

The thesis deals with the status assessment of the stream in urban areas. The study area is the stream Rokytká in Prague. The method Hydroecological monitoring HEM (Langhammer, 2007, 2013) was used for the thesis based on field hydromorphological survey. This method is compatible with the Water Framework Directive 2000/60/EC. The thesis also includes assessment of the runoff regime and water quality based on the available hydrological and hydrochemical data. As a final result, it was found out the stream Rokytká achieves III. hydromorphological state – average state. The water quality state does not meet the requirements of the environmental standards quality. In the urban landscape, it is necessary to find a suitable compromise between flood protection and good environmental conditions.