

ABSTRAK

Analisis Efektivitas Pengelolaan Limbah Cair Pada IPAL PT. Bakti Nugraha Yuda Energy (Dengan Metode Screening Filtrasi)

Zubair Ash Shidiq

Pengolahan air limbah yang efektif sangat penting untuk menjaga kualitas lingkungan hidup, terutama di sektor industri. Penelitian ini bertujuan untuk menganalisis kinerja Instalasi Pengolahan Air Limbah (IPAL) di PT. Bakti Nugraha Yuda Energy. Penelitian ini mengevaluasi parameter kualitas air limbah sebelum dan sesudah melalui IPAL berdasarkan standar baku mutu lingkungan yang berlaku. Metode yang digunakan mencakup pengumpulan data primer melalui observasi dan uji laboratorium serta data sekunder dari dokumen perusahaan. Hasil penelitian menunjukkan bahwa IPAL PT. Bakti Nugraha Yuda Energy mampu mengurangi konsentrasi zat pencemar, meskipun beberapa parameter masih perlu diperbaiki untuk mencapai efisiensi optimal. Penelitian ini memberikan rekomendasi untuk perbaikan proses IPAL agar lebih efisien dan ramah lingkungan.

Kata Kunci : IPAL, kualitas air limbah, kinerja IPAL, PT. Bakti Nugraha Yuda Energy

ABSTRACT

Analysis of the Effectiveness of Liquid Waste Management at IPAL PT. Bakti Nugraha Yuda Energy (With the Screening Filtration Method)

Zubair Ash Shidiq

Effective wastewater treatment is essential to maintain environmental quality, especially in the industrial sector. This study aims to analyze the performance of the Wastewater Treatment Plant (WWTP) at PT. Bakti Nugraha Yuda Energy. This study evaluates the quality parameters of wastewater before and after going through the WWTP based on applicable environmental quality standards. The methods used include collecting primary data through observation and laboratory tests as well as secondary data from company documents. The results of the study indicate that the WWTP of PT. Bakti Nugraha Yuda Energy is able to reduce the concentration of pollutants, although some parameters still need to be improved to achieve optimal efficiency. This study provides recommendations for improving the WWTP process to be more efficient and environmentally friendly.

Kata Kunci : IPAL, wastewater quality, IPAL performance, PT. Bakti Nugraha Yuda Energy