

**MINERALOGICAL-GEOCHEMICAL SUBSTANTIATION FOR PROCESSING
OF TAILING DUMPS STALE SANDS AT THE SOLNECHNYI ORE-DRESSING
ENTERPRISE (KOMSOMOL'SK AREA, KHABAROVSK REGION)**

A.I. Khanchuk¹, R.A. Kemkina², I.V. Kemkin^{1,2}, V.P. Zvereva^{1,2}

¹Far East Geological Institute, FEB RAS, Vladivostok, 690022

²Far East Federal University, Vladivostok, 690090

The paper presents a mineralogical-geochemical characteristic of ores from Komsomolsk tin deposits (Khabarovsk region) disintegrated fragments of which compose a productive part of tailing dumps stale sand at the Solnechnyi ore-dressing enterprise. Calculation of probable ore with the economically important metals was made using data on chemical composition of ore minerals and their content in a dump tails. Taking into account that tails from ore processing with already disintegrated rock mass are on the ground surface, the tailing dumps of Solnechnyi ore-dressing enterprise should be considered as an additional and rather cheap source of mineral raw material.

Keywords: tailing dumps, anthropogenic (technogenic) deposits, ore minerals.