

INDUSTRIAL POLLUTION IMPACT ON SURFACE WATERS QUALITY IN THE CENTRAL AREA OF ROUMANIA

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Introduction

The researches aimed the finding out of the pollutant elements in the surface waters in the central area of the country, having in view to compel the attention for reducing the environmental pollution and natural habitats protection.

Material and Methods

In the central area of the country it was followed the surface waters quality by 20 samples in five sections: Pascov river, upstream of Ialomita crossing, Cricovul Dulce upstream of AGCL Moreni – Ghiordoveni point, Slanic river at Sacuieni, Ilfov river at Colanu and Cobia river upstream of Potopu point.

From sampling there were carried out: the chlorides, ammonium, CCO-Mn (O₂) and oil products quantities.

Results

The results are presented in Chart no. 1 to 4:

Chart no. 1: Chlorides in surface waters

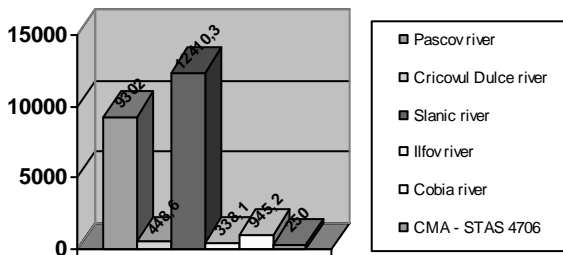


Chart no. 2: Amonium in surface waters

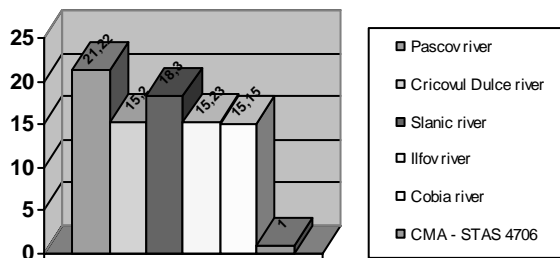


Chart no. 3: Oxygen biochemical consumption in surface waters

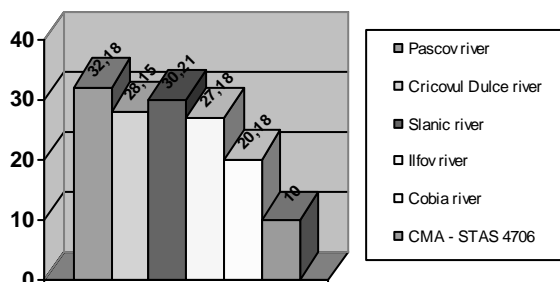
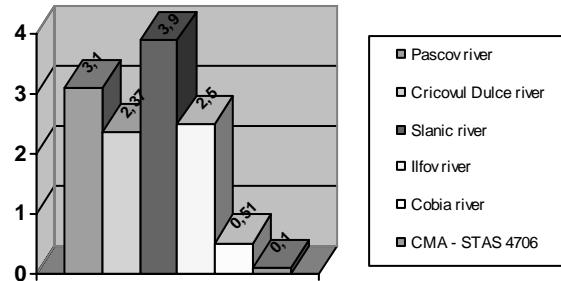


Chart no. 4: Oil products in surface waters



Discussion

Following the determinations from the water samples, there were recorded exceedings beside the standard for chlorides, ammonium, oxygen biochemical consumption and oil products (data are recorded in charts 1-4).

The exceeding of all maximum admitted values for all elements is due to the different industrial activities in area (oil extraction, textile industry and concrete production industry).

Conclusion

There were recorded exceedings beside the standard stipulated by STAS 4706/1988 in all analyzed parameters.

The chlorides exceeded the maximum admitted limits by 1,3 to 50 times in all sampling points.

The ammonium recorded exceedings beside the maximum admitted limits by 21 times in the samples from Pascov river.

CCO – Mn (O₂) recorded the highest exceedings in the samples from Pascov river and Slanic river.

The oil products exceeded the maximum admitted limit in all sampling points.

Acknowledgements

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References

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