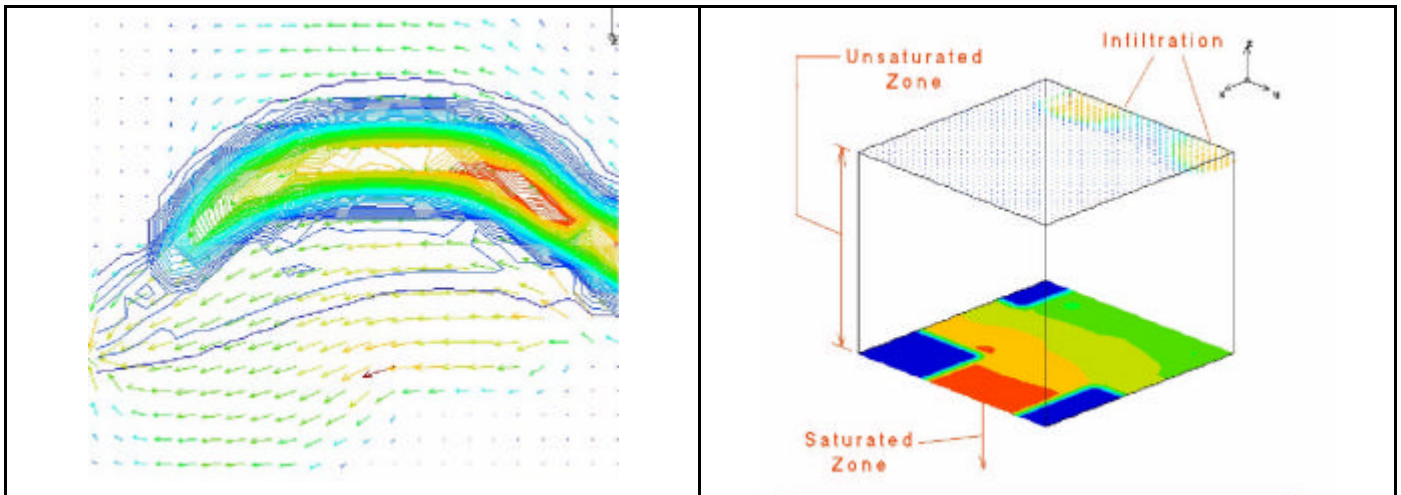# *fluidyn* – POLLUSOL

## FLOW & TRANSPORT OF POLLUTANTS IN GROUND WATER



*fluidyn* -**POLLUSOL** is a model of the *fluidyn* -**FLOWSOL** software family. *fluidyn* -**POLLUSOL** is a 3D fluid mechanics tool to simulate the pollutant dispersion in ground water and in aquifers.
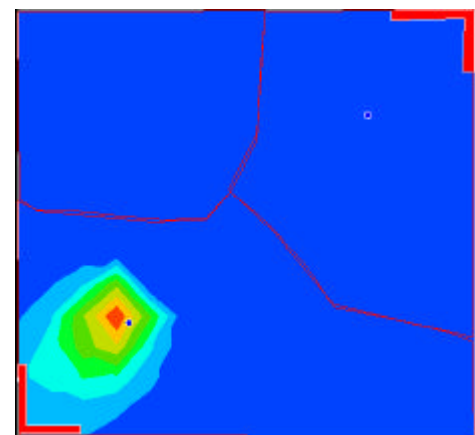
## APPLICATION AREAS

- Planning for Groundwater Resource Management, e.g. design of New Water Wells
- Predicting the future effects of Groundwater Contamination (radioactive wastes)
- Planning and Design of Safeguard and Cleanup measures

## POSSIBLE POLLUTANT SOURCES

- Lagoons
- Septic Tanks
- Waste Repositories
- Waste Disposal Sites
- Underground Storage Tanks



Tritium concentration in a confined aquifer
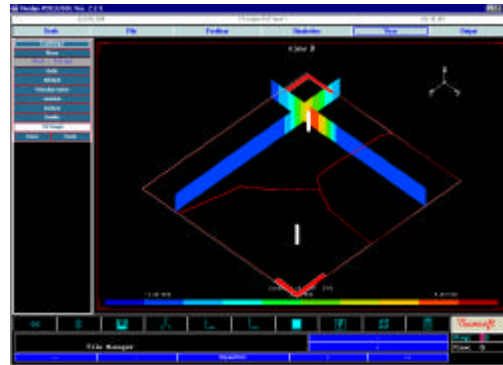
## MODEL CAPABILITIES

- 1-, 2- & 3-Dimensional Simulations
- Steady and Unsteady simulation domains
- Single and Multiple Layers
- Saturated and Unsaturated Zones
- Homogeneous, isotropic, heterogeneous and anisotropic media
- Dispersion, advection, decay, adsorption and filtration phenomena considered

# *fluidyn* -POLLUSOL OFFERS

- Fully menu driven package
- Latest built-in numerical models
- Built-in Optimized Numerical Parameters
- Probabilistic Models
- Visual Display of pollutant spread
- Library of case studies



## WHO CAN USE *fluidyn* -POLLUSOL ?

- City Administrative Authorities
- Water Resource Management Personnel
- Environmental Engineers
- Sanitary Engineers
- Hydrologists, Hydro-geologists

## SERVICES

Consultancy services are also offered for conducting modelling studies with *fluidyn* -POLLUSOL by the team of engineers involved in the development of the software.

The existing capabilities of the software can be enhanced by integrating new methods as per the client specifications.

*fluidyn* -POLLUSOL is an accurate and user-friendly simulation tool, specially designed to satisfy the needs of the environmental sector.

## OTHER *fluidyn* -FLOWSOL MODELS:

*fluidyn* -FLOWCOAST        Surface water pollution and hydraulics
*fluidyn* -FLOWPOL        Miscible pollutant dispersion in surface water
*fluidyn* -FLOWOIL        Oil slick dispersion in sea and costal waters
*fluidyn* -FLOWRIVE        Flooding risks due to rupture in dikes, dams
*fluidyn* -FLOWSED        Erosion, deposits and sediment transport

*Transoft* International

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