

## ***Abstract***

The Vůznice Reservoir is located in the Protected Landscape Area Křivoklátsko. The thesis took advantage of the special possibilities to sample bottom sediment from the drained reservoir's space. The Vůznice Reservoir is discharged only exceptionally. Concentrations of heavy metals were evaluated in the sediments' samples. Given values were compared with pollution limits under current legislation of the Czech Republic for possible application of sediments on agricultural land resources. In addition, the values were compared with the U.S. EPA limits, particularly with PEC and TEC.

Selected heavy metals meet the required limits of Decree No. 257/2009 Coll. placed on the sediment.

***Key words:*** toxic metals, Vuznice, bottom sediment, application of dredged sediments on land