

行政摘要 Executive Summary

岩土評估

我們以桌面研究記錄了具發展潛力區的現況及現有土地勘測資料。研究範圍及具發展潛力區部分座落於被列為地質複雜的指定地區第二號。因蘊含大理石而出現如面層不平及岩溶洞等岩溶特徵。根據現有土地勘測資料及地質報告，預期地質十分複雜。

研究的前兩期土地勘測包括岩土取樣和環境及岩土綜合取樣已經完成。同時，三期和四期土地勘測的現場工作已經完成，實驗室的試驗正在進行中。研究基於前兩期的各種現場原位試驗和實驗室試驗的結果，對岩石和土壤的工程性質及研究區內地下水的情況作出了評估。此外，研究對現有人造斜坡的影響和對天然斜坡的潛在災害亦作出了評估，並對將來區內發展的地基設計確認了特有的限制。

Geotechnical Assessment

A desk study was carried out to document the existing conditions of the PDA and the existing site investigation data. The Study Area and PDA partially fall within Scheduled Area No. 2, which is recognised as an area of complex geology where karst features such as an uneven upper surface and dissolution cavities are known to occur due to the presence of marble. Based on existing ground investigations and geological publications, the sub-surface conditions are expected to be complex.

A two phased ground investigation with geotechnical sampling as well as combined environmental and geotechnical sampling was completed for this study. While, the laboratory testing of the Phases 3 & 4 ground investigation is underway following completion of the fieldworks. The engineering properties of soils and rocks and groundwater conditions within the study area were assessed based on various field and laboratory test results from the Phases 1 & 2 ground investigation. In addition, the influence on existing man-made features and potential hazards from natural slopes were assessed and typical constraints to the foundations of future development identified.