

عنوان مقاله:

Geotechnical zoning and identifying the underground layers of Amol

محل انتشار:

اولین کنفرانس ملی ایده های نو در مهندسی ساختمان و توسعه شهری (سال: 1394)

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خلاصه مقاله:

In this study, we have zoned the geotechnical parameters available in the city using data of drilled boreholes and abilities Arc GIS and GIs written softwares , and assessed the suitable geotechnical parameters and its result are so usable for foundation designer engineers or organizations such as housing and urban development , Amols engineering organization and municipality . in this thesis, Amol s geotechnical zoning map has developed according to information of 60 boreholes and the exploratory wells to depth of 20 meters. For this reason, the mechanical and physical properties of soil layers has been determined using the results of various test. Exact identification of geological conditions including layers type, their resistance, the situation of underground waters, undersurface effects, geological structures and geotechnical parameters are so helpful for better design and safety of engineering projects. Changes of soil layers to 20 meters depth in Amol is such that totally the amount of thickness of silty and clay fined-grain layers, which lay over the sandy-alluvium coarse-grain layers, increase from north toward the south . But, the change of soil layers thickness is low from west to east. At central part of Amol, the thickness of silty and clay fined-grain layers has decreased and it increased toward the south

کلمات کلیدی:

zoning, geotechnical, parameters, boring, Gis

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