

ABSTRAK

**ANALISIS PENGOLAHAN AIR LIMBAH PADA
IPAL HOTEL THE ZURI BATURAJA DENGAN MENGGUNAKAN METODE
*SEWAGE TREATMENT PLANT (STP)***

Elga Nur Yunianti

Pengolahan air limbah menjadi aspek penting dalam industri perhotelan, terutama untuk menjaga kelestarian lingkungan dan memenuhi peraturan kualitas air. Penelitian ini bertujuan untuk menganalisis efektivitas Instalasi Pengolahan Air Limbah (IPAL) di Hotel The Zuri Baturaja dengan metode *Sewage Treatment Plant (STP)*. Analisis dilakukan dengan memantau parameter kimia kualitas air limbah, seperti parameter COD (*Chemical Oxygen Demand*), BOD (*Biological Oxygen Demand*), pH, TSS, Minyak dan lemak, *Amoniak*, Total Koliform. Pengambilan sampel air limbah dilakukan sesuai dengan standar SNI 6989.57:2008 untuk memastikan hasil pengolahan memenuhi Baku Mutu Lingkungan. Hasil penelitian ini diharapkan mampu memberikan gambaran mengenai efisiensi IPAL dalam menurunkan konsentrasi polutan serta meningkatkan kualitas air hasil pengolahan. Penelitian ini juga memberikan rekomendasi untuk optimalisasi sistem IPAL sehingga lebih efektif dalam mengurangi dampak pencemaran.

Kata Kunci: Pengolahan air limbah, IPAL, *Sewage Treatment Plant*, Hotel The Zuri Baturaja, kualitas air

ABSTRAC

WASTEWATER TREATMENT ANALYSIS IN THE ZURI BATURAJA HOTEL WWTP USING THE SEWAGE TREATMENT PLANT (STP) METHOD

Elga Nur Yunianti

Wastewater treatment is an important aspect in the hotel industry, especially to preserve the environment and meet water quality regulations. This research aims to analyze the effectiveness of the Waste Water Treatment Plant (IPAL) at The Zuri Baturaja Hotel using the Sewage Treatment Plant (STP) method. Analysis is carried out by monitoring wastewater quality chemical parameters, such as parameters COD (Chemical Oxygen Demand), BOD (Biological Oxygen Demand), pH, TSS, Oil and fat, Ammonia, Total Coliform. Wastewater sampling is carried out in accordance with SNI 6989.57:2008 standards to ensure that the processing results meet environmental quality standards. It is hoped that the results of this research will provide an overview of the efficiency of IPAL in reducing pollutant concentrations and improving the quality of treated water. This research also provides recommendations for optimizing the IPAL system so that it is more effective in reducing the impact of pollution.

Keywords: Waste water treatment, IPAL, Sewage Treatment Plant, The Zuri Baturaja Hotel, water quality