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## Risk of radioactive water contamination in Sin Quyen copper mine

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Based on the scientific basis of the experiments of the Russian scientists on the dependence of the solubility of uranium minerals on the uranium-containing material composition of rocks and ores into the calculations, chemical analysis of the water environment, the authors carried out a geological survey at the Sin Quyen copper mine. The process of mining and processing of ores is crumbling, crushing. Oxygen-saturated water has a strong oxidation of sulfur in common minerals such as pyrite, pyrrhotite, which rapidly changes pH in a favorable geochemical environment facilitating uranium dissolve the dissemination of ore from ore, copper to surface water and waste water down the route causing a radioactive water area of about 14 km<sup>2</sup> on the Sin Quyen copper mine.

**Keywords:** *Copper mine, uranium, water, contamination, radioactive.*