

Abstract

“Spatial Analysis of Availability and Needs of Public Green Open Space In Gurabesi Village, North Jayapura District Jayapura City”

Marthinus B. Numberi¹, Petrus Bahtiar², Harmonis Rante³

Student of Urban and Regional Planning Study Program, Postgraduate Program, Cenderawasih University
Jl. Raya Abepura-Sentani, Papua, email : Marthinusbrenngisnumberi@gmail.com ² Regional Planning Study Program and Kota,
Jl. Raya Abepura-Sentani, Papua, email :bahtiarpati2015@gmail.com Masters Program in Regional and City Planning,
Jl. Raya Abepura-Sentani, Papua, email : hamonisrante72@yahoo.co.id Public Green Open

Space (RTH) is the most important part of the structure that forms the city. Gurabesi Village is located in North Jayapura District, Jayapura City continues to experience fairly rapid development with an increase in population, but also as a center for trade and services and the demand for land for development purposes is quite high, so that it greatly affects the decline in environmental quality in the urban area of Gurabesi Village. To determine the availability and need for public green open space in the urban area of Gurabesi Village, a qualitative descriptive analysis approach is used, and the data required are primary data and secondary data. So to find out the availability and need for public green open space in the urban area of Gurabesi Village, an analysis was carried out, so from the results of the analysis obtained a change in public green open space covering an area of 0.24 ha, the need for public green open space based on an urban area of 15.276 ha, the need for public green open space based on a population of 44, 70 ha, the need for public green open space based on oxygen consumption is 38,144 ha with oxygen demand of 19,310.40 Kg/day and the projected need for public green open space in the next 10 years is 196.68 ha with oxygen demand for human consumption 84,965.76 kg/day with a population 98,340 inhabitants.

Based on the results of the analysis of the need for public green open space in the urban area of Gurabesi Village, it shows that the need for public green open space is very high, while the existing public green open space currently available only reaches 4,135 ha. So the solution to answer the problem above is to maintain the current condition of the existing public green open space and monitor the migration of the incoming population and limit the excessive development of physical facilities and infrastructure, especially the construction of community housing, both in urban areas and in protected forest areas (Apo Hills). and Klofkam) and also worth the river anafre. In addition to this, it is necessary to maintain public green space in neighboring villages, namely Numabay Village and Bhayangkara Village, such as Mesran Park, Ampera Children's Playground and several other parks.

Keywords: *Spatial Analysis, Availability, Needs, Public Green Open Space, Gurabesi Village, North Jayapura District, Jayapura City.*