

Site Selection and Analysis of Solid Waste Dumpsites in Ile-Ife, Nigeria

Eberchi Ethel Nwosu and Godwill Tamunobiekiri Pepple (Nigeria)

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SUMMARY

The solid waste materials in cities are the natural outcome of human activities, in cities and municipalities of most developing countries. In Nigeria, it is a major concern of the government due to the health problems associated with improper disposal of waste. Due to the different parameters involved, deciding upon a suitable location is very complicated, costly and time consuming. Geographic Information System (GIS) allows users to view, understand, query, interpret and visualize spatial and non-spatial data in many ways that reveals relationships, patterns and trends in the form of maps, reports and charts (Lui and Mason, 2009; Bhatta, 2010). This study determined the most suitable site(s) for waste disposal in Ile-Ife, Osun State. Suitable disposal site must follow some safety criteria that will enable the wastes to be isolated so that there is no unacceptable risk to people or the environment. The Criteria for site selection used for this study includes physical characteristics, socioeconomic, and land-use factors (EPA, 2006).