

# Penilaian kualitas air saluran Tarum Barat, Jawa Barat, dengan menggunakan indeks biological monitoring working party-average score per taxon (BMWP-ASPT) = Water quality assessment of saluran Tarum Barat based on biological monitoring working party-average score per taxon (BMWP-ASPT) index

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## Abstrak

Penelitian mengenai kualitas air di Saluran Tarum Barat dilakukan di tiga stasiun yang merepresentasikan bagian awal, tengah, dan akhir pada bulan Februari hingga Mei 2017. Penelitian ini bertujuan untuk mengetahui kualitas dari Saluran Tarum Barat dengan menggunakan makroinvertebrata bentik sebagai bioindikator melalui metode Biological Monitoring Working Party-Average Score Per Taxon BMWP-ASPT. Tidak hanya sampel makroinvertebrata, parameter lingkungan juga turut diukur.

Hasil penelitian diperoleh enam famili makroinvertebrata yaitu Naucoridae, Viviparidae, Parathelphusidae, Pisauridae, Palaemonidae, dan Thiaridae. Famili Parathelphusidae dan Pisauridae tidak terdapat dalam daftar skoring BMWP. Saluran Tarum Barat memiliki rentang nilai ASPT 4,25-4,5 yang termasuk dalam kategori tercemar sedang.

.....An assessment of water quality in Saluran Tarum Barat has been conducted at three stations representing the beginning, middle, and end of the canal from February until May 2017. This research aimed to determine the quality of Saluran Tarum Barat using benthic macroinvertebrates as bioindicator through Biological Monitoring Working Party Average Score Per Taxon BMWP ASPT method. Not only samples of organisms were taken, but environmental parameter also measure.

The results obtained were six families of macroinvertebrates namely Naucoridae, Viviparidae, Parathelphusidae, Pisauridae, Palaemonidae, and Thiaridae. However, Parathelphusidae and Pisauridae families are not covered in BMWP scoring list. Saluran Tarum Barat has ASPT range from 4,25 ndash 4,5 which categorized as moderate pollution.