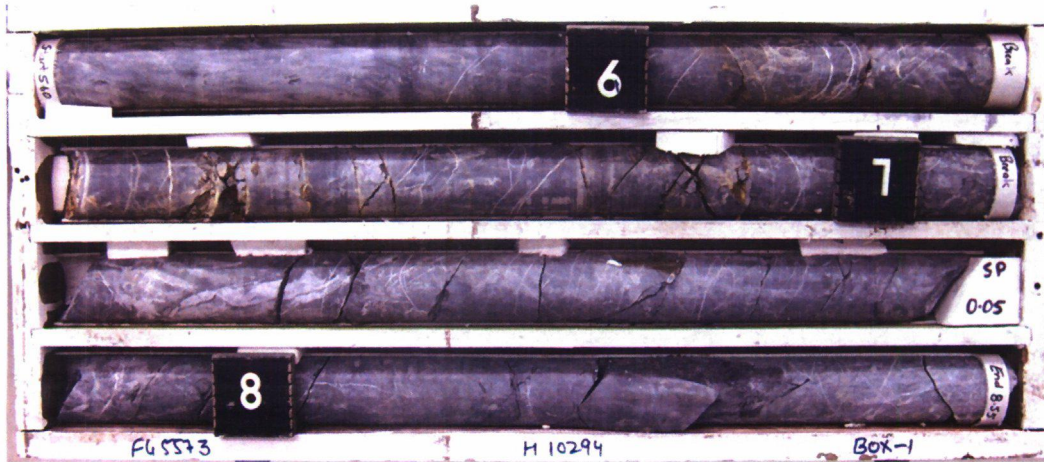
PROJECT     Oak Creek Bridge Foundation Investigation - Texas      
 LOCATION     Pier 1 O/S 4m Right     COORDINATES     320790.6 E; 6814006.3 N      
 PROJECT No     FG5573     SURFACE R.L.     292.43     PLUNGE      DATE STARTED     21/04/08     GRID DATUM     GDA94      
 JOB No     50-002989     HEIGHT DATUM     AHD     BEARING      DATE COMPLETED     21/04/08     DRILLER     R&D Drilling P/L    

DEPTH (m)	R.L. (m)	AUGER CASING ROCK ROLLER CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH			DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VI	SI	20	50	200			
0	292.43					<b>Clayey Silty SAND (TOPSOIL)</b> Brown, dry, loose.  Contains minor plant roots.  Sand fraction is fine to medium grained and well sorted.	(SC)								3,3,2 N=5	SPT
2	290.33					<b>Clayey GRAVEL (ALLUVIUM)</b> Orange-brown, wet, medium dense.  Gravel is fine to medium grained and poorly sorted.	(GC)								12,12,17 N=29	SPT
4	288.43					<b>MUDSTONE (CHERTIFIED) FINE-GRAINED SEDIMENTARY ROCK COMPOSED CHIEFLY OF CLAY-SILT SIZED PARTICLES.</b> <b>XW:</b> Greenish-grey with the engineering properties of wet, very dense clayey gravel.	XW								70/30 N>50	SPT
6	286.83		(63)			<b>SW:</b> Dark grey, very fine grained, mostly massive, generally high to very high strength with some medium strength bands.  Contains minor, thick, wavy laminae and thin (<3mm) quartz veins. Heavily chertified (see remarks).  Defects include joints and handling fractures.  - Joints @ 10° (1/m). - Joints @ 25-35° (7/m). - Joints @ 70° (1/m).  Joints are generally planar, smooth or rough, closed with calcite or sulphide coating, or clean.	SW								0/5 N>50 No Test	SPT
7			100 (43)												Is(50)=1.84 MPa Is(50)=0.98 MPa	x o
8	283.88		100												Is(50)=3.36 MPa Is(50)=0.56 MPa	x o
8.55						Borehole terminated at 8.55m										

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

LOGGED BY  
**S.Rea**

Project: **Oakey Creek Bridge Texas**  
Borehole No: **BH 2**  
Start Depth: 5.60  
Finish Depth: 8.55  
Project No: FG5573  
H No: 10294



SCALE 1:5

# Point Load Strength Index - Test Report

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

**Date Sampled 21/04/08**  
**Feature: N/A**  
**Sample Type: NMLC Core**

**Date Tested 29/05/08**

**Report No. FG5573/GS08-332/AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS08/332.A	BH 2	6.04	D	1.94	1.94	H	Mudstone
GS08/332.B	BH 2	6.18	A	0.98	0.98	M	Mudstone
GS08/332.C	BH 2	7.20	D	3.39	3.36	VH	Mudstone
GS08/332.D	BH 2	7.25	A	0.54	0.56	M	Mudstone

**Sample Remarks**

GS08/332.A- Note 1  
GS08/332.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 AS1726 Table 8A )

**Remarks / Variations to Test Procedures:**

Note 1: Failure along existing shear plane

Test Method: AS4133.4.1

Software Version 2.09 Beta July 2007

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

Signatory

( Peter Reynolds )



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