

## **IMPACT OF MIKHAILOVSKY IRON-ORE DEPOSIT (KMA) INDUSTRIAL OPERATION ON THE SURFACE WATER CONDITIONS IN THE REGION**

*M.V. Kumani, R.A. Popkov*

Commercial operation of the Mikhailovsky iron ore deposit has adversely impacted every component of the natural environment of the region. It has resulted in significant alteration of the hydrographic network and regime of rivers within the affected area. The rivers suffering the direct influence from the Mikhailovsky GOK tailing storage and open pit have been studied in details, namely the rivers: Bely Named, Chern, Ryasnik, Rechitsa, Pesochnaya and their tributaries. Calculations and research performed have proved the significant influence of the Mikhailovsky GOK facilities on the local surface waters, regime of rivers and rivers' specific discharge during low stream flow period of a year.