

## ABSTRACT

Istiqomah Farah Novita Devi

### **INFLUENCE OF HYDROGEN SULFIDE (H<sub>2</sub>S) ON SUBJECTIVE COMPLAINTS OF WASTE PROCESSING OFFICERS AT JAMBANGAN SURABAYA RECYCLING CENTER**

xi+ 88 Pages+ 3 Images+ 9 Table+ 10 Attachments

Jambangan Surabaya Recycling Center (PDU) is a waste treatment plant that applies the 3R principle of Reuse, Reduce, Recycle. The amount of garbage that enters every day is 5-6 tons. There are 27 waste processing officers at jambangan recycling center in Surabaya. The purpose of the study was to determine the influence of H<sub>2</sub>S gas on the subjective complaints of waste processing officers at the Surabaya Jambangan Recycling Center.

This type of research is analytical with an observational approach conducted cross sectionally. The research used data collection methods, namely observation, interview and measurement of H<sub>2</sub>S gas levels at jambangan recycling center. The data analysis uses spearman correlation test by analyzing the influence of H<sub>2</sub>S gas on subjective complaints of waste processing officers at Jambangan Recycling Center.

The results showed that the average level of Hydrogen Sulfide (H<sub>2</sub>S) in the Surabaya Jambangan Recycling Center is 0.00054 ppm which belongs to the category eligible according to The Governor of East Java Regulation Number 10 of 2009. The study also showed that out of 27 waste processing officers who experienced severe complaints as many as 2 people, 25 minor complaints, and no waste processing officers who had no complaints.

The conclusion of the study is that there is no influence between hydrogen sulfide levels on subjective complaints of waste processing officers at the Surabaya Jambangan Recycling Center (P=0.336) so it is advised to the relevant agencies to conduct regular air quality monitoring. Waste processing officers are also advised to use personal protective equipment while in the Jambangan Recycling Center Surabaya.

**Keywords** : Hydrogen Sulfide (H<sub>2</sub>S), Officer's subjective complaint, Jambangan Surabaya Recycling Center

**Reading list** : 6 Regulations, 34 Journal (2015-2020) and 3 Book (2013-2020)

## ABSTRAK

Istiqomah Farah Novita Devi

### **PENGARUH GAS HIDROGEN SULFIDA (H<sub>2</sub>S) TERHADAP KELUHAN SUBYEKTIF PETUGAS PENGOLAHAN SAMPAH DI PUSAT DAUR ULANG JAMBANGAN SURABAYA**

xi+ 88 Halaman+ 3 Gambar+ 9 Tabel+ 10 Lampiran

Pusat Daur Ulang (PDU) Jambangan Surabaya merupakan tempat pengolahan sampah yang menerapkan prinsip 3R yaitu Reuse, Reduce, Recycle. Jumlah sampah yang masuk setiap harinya yaitu 5-6 ton. Terdapat 27 orang petugas pengolahan sampah di Pusat Daur Ulang Jambangan Surabaya. Tujuan penelitian untuk mengetahui pengaruh gas H<sub>2</sub>S terhadap keluhan subyektif petugas pengolahan sampah di Pusat Daur Ulang Jambangan Surabaya.

Jenis penelitian adalah analitik dengan pendekatan observasional yang dilakukan secara cross sectional. Penelitian menggunakan metode pengumpulan data yaitu observasi, wawancara dan pengukuran kadar gas H<sub>2</sub>S di Pusat Daur Ulang Jambangan. Analisa data menggunakan uji korelasi spearman dengan menganalisis pengaruh gas H<sub>2</sub>S terhadap keluhan subyektif petugas pengolahan sampah di Pusat Daur Ulang Jambangan.

Hasil penelitian menunjukkan bahwa rata-rata kadar Hidrogen Sulfida (H<sub>2</sub>S) di Pusat Daur Ulang Jambangan Surabaya yaitu 0,00054 ppm yang termasuk kategori memenuhi syarat menurut Peraturan Gubernur Jawa Timur Nomor 10 Tahun 2009. Penelitian ini juga menunjukkan dari 27 orang petugas pengolahan sampah yang mengalami keluhan berat sebanyak 2 orang, keluhan ringan 25 orang, dan tidak ada petugas pengolahan sampah yang tidak memiliki keluhan.

Kesimpulan penelitian yaitu tidak ada pengaruh antara kadar Hidrogen Sulfida terhadap keluhan subyektif petugas pengolahan sampah di Pusat Daur Ulang Jambangan Surabaya (P=0,336) sehingga disarankan kepada instansi terkait untuk melakukan pemantauan kualitas udara secara rutin. Petugas pengolahan sampah juga disarankan agar menggunakan alat pelindung diri pada saat berada di lingkungan Pusat Daur Ulang Jambangan Surabaya.

**Kata Kunci** : Hidrogen Sulfida (H<sub>2</sub>S), Keluhan Subyektif Petugas, Pusat Daur Ulang Jambangan Surabaya

**Daftar Bacaan** : 6 Peraturan, 24 Jurnal (2015-2020) dan 3 Buku (2013-2020)