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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH01**

Sheet 1 of 1

REFERENCE No **H12190**

PROJECT	Veloway 1 Stage E: Birdwood to Gaza Road				
LOCATION	Birdwood Road, RS Wall?		COORDINATES 505366.3 E; 6955576.0 N		
PROJECT No	FG6253	SURFACE RL	21.53m	PLUNGE	90°
				DATE STARTED	02/06/2015
				GRID DATUM	MGA94 Zone 56
JOB No	201/C001/4	HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	02/06/2015
				DRILLER	Geodrill

DEPTH (m)	R.L. (m)	AUGER CASING WASH BORING CORE DRILLING	ROD (%) CORE REC %	SAMPLE	MATERIAL DESCRIPTION	LITHOLOGY	USCS WEATHERING	INTACT STRENGTH	DEFECT SPACING	ADDITIONAL DATA AND TEST RESULTS	SAMPLES TESTS		
												EH	VH
0.0	21.13			A	Gravelly Silty CLAY (Topsoil) Mottled orange brown, moist, soft. Fine to medium gravel. Tree roots. Low plasticity. Silty CLAY (Residual) Pale grey to orange/red brown, moist, hard. Medium plasticity. Trace fine to medium sand and gravel.	(CL)					14, 20, 24 N=44	SPT	
1.0				B		(CI)					11, 16, 21 N=37	SPT	
2.0				C	METAGREYWACKE (Dcf) XW: Recovered as pale grey, moist, hard, Clayey SILT. Trace fine to medium sand. Trace fine gravel.						29, 30/80 hb	SPT	
3.0	18.73			D	Sand content increasing.	XW					30/100 hb	SPT	
4.0				E							30/130 hb	SPT	
5.0	16.40			(0)	METAGREYWACKE (Dcf) SW: Grey brown, fine grained, weakly foliated, high strength.	HW							
6.0			100 (34)		Defects: -FP: 30°-50° (2-6/m) Pl/Ro, TI, FeSt, some Cly Vr -J's: 10°-30° (2-5/m) Pl/Ro, TI, some FeSt. -J's: 70°-90° (1-2/m) Pl/Ro, TI-CD, Qz Ct <5mm or Cly Vr.	SW				5.50m: Cly seam, 20° <5mm	Is(50)=2.00 MPa	D (5.72m)	
7.0			100 (40)			MW				5.98m-5.99m: Cly Seam			
8.0						SW				7.25m: Qz Vn (3 subparallel), 70°, <5mm.	Is(50)=1.80 MPa Is(50)=1.30 MPa	D (7.12m) A (7.20m)	
9.0			100 (35)							8.45m: Qz Vn, 70° <5mm.	UCS=2.74 MPa	(7.65m)	
9.63	11.90		100								Is(50)=1.70 MPa Is(50)=1.20 MPa	D (8.72m) A (8.75m)	
Borehole completed at 9.63m													

REMARKS: Dcf - Neranleigh Fernvale Beds. Soil samples taken from 0.0-0.5m for environmental testing.	LOGGED BY	REVIEWED BY
	JL/DC	SF

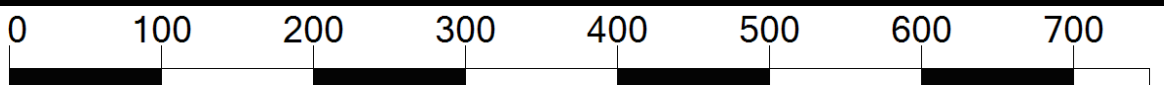
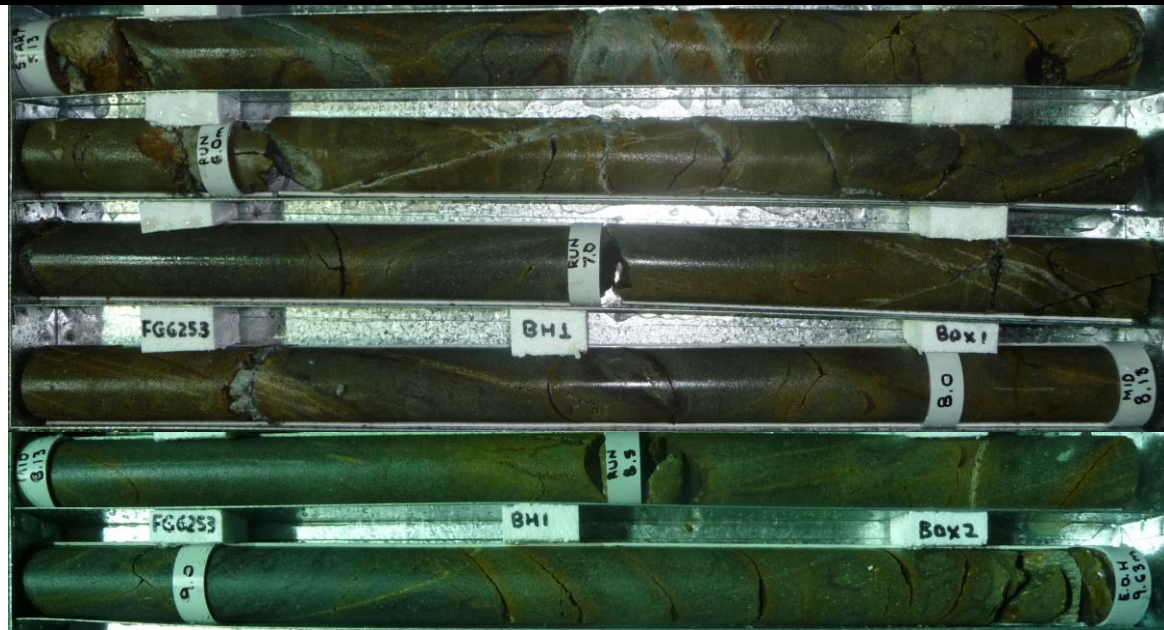
**CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT & MAIN ROADS  
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 35 Butterfield Street, HERSTON Qld 4006  
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Department of  
 Transport and Main Roads

Project Name	<b>Velway (V1), Section E: Birdwood to Gaza Road</b>		
Project No	FG6253	Date	2/6/15
Borehole No	BH 01	TMR H No	12190
Location	RS Wall?	Start Depth (m)	5.13
Detail		Finish Depth (m)	9.63
Chainage		Submitted By	J. Lopez
Remarks			



SCALE 1:5