

ABSTRAK

**Analisis Sistem Drainase untuk Menanggulangi Banjir di Jl. Merdeka
Paku Sengkunyit, Kecamatan Martapura, Kabupaten Ogan Komering Ulu Timur**

Oleh:

Rezki Pama Ramadani

21 31 056

Kapasitas saluran yang tidak memadai, penyumbatan saluran drainase akibat sedimentasi dan sampah, serta belum adanya sistem pemeliharaan yang baik. Selain itu, pertumbuhan kawasan permukiman dan pembangunan yang tidak memperhatikan aspek pengelolaan air juga memperburuk kondisi ini. Dalam penelitian ini, data berperan penting sebagai alat penelitian dan bukti untuk mencapai tujuan penelitian. Menganalisis data yang ada, seperti Analisis Hidrologi, yaitu Analisis frekuensi curah hujan menggunakan Distribusi Normal, Distribusi Log Normal dan Distribusi Log Person Tipe III Gumbel. Dari hasil tabel di atas, drainase Jl. Merdeka Paku Sengkunyit masih layak dalam analisis perhitungan kapasitas saluran, $Q_{maksimum} 0,046775 \text{ m}^3/\text{detik} < Q \text{ saluran } 0,40643664 \text{ m}^3/\text{detik}$, dapat dilihat bahwa debitnya kecil dibandingkan dengan debit saluran, artinya saluran masih mampu menampung air di drainase. Berdasarkan hasil perhitungan hidrologi dan hidrolika, saluran yang ada masih mampu menampung debit air dari curah hujan yang terjadi. Jadi dari segi perencanaan teknis, dimensi saluran bukan penyebab utama genangan air atau banjir.

Kata Kunci: Analisis, Sistem Drainase, Pengelolaan Banjir

ABSTRACT

Analysis of the Drainage System to Overcome Flooding on Jl. Merdeka Paku

Sengkunyit, Martapura District, East Ogan Komering Ulu Regency

By:

Rezki Pama Ramadani

21 31 056

Insufficient channel capacity, blockage of drainage channels due to sedimentation and garbage, and the absence of a good maintenance system. In addition, the growth of residential areas and development that does not pay attention to water management aspects also worsens this condition. In this study, data plays an important role as a research tool and evidence to achieve research objectives. Analyzing existing data, such as Hydrological Analysis, namely Analysis of rainfall frequency using Normal Distribution, Log Normal Distribution and Log Person Type - III Gumbel Distribution. From the results of the table above, the drainage of Jl. Merdeka Paku Sengkunyit is still feasible in the analysis of channel capacity calculations, $Q_{\text{maximum}} 0.046775 \text{ m}^3/\text{second} < Q_{\text{channel}} 0.40643664 \text{ m}^3/\text{second}$, it can be seen that the discharge is small compared to the channel discharge, meaning that the channel is still able to accommodate water in the drainage. Based on the results of hydrological and hydraulic calculations, the existing channel is still able to accommodate the discharge of water from the rainfall that occurs. So in terms of technical planning, the channel dimensions are not the main cause of waterlogging or flooding.

Keywords: Analysis, Drainage System, Flood Management