

CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

16 Kane Road, Wodonga - Postal Address P.O Box 876, Wodonga 3689

Telephone 0260 243960 Mobile 0407 572489 Facsimile 0260 567017

13.10.2010

Report No. : 10CT731/4

Arbor Estates Pty Ltd
C/o EDM Group
P O Box 317
Wodonga, Vic, 3689

**Re: Site Classification for proposed residence
Lot 4 Silky Oaks Estate
Wodonga, Vic, 3690**

An investigation was carried out on 1.10.2010 to determine a soil classification for the above site. The site is moderately sloping and lightly grassed. The surface drainage on site is good.

FIELD RESULTS

Materials encountered during the field investigation are described in the attached investigation log and in general consists of controlled fill overlaying silty sands and sandy clays of low to high plasticity.

SITE CLASSIFICATION

Based on the results of the investigation the site has been classified as Class "M" Moderately Reactive site in accordance with AS 2870-1996 Residential Slabs and Footings - Site Classification by surface Movement Calculation.

Recommendations for this Site:

The footings of a conventional slab may be designed for a Class "M" site classification with the external beams founded a minimum of 300mm below existing surface level.

If piers, stumps or strip footings are used on this site they should be founded a minimum of 500mm below existing surface level.

The site should be stripped of all vegetation and topsoil, with any areas of soft, loose or wet material selectively excavated to provide a firm, working base.

The allowable bearing pressure for this site is 125kPa from 300mm in depth.

GENERAL NOTE : FILL MATERIAL

Some building sites may contain areas of fill, which cannot be visually identified at the time of investigation. It is also often difficult to determine fill from natural insitu materials during a site investigation borehole. If fill is encountered during excavation of footings, and it is not described in the field investigation log, further advice must be obtained.

Where controlled (compacted) fill is encountered, the amount of compacted fill allowable is up to 800mm of "sand" fill or 400mm of "other" fill. AS 2870 - 1996 provides details of additional construction requirements for controlled fill sites.



P.C. Vella

CIVIL TEST ALBURY WODONGA

Form CT132/3

SOILS ENGINEERING LABORATORY

Borehole/Trench No: 1

Page : 1 of 1

INVESTIGATION LOG

REPORT NO: 10CT731

Client: Arbor Estates Pty Ltd	Date Logged: 1/10/2010
Investigation For: Site Classification	Logged By: PV
Location: Lot 4 Silky Oak Estate, Wodonga	Checked By: PCV
Borehole/Trench Location: Centre of Lot	Date: 4/10/2010

Method: Hand Auger Backhoe Drill Rig Other Alignment: **90°**

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	CBR *	SAMPLE TAKEN	REMARKS
400	Sandy CLAY, brown Fine to medium grained High plasticity	Moist	Stiff			FILL
700	Sandy CLAY, red-brown Fine to coarse grained Medium plasticity					
1400	Sandy Silty CLAY, red-brown Fine to coarse grained Medium plasticity		Very Stiff			Weathered Mudstone
1700	Sandy CLAY, grey & red-brown Fine to medium grained High plasticity					
2000	Silty SAND, grey Fine to medium grained Low plasticity		Dense			
2200	Sandy CLAY, grey & yellow-brown Fine to medium grained, high plasticity		Very Stiff			
	Bore Terminated at 2.2m					

ISS - Shrink Swell Index

LL - Liquid Limit

LS - Linear Shrinkage

DRAINAGE: -General Good Fair Poor Free Water Swampy Subject to Flooding

TOPOGRAPHY:

-General Flat Undulating Hilly

-Local Flat Moderate Slope Dip Valley High Flat Low Flat Crest Steep Slope

----W---- - Water Level
 <----- - Water Inflow
 MD - Medium Dense
 Vst - Very Stiff

D -Disturbed Sample
 U50 -Undisturbed Sample 50mm dia
 CBR* -9kg Scala Dynamic Cone
 MC -Moisture Content Taken