



Job n P207448

file:

Project: George Town Substation Geotechnical Investigation

Borehole commenced: 11/12/09

Borehole Location: 490267E 5446902N

Borehole completed: 11/12/09

Borehole Logged by: Bruce Taylor

Log Checked by: CJD

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

slope: 90
bearing: n/a

R.L surface
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.			100 200 300 400	
T								SW		TOPSOIL SAND, silt, grey				
				pp=350kpa from 1-1.5 pp=250kpa from 1.7-1.9		1		GC		clayey GRAVEL and sand, low plasticity, orange red brown, bulk rock frags.	M	VSt		
						2		CL		Silty CLAY, medium plasticity, orange brown, Rock frags	M	VSt		
				pp=350-450kpa 2.7-3.3 pp=450-550kpa from 3.3-3.9 pp=550kpa from 4.0-4.3		3				CORE LOSS				
						4		CH		Silty CLAY, high plasticity, orange brown and bluegrey, minor F.g. sand.	M	VSt/H		
						5		CL		Silty CLAY, Low plasticity	M	H		
						6				CORE LOSS				
						7		CL		Silty CLAY, low plasticity, yellow brown	M	VSt/Fb		
										Hole terminated @ 7.3m				

KEY

method	
AS	auger screwing*
AD	auger drilling*
RR	roller/icone
W	washbore
CT	cable tool
HA	hand auger
DT	diatube
B	blank bit
V	V bit
T	TC bit
* bit shown by suffix	
e.g. ADT	

support

T	- timbering	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	frable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense