International Journal of Civil
Engineering (IJCE)
ISSN(P): 2278-9987; ISSN(E): 2278-9995
Vol. 3, Issue 4, July 2014, 25-32

International Academy of Science,
Engineering and Technology
Connecting Researchers; Nurturing Innovations

CHANGES ANALYSIS OF MINERAL OIL INDEX IN NAREW AND BUG RIVER

JANINA PIEKUTIN, IWONA SKOCZKO & PIOTR OFMAN

Technical University of Bialystok, Bialystok, Poland

ABSTRACT

The aim of this study was to analyze changes in an index of mineral oil in the waters of Narew and Bug Rivers. Water analyses were carried out in two monitoring networks (1 for each River) based on 5 control points. To determine the index of mineral oil in water samples, the method of gas chromatography coupled with mass detection was used. Samples for organic compounds analysis were prepared and determined in accordance to the Polish Standard PN-EN ISO 9377-2. The resulting index of mineral oil value was ranging from 0.02 to 0.55 $mg \cdot dm^{-3}$. In addition, nonparametric Spearman correlation coefficients between test components and the average daily, was calculated.

KEYWORDS: Index of Mineral Oil, Mineral Index, River, Surface Water