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The distribution of radon, fluorine, arsenic and lithium in zones of tectonic faults, which are zones of ecological risk. Determined that in zones of tectonic faults (Artsizsky fault Odessa region) in the subsoil air radon ten times more than in tectonically quiet zones. Indicated that the fluorine content in the waters buchakanev horizon Poltava region (south-eastern part) is about 4 mg/dm³, which also poses a risk. But, in the zone of tectonic faults (v. Mashevka and other) content increased to 7–8 mg/dm³. Arsenic and lithium in the water sources in the limits of tectonic disturbance (Transcarpathian region, v. Kvasy, Rakhov-Tisa fault), increased tenfold, with respect to the MPC, which also poses a risk to human life and is an area of ecological risk.

Key words: environmental risk, geochemical indicators, tectonic faults.