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**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)	AUGER CASING WASH BORING CORE DRILLING	RQD (%)	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
1				A	CLAY with sand (Alluvium) Black, moist, stiff. High plasticity, fine grained sand.	(CH)					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	89.13			C						3.10m: 18/06/17 9:00am	5, 12, 15 N=27	SPT	
4	88.13			D	Clayey SILT (Residual) Brown, moist, hard. Low plasticity, trace sand.	(ML)					11, 29, 24 N=53	SPT	
5				E	BASALT (Kb) HW: Brown, fine grained, massive, mainly very low strength.						20, 30/110	SPT	
6				F		HW					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), PI/Sm-Ro, TI, Cly. - J: 40°-60° (3/m), PI/Sm, TI, Cly. - J: 80°-90° (1/m), PI/Sm, TI, Cly.	MW				8.49m: Cly, 20mm.	Is(50)=0.27 MPa Is(50)=0.18 MPa	A (8.22m) D (8.27m)	
9			91 (11)			MW				8.92m: Cly, 20mm, irregular. 9.10m: Cly, 10°, 8mm. 9.13m: Cly, 60°, 8mm.	Is(50)=0.25 MPa	D (8.60m)	
	83.08				BASALT (Kb)	MW					Is(50)=0.08 MPa Is(50)=0.25 MPa	D (9.02m) A (9.06m)	

Continued on next sheet

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

LOGGED BY	REVIEWED BY
M Ensor	S Foley



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**GEOTECHNICAL  
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BOREHOLE No **BH5**

Sheet 2 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	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH											DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS														
								EH	VH	H	M	J	VI	EL	EC	VC	C	M				W	VW	EW											
11.0		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-Tl, some FeSt. - J: 30°-60° (4/m), Pl-Stp/Ro, Sm-Tl, some FeSt. - J: 70°-90° (1/m), Un-Stp/Sm, TI-OP, Calcite Vn.	SW		H										10.35m-10.55m: HFZ	Is(50)=1.00 MPa	D (10.35m)															
11.0																															10.90m-11.70m: J: 80°, Un., CA Vn.	Is(50)=0.19 MPa Is(50)=1.20 MPa	A (10.70m) D (10.85m)		
11.5																																12.04m: J: 70°, CA.	Is(50)=2.40 MPa Is(50)=1.30 MPa	D (11.44m) A (11.75m)	
12.0		100 (77)			11.65m: - J: 10°-20° (2/m), Pl/Ro, TI-OP. - J: 60°-80° (1/m), Pl/Sm, TI, CA																														
13.0																																			
13.5																																			
14.0		100 (85)																																	
14.5																																			
15.0	77.88	100																																	
																		Borehole completed at 14.95m																	

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

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