

Geochemical Modeling

Geochemical Modeling is a key project support skill that employs TIPS software such as *Geochemists Workbench* and *Aqua* to analyze water chemistry of a mine pool or coal mine discharge can be used for such tasks as fingerprinting the source of offsite pollution or determining the amount of dilution to be used at least a part of the solution for a contaminate. Typical application include determining the quality of water test data (i.e. determining the cation-anion balance to determine if all the significant components of the water have been analyzed), to predict the minerals which are likely to precipitate (i.e. removal of contaminants), and evaluate passive and active treatment options prior to pilot test cell or full scale system construction.