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GEOTECHNICAL

FINAL 24/04/2017

BH8 BOREHOLE No

BOREHOLE LOG Sheet 1 of 2 FOR GEOTECHNICAL TERMS AND H12809 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Lochaber Creek Bridge Replacement PROJECT COORDINATES 320003.1 E; 7181078.2 N Abutment B, RHS LOCATION SURFACE RL 140.12m DATE STARTED 16/03/2017 GRID DATUM GDA 94 FG6448 PLUNGE 90° PROJECT No DRILLER Schneider Drilling HEIGHT DATUM AHD DATE COMPLETED 16/03/2017 JOB No BEARING ' USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS RQD INTACT STRENGTH DEFECT SPACING LITHOLOGY SAMPLES TESTS SAMPLE DEPTH (RΙ MATERIAL DESCRIPTION CORE REC % ᇁᆂᆂᆂᅬᆛᅿᆿᆝᇚᆼᄓॾᇂᇂᆒ Sandy CLAY with silt (Alluvium) Brown, moist, stiff Low plasticity, fine grained sand. SPT Becoming very stiff 7, 10, 9 N=19 SPT (CL) 8, 10, 9 N=19 SPT 11, 11, 14 SPT 135.22 Clayey SAND (Alluvium) 12, 15, 13 Mottled pale brown & grey, moist, SPT medium dense. Fine to medium grained sand, low plasticity fines. (SC) 11, 14, 15 SPT 133.12 29.30/90 SANDSTONE (Je/1) SPT XW: Recovered as pale grey & yellow-brown, moist, hard, medium plasticity, Sandy CLAY with gravel. 14, 15, 20 XW SPT 30/140 ¬ 9.20m-9.36m; Sandy Cly (54) 130.76 Is(50)=1.90 MPa A (9.39m) SANDSTONE (Je/1) Is(50)=1.50 MPa D (9.46m) 9.58m: Sandy Cly, 20°, 15mm SW: Pale grey, medium to coarse SW grained, very thinly to thinly 9.88m: Sandy Cly, 10°, 10mm Continued on next sheet REMARKS: Je/1 = Evergreen Formation **LOGGED BY REVIEWED BY** M.Ensor S.Foley TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE S

Queensland Government

GEOTECHNICAL BOREHOLE LOG

FINAL 24/04/2017

BH8 BOREHOLE No

Sheet 2 of 2 FOR GEOTECHNICAL TERMS AND H12809 REFERENCE No SYMBOLS REFER FORM F:GEOT 017/8-2014 Lochaber Creek Bridge Replacement PROJECT COORDINATES 320003.1 E; 7181078.2 N Abutment B, RHS LOCATION SURFACE RL 140.12m GRID DATUM GDA 94 FG6448 PLUNGE 90° DATE STARTED 16/03/2017 PROJECT No DRILLER Schneider Drilling height datum AHD DATE COMPLETED 16/03/2017 JOB No BEARING USCS WEATHERING ADDITIONAL DATA AND TEST RESULTS RQD INTACT DEFECT SPACING LITHOLOGY SAMPLES TESTS STRENGTH RΙ DEPTH SAMP MATERIAL DESCRIPTION CORE REC % bedded, high strength. SW 10.07m: Sandy Cly, 40°, 5mm Is(50)=1.60 MPa D (10.08m) 10.23m: Sandy Cly, 10°, 10mm 10.26m-10.60m: Multiple Sandy Cly seams (10), mainly 20-50°, SANDSTONE (Je/1) MW SW: Pale grey, medium to coarse grained, very thinly to thinly 3-5mm (74) bedded, mainly high to very high - BP: 0°-20° (5/m), PI/Ro, TI, some Is(50)=3.10 MPa A (11.19m)-Cly. Is(50)=2.00 MPa D (11.34m) 11.48m: Sandy Cly, 10°, 3mm - J: 30°-50° (2/m), PI/Ro, TI, some UCS=25.10 MPa (11.65m) Cly. 100 (56) Is(50)=3.30 MPa A (12.27m) Is(50)=2.50 MPa D (12.34m)_ 12.62m: Sandy Cly, 5°, 5mm SW 13 Is(50)=2.10 MPa D (13.19m) 100 (73)UCS=49.00 MPa (13.85m) _ Is(50)=3.50 MPa Is(50)=3.50 MPa A (14.19m) D (14.25m) 124.92 100 Borehole completed at 15.20m REMARKS: Je/1 = Evergreen Formation **LOGGED BY REVIEWED BY** M.Ensor S.Foley

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI