

## Abstract

This barchelor thesis deals with the issue of lead in the environment, with its main focus being on describing the right analytical method for determining the isotopic composition of lead in soil. First part this thesis summarizes the most important characteristics and properties of lead. Next part is concerned with the methodology of collection and preparation of soil samples for the analysis itself. The thesis then contains detailed description of the analytical method, which is being currently the most used for determining the isotopic composition of soil – mass spectrometry with inductively coupled plasma. Since this is not a research thesis, in the fifth part, results of studies from the Příbram region are presented, alongside other possible uses of this method.

Key words: lead isotopic composition, soils