SADA

Spatial Analysis and Decision Assistance (SADA)

Developed for the United States Environmental Protection Agency and the United States Nuclear Regulatory Commission SADA is free software. The tools within the SADA model include integrated modules for visualisation, geospatial analysis, statistical analysis, human health risk assessment, ecological risk assessment, cost /benefit analysis, sampling design, and decision analysis. The capabilities of SADA can be used independently or collectively to address site specific concerns when characterising a contaminated site, assessing risk, determining the location of future samples, and when designing remedial action. A freeware version is available from http://www.tiem.utk.edu/~sada/index.shtml. SADA is developed in The Institute for Environmental Modeling at the University of Tennessee.

Although primarily developed for non-radioactive contaminants, SADA can be applied to radioactive contamination for basic screening tier assessments by inclusion of US DOE biota concentration guidelines (BCG's) (i.e. predicted no-effects media concentrations). In effect this means that SADA can be used for assessments equivalent to Level 1 of the RESRAD-BIOTA package but with the added functionality of being able to consider the data within a spatial context.