FINAL 08/09/2017

Queensland Government

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH5**

Sheet 1 of 2

REFERENCE No **H12868**

PROJECT Valentine Creek Bridge Geotechnical Investigation

LOCATION Abut B, LHS

COORDINATES 214350.6 E; 7391768.1 N

PROJECT No FG6483 | SURFACE RL 92.83m | PLUNGE 90° | DATE STARTED 14/06/2017 | GRID DATUM MGA 94

JOB No 02790/16A/001 | HEIGHT DATUM AHD | BEARING ° | DATE COMPLETED 15/06/2017 | DRILLER Schneider

DEPTH (m)	R.L. (m)	RQD ( ) % / CORE REC %	SAMPLE	MATERIAL DESCRIPTION	USCS WEATHERING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
0				CLAY with sand (Alluvium) Black, moist, stiff. High plasticity, fine grained sand.	(CH)		
1			A			3, 5, 6 N=11 LL=54% PI= 33% LS= 17% <75µm= 68%	SPT
2	90.73		B	Clayey GRAVEL with sand (Alluvium) Brown & black, moist, medium dense to dense. Medium to coarse grained gravel, medium plasticity fines, subrounded particles.	(GC)	14, 23, 17 N=40	SPT
3			C			3.10m: 18/06/17 9:00am 5, 12, 15 N=27	SPT
4	89.13		D	Clayey SILT (Residual) Brown, moist, hard. Low plasticity, trace sand.	(ML)	11, 29, 24 N=53	SPT
5	88.13		E	BASALT (Kb) HW: Brown, fine grained, massive, mainly very low strength.	HW	20, 30/110	SPT
6			F			30/130	SPT
7			G			30/120	SPT
8	84.83	(19)		BASALT (Kb) MW: Grey & brown, fine grained, massive, mainly medium to high strength. - J: 0°-30° (7/m), Pl/Sm-Ro, Tl, Cly. - J: 40°-60° (3/m), Pl/Sm, Tl, Cly. - J: 80°-90° (1/m), Pl/Sm, Tl, Cly.	MW HW MW HW MW	Is(50)=0.27 MPa Is(50)=0.18 MPa 8.49m: Cly, 20mm. Is(50)=0.25 MPa 8.92m: Cly, 20mm, irregular. 9.10m: Cly, 10°, 8mm. 9.13m: Cly, 60°, 8mm.	A (8.22m) D (8.27m) D (8.60m) Is(50)=0.08 MPa Is(50)=0.25 MPa D (9.02m) A (9.06m)
9		91 (11)	CORE LOSS		MW		
	83.08			BASALT (Kb)	SW		

Continued on next sheet

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

LOGGED BY	REVIEWED BY
M Ensor	S Foley

TMR GEOTECHNICAL BOREHOLE LOG - CREATED WITH HOLEBASE SI

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JOB No 02790/16A/001 | HEIGHT DATUM AHD | BEARING ° | DATE COMPLETED 15/06/2017 | DRILLER Schneider

DEPTH (m)	R.L. (m)	AUGER / CASING / WASH BORING / CORE DRILLING	RQD ( ) % CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH (EH VH H M L VL EL)	DEFECT SPACING (EC VC C M W VW EW)	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
11			100 (31)		SW: Dark grey & grey, fine grained, massive, mainly high to very high strength, calcite veins. - J: 0°-30° (10/m), Pl-Stp/Ro, Sm-TI, some FeSt. - J: 30°-60° (4/m), Pl-Stp/Ro, Sm-TI, some FeSt. - J: 70°-90° (1/m), Un-Stp/Sm, TI-OP, Calcite Vn.		SW	H	C, VC, C, VC, C	10.35m-10.55m: HFZ 10.90m-11.70m: J: 80°, Un., CA Vn.	Is(50)=1.00 MPa Is(50)=0.19 MPa Is(50)=1.20 MPa Is(50)=2.40 MPa Is(50)=1.30 MPa
12			100 (77)		11.65m: - J: 10°-20° (2/m), Pl/Ro, TI-OP. - J: 60°-80° (1/m), Pl/Sm, TI, CA			H-VH	C	12.04m: J: 70°, CA.	
13			100 (85)							13.25m: J: 70°, Un, CA.	Is(50)=2.40 MPa Is(50)=6.40 MPa
14									M	13.90m: J: 50°, Un, CA.	Is(50)=0.46 MPa Is(50)=2.80 MPa
15	77.88		100		Borehole completed at 14.95m				M, C		Is(50)=4.20 MPa Is(50)=1.80 MPa UCS=153.00 MPa
16											
17											
18											
19											

D (10.35m)
A (10.70m)
D (10.85m)
D (11.44m)
A (11.75m)
A (12.88m)
D (12.94m)
A (13.47m)
D (13.53m)
D (14.16m)
A (14.25m)
(14.35m)

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

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