

Article

A Systematic Approach of Optimal Land-Use Planning by Applying Geo-Environmental Techniques: A Case Study

Essam A. Morsy ^{1,2}

¹ Department of Environmental and Health Research, Umm Al-Qura University, P.O. Box 6287, Makkah 21995, Saudi Arabia; essambrahim@uqu.edu.sa

² Geophysics Department, Faculty of Science, Cairo University, Giza P.O. Box 12613, Egypt

Abstract: This article demonstrates the capabilities and integrity of the environmental geological and geophysical techniques for planning the suitability of the extension of Helwan city for construction and engineering purposes. The geological and topographical mapping were utilized as well as environmental geophysical techniques (seismic refraction, ground penetrating radar (GPR), and resistivity soundings) for optimal land-use planning. The seismic refraction profiles were conducted to evaluate the geotechnical characteristics of the bedrock, GPR was applied to define the main subsurface reflectors, and the geoelectrical resistivity survey was used to identify the subsurface stratigraphic sequence and the distribution of main structural elements impacting the investigated area. The integrated results and findings of the environmental geological and geophysical survey inferred two major distinctive subsurface layers: a thin surface layer represented by highly weathered limestone, with an average thickness of 3 m, and a bottom layer equivalent to the bedrock composed of hard limestone. In addition, GPR performed an analysis of two remarkable subsurface layers, which supported the generated model of other geophysical surveying techniques. Finally, all the geological and various geophysical techniques were integrated and merged to generate the optimal land-use plan of the extension of Helwan city for construction and engineering purposes and to avoid high-risk areas to reserve the sustainability of the new urban communities.

Keywords: integrity; environmental; geological; geophysical; sustainability



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1. Introduction

As populations grow, available land will become a scarce natural resource, especially for the already-existing urban communities. As more land is planned to be developed, effective planning will counteract the negative effects of its use and development. The numerous benefits of effective land-use planning can include the following: creating a generic framework for the proposed urban project, aiding the anticipation of the future plan of the investigated site, implementing sustainable infrastructure utilities, direct positive impact on the local urban economy, optimal use and conservation of natural resources along with protection of the environment, minimizing the associated risks of the natural hazards, and avoiding land-use conflicts [1–3].

For an optimal planning and effective development of the investigated site, a suggested joint integrated approach of geophysical methods including the electrical resistivity, seismic refraction methods, ground penetrating radar, and geological mapping were implemented throughout the study area. Geophysical indicators, including electrical resistivity, seismic velocity, and electromagnetic signature, give a clear image about the subsurface layering sequence and the degree of rock weathering or fracturing [4,5].

The investigated site is situated at the southeastern sector of Cairo, Egypt, which was designated for a proposed residential extension of the already-existing Helwan city, to reduce/minimize the random distribution of the unplanned urbanization in addition to providing millions of job opportunities, which takes into account the provision of a

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Table of Contents Land Use Planning Abstracts Volume 4

1. Understanding the eBook Land Use Planning Abstracts Volume 4
 - The Rise of Digital Reading Land Use Planning Abstracts Volume 4
 - Advantages of eBooks Over Traditional Books
2. Identifying Land Use Planning Abstracts Volume 4
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Land Use Planning Abstracts Volume 4
 - User-Friendly Interface
4. Exploring eBook Recommendations from Land Use Planning Abstracts Volume 4
 - Personalized Recommendations
 - Land Use Planning Abstracts Volume 4 User Reviews and Ratings
 - Land Use Planning Abstracts Volume 4 and Bestseller Lists
5. Accessing Land Use Planning Abstracts Volume 4 Free and Paid eBooks

- Land Use Planning Abstracts Volume 4 Public Domain eBooks
- Land Use Planning Abstracts Volume 4 eBook Subscription Services
- Land Use Planning Abstracts Volume 4 Budget-Friendly Options

6. Navigating Land Use Planning Abstracts Volume 4 eBook Formats

- ePUB, PDF, MOBI, and More
- Land Use Planning Abstracts Volume 4 Compatibility with Devices
- Land Use Planning Abstracts Volume 4 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Land Use Planning Abstracts Volume 4
- Highlighting and Note-Taking Land Use Planning Abstracts Volume 4
- Interactive Elements Land Use Planning Abstracts Volume 4

8. Staying Engaged with Land Use Planning Abstracts Volume 4

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Land Use Planning Abstracts Volume 4

9. Balancing eBooks and Physical Books Land Use Planning Abstracts Volume 4

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Land Use Planning Abstracts Volume 4

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Land Use Planning Abstracts Volume 4

- Setting Reading Goals Land Use Planning Abstracts Volume 4
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Land Use Planning Abstracts Volume 4

- Fact-Checking eBook Content of Land Use Planning Abstracts Volume 4
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web the bloop was originally the pig glider with an engine added later see the pig page for details on this airchair glider the bloop 4 with engine and emergency parachute weighs about 214 pounds the power package is a modern paramotor system a vittorazi moster 185 two stroke engine 25 hp with a 1 3 meter two bladed propeller

goat page basic ultralight glider - Feb 10 2023

web apr 28 2010 the goat is technically an ultralight sailplane under united states weight rules with conventional three axis controls similar to the bug4 and the commercial super floater it is designed for slow speed recreational gliding and training

ultralight rc glider from scrap instructables - Aug 04 2022

web ultralight rc glider from scrap this is an airplane i built a while back i built the airplane on my kitchen counter using mostly cyanoacrylate glue and balsa the goal on this project was to make the airframe as light as possible the finished model had a 36 wingspan and w

ultra light 3 gramm indoor glider for beginners - Nov 07 2022

web using this ible you can build both of them if you want the slingshot model is made of cardboard and pinewood and cut the original groove on the bottom of the cockpit to attach a strong rubber band for the ultra light follow these instructions tools paper cutter scissors pencil

basic ultralight glider - Jun 14 2023

web nov 13 2020 the basic ultralight gliders are best characterized by their light wing loading which is about the same as that of a hang glider around 1 7 lb of gross weight for every square foot of wing area light wing loading results in slow flight which is safe comfortable and allows soaring in small thermals because of the ability to turn tightly

