

Struktur komunitas makrozoobentos dan penilaian kualitas sungai di Sungai Cengek bagian Hulu, Desa Payaman, Kota Salatiga =  
Community structure of macrozoobenthos and the assessment of river quality at the upstream of Cengek River Payaman Village Salatiga City

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Abstrak

Telah dilakukan sampling makrozoobentos di Sungai Cengek bagian hulu yang melintasi Desa Payaman, Kota Salatiga pada bulan April 2013. Pengambilan sampel dilakukan dengan cara mengoleksi makrozoobentos, pada daerah sebelum percabangan, percabangan sebelah timur, dan percabangan sebelah barat. Sampel yang diperoleh diawetkan dengan alkohol 70% kemudian diidentifikasi di Laboratorium Taksonomi Hewan, Departemen Biologi FMIPA UI, Depok. Masing-masing pengambilan sampel dilakukan sebanyak dua pengulangan. Data hasil penelitian ditabulasi dan digunakan untuk penilaian kualitas perairan dengan indeks biotik.

Berdasarkan hasil penelitian, diperoleh empat kelompok makrozoobentos yang dikelompokkan dalam Famili Heptageniidae, Libellulidae, Palaemonidae, dan Pachychilidae. Indeks eanekaragaman tergolong rendah, berkisar antara 0,42--0,9 dengan indeks dominansi berkisar 0,49--0,75. Berdasarkan indeks biotik diketahui bahwa kualitas perairan Sungai Cengek bagian hulu masuk ke dalam kategori perairan dengan kondisi yang baik, dengan nilai ASPT berkisar 6,25--6,5.

<hr>Sampling of macrozoobenthos has been held at the upstream of Cengek River that crosses Payaman Village, Salatiga City in April, 2013. Sampling was carried out by collecting macrozoobenthos at the area before branching, eastern branching, and western branching of Cengek River. Samples that collected was preserved by 70% ethanol, and identified in Laboratory of Animal Taxonomy, Department of Biology, Faculty of Mathematics and Natural Science, University of Indonesia, Depok . Each sampling was performed two repetitions. The data were tabulated and used to measure the water quality by biotic index.

Results of the research was found four group of macrozoobenthos that divided into family of Heptageniidae, Libellulidae, Palaemonidae, and Pachychilidae. The level of diversity rated low, ranged from 0,42 to 0,9 and dominancy index ranged from 0,49 to 0,75. Based on biotic index, the waterways quality of Cengek River upstream were divided into the fine condition river, with ASPT rate ranged from 6,25 to 6,5.