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GEOTECHNICAL BOREHOLE LOG BH01

In Accordance with AS1726:2017

Geotechnical Investigation
B-N Rd and Maudsland Rd
Mount Nathan, QLD
17820.000.001

Client : Roadtek
Date : 1/10/2020
Hole Depth : 6.1 m
Core Diameter : 52 mm
Drilling Method : Mud Rotary

Drilling Contractor : Redlands Ltd
Logged/Reviewed By : AK/SF
Easting/Northing (MGA94) : 526854.25 / 6906970.49
Page :
Datum/Surface RL : GHD/51.9 m

Depth (m BGL)	Drilling Method	Water Level	Elevation (RL)	TCR (%) / RQD (%)	Stratigraphic Unit	Group Symbol (USCS)	MATERIAL DESCRIPTION	Log Symbol	Weathering	Estimated Intact Strength	Average Defect Spacing (ISO14689:2017)	Additional Comments	Test Results
					T	ML	Clayey SILT trace rootlets (Topsoil) Dark brown, dry, stiff.						
					Residual	ML	Sandy SILT trace gravel (Residual) Pale brown, dry, very stiff.						
1	Auger		51										
	SPT						Interbedded METAGREYWACKE and ARGILLITE (Dcf) XW: Recovered as clayey SILT trace gravel. Pale grey mottled brown-orange, hard, dry, low plasticity.		XW			1.14 m - 1.23 m: No recovery	
2			50						XW				
				95 / 6					HW				
									XW			2.0 m: HW 70 mm	
									HW				
									XW			2.31 m: Shear zone 40 mm	
									HW			2.42 m: XW 100 mm	
3			49				Interbedded METAGREYWACKE and ARGILLITE (Dcf) HW: Orange-brown, dark grey and pale grey, fine to coarse grained, thickly laminated to thinly bedded, typically low strength, RQD (per RMU) = 12%. Extremely weathered zones encountered throughout. BP: 20° to 35°, (8-10/m), Sm, TI, Fe Stn.		XW			2.8 m: XW zone 150 mm	
	NMLO								HW				
									XW			3.05 m: XW zone 320 mm	
4			48				Interbedded METAGREYWACKE and ARGILLITE (Dcf) MW: Pale grey-brown, dark grey and orange-brown, fine to coarse grained, thickly laminated to thinly bedded, medium to high strength, RQD (per RMU) = 28%. BP: 15° to 30°, (7-9/m), Sm, TI, Fe Stn Js: 40° to 60°, (1-2/m), Ro, TI, Fe Stn.						
				100 / 6					MW				
									HW				
5			47						MW				

Notes:

Borehole met target depth

T = TOPSOIL

$I_{s(50)}(D) = 0.42$
MPa

GEOTECHNICAL BOREHOLE LOG - AU BH LOGS.GPJ NZ DATA TEMPLATE 2.GDT 2/11/20



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Depth (m BGL)	Drilling Method	Water Level	Elevation (RL)	TCR (%) / RQD (%)	Stratigraphic Unit	Group Symbol (USCS)	MATERIAL DESCRIPTION	Log Symbol	Weathering	Estimated Intact Strength	Average Defect Spacing <small>(ISO14689:2017)</small>	Additional Comments	Test Results
6	NMLC		46	100 / 29	Neranleigh - Fernvale Beds (DCf)		Interbedded METAGREYWACKE and ARGILLITE (DCf) MW: Pale grey-brown, dark grey and orange-brown, fine to coarse grained, thickly laminated to thinly bedded, medium to high strength, RQD (per RMU) = 28%. BP: 15° to 30°, (7-9/m), Sm, Tl, Fe Stn Js: 40° to 60°, (1-2/m), Ro, Tl, Fe Stn.		MW	<div><div>Very Low</div><div>Low</div><div>Medium</div><div>High</div><div>Very High</div><div>Extremely High</div><div>Extremely Close</div><div>Very Close</div><div>Close</div><div>Medium</div><div>Wide</div><div>Very Wide</div></div>	<div><div>5.2 m: Shear zone 30 mm</div><div>5.54 m: Shear zone 30 mm</div></div>	<div><div>$I_{SI(D)} = 0.35$ MPa</div></div>	

End of Hole Depth : 6.1 m

Notes:

Borehole met target depth

T = TOPSOIL