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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH2**

Sheet 1 of 2

REFERENCE No **H1286**

PROJECT	Valentine Creek Bridge Geotechnical Investigation		
LOCATION	Abut A, RHS	COORDINATES 214385.2 E; 7391798.7 N	
PROJECT No	FG6483	SURFACE RL 94.97m	PLUNGE 90°
			DATE STARTED 12/06/2017
			GRID DATUM MGA 94
JOB No	02790/16A/001	HEIGHT DATUM AHD	BEARING °
			DATE COMPLETED 12/06/2017
			DRILLER Schneider

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
	94.27				PAVEMENT (Fill)								
1				A	Clayey SAND (Alluvium) Dark brown, dry-moist, dense. Fine to medium grained sand, low plasticity fines.	(SC)				12, 15, 18 N=33	SPT		
2				B	Becoming very dense.					12, 29, 30/120 LL=23% PI= 42% LS= 2% <75µm= 32%	SPT		
3	92.17			C	Sandy CLAY (Alluvium) Dark brown, moist, stiff. Medium plasticity, trace sand & organics.	(CI)				6, 5, 5 N=10	SPT		
4	91.07			D	Sandy CLAY (Alluvium) Brown, moist, very stiff. Low to medium plasticity, fine grained sand.	(CI)				6, 16, 13 N=29	SPT		
5	90.37			E	Clayey GRAVEL with cobbles (Alluvium) Brown & black, moist-wet, medium dense. Medium to coarse grained gravel, trace clay & sand.	(GC)				14, 13, 16 N=29	SPT		
6	89.07			F	Clayey SAND (Alluvium) Brown, moist, medium dense. Medium grained sand, low plasticity fines, trace gravel.	(SC)				16, 9, 7 N=16	SPT		
7	88.37			G	BASALT (Kb) HW: Brown, fine grained, massive, very low strength.					27, 30/140	SPT		
8				H		HW				22, 30/70	SPT		
9	85.77			J						30/80	SPT		
	84.97		(63) 100 (100)		BASALT (Kb) SW: Dark grey, fine grained, massive, very high strength. (See overleaf)	SW				Is(50)=8.90 MPa Is(50)=6.80 MPa	D (9.50m) A (9.65m)		

Continued on next sheet

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).

LOGGED BY	REVIEWED BY
M Ensor	S Foley



**Queensland  
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**GEOTECHNICAL  
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BOREHOLE No **BH2**

Sheet 2 of 2

REFERENCE No **H1286**

PROJECT	Valentine Creek Bridge Geotechnical Investigation				
LOCATION	Abut A, RHS	COORDINATES 214385.2 E; 7391798.7 N			
PROJECT No	FG6483	SURFACE RL	94.97m	PLUNGE	90°
		DATE STARTED	12/06/2017	GRID DATUM	MGA 94
JOB No	02790/16A/001	HEIGHT DATUM	AHD	BEARING	°
		DATE COMPLETED	12/06/2017	DRILLER	Schneider

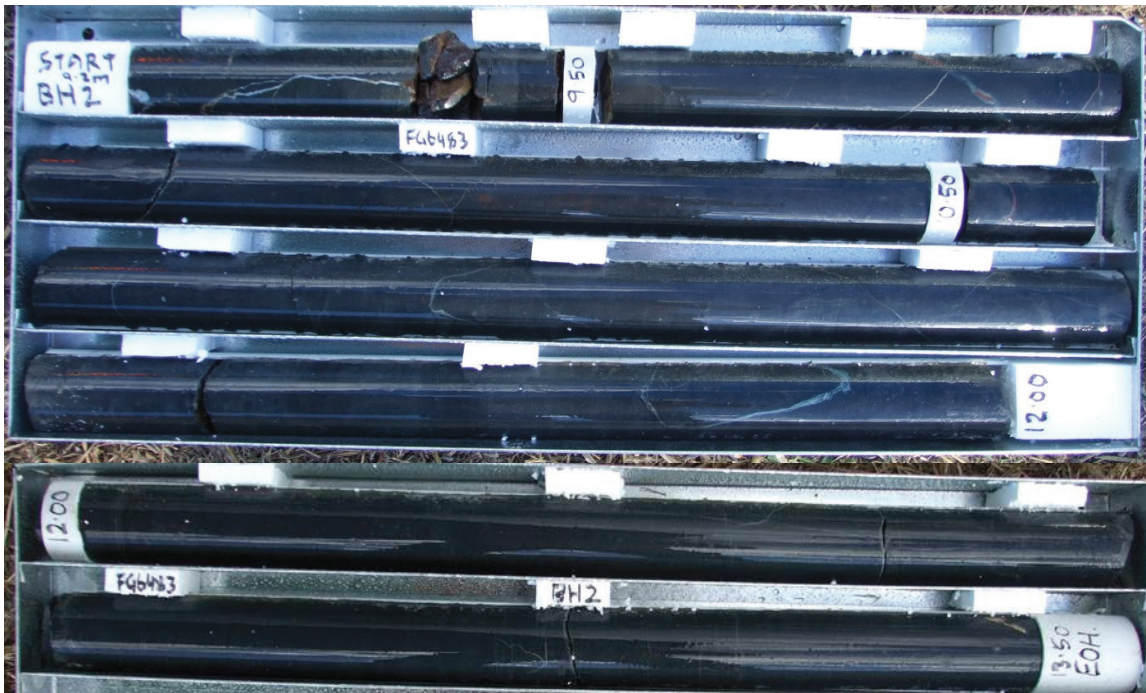
DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	RQD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH										DEFECT SPACING										ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS
								INTACT STRENGTH										DEFECT SPACING											
								EH	VH	H	M	J	VI	EL	EC	VC	O	M	W	VW	EW								
10.05			100 (100)		BASALT (Kb) SW: (Cont'd) - J: 5°-20° (1/m), PI-Stp/Ro, OP, some FeSt			[Strength Data]										[Defect Spacing Data]										UCS=186.00 MPa Is(50)=6.40 MPa Is(50)=3.70 MPa	(10.05m) D (10.17m) A (10.28m)
11.18						SW		[Strength Data]										[Defect Spacing Data]										Is(50)=7.90 MPa Is(50)=7.70 MPa	D (11.18m) A (11.30m)
12.81			100 (100)					[Strength Data]										[Defect Spacing Data]										Is(50)=7.20 MPa Is(50)=2.10 MPa	D (11.81m) A (11.93m)
12.81	81.47		100					[Strength Data]										[Defect Spacing Data]										UCS=153.00 MPa Is(50)=5.00 MPa Is(50)=8.10 MPa	(12.65m) A (12.75m) D (12.81m)
Borehole completed at 13.50m																													

REMARKS: Kb - Cretaceous aged Basalt (Unnamed).	<b>LOGGED BY</b>	<b>REVIEWED BY</b>
	M Ensor	S Foley

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



Project Name	<b>Valentine Creek Bridge Project (Capricorn Highway 16A)</b>		
Project No.	FG6483	Date Completed	12/06/17
Borehole No.	BH2	Reference Number	H12865
Location	Abut A, RHS	Start Depth (m)	9.20
Submitted By	Matthew Ensor	Finish Depth (m)	13.50
Remarks			



**SCALE (mm)**