Groundwater Checklist
Metadata tool for groundwater protection and interaction

Introduction
Groundwater pollution prohibition (Environmental Protection Act and Water Act) covers all groundwater regardless of the boundaries of the groundwater areas classified important for water supply. The aim of Groundwater Checklist is to enhance the groundwater protection, prevent groundwater contamination and ease the groundwater risk management.

Interaction tool for companies, government agencies and consultants
Groundwater Checklist is a tool for documentation and communication. The checklist includes information of hydrogeological structure and interaction of groundwater and surface water, managing the groundwater flow pattern and transport of contaminants (Fig 1). Empirical knowledge about the best practices, widely used methods and novel techniques in groundwater investigations have been collected from various websites and literature. Main documents are the metadata table (Fig 2) and the table of methods (Fig 3).

Applications & benefits
Groundwater Checklist improves document management, clarifies the basis of conclusions and helps finding suitable research methods. The Checklist can be used as an advisory list to ensure that all the important knowledge of groundwater issues (Fig 4) has been appropriately investigated.

Fig. 1. Groundwater Checklist includes sections of data management in relation to 1) hydrogeological structure, 2) groundwater flow and 3) contaminant transport.

Fig. 2. Example row from Groundwater Checklist

Fig. 3. Table of investigation methods

Fig. 4. The complex relations between heterogeneous hydrogeology, geochemistry and various research methods are taken into account.