CIVILTEST ALBURY WODONGA

Soils Engineering Laboratory

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21.03.2011

Report No.: 11CT207/52

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

Re: Site Classification for proposed residence

Lot 52 Silky Oaks Estate Wodonga, Vic, 3690

An investigation was carried out on 02.02.2011 to determine a soil classification for the above site. The site is essentially flat 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 2870-2011 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 "M" 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 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 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

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SOILS ENGINEERING LABORATORY

INVESTIGATION LOG

Borehole/Trench No: 1

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REPORT NO: 11CT207							
Client: Arbor Estates Date Logged: 02/02/2011							
Investigation For: Site Classification		Logged By: PJ & JJ					
Location: Lot 52 Silty Oaks Estate, Wodonga		_	Checked By: PCV				
Borehole/Trench Location: Centre of Lot			Date: 10/03/2011				
Method: Hand Auger Backhoe Drill Rig							
1		_			1		
DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS	
150	Sandy SILT, dark brown Fine to medium grained, low plasticity	Moist	Medium Dense			FILL	
100	Gravelly Sandy CLAY, orange-brown		Very				
400	Fine to coarse grained, high plasticity		Stiff				
	Silty Sandy CLAY, red-brown						
	Fine to coarse grained						
	High plasticity, trace gravel						
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900	Gravelly Silty SAND, brown	\dashv	Medium				
-	Fine to coarse grained		Dense				
-	Low plasticity		Delise				
1200	Silty SAND, brown	_					
-	Fine to medium grained						
-	Low plasticity						
1600	Clayey SAND, brown	_					
4000	Fine to coarse grained, low plasticity						
1800	Sandy CLAY, brown	+	Stiff				
-	Fine to medium grained		Ou.				
2400	 Medium-high plasticity						
2100	Bore Terminated at 2.1m						
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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 Hilly							
-Local Flat Moderate Slope Dip Valley High Flat Low Flat Crest Steep Slope							
W	- Water Level D	-Disturbed	-Disturbed Sample				
<	- Water Inflow U50	-Undisturb	-Undisturbed Sample 50mm dia				
MD Vst	- Medium Dense CBR* - Very Stiff MC		-9kg Scala Dynamic Cone				
v Sl	- very our ivic	-Moisture Content Taken					