DETERMINING WATER POLLUTION RESOURCES AND THEIR EFFECTS ON AQUATIC ORGANISMS IN THE BLACK SEA REGION

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The prevent of the water pollution is very important for the increase production of the water products. With the aim of, it was found to put forward of pollution sources and damages to water products in the working area. It had been worked in necessary precaution for regulations of the water products and circular of the water products.

It had been worked in the region of Black Sea. This region had been parted of the three in East of the Black Sea, Middle of the Black Sea and West of the Black Sea for the worked.

It had been researched in years of the 1989, 1990, 1991, 1992, 1993 and 1996. It had been chosen 52 stations in the cities of 14 of the Black Sea coast (Artvin, Rize, Trabzon, Giresun, Ordu, Samsun, Sinop, Kastamonu, Zonguldak, Bolu, Sakarya, Kocaeli, İstanbul and Kırklareli). This stations had been chosen in the regions of the pollution dense, domestic waste and industrial waste. It had been taken number of the three in sea water samples from the coast, from open in the meter of one hundred and from in the meter of five hundred. It had been measured physical parameters (temperature, turbidity, pH, salinity, electrical conductivity) all of suddenly. Some chemical characteristics (dissolved oxygen, NH_3-N, NO_3-N, NO_2-N, o-phosphorus, organic matter, Iron, Copper) had been analysed in the land laboratory and than other chemical analyses (suspended solid matter, detergent, chlorophyll-a and oil) had been worked in the laboratory of the institute.

It had been measured of physical parameters in the electrometric method with equipment in mark of HORİBA U-7 and U-10.

It had been measured parameters of NH_3-N, NO_3-N, NO_2-N, o-phosphorus, detergent, Iron, Copper, chlorophyll-a and oil-grease in spectrophotometric method with mark of HACH DR/2000 spectrophotometer. Dissolved oxygen and organic matter had been worked in method of titrimetric and suspended solid matter had been worked in method of gravimetric.

According to results came out from this study; biological oxygen demand, organic matter, NH_3 -N and detergent had been found high amount taken from coastal sea water samples. In the place of copper, suspended solid matter and pH had been found high amount taken from coast of Black Sea. The NO_3-N in the water samples came from Agriculture regions exceed the proposed limits. Because of the mixing of the erosion waters to the suspended solid matter had been found in high amount. The other parameters had been found in normal limits. Pollution parameters of concentrations had been found low amount from coast to open sea. Also, in this work values H_2S regarding the depth connect measure of space hadn't been high values in level of H_2S.