Management of Ground Water Data
as Part of an IWRM-Project, Vietnam

Description

The Department of Natural Resources and Environment (DONRE) of the province Lam Dong in southern Vietnam is responsible for monitoring the quality and quantity of ground and surface water. This task includes identifying areas in which water quality is deteriorating due to human influence, such as land fills, industrial sites or intensive use of fertilizers. Since DONRE regularly carries out water sampling campaigns within the province it accumulates large amounts of ground water data.

In order to improve the efficiency of data management DONRE authorized ribeka to introduce the ground water management system GW-Base within its department. Training on managing, evaluating and reporting with GW-Base was given by ribeka personnel in Vietnam at the beginning of the project. Software support for the ongoing work is provided by the ribeka home office in Germany. The project is carried out in cooperation with the Ruhr University Bochum and is financially supported by the German Federal Ministry of Education and Research.
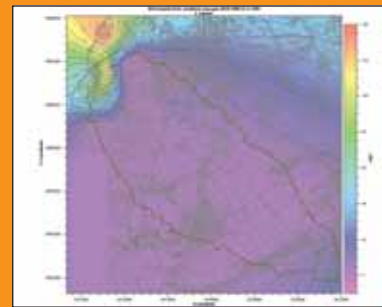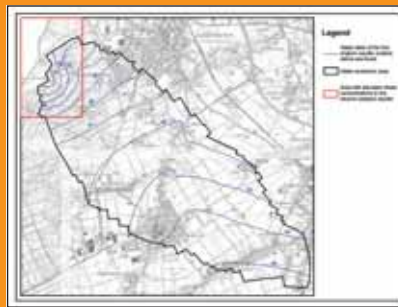
Contact

Erich Berger
(Managing Director / Hydrogeologist)

Period

2008 – ongoing

Client: Department of Natural Resources and Environment (DONRE) of the province Lam Dong, Vietnam and the German project for Integrated Water Resources Management (IWRM)

Member of
German Water
Partnership

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Drinking Water Resource Protection, Germany

Description

In the catchment area of a major drinking water supplier in western Germany increasing nitrate concentrations were noticed within a deep water-bearing layer. Although high nitrate concentrations, resulting from regional intensive application of fertilizers, were known from shallow layers in the area, they were new to the deep water-bearing layer.

An evaluation of the existing data by ribeka, using the ground water monitoring software GW-Base®, resulted in the quick identification of the source of the high nitrate concentrations within the deep water-bearing layer. Thereafter a ground water model was calculated in order to gain a better understanding of the local hydrogeological system. By readjusting the extraction rates of the wells within the catchment the input of nitrate into the deep layer was strongly reduced. ribeka continues to intensely monitor the ground water within the project area, applying conventional data acquisition methods as well as data loggers, in order to be able to quickly react to any negative changes of ground water quality.

Contact

Michael Sarvan
(Senior Sales Manager / Hydrogeologist)

Period

2002 - ongoing

Client: Major drinking water supplier in western Germany