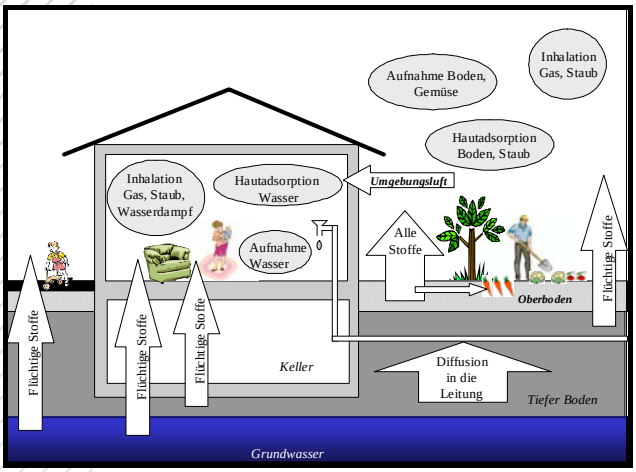
Industrial Site for Tar Distillation and Naphtalene Crystallization



Project Description:
The history of the industrial site comprising more than 100 ha dates back until the beginning of the last century. Operations included coal mining, a cokery, wood impregnation, a briquette facility and production of electrodes. Today, facilities for tar distillation and naphtalene crystallization are operated on a large-scale basis on the site.
The industrial operations lasting for about 100 years and significant war impacts resulted in contaminant release in soil and groundwater.
A toxicological exposition risk quantification (TERQ) with regard to present kinds of use was carried out for the site and the workers' village located in its downgradient area.

HPC Services:
- Historical research and elaboration of an investigation program,
- Additional sampling of soil, soil gas and ambient air for completion of the data base,
- Toxicological exposition risk quantification (TERQ) for the site and its direct downgradient area with regard to the following scenarios:
- industrial area,
- residential area with and without kitchen garden,
- garden plots,
- childrens' playground,
- recreation area.

Project Name:
Toxicological exposition risk quantification for the Rütgers Chemicals GmbH site in Castrop-Rauxel.

Country:
Germany, Northrhine Westphalia

Client:
Tar processing facility

Purpose:
Evaluation of the site and its downgradient area with regard to health risks for residents.

Contract Volume:
40 000€

Project Duration:
Since 2007

Project Managers:
Dr. F. Karg, T. Grauf, U. Hintzen

Project Scientist:
F. Negrazus

Field of Service:
Toxicological risk evaluation

Project Data:
- Contaminants: heavy metals, cyanids, BTEX, PAH, phenols, TPH.

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