

## **A research on water quality of Kelkit Stream using benthic macroinvertebrates and physicochemical variables**

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### **ABSTRACT**

1. In this study, water quality of Kelkit Stream was presented.
2. Sampling were realised in nine sites along the Kelkit Stream between 14 and 31 July 2008.
3. Water quality were assessed by the application of Hilsenhoff Family Index, EPT Index, taxa richness, contribution of dominance family and also physicochemical properties of the sites were evaluated.
4. The polluted sites were concentrated in lower part of the stream.
5. Kelkit Stream is affected by pollution (originated from urban sewage, agricultural and industrial activities), physical degradation of habitats and dams which were strongly associated with altered hydrologic regime.

**KEY WORDS:** Benthic macroinvertebrates, dam, dominancy, EPT Index, family index, Kelkit Stream, organic pollution, physico-chemical variables, taxa richness, Turkey, water quality, Yeşilırmak River,