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**Queensland  
Government**  
Department of  
Main Roads

# ENGINEERING BOREHOLE LOG

FOR GEOTECHNICAL TERMS AND  
SYMBOLS REFER FORM F:GEOT 017/5-2009

PRELIMINARY 21/10/11

BOREHOLE No BH13

SHEET 1 of 1

REFERENCE No \_\_\_\_\_

PROJECT EIGHT MILE CREEK BRIDGE APPROACH CUT (CH83540 - CH83800) GEOTECHNICAL INVESTIGATION

LOCATION Offset - 7m Right (Ch.83700) COORDINATES 261088.9 E; 7380532.0 N

PROJECT No FG5934 SURFACE R.L. 14.90m PLUNGE -90° DATE STARTED 17/8/11 GRID DATUM MGA94 Zone 56

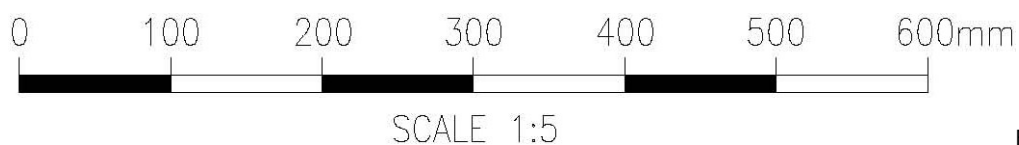
JOB No 258/10E/1 HEIGHT DATUM AHD BEARING \_\_\_\_\_ DATE COMPLETED 17/8/11 DRILLER Saxon Drilling Pty Ltd

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USC WEATHERING	INTACT STRENGTH	DEFECT SPACING (mm)	GRAPHIC LOG	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0	14.90					<b>Silty Clayey SAND (RESIDUAL)</b> Brown, pale grey to yellow, moist to dry.  Fine to medium grained; some gravel and tree roots.	(SM)				Based on Driller's logs only	
1	13.90				A	<b>DIORITE</b> Plutonic, medium to coarse grained, intermediate crystalline igneous rock XW: Generally exhibits the engineering properties of pale yellow to grey brown, moist, very dense, silty clayey sand.					25,30/90mm N>50	SPT
2					B	Fine to medium grained sand; some rock kernels.	XW				27,30/50mm N>50	SPT
3					C						30/125mm N>50	SPT
4	10.60				D						18,30/50mm N>50	SPT
5			(0)			<b>HW:</b> Yellow brown to grey, medium grained, massive, low strength.  Defects: - Lamination partings @ 10-25° (3/m) - Joints @ 30-45° (5/m)	HW				Is(50)=0.16 MPa	L
6	8.92		100			Defect surfaces are generally planar/irregular, rough, weathered and open.	MW				Is(50)=0.15 MPa Is(50)=0.09 MPa	x o
			(43)				HW					
			100			<b>MW:</b> Grey black to green, medium grained, massive, medium to mainly high strength.	MW				Is(50)=2.84 MPa	L
			(0)			Defects: - Joints @ 20-25° (4/m) - Joints @ 50-55° (3/m)	HW				HW zone, brown, low strength	
7	8.20		100			Defect surfaces are generally planar, rough and open.  Borehole terminated at 6.7m						
8												
9												
10												

REMARKS \_\_\_\_\_

LOGGED BY  
MS / AD

Project: **EIGHT MILE CREEK BRIDGE**  
Borehole No: **BH13**  
Start Depth: 4.30m  
Finish Depth: 6.70m  
Project No: FG5934  
H No:



F:GEOT043/1