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Queensland Government

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No **BH09**

Sheet 1 of 1

REFERENCE No **H12197**

PROJECT	Veloway 1 Stage E: Birdwood to Gaza Road				
LOCATION	Bridge over Marshall Rd and Bapaume Rd.			COORDINATES 505536.0 E; 6955231.9 N	
PROJECT No	FG6253	SURFACE RL	22.19m	PLUNGE	90°
				DATE STARTED	15/06/2015
				GRID DATUM	MGA94 Zone 56
JOB No	201/C001/4	HEIGHT DATUM	AHD	BEARING	°
				DATE COMPLETED	15/06/2015
				DRILLER	North Coast Drilling

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
21.99					ASPHALT							
21.59					Silty Sandy GRAVEL (Roadbase)		(GW)					
20.89				A	Grey brown, moist, medium dense. Gravel is angular <20mm. Clayey SAND with Gravel (Residual)		(SC)			6, 11, 18 N=29	SPT	
				B	Grey brown, moist, medium dense. Gravel <10mm, subangular. Sandy CLAY (Residual)		(CI)			4, 8, 11 N=19	SPT	
19.49					Grey, moist, very stiff. Sand is fine to medium grained. Medium plasticity.							
				C	Clayey Sandy GRAVEL (Residual)		(GC)			8, 13, 11 N=24	SPT	
18.59					Dark grey brown, moist, medium dense. Gravel is angular <20mm.							
				D	ARGILLITE (Dcf)		HW			30/100 hb	SPT	
			(0)		HW: Dark grey mottled orange brown, fine grained, foliated, extremely low to very low strength.		MW					
					Defects: Clayey zones throughout.		HW					
			100		Brecciated in parts. Foliation is crenulated in part.		XW			4.67m-4.92m: Qz Vn, subvertical, broken <20mm.		
			(0)		FP: 60°-90° (~5/m), Un/Sm-Ro, TI, Cly Vr, some Qz.					4.85m-5.13m: XW Gravelly CLAY		
					J's: 5°-15° (10/m), Pl/Sm, TI, Cly Vr.							
			100				HW					
			(27)									
15.94					ARGILLITE (Dcf)		MW					
					SW: Dark grey to grey, fine grained, foliated, high to very high strength.		SW			6.63m-6.78m: Greywacke	Is(50)=2.10 MPa D (6.47m)	
					Bedding is 40°-50°. Frequent Metagreywacke interbeds <350mm.		MW			6.94m-7.01m: XW Clayey SAND	Is(50)=0.73 MPa A (6.53m)	
			100		Foliation at 70°-80°.		MW			7.25m-7.30m: HW Clay	Is(50)=0.43 MPa D (6.60m)	
			(56)		Defects: FP: 70°-80° (<1/m) Un/Sm, TI, Cly Vr, FeSt		HW				UCS=9.44 MPa (7.40m)	
					BP: 40°-50° (1/m) Un/Ro, TI, FeSt					7.81m: FP, 50°, Pl, Fi, Cly 2mm.	Is(50)=1.70 MPa D (8.15m)	
					J's: 10°-30° (3/m) Pl/Ro, TI, FeSt.		SW				Is(50)=1.60 MPa A (8.18m)	
13.36			100		Borehole completed at 8.83m					8.50m-8.83m: Greywacke	Is(50)=2.90 MPa D (8.75m)	
											Is(50)=1.50 MPa A (8.78m)	

REMARKS: Dcf - Neranleigh Fernvale Beds. Soil samples taken from 0.0-0.5m for environmental testing.

LOGGED BY	REVIEWED BY
JA	SF

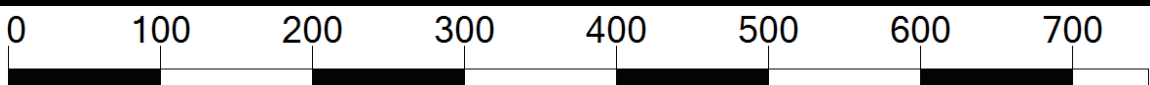
CORE PHOTO LOG

DEPARTMENT OF TRANSPORT & MAIN ROADS
 Geotechnical Branch
 35 Butterfield Street, HERSTON Qld 4006
 Phone 07 3066 3336



Department of
 Transport and Main Roads

Project Name	Velway (V1), Section E: Birdwood to Gaza Road		
Project No	FG6253	Date	15/06/15
Borehole No	BH09	TMR H No	12197
Location	Bridge over Marshall Rd and Bapaume Rd	Start Depth (m)	4.1
Detail		Finish Depth (m)	8.83
Chainage		Submitted By	DC
Remarks			



SCALE 1:5