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**Queensland
Government**

**GEOTECHNICAL
BOREHOLE LOG**

FOR GEOTECHNICAL TERMS AND
SYMBOLS REFER FORM F:GEOT 017/8-2014

BOREHOLE No **BH1**
Sheet 1 of 1
REFERENCE No **H12802**

PROJECT	Lochaber Creek Bridge Replacement		
LOCATION	Abutment A, LHS	COORDINATES 320005.4 E; 7181019.9 N	
PROJECT No	FG6448	SURFACE RL 141.42m	PLUNGE 90°
			DATE STARTED 20/03/2017
			GRID DATUM GDA 94
JOB No		HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 20/03/2017
			DRILLER Schneider Drilling

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS	
													EH
1	140.32				A	Sandy CLAY with gravel (Alluvium) Mottled yellow-brown, moist, very stiff to hard. Low plasticity, medium to coarse grained sand, fine grained gravel, minor organics.	(CL)					21, 30/100	SPT
2	139.82		(55)			SANDSTONE (Je/1) HW: Pale grey, fine grained, very thinly to thinly bedded, low strength. SW: Pale grey, fine grained, very thinly to thinly bedded, mainly medium to very high strength. - BP: 0°-10° (6-8/m), Pl-Sm/Ro, TI-Op, Some Cly.	HW MW				1.64m-1.70m: Sandy Cly (4), 5°, 3-7mm. 1.70m: Cly, 5°, 15mm. 1.74m: Cly, 5°, 25mm. 1.94m: Sandy Cly, 5°, 3mm. 2.08m-2.35m: Weathered seam, 90°, 10mm, irregular.	Is(50)=0.99 MPa Is(50)=0.51 MPa Is(50)=1.80 MPa	A (1.87m) D (2.37m) D (2.55m)
3			100 (67)								3.20m: Cly (2), 0°, 3mm.	Is(50)=1.50 MPa	A (2.97m)
4			100 (72)			3.80 - 7.50m: - BP: 0°-10° (4/m), Pl/Sm, OP. - J: 40°-60° (2/m), Pl-Stp/Sm, TI-OP. - J: 70°-90° (<1/m), Pl-Stp/Sm, TI, Some Cly, FeSt.	SW				3.55m: HW zone, 70mm.	Is(50)=2.50 MPa Is(50)=2.20 MPa	A (3.87m) D (3.92m)
5												Is(50)=0.90 MPa	D (4.81m)
6			100 (39)									Is(50)=3.50 MPa	A (5.52m)
7	133.92		100								7.00m-7.50m: J, 90°, Un, FeSt. 7.22m: Cly, 0°, 8mm.	UCS=47.30 MPa Is(50)=3.50 MPa Is(50)=0.48 MPa	(6.45m) A (6.70m) D (6.74m)
8						Borehole completed at 7.50m							

REMARKS: Je/1 = Evergreen Formation

LOGGED BY	REVIEWED BY
M.Ensor	S.Foley

CORE PHOTO LOG
F: GEOT043/3
DEPARTMENT OF TRANSPORT AND MAIN ROADS
Geotechnical Section



Project Name	Lochaber Creek Bridge Replacement (Burnett Highway 41C)		
Project No.	FG6448	Date Completed	20/03/2017
Borehole No.	BH1	Reference Number	H12802
Location	Lochaber Creek (Abut A LHS)	Start Depth (m)	1.60
Submitted By	Jaime Lopez	Finish Depth (m)	7.50
Remarks			