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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No BHP61  
SHEET 1 of 3  
REFERENCE No H9922

PROJECT HOUGHTON HIGHWAY BRIDGE DUPLICATION - HOUGHTON HIGHWAY UPGRADE PROJECT  
LOCATION 24m RIGHT, 1.0m NTH FROM EASTN PILE OF PIER 61 OF EXIST BRIDGE COORDINATES 39591.5 E; 53444.2 N  
PROJECT No FG5423 SURFACE R.L. -1.19 PLUNGE \_\_\_\_\_ DATE STARTED 19/06/06 GRID DATUM PROJECT DATUM  
JOB No 165/122/35 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 19/06/06 DRILLER CAIRNS DRILLING

DEPTH (m)	R.L. (m)	CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)			GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS					
										q <sub>u</sub>	f <sub>cu</sub>	f <sub>cs</sub>	f <sub>ct</sub>	f <sub>cl</sub>	20	80	200				600	2000			
0	-1.19					<b>ESTUARINE SAND / SILTY SAND</b> Dark grey, wet, very loose.  Very fine grained sand; occasional partly decomposed shell fragments; slightly organic throughout; sand becoming silty sand with depth.																			
1																									
2					A				(SP-SM)													pH <sub>F</sub> = 7.29 pH <sub>Fox</sub> = 6.50	1,1- N<1	SPT	
3																									
4	-5.19				B																				
5						<b>ESTUARINE SILTY CLAY</b> Dark grey, moist to wet, mainly very soft to soft.  High plasticity; high organic content; occasional partly decomposed shell fragments.																			
6					C																				
7																									
8					D																				
9																									
10	-11.19				E																				
					F				(OH)																

A. ENGINEERING BOREHOLE LOG W. LITHOLOGY, FG5423 HIGHWAY BRIDGE GPJ - MRD, LIB, V1.2, GLB, 25/10/06

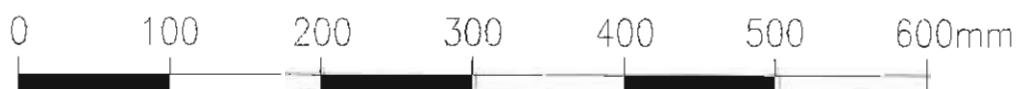
REMARKS \_\_\_\_\_

LOGGED BY  
BW / ADISS





Project: **Houghton Highway Bridge Duplication**  
Borehole No: **BHP61**  
Start Depth: 25.50m  
Finish Depth: 28.50m  
Project No: FG5423  
H No: 9922



# Point Load Strength Index - Test Report

**Project: Houghton Highway Bridge Investigation**

**Project No: FG5423**

**Date Sampled 19/06/06**

**Date Tested 28/06/06**

**Feature: N/A**

**Sample Type: NMLC Core**

**Report No. FG5423/GS06-563/AS4133.4.1**

Sample Number	Sample Location	Depth (m)	Test Type D,A,B,I*	Is (MPa)	Is50 (MPa)	Strength Descriptor**	Lithology
GS06/563.A	BHP 61	25.61	D	0.73	0.73	M	Sandstone
GS06/563.B	BHP 61	25.63	A	0.75	0.72	M	Sandstone
GS06/563.C	BHP 61	26.16	D	0.74	0.74	M	Sandstone
GS06/563.D	BHP 61	26.19	A	0.86	0.82	M	Sandstone
GS06/563.E	BHP 61	27.05	D	0.84	0.84	M	Sandstone
GS06/563.F	BHP 61	27.07	A	1.11	1.02	H	Sandstone
GS06/563.G	BHP 61	27.65	D	0.52	0.51	M	Sandstone
GS06/563.H	BHP 61	27.67	A	0.43	0.39	M	Sandstone
GS06/563.J	BHP 61	28.04	D	1.12	1.12	H	Sandstone
GS06/563.K	BHP 61	28.07	A	1.69	1.58	H	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: Department of Main Roads  
Client Address: PO Box 70, Spring Hill QLD 4004

Signatory .....

( Mr Peter Reynolds



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