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Date: 11th October, 2011

Reference number: 11C 924 (8)

SITE CLASSIFICATION

Client:

Dunlop & Pitson Earthmoving

24 Jewell Court Bendigo, VIC 3550

Project:

Lot 8 Goldie Street, Marong

1 INTRODUCTION

Dunlop & Pitson Earthmoving commissioned Geotechnical Testing Services to conduct a geotechnical investigation for a proposed residential development located at Lot 8 Goldie Street, Marong.

The investigation has been conducted for the purpose of assessing general subsurface conditions at the site and consequently assigning a Site Classification in accordance with AS2870 – 2011 "Residential Slabs and Footings".

2 INVESTIGATION

The investigation was carried out by a technician on the 10th October, 2011 using a vehicle mounted drillrig and drilling 2 boreholes to depths of 1.8 to 3.0 metres within the designated area. Dynamic Cone Penetrometer (DCP) tests were also undertaken. The subsequent soil profiles and DCP results are presented in page 4 and the location of the boreholes are presented on page 5.

At the time of this investigation, the type of development proposed was unknown to GTS.

3 SITE CONDITIONS

The site is relativity flat and is currently vacant. The surface of the site was moist with no ground covering. There is several large gum trees located outside the front boundary. There was no visual evidence of surface cracking. No groundwater seepage was encountered over the investigated depths.

Full details of soil conditions are presented in the borehole logs.



Bendigo Office: PO Box 555, Golden Square 3555 P (03) 5441 4881 F (03) 5441 5089



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4 SITE CLASSIFICATION

After allowing due consideration to the site geology, soil conditions, drainage and known details of the proposed structure, the site has been classified as $Class\ P$ due to the presence of the existing gum trees which may cause abnormal moisture conditions. (AS2870 – 2011)

The clay material at the site would generally lead to a Class M-D classification.

Foundations designed in accordance with this classification are to be subject to the overriding conditions of Section 5 below.

5 DISCUSSION

Particular attention should be paid to the design of footings as required by AS2870 – 2011.

In addition to the normal founding requirements arising from the above classification, particular conditions at the site dictate that the founding medium and minimum depth below existing surface levels for all footings should be as follows:

 Sandy Silty CLAY, medium plasticity, moist, brown, stiff At depths below 0.3 metres

An allowable bearing pressure of 100kPa is available for edge beams, strips and stump footings founded as above.

6 IMPORTANT NOTES ABOUT THIS REPORT

- The site classification presented in Section 4 assumes that the current natural drainage and infiltration conditions at the site will not be markedly affected by the proposed site development work. Care should therefore be taken to ensure that surface water is not permitted to collect adjacent to the structure and that significant changes to seasonal soil moisture equilibria do not develop as a result of service trench construction or tree root action.
- Attention is drawn to Appendix B of AS 2870 and CSIRO document, BTF 18 "Foundation Maintenance and Footing Performance: A Homeowner's Guide" as a guide to maintenance requirement for the proposed structure.
- This is not a comprehensive investigation nor is it economic or practical to determine every subsurface
 feature on the site. Although this investigation indicates that soil conditions are relatively uniform across
 the site, it is recommended that the base of all footing excavations be inspected to ensure that the
 founding medium meets that requirements referenced herein with respect to type and strength of founding



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materials. If further variations in descriptions in soil types, colour or depths are discovered during construction, this office should be notified immediately so that potential influence on the footings may be assessed.

- The soil colours provided in the borelogs attached may vary with soil moisture content and individual interpretation, therefore colour alone should not be used to identify these soils.
- Strength characteristics of soils often exhibit a large variation between wet and dry conditions. Soil characteristics of a soil profile are given on the soil conditions at the time of the investigation.
- In the event of significant earthworks being undertaken on the site after this investigation, this report may require an amendment if appropriate.
- If FILL is found during this investigation, it is an indication of what was found during the investigation and it
 may vary over the site. It may be in the best interest of the buyer / seller to undertake a more detailed
 investigation, in this instance.

