

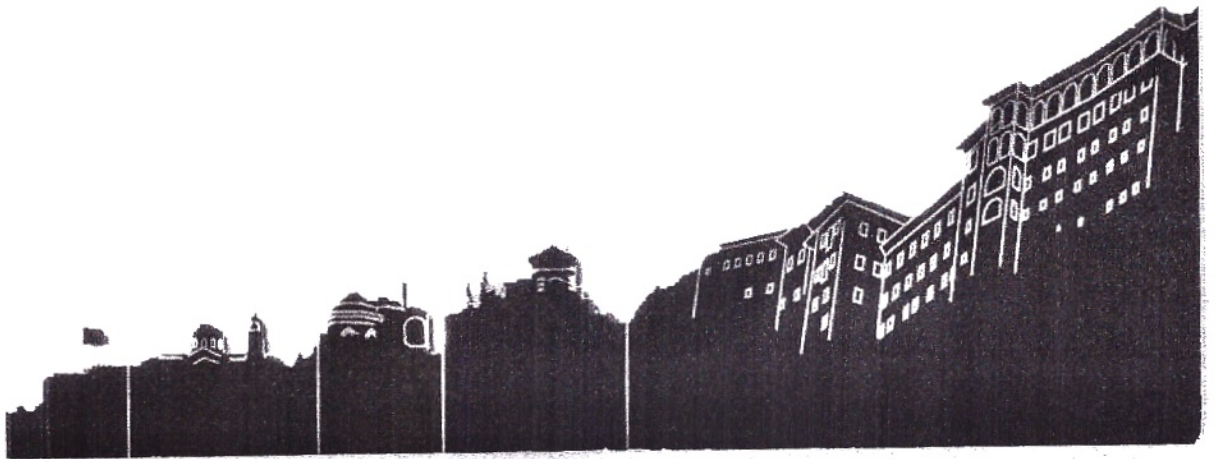
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ABSTRACT BOOK





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NUTRIENT AND METAL ASSESSMENT OF THE RIVERS IN RİZE OF THE EASTERN BLACK SEA REGION, TURKEY

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In this study was carried out between November 2013-August 2014 and was aimed to understand anthropogenic affect and seasonal changes of the Çağlayan, Firtına and İkizdere Rivers in Rize of the Eastern Black Sea Region. For these purpose; Physico-Chemical parameters (Temperature, pH, Conductivity), Dissolved Oxygen, Chemical Oxygen Demand (COD) and Chlorophyll-a, Nutrients (Nitrate (NO₃-N), Nitrite (NO₂-N) Ammonia (NH₃- N)), o-Phosphate (o- PO₄), Total Phosphorus (TP), Total Suspended Solid (TSS),Organic Matter, Detergent, Total Hardness, Ca+2 and Mg+2 and dissolved and particulate metals (Hg, Cu, Zn, Fe, Cd, Ni, Pb, As) were investigated at Firtına, İkizdere and Çağlayan streams of the Eastern Black Sea of Turkey. The all results obtained were classified regarding the criteria's of European Commission Directive (1998/83/EC), National Recommended Water Quality Criteria (US EPA, 2009), and World Health Organization (WHO, 2004) and Turkish Water Quality Criteria. Results obtained from three streams were found to be lower than legal limits proposed by EC L 330/05 1998, US EPA 2009, WHO 2004 and Turkish Water Quality Criteria.

Key words: Pollution, Environmental Effect, Nutrient, Metal, River