CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory
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13.10.2010
Report No. : 10CT731/22

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

Re: **Site Classification for proposed residence**
Lot 22 Silky Oaks Estate
Wodonga, Vic, 3690

An investigation was carried out on 2.10.2010 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 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 "H" Highly 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 "H" 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

SOILS ENGINEERING LABORATORY

Borehole/Trench No: 1

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INVESTIGATION LOG
REPORT NO: 10CT731

Client: **Arbor Estates Pty Ltd**	Date Logged: **2/10/2010**
Investigation For: **Site Classification**	Logged By: **PV**
Location: **Lot 22 Silky Oak Estate, Wodonga**	Checked By: **PCV**
Borehole/Trench Location: **Centre of Lot**	Date: **4/10/2010**

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

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	CBR *	SAMPLE TAKEN	REMARKS
100	Silty SAND, brown. Fine to medium grained, low plasticity	Moist	Medium Dense			
500	Sandy CLAY, red-brown. Fine to medium grained. High plasticity		Firm / Stiff			
1100						
1500	Sandy CLAY, brown. Fine to medium grained. High plasticity					
2200	Sandy CLAY, yellow & orange-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 [x] Fair [ ] Poor [ ] Free Water [ ] Swampy [ ] Subject to Flooding [ ]

TOPOGRAPHY:

-General Flat [ ] Undulating [x] Hilly [ ]

-Local Flat [ ] Moderate Slope [x] Dip [ ] Valley [ ] High Flat [ ] Low Flat [ ] Crest [ ] Steep Slope [ ]

----W----	- Water Level	D	-Disturbed Sample
<--------	- Water Inflow	U50	-Undisturbed Sample 50mm dia
MD	- Medium Dense	CBR*	-9kg Scala Dynamic Cone
Vst	- Very Stiff	MC	-Moisture Content Taken