Should you have any further queries concerning these results, please do not hesitate in contacting this office on 5441 4881

Yours faithfully

Daniel Curtain BE Geotechnical Engineer

Enclosed
Borelogs (Page 4)
Brief Site Map (Page 5)



GEOTECHNICAL TESTING SERVICES PTY LTD

Test Report

Borehole Logs

Client:	Dunlop & Pitson Earthmoving	Borehole Log No.:	1-2
		Report Number:	11C 924(8)
		Date Drilled:	10/10/11
Project:	Lot 8 Goldie Street	Logged By:	MB
	Marong	Drilling Method	AS
		Sheet 4 of 5	

Profile (mm):	* Structure: (see key)	Material Description:	Moisture Description:	Cohesion Density:	Plasticity:	Testing / Sampling:
0 to 200	Fill	BL-1 Clayey Silt Brown	D	L	-	DCP:1,1,
to 1800	Soil	Sandy Silty Clay Pale Brown	M	ST	M	3,3,5,5,4,5
to 3000	Profile	Sandy Clay Brown, Pale Brown	M	ST	M	No
0 to 200	Fill	BL-2 Clayey Silt Brown	D	L	(4)	No
to 1800	Soil Profile	Sandy Silty Clay Pale Brown	M	ST	М	No

Key:

Drilling Method:	Moisture Condition	Cohesion:	Density:	Testing/Sampling:
AS - Auger Screwing	D - Dry	VS - Very Soft	VL - Very Loose	PP - Pocket Penetrometer
HA - Hand Auger	M - Moist	S - Soft	L - Loose	V – Hand Vane Sheer
	W - Wet	F - Firm	MD - Medium Dense	DCP – Dynamic Cone Penetrometer
		ST - Stiff	D - Dense	SPT – Standard Penetration Test
		VST - Very Stiff	VD - Very Dense	US – Undisturbed Sampling
		H - Hard		DS – Disturbed Sampling
		VH – Very hard		* See notes on borelog location page (last).

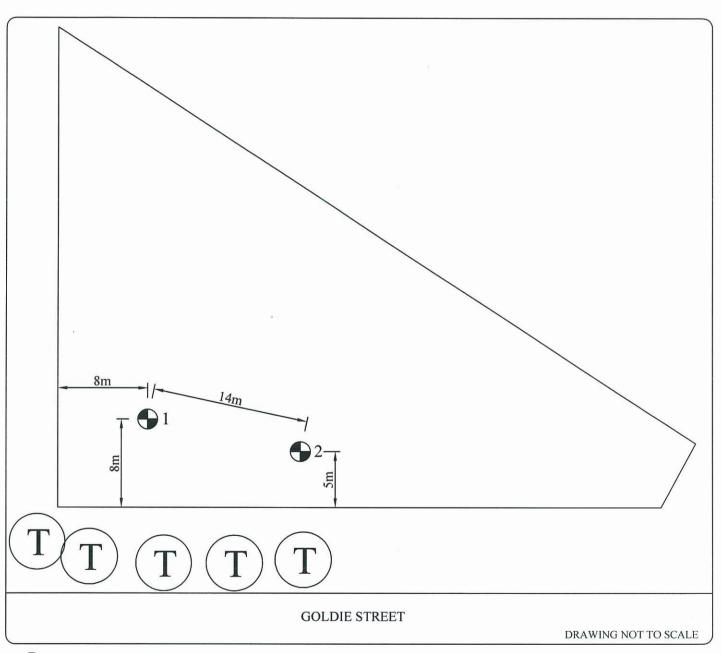
ACN: 106 940 194 ABN: 41 106 940 194



Borehole Locations GEDTECHNICAL TESTING SERVICES PTY LTD

Client:	DUNLOP & PITSON EARTHMOVING
Project:	LOT 8 GOLDIE STREET
•	MARONG

Borehole No.:	1 & 2		
Report No.:	11C 924(8)		
Date Drilled:	10/10/11		
Operator:	MB		
Drilling Method:	A.S		
Page No.:	5 of 5		



T = TREES