

This bachelor thesis is a compilation of scientific and technical literature focused on treatments of municipal solid waste incinerator (MSWI) bottom ash such as carbonation or electro-kinetic remediation for the purpose of the decrease of the contaminant lechability. The carbonation the cheapest solution and is generally used as a first stage of MSWI bottom ash treatment. The second part of the thesis deals with possible applications of MSWI bottom ash for the construction purposes. Addition of bottom ash to the concrete is used as the alternative of natural purposes. Addition of bottom ash to the concrete is used as the alternative of natural gravel. Due to similar physical properties with crushed aggregate, bottom ash is also commonly used as a subbase of roads or pavement in numerous countries. Mixed bottom ash with the Portland cement can also find some applications as a light concrete with similar physical and mechanical properties.