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

21.10.2011

Report No.: 11CT853/86

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

Re: Site Classification for proposed residence

Lot 86 Silky Oak Estate, Stage 6

Wodonga, Vic, 3690

An investigation was carried out on 21.9.2011 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 controlled fill overlaying sandy clays of medium 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 250mm 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 250mm 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

CIVILTEST ALBURYWODONGA

SOILS ENGINEERING LABORATORY

INVESTIGATION LOG

Vst

- Very Stiff

Borehole/Trench No: 1

Page : 1 of 1

REPORT NO: 11CT853							
Client: Ar	bor Estates Pty Ltd	Date	Date Logged: 21/9/11				
Investigat	ion For: Site Classification	Logged By: PJ					
Location:	Lot 86 Silky Oak Estate, Stage 6, Wodonga	Checked By: PCV					
Borehole/Trench Location: Centre of Lot		Date: 22/9/2011					
Method: Hand Auger Backhoe Drill Rig		Other Alignment:90°					
DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS	
	Gravelly Sandy CLAY, dark brown	Moist	Stiff			FILL	
	Fine to coarse grained						
300	Medium plasticity, gravel to 20mm						
	Gravelly Sandy CLAY, brown						
-	Fine to coarse grained						
	Medium plasticity, gravel to 40mm						
	<u> </u>						
800	Sandy CLAY, brown	-					
1000	Fine to medium grained, medium plasticity						
1000	Sandy CLAY, orange-brown mottled		Very				
	Fine to medium grained		Stiff				
	High plasticity						
1500							
	Gravelly Sandy CLAY, brown						
1600	Fine to coarse grained, high plasticity gravel to 20mm						
	Sandy CLAY, red-brown						
1800	Fine to medium grained, high plasticity						
	Refusal at 1.8m						
	<u> </u>						
	<u> </u>						
	<u> </u>						
	<u> </u>						
	<u> </u>						
	<u> </u>						
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 D	-Disturbed Sample					
< MD	- Water Inflow U50 - Medium Dense CBR*	-Undisturbed Sample 50mm dia -9kg Scala Dynamic Cone					

MC

-Moisture Content Taken