



Job n P207448

file:

Project: George Town Substation Geotechnical Investigation

Borehole commenced: 10/12/08

Borehole Location: 490289E 5446883N

Borehole completed: 10/12/08

Borehole Logged by: Bruce Taylor

Log Checked by: CJD

Drill model and mounting: Poltock Special
hole diameter: 56mm

slope: 90
bearing: n/a

R.L surface 54m
datum GDA

Driller Mark Barnett

| 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 | |
| | | | | pp: > 600kpa from 0.8-1.4 | | 1 | | GC | | TOPSOIL clayey GRAVEL and sand, low plasticity, orange red brown, bulk rock frags, pisolithes, highly ferruginous | | H | | X |
| | | | | pp: 400kpa @ 1.9 | | 2 | | CH | | CORE LOSS Silty CLAY, medium to high plasticity, blue grey and orange brown, minor sand | M | VST H | | X |
| | | | | pp: 300kpa from 2.1-2.6 | | 3 | | | | | | | | X |
| | | | | pp: 350kpa @ 2.7 | | 3 | | | | | | | | X |
| | | | | pp: 500kpa from 2.8-3.8 | | 4 | | CL | | Silty CLAY, low to medium plasticity, pale yellow grey, minor to moderate sand. | M | VST | | X |
| | | | | pp: 250-350 from 3.8-4.9 | | 4 | | | | | | | | X |
| | | | | pp: 300kpa @ 5.0 | | 5 | | | | | | | | X |
| | | | | pp: 300kpa @ 6.0m | | 6 | | | | | | | | X |
| | | | | pp: 150kpa @ 6.8 | | 7 | | | | | | | | X |
| | | | | | | | | | | Hole terminated @ 7.0m. | | | | |

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|---|--|--|---|---|
| KEY method AS auger screwing* AD auger drilling* RR roller/tricone 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 | support T - limbering N - Nil C - casing penetration 1 2 3 no resistance ranging to refusal water level (date) inflow outflow | notes - samples and tests U ₅₀ 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 | classification symbols and soil description based on Unified Classification System moisture condition D dry M moist W wet Wp plastic limit Wl liquid limit | consistency/density/index 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 |
|---|--|--|---|---|