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**Queensland  
Government**

**GEOTECHNICAL  
BOREHOLE LOG**

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

BOREHOLE No **BH31**

Sheet 1 of 2

REFERENCE No **H12294**

PROJECT	Veloway 1 Stage E: Birdwood to Gaza Road				
LOCATION	Embankment/Structure		COORDINATES 505727.2 E; 6954169.1 N		
PROJECT No	FG6253	SURFACE RL	44.23m	PLUNGE	90°
		DATE STARTED	30/06/2015	GRID DATUM	MGA94 Zone 56
JOB No	201/C001/4	HEIGHT DATUM	AHD	BEARING	°
		DATE COMPLETED	01/07/2015	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	VH
43.93					Silty SAND (Topsoil) Brown, dry, fine to medium grained. Rootlets.	(SM)							
43.23				A	Sandy CLAY (Residual) Red brown, dry, firm to stiff. Fine grained.					11, 21, 26 N=47	SPT		
					METAGREYWACKE (Residual) XW: Recovered as grey, orange brown, dry, fine to medium grained, dense, Silty SAND.								
				B	Becoming very dense.	XW				30/110mm hb	SPT		
				C	Becoming wet, brown grey, fine to coarse grained, Clayey SAND.					30/50mm hb	SPT		
39.53				(0)	METAGREYWACKE HW: Orange brown to grey, fine to medium grained, weakly foliated, low to medium strength. Some Argillite interbeds. Defects: - FP's: 55°-65° (4-5/m), Pl/Ro, TI, FeSt, Cly Vr - J's: 50°-55° (2/m), Pl/Ro, TI, FeSt - J's: 5°-10° (3-4/m), Pl/Ro, TI, FeSt, Cly Vr.	HW			<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">4.92m-4.98m: Argillite interbed</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">5.00m-5.03m: BZ</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">5.34m: J, 80°, Un/Ro, Cly FD</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">5.63m-5.72m: Argillite interbed.</span> </div> </div>				
				100 (45)									
37.63					METAGREYWACKE MW: Orange grey, fine to coarse grained, weakly foliated, generally medium to high strength. Defects: -FP: 40°-50° (3-4/m), Pl/Sm, TI, FeSt J's: 5°-10° (4/m), Pl/Ro, TI, FeSt	MW				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">9.15m-9.25m: BZ, Cly</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <div style="width: 15px; height: 10px; border: 1px solid black; background-color: #ccc; margin-right: 5px;"></div> <span style="font-size: 8px;">9.80m-9.95m: BZ</span> </div> </div>	Is(50)=0.59 MPa A (6.72m) Is(50)=0.30 MPa D (6.88m)		
				100 (87)						Is(50)=0.30 MPa A (7.65m)			
				100 (21)						Is(50)=0.19 MPa A (8.00m) Is(50)=0.24 MPa D (8.15m)			
34.23				100 (59)		HW MW							

Continued on next sheet

REMARKS: Dcf - Neranleigh Fernvale Beds.

LOGGED BY	REVIEWED BY
T.Goosey	S.Foley



Queensland Government

GEOTECHNICAL BOREHOLE LOG

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

BOREHOLE No BH31

Sheet 2 of 2

REFERENCE No H12294

PROJECT Veloway 1 Stage E: Birdwood to Gaza Road

LOCATION Embankment/Structure

COORDINATES 505727.2 E; 6954169.1 N

PROJECT No FG6253 SURFACE RL 44.23m PLUNGE 90° DATE STARTED 30/06/2015 GRID DATUM MGA94 Zone 56

JOB No 201/C001/4 HEIGHT DATUM AHD BEARING ° DATE COMPLETED 01/07/2015 DRILLER North Coast Drilling

Main borehole log table with columns for Depth (m), R.L. (m), RQD (%), Sample, Material Description, Lithology, USCS Weathering, Intact Strength, Defect Spacing, Additional Data and Test Results, and Samples Tests.

Summary table with columns: REMARKS: Dcf - Neranleigh Fernvale Beds, LOGGED BY: T.Goosey, REVIEWED BY: S.Foley

**CORE PHOTO LOG**

DEPARTMENT OF TRANSPORT & MAIN ROADS  
 Geotechnical Branch  
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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	01/07/15
Borehole No	BH 31	TMR H No	12294
Location	Embankment/Structure	Start Depth (m)	4.7
Detail		Finish Depth (m)	10.7
Chainage		Submitted By	TJG
Remarks			



SCALE 1:5