

**RESULTS OF GEOCHEMICAL SURVEY PROGRAMME
ACCOMPANYING THE FLOODING OF THE POTASH SALT MINE
HOPE IN NORTHERN GERMANY**

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Abstract

The paper presents the results of a geochemical measurement program undertaken prior to and during the flooding of a former potash mine in Northern Germany. The measurements were part of a large scale chemical investigation program designed to assess the processes activated in an incident scenario involving ingress of water into a final repository for radwaste in a salt formation. The tests determined the solution and precipitation processes of the charged sodium chloride solution in contact with exposed sylvite and hard salt layers. The physical chemical parameters of the salt solutions were measured at various points in the mine. The paper discusses the dependence of the physical parameters in the chemical composition and presents the predicted state of chemical equilibrium.