

## ABSTRAK

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### **KECENDERUNGAN      PENCEMARAN      LIMBAH      DOMESTIK TERHADAP KUALITAS AIR SUNGAI SURABAYA**

vii + 75 halaman + 13 tabel+ 5 lampiran

Sungai Surabaya diindikasikan telah mengalami pencemaran yang diakibatkan oleh aktivitas pembuangan limbah domestik. Penelitian ini bertujuan menggambarkan kecenderungan pencemaran limbah domestik terhadap kualitas air Sungai Surabaya berdasarkan Kriteria Mutu Air menurut Perda Provinsi Jawa Timur Nomor 2 Tahun 2008.

Parameter yang diteliti adalah pH, suhu, BOD, NO<sub>3</sub>, dan NH<sub>3</sub>. Panjang sungai pada lokasi penelitian sekitar 60 km. Ada lima lokasi yang menjadi titik pengambilan sampel. Gambaran kecenderungan pencemaran limbah domestik terhadap kualitas air Sungai Surabaya berdasarkan pemeriksaan laboratorium, observasi, dan wawancara.

Hasil yang diperoleh adalah (1) kualitas air sungai untuk parameter BOD dan NO<sub>3</sub> pada semua titik pengambilan sampel belum memenuhi persyaratan baku mutu air kelas II menurut Perda Provinsi Jatim Nomor 02 Tahun 2008. (2) Aktivitas warga yang bertempat tinggal di sekitar lokasi pengambilan sampel yang mencemari air sungai adalah buang air besar di sungai, mencuci pakaian di sungai, dan membuang sampah di bantaran sungai. (3) hasil pemeriksaan laboratorium, observasi dan wawancara diketahui bahwa kualitas air sungai yang menurun ada kaitannya dengan aktivitas sehari-hari warga yang bertempat tinggal di sekitar bantaran sungai (4) hasil pemeriksaan laboratorium diketahui bahwa air sungai telah tercemar sejak titik pengambilan sampel pertama yaitu Jembatan Cunggu.

Saran yang dapat diberikan yaitu diperlukan peran aktif pemerintah, instansi terkait dan masyarakat dalam upaya pengendalian pencemaran sungai sesuai dengan perannya masing-masing.

**Kata Kunci** : Sungai Surabaya, Kualitas Air Sungai, Limbah Domestik  
**Daftar Bacaan** : 37 (1988-2017)

## ABSTRACT

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### **A TENDENCY OF DOMESTIC WATER POLLUTION TO WATER QUALITY OF SURABAYA RIVER**

vii + 75 pages + 13 tables+ 5 appendixes

Surabaya River indicated to have undergone contamination caused by domestic waste disposal activity. This research aims to describe the tendency of domestic waste pollution on the water quality of Surabaya River based on Water Quality Criteria according to East Java Province Regulation No. 2 of 2008.

The parameters examined are pH, temperature, BOD, NO<sub>3</sub>, and NH<sub>3</sub>. The length of the river at the research site is about 60 km. There are five locations that become sampling points. The description of domestic waste pollution trends on the water quality of Surabaya River based on laboratory examination, observation, and interview.

The results obtained that (1) the water quality of the river for BOD and NO<sub>3</sub> parameters at all points of sampling has not met the requirements of the class II water quality standard according to East Java Provincial Regulation No. 02 Year 2008. (2) The activities of residents who reside around the sampling site which pollute the water river is defecate in the river, wash clothes in the river, and throw garbage on the banks of the river. (3) the result of laboratory, observation and interview, it is known that the quality of decreasing of the water in the river has a relation with the daily activities of the residents who live around the river banks (4) the result of laboratory is known that the water in the river has been polluted from the first sampling point, that is Canggü Bridge.

Some suggestion that can be given that is needed active role of government, related institution and society in effort to control river pollution according to their own respective role.

**Keywords** : Surabaya River, River Water Quality, Domestic Waste

**References** : 37 (1988-2017)