

Politeknik Kesehatan Kemenkes Bandung

Program Studi Sanitasi Jurusan Kesehatan Lingkungan

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ABSTRAK

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**TINJAUAN PENANGANAN LIMBAH CAIR PABRIK TEPUNG AREN DI
DESA SUKAHAYU KECAMATAN RANCAKALONG KABUPATEN
SUMEDANG TAHUN 2024**

(x + 76 Halaman + 17 Tabel + 11 Gambar + 13 Lampiran)

Pabrik Tepung Aren Desa Sukahayu merupakan salah satu pabrik yang menghasilkan limbah cair. Penanganan limbah cair di pabrik tepung aren memiliki permasalahan tidak diolah terlebih dahulu. Tujuan mengetahui penanganan limbah cair pada saat proses produksi dan setelah produksi, sarana dan prasarana, parameter TSS, BOD, COD dan pH, pengetahuan penanganan limbah cair, dan perilaku penggunaan APD. Jenis penelitian deskriptif. Populasi lingkungan adalah seluruh limbah cair di 3 pabrik tepung aren. Populasi manusia seluruh karyawan pabrik aren sejumlah 9 orang. Sampel manusia sebanyak 9 orang (total populasi). Teknik pengambilan sampel yaitu *grab sampling*. Alat pengumpul data yaitu gravimeter, titrimeter, spektrofotometer, pH meter, lembar observasi, kuesioner, dan kamera. Teknik pengumpulan data yaitu wawancara, observasi, pemeriksaan laboratorium, pengukuran pH dan melakukan pemotretan. Hasil penelitian: penanganan limbah cair pada saat proses produksi 100% tidak memenuhi syarat, penanganan limbah cair setelah produksi tidak dilakukan pengolahan, sarana dan prasarana 100% tidak memenuhi syarat limbah air pada ketiga pabrik, parameter TSS, BOD, COD dan pH tidak memenuhi syarat, aspek pengetahuan karyawan penanganan limbah cair di pabrik 1 kategori cukup yaitu 60, 60 %, pabrik 2 kategori kurang yaitu 54, 54 %, dan pabrik 3 dengan kategori cukup yaitu 66, 66 % dan perilaku penggunaan APD 100% tidak memenuhi syarat. Saran karyawan pabrik agar limbah cair dimanfaatkan untuk dijadikan pupuk organik cair, pemilik pabrik harus menyediakan APD, harus menjaga kebersihan sarana dan prasarana dan harus membuat Instalasi Pengolahan Air Limbah.

DAFTAR PUSTAKA : 26 (2015 – 2024)

KATA KUNCI : Limbah Cair, Pabrik Tepung Aren, Proses Produksi, Sarana dan Prasarana, Pengetahuan, Perilaku

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ABSTRACT

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REVIEW OF THE HANDLING OF PALM FLOUR FACTORY LIQUID WASTE IN SUKAHAYU VILLAGE, RANCAKALONG SUB-DISTRICT, SUMEDANG DISTRICT IN 2024

(x + 76 Pages + 17 Tabels + 11 Picture + 13 Attachment)

The Sukahayu Village Aren Flour Mill is one of the factories that produces liquid waste. Handling of liquid waste at the palm flour factory has the problem of not being processed first. The purpose of knowing the handling of liquid waste during the production process and after production, facilities and infrastructure, TSS, BOD, COD and pH parameters, knowledge of handling liquid waste, and behavior of using PPE. Descriptive research type. The environmental population is all liquid waste in 3 palm flour factories. The human population is all employees of the palm flour factory totaling 9 people. The human sample was 9 people (total population). The sampling technique is grab sampling. Data collection tools are gravimeter, titrimeter, spectrophotometer, pH meter, observation sheet, questionnaire, and camera. Data collection techniques are interviews, observations, laboratory examinations, pH measurements and taking pictures. The results of the study: handling of liquid waste during the production process is 100% unqualified, handling liquid waste after production is not processed, facilities and infrastructure 100% do not meet the requirements of wastewater in the three factories, TSS, BOD, COD and pH parameters do not meet the requirements, aspects of employee knowledge of handling liquid waste in factory 1 in the sufficient category, namely 60, 60%, factory 2 in the less category, namely 54, 54%, and factory 3 in the sufficient category, namely 66, 66% and behavior of using PPE 100% does not meet the requirements. Factory employees suggest that liquid waste be used as liquid organic fertilizer, factory owners must provide PPE, must maintain the cleanliness of facilities and infrastructure and must make a Waste Water Treatment Plant.

BIBLIOGRAPHY : 26 (2015 – 2024)

KEYWORDS : *Liquid Waste, Aren Flour Mill, Production Process, Facilities and Infrastructure, Knowledge, Behavior*