Abstract

This thesis deals with the dam of the Šeberák pond. This water reservoir is included in III. category of historical water works. The dam is currently showing minor defects, but could be seriously damaged by extraordinary circumstances. The aim of this thesis is to accomplish an engineering geological survey of the dam, to assess its competence and recommend remediation measures.

For the purpose of the survey, core boreholes and dynamic penetration tests were performed. Soil samples were taken from the drilling cores for laboratory soil tests. Geomorphological, geological and hydrogeological conditions were described, one longitudinal geological section of the dam and four cross-sections were constructed. Based on evaluated field works and obtained data from the pond manager, the engineering geological conditions of the dam body were described. The most serious concern is the intensity of water seep through the dam in flood situations. Solution options have been recommended for each part and problem of the dam.