

Pengaruh penggunaan tanah terhadap kualitas air di daerah aliran Ci Leungsi = Effect of land use on the quality of water in Ci Leungsi watershed

Adriansyah, author

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Abstrak

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Daerah Aliran Ci Leungsi merupakan salah satu DAS di Provinsi Jawa Barat. Daerah Aliran Ci Leungsi merupakan salah satu sungai yang masuk dalam program kali bersih BPLHD Jawa Barat dikarenakan kondisi sungai yang sudah tercemar. Penggunaan tanah yang beragam di Daerah Aliran Sungai menyebabkan terganggunya keseimbangan kimia air sungai sehingga menyebabkan pencemaran kualitas air. Penelitian ini bertujuan untuk mengetahui apakah penggunaan tanah di Daerah Aliran Sungai mempengaruhi kualitas air Ci Leungsi. Analisis secara kuantitatif-deskriptif digunakan untuk menjawab tujuan penelitian ini. Hasil penelitian menunjukkan bahwa penggunaan tanah permukiman mempengaruhi konsentrasi kimia berupa nitrat, amonia, deterjen serta minyak dan lemak. Pertanian tanah basah dan tanah kering mempengaruhi konsentrasi nitrat dan amonia. Hasil perhitungan metode Storage and Retrieval (STORET) didapatkan bahwa dari bagian hulu sampai tengah daerah aliran sungai termasuk kategori cemar sedang, sementara di bagian hilir termasuk cemar berat.

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ABSTRACT

Ci Leungsi watershed is one of the watershed are located in the Province of West Java. Ci Leungsi watershed is one of the rivers that enter the clean river program by BPLHD of West Java due to the condition of the river that has been polluted. Diverse land use in the watershed causes disruption of the chemical balance of the water of the river, causing pollution of water quality. This study aims to determine whether the use of the land along the watershed affects water quality of Ci Leungsi. Quantitative-descriptive analysis will be used to answer the purpose of the present study. The results showed that the use of land in the form of settlements affected the concentration of chemicals in the form of nitrate, ammonia, detergent and oil and grease, while agricultural land wet and dry soil affects the concentration of nitrate and ammonia. The results of STORET method of calculation showed that from the upstream to the middle of the watershed in the category of pollutants being while at the downstream entrance heavy polluted.