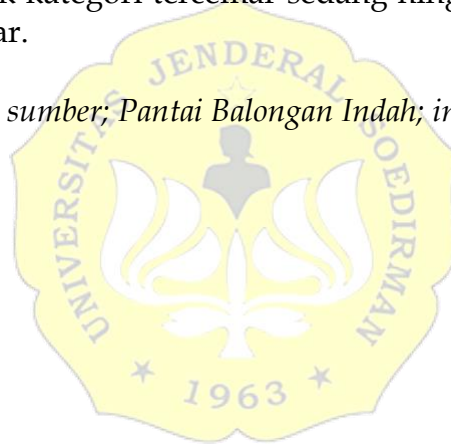


ABSTRAK

Logam berat adalah kelompok polutan yang memiliki signifikansi ekologis tinggi efek toksik, akumulatif di perairan. Berasal dari industri, domestik, pertanian, medis, dan teknologi. Logam berat dapat ditemukan perairan karena penyebarannya yang luas di lingkungan meningkatkan kekhawatiran atas efek potensial terhadap kesehatan manusia dan lingkungan. Logam berat di sedimen perlu diteliti untuk mengetahui tingkat pencemarannya. Penelitian ini dilaksanakan di Perairan Pantai Balongan Indah, Indramayu. Kandungan logam Cr dan Cd pada sedimen di lokasi penelitian memiliki kisaran 0,09 mg/kg - 0,75 mg/kg dengan rata-rata 0,408 mg/kg, sedangkan logam Cd kisaran 2,68 mg/kg - 4,18 mg/kg dengan rata-rata 3,536 mg/kg. Sumber logam berat Cr dan Cd di lokasi penelitian berdasarkan indeks EF berasal dari sumber alami dan antropogenik, Igeo berasal dari antropogenik, sedangkan logam Cd berasal dari alami. Tingkat pencemaran logam Cr berdasarkan indeks CF termasuk kategori tingkat kontaminasi rendah, sedangkan logam Cd tingkat kontaminasi tinggi. Indeks EF logam berat Cr dan Cd tidak ada pengayaan, Igeo logam Cr termasuk kategori tercemar sedang hingga tercemar berat dan logam Cd tidak tercemar.

Kata kunci: logam berat; sumber; Pantai Balongan Indah; indeks pencemaran



ABSTRACT

Heavy metals are a group of pollutants that have a high ecological significance, toxic effects, accumulative in waters. Heavy metals are a group of pollutants that have a high ecological significance, toxic effects, accumulative in waters. Their multiple industrial, domestic, agricultural, medical and technological applications have led to their wide distribution in the environment; raising concerns over their potential effects on human health and the environment. Heavy metals in sediments need to be examined to determine the level of pollution. This research was conducted in Balongan Indah Beach, Indramayu. The content of Cd and Cr metals in the sediments at the study site has a range of 0.09 mg/kg - 0.75 mg/kg with an average of 0.408 mg/kg, while the Cr metal ranges from 2.68 mg/kg - 4.18 mg/kg with an average of 3.536 mg/kg. Based on the EF index, the sources of heavy metals Cr and Cd come from natural sources and antropogenic, Igeo comes from anthropogenic sources, while Cd comes from natural sources. The contamination level of heavy metal Cr based on the CF index is included in the category of low contamination level, while Cd metal has a high level of contamination. The EF index of heavy metals Cr and Cd has no enrichment, Igeo metal Cr is categorized as moderately polluted to heavily polluted and Cd metal is not polluted.

Keywords: *heavy metal; source; Balongan Indah Beach; contamination index*

