ENGINEERING BOREHOLE LOG

Queensland Government

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/6-2010

BOREHOLE No **BH09**
SHEET 1 of 2
REFERENCE No

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION
LOCATION Abutment B - LHS (Ch.83953.775) COORDINATES 260886.0 E; 7380691.7 N
PROJECT No FG5934 SURFACE R.L. 7.36m PLUNGE DATE STARTED 13/8/11 GRID DATUM MGA94 Zone 56
JOB No 258/10E/1 HEIGHT DATUM AHD BEARING DATE COMPLETED 13/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( )% CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC	WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (mm) (20 60 200 600 2000)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES	TESTS
0	7.36				**Clayey SAND (TOPSOIL)** Pale brown, moist to dry, loose. Fine grained; some tree roots.		(SC)					Based on Driller's log only		
1	7.06				**Silty CLAY (ALLUVIAL)** Dark grey- to black, moist, stiff. High to medium plasticity; some tree roots.		(CI-CH)					Based on Driller's log only		
2	5.86			A	**SILTSTONE** **Fine grained, thinly laminated sedimentary rock** **XW:** Generally exhibits the engineering properties of mottled yellow to brown grey, moist, hard, clayey silt.							5,6,30/100mm N>50	SPT	
3				B	Low plasticity; some HW rock kernels.		XW					24,24,30/20mm N>50	SPT	
				C	Gradually grading into grey brown HW rock with depth.							14,30/90mm N>50	SPT	
4	3.56		(44)		**HW:** Grey brown, thinly laminated, low strength. Defects: - Lamination partings @ 20-30° (5/m) - Joints @ 80-90° (1/m) Defect surfaces are planar, rough, tight.		HW					Numerous Js, Lam, Ir, T Is(50) = 0.23MPa Is(50) = 0.43MPa	o x	
5	2.41		100		**XW:** Generally exhibits the engineering properties of yellow to grey brown, moist, hard, clayey silt. Low plasticity; some rock kernels.		XW					Ca band		
6	2.06		(0) 100 (0) 100 (0)		**SANDSTONE** **Fine grained, mainly massive to laminated, poorly cemented sedimentary rock** **HW:** Grey brown, fine grained, massive, low to medium strength. Defects: - Lamination partings @ 15-25° (15/m) - Joints @ 50° (1/m) Defect surfaces are irregular, rough, tight.		MW HW					CLy seam, 35°, 20mm CLy seam, 10°, 15mm CLy seam, 20mm		
7	0.46											Is(50) = 0.92MPa Is(50) = 0.46MPa	o x	
8			100 (0)		HW sandstone / siltstone interbeds from 5.90 to 6.90m. **MW:** Grey to pale brown, fine grained, laminated, medium high strength.		MW					Is(50) = 0.27MPa	x	
9			100 (0)		Defects: - Lamination partings @ 0-15° (15- 30/m) - Joints @ 15-30° (8/m) - Joints @ 40-50° (3/m)		HW MW HW MW HW					CLy seams with HW rock particles, 0°, 15-20mm CLy seams with HW rock particles, 0°, 15-20mm		
10			100 (23)		Defect surfaces are planar to irregular, rough, tight and open, iron stained.		MW					DD = 2.38t/m^3; WD = 2.50t/m^3; MC = 5.6%; Soil UCS=121kPa Is(50) = 0.38MPa	o	

QLD_DMR_LIB_01A.GLB Log A_ENGINEERING BOREHOLE LOG W LITHOLOGY FG5934 - EIGHT MILE CREEK BH7 TO BH10.GPJ <<DrawingFile>> Datgel CPT Tool gINt Add-In 11/10/2011 11:32

REMARKS Failures may have been taken place along pre-existing defect plains

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10	-2.64				**SANDSTONE** **MW:** (Cont'd)							CLy seams with HW rock particles, 10°, 15-40mm		
												CLy seams with HW rock particles, 10°, 15-40mm		
11			100 (12)				MW					Is(50) = 1.16MPa Is(50) = 1.42MPa Is(50) = 2.60MPa	x o x	
	-4.34		100									CLy / silt seam		
12					Borehole terminated at 11.7m									
13														
14														
15														
16														
17														
18														
19														
20														

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Project: **EIGHT MILE CREEK BRIDGE (ABUTMENT B)**

Borehole No: **BH9**

Start Depth: 3.74m
Finish Depth: 11.70m
Project No: FG5934
H No:

0 100 200 300 400 500 600mm

SCALE 1:5

F:GEOT043/1