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Metalurški in rudarski odpadki iz Zgornje Šlezjskega premoškega bazena – postopki, ogrožanje, ponovna uporaba in rekultivacija

Post metallurgic and coal mining wastes in Upper Silesian Coal Basin – processes, threats, recovery and reclamation

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POVZETEK

V članku bo obravnavane problematika odlaganja metalurških in rudarskih odpadkov pridobivanja premoga v Zgornje Šlezjskem premoškem bazenu (UCCB). Predstavljene bodo petrografske in mineraloške značilnosti kompozitov odpadkov kot tudi opis opazovanih geokemijskih procesov/reakcij. Prikazan bo vpliv odloženih odpadkov na okolje in potencialne nevarnosti za prebivalce živeče v okolici objektov. Nakazane bodo tudi možnosti ponovne uporabe v jaloviščih odloženih materialov kot sekundarne surovine in rekultivacija predstavljenih površin.

Ključne besede: metalurški odpadki, rudarski odpadki pridobivanja premoga, jalovina, jalovišča.

ABSTRACT

The problem of disposing of post metallurgic and coal mining wastes in Upper Silesian Coal Basin (USCB) is discussed. Characteristics of petrographic and mineralogical composition of wastes as well as description of geochemical processes occurring in the waste material are presented. Environmental impacts of waste dumps and threats for the inhabitants living in the neighborhood of these objects are shown. The possibilities of the secondary use of material collected on the dumps and further reclamation of described areas are indicated.

Key words: post metallurgic wastes, coal mining wastes, dumps.