

Phenols Pollution of the Aquatic System of Lake Ladoga - Neva River - Gulf of Finland

Nataliya Krylenkova

*Institute of Limnology, Russian Academy of Sciences, Sevastyanov Str. 9,
St. Petersburg, 196105, Russia
Tel +7-812-298 91 57 Fax +7-812-210 73 27 e-mail: krylenkov@mail.ru*

Abstract

The state of the aquatic system: Lake Ladoga - Neva River - Neva Bay - Eastern Gulf of Finland is of major importance for more than six million inhabitants of St. Petersburg and its province. The results of the researching carried out on Lake Ladoga from 1991 to 1998 and from 1994 to 1998 on the aquatic system indicated significant pollution of the surface waters by phenols.

The experimental data made possible to estimate phenol inflow to Lake Ladoga with the main tributaries of the lake, their outflow from the lake via the Neva River and inflow to the Neva Bay of Gulf of Finland. As a result we get phenols load into the lake compared with that of the Neva Bay and the Eastern Gulf of Finland.