



Job n P207448

file:

Project: George Town Substation Geotechnical Investigation	Borehole commenced: 9/12/08
Borehole Location: 490294E 5446905N	Borehole completed: 9/12/08
	Borehole Logged by: Bruce Taylor
	Log Checked by: CJD

Drill model and mounting: Pollock Special	slope: 90	R.L surface 55	Driller: Mark Barnett
hole diameter: 56mm	bearing: n/a	datum GDA	

drilling information				material substance										
method	penetration	support	water	notes samples tests, etc	R.L	depth metres	graphic log	classification	symbol	material	moisture condition	consistency, density index	hand penetrometer	structure and additional observations
1 2 3										soil type; plasticity or particle characteristics, colour, secondary and minor components.			kPa	
T										TOPSOIL				
						1		GM		Fill, sand and silt, grey silty GRAVEL AND SAND, orange brown, minor clay and rock frags and Pisolites	D	L	Fb	
				pp: 450kpa @ 0.8 pp: 450kpa @ 1.2 pp: 550kpa @ 1.5		2		GC		clayey GRAVEL AND SAND, orange brown, bulk sand and rock fragments (basalt), pisolites.	M	Vst - H		
				pp: 350-450 kpa @ 1.8 pp: 500kpa @ 2.4 pp: 500 - >600kpa from 2.5-3.4 pp: 350-400 kpa from 3.4-4.0		3		CL		Silty CLAY, low plasticity, yellow grey, minor sand and gravel	M	Vst		
						4				CORE LOSS, silty clay				
						5		CL		CORE LOSS	M	Vst		
				pp: 300kpa @ 5.1		6		CL		CORE LOSS	M	Vst		
				pp: 300kpa @ 6.4 pp: 300kpa from 6.4-7.1		7		CH		Silty CLAY, high plasticity, pale blue grey	M	Vst		
										Hole terminated @ 7.1m				

<b>KEY</b> <b>method</b> AS auger screwing* AD auger drilling* RR roller/Incone W washbore CT cable tool HA hand auger DT dialube B blank bit V V bit T TC bit * bit shown by suffix e.g. ADT	<b>support</b> T - timbering N - Nil C - casing <b>penetration</b> 1 2 3 no resistance ranging to refusal <b>water</b> level (date) inflow outflow	<b>notes - samples and tests</b> U <sub>50</sub> undisturbed sample 50mm diameter D disturbed sample N standard penetration test (SPT) N SPT - sample recovered Nc SPT with solid cone V vane shear (kPa) P pressure meter Bs bulk sample R refusal	<b>classification symbols and soil description</b> based on Unified Classification System <b>moisture condition</b> D dry M moist W wet Wp plastic limit WI liquid limit	<b>consistency/density/index</b> VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense
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