on the plant species. Therefore, different transfer values should be established for plant groups categorized by the type of their edible parts and crop properties in order to make safety assessment for Tc in the environment.

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water and bottom sediments and considerable concentration of a tinides in the

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The aim of our work is the study of behaviour of retanctium and some crimides (Pu-239 and Cm-244) in the water and sediment of typical fresh water also White Kosmo of Adiddle Russian Plain and the influence of microorganisms in the behaviour of these radioactive elements.

The sorption of technetium was studied on natural and sterifized (by readiation and 2% formalin solution) sediments from lake White Kosino during a months in laboratory conditions (natural light, room temperature and without diring). Sorption of technetium by sterifized sediment is negligible Disting the area in natural conditions (non-sterifized sediment) technetium uptake from liquid to solid phase is almoust complete - 98%. The kinetic of technetium corption is given on Fig. 1.

The main processes in White lake - sulfutareduction and arginarogenesis. The main processes in White lake - sulfutareduction and arginarogenesis of the received: at initial concentration 40 mg/l of technetium (VII) after 8-10 days

dentification of this sediment by phase analysis was not successful, become ediment was X-ray smorfous. The elemental composition of this sediment was tudied by X-ray microanalysis. The results are given on Fig.2. As generally nown, suifatereducing bacteria reduce sulfate to H2S, which can react with code making sulfides of technetium. And we suppose that sulfatereducing

The sorption of some actinides - Pu-239 and Cm-244 by natural sediment