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## **MONITORING OF THE CHEMICAL STRUCTURE AND PROPERTIES OF ODESSA'S SAND BEACHES**

The work was made in the laboratory of “Scientific expert monitoring centre and environmental studies”, organized at the department of Environmental Chemistry of the Odessa State Ecology University.

The values of Eh and pH were determined in accordance with GOST 26423-85, this standard establishes a method for determining the pH of the aqueous extract from the soil during their surveys. The essence of the method consists in the extraction of water soluble salts of soil with distilled water in a ratio of 1:5 water to soil and then the potentiometric determination of the characteristics of the aqueous extract with a pH meter.

It was made such conclusions in the article:

1. Dynamics of change of Eh sand beach of Odessa “Gold Coast” in the autumn-winter period was an extreme character corresponded to the established system in reductive mode.

2. Value of redox potential run low from 30 to 98 mV.

3. It was a clear dependence of the equilibrium redox systems prevailing in the beach sand from natural factors – temperature and humidity of the atmosphere in the study period.

4. Quantitative and qualitative structure of reclaimed sand deserves special study. Particular attention should be paid to the barium compounds. The concentration of barium in the sand inwashed significant – 1.389%. Compound with the waste products of the micro flora can be transformed into soluble and very toxic substances.