

CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

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02.06.2011

Report No. : 11CT544/57

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

**Re: Site Classification for proposed residence
Lot 57 Silky Oaks Estate, Stage 5
Wodonga, Vic, 3690**

An investigation was carried out on 31.05.2011 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 clayey sands and silty 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 2870-2011 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 - 2011 provides details of additional construction requirements for controlled fill sites.



P.C. Vella

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Form CT132/3

SOILS ENGINEERING LABORATORY

INVESTIGATION LOG REPORT NO: 11CT544

Borehole/Trench No: 1

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Client: Arbor Estates Pty Ltd Investigation For: Site Classification Location: Lot 57 Silky Oak Estate, Stage 5, Wodonga Borehole/Trench Location: Centre of Lot	Date Logged: 31/05/2011 Logged By: PJ JJ Checked By: PCV Date: 01/06/2011
Method: <input type="checkbox"/> Hand Auger <input type="checkbox"/> Backhoe <input checked="" type="checkbox"/> Drill Rig <input type="checkbox"/> Other	Alignment: 90°

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS
150	Clayey SAND, dark brown Fine to medium grained, low plasticity	Moist	Stiff			
250	Clayey SAND, brown Fine to medium grained, low plasticity		Very Stiff			
	Silty CLAY, red-brown Fine to medium grained High plasticity					
1000	Silty CLAY, orange-brown Fine to medium grained High plasticity					
1500	Silty CLAY, red-brown Fine to medium grained High plasticity					
2100	Bore Terminated at 2.1m					

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

U50

CBR*

MC

-Disturbed Sample

-Undisturbed Sample 50mm dia

-9kg Scala Dynamic Cone

-Moisture Content Taken