PÖYRY CASE SUMMARY
Groundwater Remedial - Korneuburg
Groundwater Modelling

Project
Groundwater Remedial Design-Korneuburg

Client
Kwizda Agro GmbH

Country
Austria

Services
- Generation of a transient 3D-Groundwater model
- Design and optimizing of a remedial system
- Expert attending approval procedures
- Groundwater modelling with solute transport

Execution Period
2012 - 2014

Background and Objectives
Planning and verifying of a groundwater decontamination system in Korneuburg (Lower Austria) by groundwater modelling.

The project started with a smaller-sized steady groundwater model in order to obtain quick results concerning pumping effects at the end of the contaminant plume.

Then a transient groundwater model was established (15 years in daily time steps), which simulates a representative period. Additional investigations examined solute transport by modelling the contaminant plume.

Scope of Work
- Generation of a transient 3D-Groundwater model
- Design and optimising of a remedial system
- Expert attending approval procedures
- Groundwater modelling with solute transport

The conclusions of the modelling results led to an optimized system of remediation wells, specified the enclosure by a seal wall of the most contaminated area and showed effects on the groundwater body, surface waters and existing water rights.

Project Impact
Reports and detailed surveys were used as documents for submission to authorities and approval procedures.