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ENGINEERING BOREHOLE LOG

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

BOREHOLE No BH07
 SHEET 1 of 2
 REFERENCE No

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION
 LOCATION Pier 3 - LHS (Ch.83932.000) COORDINATES 260901.3 E; 7380676.2 N
 PROJECT No FG5934 SURFACE R.L. 6.48m PLUNGE DATE STARTED 12/8/11 GRID DATUM MGA94 Zone 56
 JOB No 258/10E/1 HEIGHT DATUM AHD BEARING DATE COMPLETED 12/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	6.48				Gravelly Silty SAND (FILL) Brown, moist, loose. Fine to medium grained sand; some gravel.						Upper area based on Driller's log only	
1						(SM)						
2	4.48			A	Sandy CLAY (RESIDUAL) Mottled grey to brown yellow, slightly moist, stiff. Low plasticity; high content of fine to medium grained sand.	(CL)						3,5,7 N=12 SPT
3	3.48											
4				B	SILTSTONE Fine grained, thinly laminated sedimentary rock XW: Generally exhibits the engineering properties of mottled yellow brown to grey, hard, clayey silt. Low plasticity; some HW rock kernels.	XW						15,30/100mm N>50 SPT
5				C								22,30/70mm N>50 SPT
6	0.98		(12)	D	SANDSTONE Fine grained, mainly massive, poorly cemented sedimentary rock MW: Grey, fine grained, massive, mainly low to medium with occasional high strength bands. Defects: - Lamination partings @ 15-20° (6/m) - Joints @ 90° (1/m) - Numerous irregular joints Defect surfaces are planar, rough, open, iron stained.	MW						HB N>50 SPT Is(50) = 1.35MPa Is(50) = 0.58MPa Is(50) = 0.68MPa Is(50) = 0.10MPa Is(50) = 0.23MPa Is(50) = 0.60MPa Several CLy / silt seams, 20-35°, 5-15mm Several CLy / silt seams, 20-25°, 10-30mm
7			(0)									
8	-1.72		(0)		HW: Brown to grey, fine grained, interbedded siltstone layers, low to medium strength. Defects: - Numerous irregular lamination partings and joints, some clay coatings.	HW MW HW MW						
9	-2.57		(0)			HW						
10			(17)		MW: Grey to pale brown, fine grained, massive, medium to high strength. (See over)	MW					DD = 2.60t/m ³ ; WD = 2.68t/m ³ ; MC = 2.6%; Soil UCS=7635kPa	

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

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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH07</u>
SHEET	<u>2</u> of <u>2</u>
REFERENCE No	-----

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION
 LOCATION Pier 3 - LHS (Ch.83932.000) COORDINATES 260901.3 E; 7380676.2 N
 PROJECT No FG5934 SURFACE R.L. 6.48m PLUNGE _____ DATE STARTED 12/8/11 GRID DATUM MGA94 Zone 56
 JOB No 258/10E/1 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 12/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USC WEATHERING	INTACT STRENGTH					DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								EH	VH	IN	JL	VL				
10	-3.52				SANDSTONE MW: (Cont'd) Defects: - Lamination partings @ 10-20° (18/m) - Joints @ 80-90° (1/m)		MW									
11	-4.37		100 (0)		Numerous irregular joints with random clay / silt coatings; some siltstone interbeds.		HW							QZ lens QZ lens Several CLy / silt seams, 0-35°, 20-40mm		
12	-4.92		100 (0)		HW: Brown to grey, fine to medium grained, massive, low to medium strength. Thin siltstone interbeds. MW: Grey to pale brown, fine grained, massive, medium to high strength.		MW							Is(50) = 1.68MPa	x	
13	-6.57		100 (0)		Defects: - Lamination partings @ 10-20° (15/m) - Joints @ 80-90° (1/m)		HW							Several thin CLy / silt seams		
13	-6.57		100 (0)				MW							Is(50) = 0.45MPa	x	
14					Numerous irregular joints. Defect surfaces are planar, rough, open, iron stained. Borehole terminated at 13.05m											
15																
16																
17																
18																
19																
20																

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

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Project: **EIGHT MILE CREEK BRIDGE (Pier 3)**

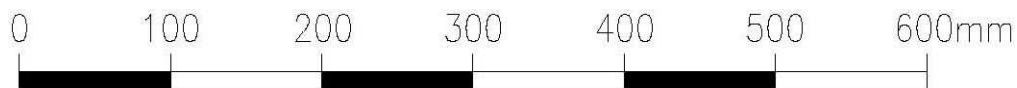
Borehole No: **BH7**

Start Depth: 5.60m

Finish Depth: 13.05m

Project No: FG5934

H No:



SCALE 1:5

F:GEO043/1