

Penilaian kualitas air Ciliwung perbatasan Depok-Jakarta Selatan menggunakan family biotic index (FBI) berdasarkan makroinvertebrata perifitik = Water quality test of ciliwung across Depok-South Jakarta using family biotic index (FBI) based on perifitic macroinvertebrates

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Abstrak

Penilaian kualitas air Sungai Ciliwung Perbatasan Depok-Jakarta Selatan telah dilakukan pada bulan September-November 2017. Penelitian ini dilakukan di tiga stasiun yang merepresentasikan bagian sungai yang masih asri, sudah ditata oleh masyarakat dan sudah dilakukan betonisasi. Penelitian bertujuan untuk mengetahui kualitas air dari Sungai Ciliwung dengan menggunakan makroinvertebrata perifitik sebagai bioindikator. Pengambilan sampel dilakukan menggunakan metode purposive random sampling dengan mengambil tumbuhan akuatik yang terdapat pada tepi sungai Ciliwung serta melakukan pengukuran parameter lingkungan. Sampel makroinvertebrata perifitik yang diperoleh selanjutnya dianalisis menggunakan Family Biotic Index FBI. FBI digunakan untuk menguji kualitas air berdasarkan nilai toleransi dari tiap famili makroinvertebrata perifitik, nilai FBI Sungai Ciliwung Perbatasan Depok-Jakarta Selatan berkisar antara 6.146-7.428 yang mengindikasikan perairan ini tergolong dalam kualitas perairan agak buruk-buruk, dan memperoleh 14 famili makroinvertebrata dengan kisaran nilai toleransi 1--10.

*A research of Water Quality Test in Ciliwung River Across Depok ndash South Jakarta has been done from September November 2017. An assessment of water quality in Ciliwung River has been conducted at three stations representing the unconstructed area, settlement area and normalization sheet pile area. This research aimed to determine the quality of Ciliwung River using perifitic macroinvertebrates as bioindicator through Family Biotic Index FBI. Macroinvertebrates samples were taken using method of purposive random sampling by collecting aquatic plant samples in Ciliwung River, along with measurement of physical and chemical parameters. Macroinvertebrates samples were analyzed using Family Biotic Index. The FBI value of Ciliwung River Across Depok-South Jakarta were classified as poor quality with scores range between 6.146 ndash 7.428 and the results obtained were fourteen families have found with different tolerance, score range between 1-10.*