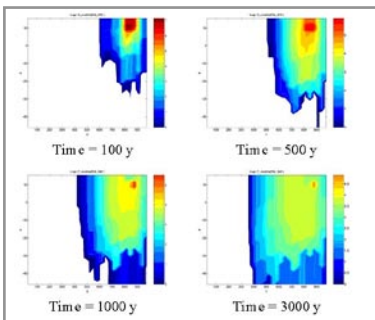


**Water Flow Model**



**Physical and Chemical  
Evolution and Transport**

## Simulation of Environmental Risks

### The Challenge

Nexia Solutions was asked to develop code capable of demonstrating the viability of plans to remediate legacy contamination and manage waste and disposal facilities. Challenging stakeholder requirements included coarse continuum modelling with the capability to represent an entire site. In addition the ability to provide probabilistic assessment of waste, engineering and the chemistry and landform process was also required.

### The Solution

Drawing on significant expertise in performance assessment modelling in support of safety cases, Nexia Solutions was able to fully develop and verify the Simulation of Environmental Risks (SimER) code.

### The Benefits

Our customer is now able to plan with greater accuracy as the code is available to create models of sites for projects which require a comprehensive and flexible performance assessment. In addition, the code is capable of meeting all NDA stakeholder requirements.

**Daniel Mathers, BSc, MSc**

Team Manager

T: +44 (0)1925 832289

E: [environment@nexasolutions.com](mailto:environment@nexasolutions.com)

**Nexia Solutions Ltd., A BNFL Group Company**

Risley, Warrington, Cheshire, WA3 6AS

[www.nexasolutions.com/environment](http://www.nexasolutions.com/environment)