

GEOTECNOLOGIAS APLICADAS NA AVALIAÇÃO DE CONFLITOS AMBIENTAIS NAS ÁREAS PROTEGIDAS NA BACIA DO RIO JOÃO MENDES, NITERÓI - RJ

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ABSTRACT

The gradual expansion of urban areas in relation to protected areas from the environmental point of view has generated a number of socio-environmental problems. The present study aims to quantify and evaluate the soil use conflict in the João Mendes River basin, in the city of Niterói-RJ, seeking to subsidize environmental planning and management in the basin. For this purpose, the map of the built area and the vegetation cover of the basin was elaborated. Permanent preservation areas (APPs) of watercourses, lagoons, slopes and two integral protection conservation units, which comprise the drainage headlands of the basin, were defined by means of geotechnologies. The water courses APP (15.27%), the Serra da Tiririca State Park (39.72%) and the Darcy Ribeiro Ecological Reserve (18.25%) stood out in terms of area of the basin in relation to the other types of protection. Of the total of 3.81 Km² of urban area built in the basin, 0.86 Km² are in a conflict of use area in the areas of permanent preservation and integral protection units, being thus 22% of the built urban area presents irregularity.

Keywords: Protected area, Geotechnology, Permanent Preservation Area; GIS.