

Penilaian Risiko Keselamatan dan Kesehatan Kerja pada Proses Penjernihan Air di PT YZ (Perusahaan Pengelola Kawasan Industri di Kabupaten Bintan) Tahun 2024 = Risk Assessment of Occupational Health and Safety in The Water Clearance Process at PT YZ (Industrial Area Management Company in Bintan) in 2024

Minerva Nurwahyu Al Imani, author

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Abstrak

Ketersediaan dan kualitas air bersih memainkan peran penting dalam kehidupan dan kualitas hidup manusia. PT YZ membangun Water treatment Plant (WTP) untuk memenuhi kebutuhan air bersih di kawasan perindustrian di Kabupaten Bintan. Penilaian risiko pada proses penjernihan air di WTP PT YZ masih terintegrasi dengan beberapa plant lain di dalam satu departemen yang sama dengan WTP yaitu departemen estate. Penelitian ini bertujuan untuk mengidentifikasi bahaya dan menilai risiko keselamatan dan kesehatan kerja pada proses penjernihan air di area WTP PT YZ secara komprehensif. Penelitian ini menggunakan desain studi deskriptif observasional dengan metode analisis semi-kuantitatif. Hasil penelitian ditemukan terdapat 34 bahaya dengan 63 risiko pada proses penjernihan air di WTP. Tingkat risiko didapatkan 2 risiko sangat tinggi, 11 risiko tinggi, dan 50 risiko sedang. Pengendalian risiko dilibatkan dalam penilaian risiko sehingga nilai risiko dapat diturunkan berdasarkan pengendalian K3 yang dilakukan oleh perusahaan dan rekomendasi pengendalian K3 tambahan yang diberikan peneliti.

.....The availability and quality of clean water play a crucial role in human life and quality of life. PT YZ built a Water Treatment Plant (WTP) to meet the clean water needs in the industrial area of Bintan Regency. The risk assessment of the water purification process in PT YZ's WTP is still integrated with several other plants within the same department as the WTP, namely the estate department. This study aims to comprehensively identify hazard and assess occupational health and safety risks in the water purification process at PT YZ's WTP. This study uses a descriptive observational study design with a semi-quantitative analysis method. The research findings identified 34 hazards with 63 risks in the water purification process at the WTP. The risk levels were found to be 2 very high risks, 11 high risks, and 50 medium risks. Risk control is involved in the risk assessment so that risk values can be reduced based on the occupational health and safety controls implemented by the company and additional control recommendations provided by the researchers.