# CIVILTEST ALBURY WODONGA

**Soils Engineering Laboratory**

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13.10.2010

**Report No. : 10CT731/30**

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

**Re: Site Classification for proposed residence**
**Lot 30 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 "MD" Moderately Reactive-Deep 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 "MD" 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 600mm 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

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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 30 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 |
|---|---|---|---|---|---|---|
| | Sandy CLAY, brown<br>Fine to coarse grained<br>Medium plasticity | Moist | Stiff | | | FILL |
| 500 | Silty SAND, brown<br>Fine to coarse grained, low plasticity | | Medium Dense | | | |
| 700 | Silty SAND, light brown<br>Fine to coarse grained, low plasticity | | Dense | | | |
| 900 | Sandy CLAY, yellow-brown<br>Fine to medium grained<br>High plasticity | | Very Stiff | | | |
| 1200 | Sandy CLAY, orange & red-brown<br>Fine to medium grained<br>Medium plasticity | | | | | |
| 1900 | Sandy CLAY, brown<br>Fine to medium grained<br>High plasticity | | | | | |
| 2200 | 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