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ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH03</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	_____

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION
 LOCATION Pier 1 - LHS (Ch.83888.000) COORDINATES 260933.3 E; 7380646.0 N
 PROJECT No FG5934 SURFACE R.L. 6.62m PLUNGE _____ DATE STARTED 14/8/11 GRID DATUM MGA94 Zone 56
 JOB No 258/10E/1 HEIGHT DATUM AHD BEARING _____ DATE COMPLETED 14/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	INTACT STRENGTH						DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
								USC	WEATHERING	EH	VH	VI	W					J	VL
0	6.62					Silty SAND (FILL) Brown to pale yellow, moist to dry, loose, fine to medium grained. Some gravel and tree roots present.	(SM)									Upper area based on Driller's log only			
1	5.42				A	Silty Sandy CLAY (ALLUVIAL) Dark grey, moist to wet, soft. Medium plasticity.	(CI)										0,0,3 N=3	SPT	
2	4.12				B	Sandy CLAY (ALLUVIAL) Dark grey, wet, soft to firm. Medium plasticity.	(CI)										3,2,2 N=4	SPT	
3	2.12				C	SILTSTONE Fine grained, thinly laminated sedimentary rock HW: Dark grey, fine grained, laminated, low strength. Defects are generally irregular, rough, open and weathered. Thin sandstone interbeds.	HW									30/80mm N>50		SPT	
5	1.22		(0)	100	(22)	SANDSTONE Fine grained, mainly massive, poorly cemented sedimentary rock MW: Dark grey to pale brown, fine grained, massive, medium to high strength with some low strength weathered bands. Defects: - Lamination partings @ 0-10° (3/m) - Joints @ 20-30° (4-7/m) - Joints @ 40-50° (1/m) - Joints @ 60° (1/m)	MW									Clay seam, 50°, 30mm Silt / Clay seam, mixed with crushed rock, 20mm Silt / Clay seam	DD = 2.58t/m ³ ; WD = 2.64t/m ³ ; MC = 2.4%; Soil UCS=5351kPa		
6			100	(13)	(59)	SANDSTONE Fine grained, mainly massive, poorly cemented sedimentary rock MW: Dark grey to pale brown, fine grained, massive, medium to high strength with some low strength weathered bands. Defects: - Lamination partings @ 0-10° (3/m) - Joints @ 20-30° (4-7/m) - Joints @ 40-50° (1/m) - Joints @ 60° (1/m)	MW									Clay seam, 130mm Clay seam, 50°, 10mm	Is(50) = 0.76MPa Is(50) = 2.81MPa Is(50) = 0.95MPa Is(50) = 0.29MPa	x x o x	
7			100	(0)	(0)	Defect surfaces are planar, rough, tight, iron stained. Highly fractured XW-MW zone from 8.10 to 8.90m and numerous irregular, iron stained, clay coated defects.	XW HW XW HW XW									Clay seam, 35° Clay seam, 150mm	DD = 2.60t/m ³ ; WD = 2.66t/m ³ ; MC = 2.4%; Soil UCS=9212kPa	Is(50) = 0.72MPa Is(50) = 1.19MPa Is(50) = 3.54MPa Is(50) = 1.11MPa	x o x o
8			100	(0)	(0)		MW									Clay seam, 15° Clay seam, 5°, 50mm	Is(50) = 1.42MPa Is(50) = 0.98MPa	x o	
9			100	(0)	(0)		MW										Is(50) = 0.78MPa Is(50) = 0.91MPa	x o	
10			100	(0)	(0)														

REMARKS Borehole located 2m south from the originally pegged location. Failures appear to have been taken along pre-existing defect plains for UCS & Point Load tests.

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MS / AD



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BOREHOLE No BH03
 SHEET 2 of 2
 REFERENCE No

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DEPTH (m)	R.L. (m)	AUGER 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	
									EH	VH	IM	JL	VL	EL					20
10	-3.38					SANDSTONE MW: (Cont'd)													
			100	(24)			MW												
			100	(69)			HW												
	-5.04		100				MW												
11																			
12						Borehole terminated at 11.66m													
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Thin CLy seams

REMARKS Borehole located 2m south from the originally pegged location. Failures appear to have been taken along pre-existing defect plains for UCS & Point Load tests.

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Project: **EIGHT MILE CREEK BRIDGE (PIER 1)**

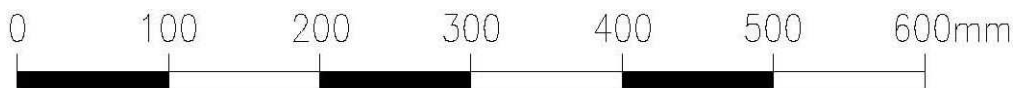
Borehole No: **BH3**

Start Depth: 4.70m

Finish Depth: 11.66m

Project No: FG5934

H No:



SCALE 1:5

F:GEOT043/1