

**SOME PECULIARITIES IN DISTRIBUTION OF NATURAL  
RADIONUCLIDES AND TOXIC ELEMENTS IN BASIN OF THE SYRDARIA  
RIVER NEAR URANIUM FIELDS**

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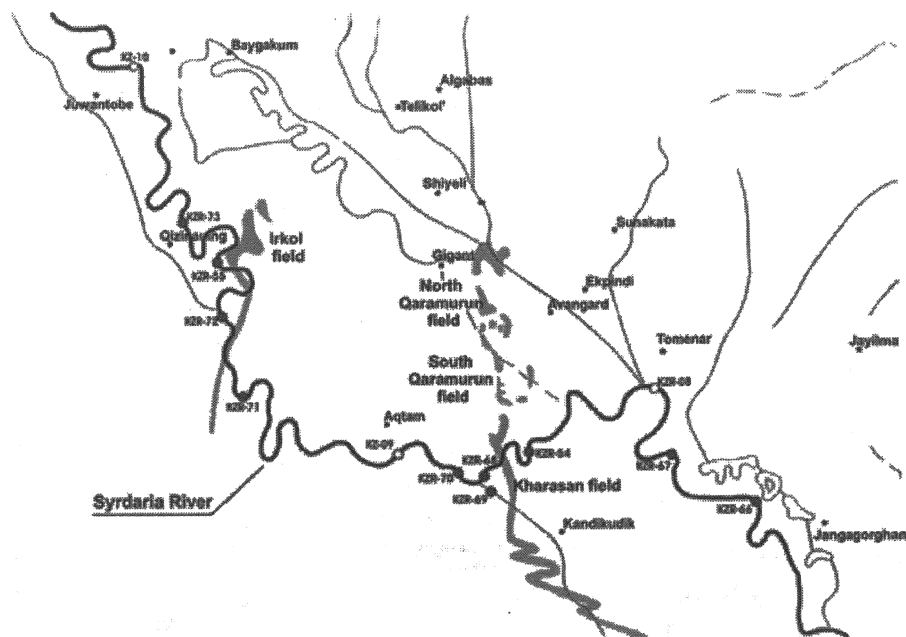
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In basin of the Syrdaria River at the Kazakhstan territory such huge uranium fields as «Karamurun», «Kharasan», «Yrkol» are situated; its ore bodies intersect the riverbed. In the field sites boring was carried out in view of uranium supply and exploration by the underground leaching technique. We have performed ecological surveillance of a section of the Syrdaria River near these fields in order to study potential impact of the situation and technological processes on a state of aqueous medium. Sampling of soil, bottom sediments and water was carried out over preliminary

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chosen sample points. Layout of the sample points is shown below.



Determination of radionuclide and elemental composition in samples of soil, bottom sediments, as well as soluble/insoluble components of water is performed by techniques of instrumental  $\gamma$  spectrometry, radiochemical analysis, NAA, XRFA, MS-ICP.

Results of performed surveillance are reported.