

Geotechnical Problems in  
Larnaca area

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## 1.0 SUMMARY

The scope of this project is to outline all the problems encountered in foundation engineering generally in Cyprus and in particular in the area of Larnaca, and to suggest ways to overcome them.

The whole work is divided into several chapters. The "Geotechnical Engineering" chapter refers to the scope for geotechnical engineering and its practice.

The types, purpose, design criteria and failures of foundations are stated in the "Foundation" chapter. In this chapter the foundation types used in Cyprus and the problems encountered in foundation engineering are also discussed.

Site investigation and Earthquake Engineering are of great importance in foundation engineering. Chapters 5 and 6 refer to them. Chapter 7 refers to the project area, its geographical description, geology and geotechnical hazards.

Piles and diaphragm walls are some of the methods considered overcoming the geotechnical hazards encountered in Larnaca area and elsewhere. All the methods are discussed in chapter 8.

Chapter nine states the problematic grounds in Larnaca area and the solution employed to one of these. Visits to the site and photos of this case were necessary for better presentation of the situation.

The study is concluded with comments on issues and problems related to foundations that one should be aware of in Larnaca area.

## CONTENTS

	Page
1.0 SUMMARY .....	1
2.0 INTRODUCTION .....	2
3.0 GEOTECHNICAL ENGINEERING .....	4
3.1 The scope of geotechnical engineering .....	4
3.2 Practice of geotechnical engineering .....	4
4.0 FOUNDATIONS .....	6
4.1 Purpose of foundations .....	6
4.2 Types of foundations .....	6
4.2.1 Shallow foundations .....	6
4.2.2 Deep foundations .....	9
4.3 Failures of foundations .....	13
4.4 Design criteria .....	14
4.5 Criteria for satisfactory performance .....	15
4.6 Foundation types, used in Cyprus .....	15
4.7 Problems encountered in Foundation Engineering .....	17
4.7.1 Settlement .....	17
4.7.2 Foundation heave .....	19
4.7.3 Swelling of soils .....	19
4.7.4 Erosion .....	20
4.7.5 Ground subsidence and collapse .....	20
4.7.6 Earthquakes .....	20
5.0 SITE INVESTIGATION .....	22
6.0 EARTHQUAKES .....	25
6.1 Earthquake and its origin .....	25
6.2 Site seismicity .....	26
6.3 Effects of geological setting .....	27
6.4 Seismic zoning .....	29

6.5	Guidelines for earthquake resistant design .....	30
7.0	PROJECT AREA .....	31
7.1	Brief Geographical Description .....	31
7.1.1	Physical setting of Cyprus .....	31
7.1.2	Physical description of project area ..	32
7.2	Regional Geology .....	32
7.3	Engineering Geology of soils in Larnaca ...	34
7.3.1	Materials .....	34
7.3.1.1	Fill .....	35
7.3.1.2	Reworked Marl .....	35
7.3.1.3	Recent Marine Deposits .....	36
7.3.1.4	Marine Terrace Deposits .....	38
7.3.1.5	Havara .....	40
7.3.1.6	Kafkalla .....	41
7.3.1.7	The pliocene Marl .....	41
7.4	Geotechnical hazards anticipated in the study area .....	42
7.4.1	Seismic hazard .....	42
7.4.2	Seaweed-rich Recent Marine deposits ...	43
7.4.3	Man made cavities .....	43
7.4.4	Solution cavities .....	44
7.4.5	Flooding .....	44
7.4.6	Aggressive Groundwater .....	45
8.0	WAYS TO OVERCOME THE ANTICIPATED PROBLEMS .....	47
8.1	Piles .....	47
8.2	Retaining walls for deep foundations .....	51
8.3	Dewatering and action of water on substructure .....	55
8.4	Other methods employed in solving foundation problems .....	56

	Page
9.0 PROBLEMATIC GROUNDS AND THE SOLUTION EMPLOYEED TO ONE OF THEM .....	58
9.1 Problematic grounds .....	58
9.2 Case history .....	60
10.0 CONCLUSIONS .....	63
REFERENCES .....	64