In this study that was carried out between February 2011 and January 2012, sedimentation of nitrite (NO2-), nitrate (NO3-), phosphate (PO43-), fluoride (F-) in water and sediment samples of 4 different stations of Eğirdir Lake and their seasonal changes were examined. During the study, ions in water and sediment that collected from 4 different stations and in seasonal periods were measured by Ion Chromatography (IC) device. Eğirdir Lake's water temperature was determined as 7.2-26.7°C and pH range as 7.58-8.54. As a result of ion analysis of water nitrite and phosphate were not detected in any season. While fluoride was detected in all seasons and all stations, nitrate was measured in different seasons and stations. It was detected that the most accumulated anion in water was fluoride. According to our findings of sediment, nitrite was not detected in any season. While nitrate and fluoride were detected in all seasons and all stations, phosphate was measured in different seasons and stations. It was determined that the most accumulated anion in sediment was nitrate.

Eğirdir Lake water is ranking in I. quality water class in terms of studied parameters.