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# ENGINEERING BOREHOLE LOG

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

BOREHOLE No	<u>BH05</u>
SHEET	<u>1</u> of <u>2</u>
REFERENCE No	-----

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION  
 LOCATION Pier 2 - LHS (Ch.83910.000) COORDINATES 260917.1 E; 7380661.0 N  
 PROJECT No FG5934 SURFACE R.L. 6.25m PLUNGE \_\_\_\_\_ DATE STARTED 9/8/11 GRID DATUM MGA94 Zone 56  
 JOB No 258/10E/1 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 9/8/11 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				
0	6.25					<b>Silty SAND (FILL)</b> Brown, moist, loose.	(SM)									Based on Driller's logs only		
5.75						Fine to medium grained. <b>Silty CLAY (ALLUVIAL)</b> Dark brown, moist to wet, soft.  High plasticity; some grass roots.	(CH)									Based on Driller's logs only  Based on Driller's logs only		
4.55						<b>Clayey SAND (ALLUVIAL)</b> Dark brown, wet, very loose to loose.  Fine to medium grained sand; high clay content in some places.										Based on Driller's logs only		
					A		(SC)										1,2,3 N=5	SPT
					B												2,2,2 N=4	SPT
1.25						<b>SILTSTONE</b> Fine grained, thinly laminated sedimentary rock <b>XW:</b> Generally exhibits the engineering properties of dark brown to yellow, moist, hard, clayey silt.	XW											
					C	Low plasticity; some rock kernels present.											9,20,30/70mm N>50	SPT
					D												30/20mm N>50	SPT
-0.85			(29)			<b>SANDSTONE</b> Fine grained, mainly massive, poorly cemented sedimentary rock <b>MW:</b> Dark grey to pale brown, fine grained, massive, mainly low to medium strength.  Defects: - Lamination partings @ 15-30° (10/m) - Joints @ 30-45° (3-6/m)  Defect surfaces are planar, rough, open, weathered, iron stained.	MW									CLy seam with HW rock particles, 130mm DD = 2.56t/m <sup>3</sup> ; WD = 2.64t/m <sup>3</sup> ; MC = 2.8%; Soil UCS=22463kPa CLy seam & Ca particles, 30°, 50mm	Is(50) = 0.11MPa Is(50) = 0.08MPa Is(50) = 0.15MPa Is(50) = 0.09MPa  Is(50) = 0.52MPa Is(50) = 0.48MPa	x o x o  x o
			100															
			(37)															
			100															
			(0)															
			100															
			(0)															
			100															
			(0)															

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	__ <b>BH05</b> __
SHEET	__ <b>2</b> __ of __ <b>2</b> __
REFERENCE No	-----

PROJECT EIGHT MILE CREEK BRIDGE FOUNDATION INVESTIGATION  
 LOCATION Pier 2 - LHS (Ch.83910.000) COORDINATES 260917.1 E; 7380661.0 N  
 PROJECT No FG5934 SURFACE R.L. 6.25m PLUNGE \_\_\_\_\_ DATE STARTED 9/8/11 GRID DATUM MGA94 Zone 56  
 JOB No 258/10E/1 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 9/8/11 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	IM	JL	VL	EL				
10	-3.75				<b>SANDSTONE MW: (Cont'd)</b>										Is(50) = 1.99MPa	o	
11			100 (0) 100 (50)		Numerous closely spaced lamination partings.												
12			100 (40)														
13			100 (28)			MW									Is(50) = 0.29MPa Is(50) = 0.17MPa Is(50) = 0.04MPa	x o o	
14	-7.65				<b>MW:</b> Dark grey to pale brown, fine to medium grained, massive, high strength.  Defects: - Lamination partings@ 15-30° (10/m)  Defect surfaces are generally planar, rough, iron stained and open.										Is(50) = 2.40MPa Is(50) = 3.16MPa	x o	
15	-9.10		100		Other numerous irregular, rough, open defects. Borehole terminated at 15.35m												
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 2)**

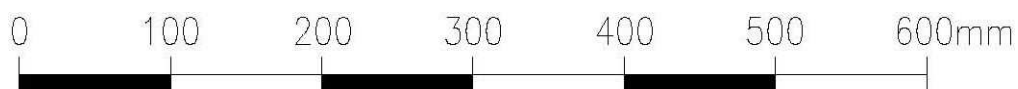
Borehole No: **BH5**

Start Depth: 7.10m

Finish Depth: 15.35m

Project No: FG5934

H No:



SCALE 1:5

F:GEOT043/1