

# CIVILTEST ALBURY WODONGA

## Soils Engineering Laboratory

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22.5.2012

Report No. : 12CT469/93

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

**Re: Site Classification for proposed residence  
Lot 93 Silky Oak Estate, Stage 7  
Wodonga, Vic, 3690**

An investigation was carried out on 10.5.2012 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 sandy 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 external footings for a waffle pod slab may be designed for a Class "MD" site classification with the external beams founded a minimum of 300mm 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

Borehole/Trench No: 1

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### INVESTIGATION LOG REPORT NO: 12CT469

Client: <b>Arbor Estates Pty Ltd</b>	Date Logged: <b>10/5/2012</b>
Investigation For: <b>Site Classification</b>	Logged By: <b>PJ</b>
Location: <b>Lot 93, Silky Oak Estate, Stage 7, Wodonga</b>	Checked By: <b>PCV</b>
Borehole/Trench Location: <b>Centre of Lot</b>	Date: <b>14/5/2012</b>
Method: <input type="checkbox"/> Hand Auger <input type="checkbox"/> Backhoe <input checked="" type="checkbox"/> Drill Rig <input type="checkbox"/> Other	
Alignment: <b>90°</b>	

DEPTH mm	MATERIAL DESCRIPTION & CLASSIFICATION	MOISTURE CONDITION	CONSIST. DENSITY INDEX	VS kPa	SAMPLE TAKEN	REMARKS
200	Silty SAND, dark brown	Moist	Medium			
	Fine to medium grained, low plasticity		Dense			
500	Gravelly Sandy CLAY, red-brown		Stiff			
	Fine to coarse grained					
	Medium-high plasticity					
800	Silty Sandy CLAY, dark brown		Firm			
	Fine to coarse grained					
	Medium-high plasticity, trace gravel					
1100	Silty Sandy CLAY, dark brown					
	Fine to medium grained					
1300	Low-medium plasticity					
	Silty Sandy CLAY, brown					
1700	Fine to medium grained, medium plasticity	Very Stiff				
	Silty Sandy CLAY, orange-brown					
	Fine to medium grained					
2100	High plasticity					
	Silty Sandy CLAY, red & grey-brown					
	Fine to medium grained					
	High plasticity					
	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 - Disturbed Sample  
 U50 - Undisturbed Sample 50mm dia  
 CBR\* - 9kg Scala Dynamic Cone  
 MC - Moisture Content Taken