

DISTRIBUTION OF PHOSPHORUS FORMS IN WATER-PARTICULATE MATERIALS-BOTTOM SEDIMENTS SYSTEM OF THE PRUT RIVER DURING 2009-2012 YEARS

Larisa Postolachi*, Vasile Rusu, Tudor Lupascu

Institute of Chemistry of Academy of Sciences of Moldova, 3, Academiei str., Chisinau MD-2028, Republic of Moldova

**e-mail: larisapostolachi@gmail.com; phone: (+373 22) 73 97 31; fax: (+373 22) 73 99 54*

Abstract: Phosphorus is the important nutrient which stimulates the growth of aquatic organisms in water bodies, but in excessive quantities phosphorus has a fertilizing effect that affects both the ecosystem and water quality as whole. A completed scheme for determination of phosphorus forms in water, particulate materials and bottom sediments was applied. The results obtained during of 2009-2012 years were analyzed and systematized, identifying the seasonal and spatial dynamics of phosphorus forms in water, particulate materials and bottom sediments of the Prut River.

Keywords: bottom sediments, particulate materials, phosphorus forms, the Prut River.