

Decision Support Tool	Functions	Interactive (I) or File Input (F)	File Input/Output					Contaminants					Media					Potential Technical Team Members
			Tabular Input	Tabular Output	Graphic Input	Graphic Output	Print Report?	Metals	Chlorinated Solvents	SVOCs	Pesticides / PCBs	Petroleum	Radionuclides	Soil / Sediment	Soil Gas	Air	Surface Water	
AMDTreat http://amdtreat.osmre.gov	Cost Estimating Calculators (Water Quality)	■	I									NA	NA	NA	√	√		Engineer Geochemist
ARAMS http://el.erdc.usace.army.mil/arams/	Human Health Risk Assessment Ecological Risk Assessment Statistical Analysis Conceptual Site Model	■ □ □ □	I	NA	xls txt	NA	NA	Yes	√	√	√	√	√	√	√	√	√	Risk Assessor
BIOBALANCE http://www.gsi-net.com/Software/biobalancetoolkit.asp	Analytical Modeling Site Screening Remedial Process Selection	■ ■ ■	I	NA	NA	NA	NA	Yes	NA	√	NA	NA	NA	NA	NA	NA	√	Hydrogeologist Geochemist
BIOCHLOR http://www.epa.gov/ada/csmos/models/biochlor.html	Analytical Modeling Site Screening Remedial Process Selection	■ ■ □	I	NA	NA	NA	NA	Yes	NA	√	NA	NA	NA	NA	NA	√		Hydrogeologist General technical staff familiar with chemical fate and transport
BIOPLUME III http://www.epa.gov/ada/csmos/models/bioplume3.html	Numerical Modeling Visualization Remedial Process Selection	■ □ □	I	NA	csv txt	bmp	bmp	Yes	NA	√	NA	NA	NA	NA	NA	√		Hydrogeologist General technical staff familiar with chemical fate and transport
BIOSCREEN http://www.epa.gov/ada/csmos/models/bioscm.html	Analytical Modeling Remedial Process Selection	■ □	I	NA	xls	NA	xls	Yes	NA	NA	NA	NA	√	NA	NA	√		Hydrogeologist
CAMEO http://www.epa.gov/ceppo/cameo/cameo.htm	Database Emergency Response Tool Regulatory Reporting (EPCRA) Analytical Modeling	■ ■ ■ □	I/F	mer	zip	jpg	jpg	Yes	√	√	√	√	√	√	√	√		Emergency Responder
FIELDS http://www.tiem.utk.edu/~fields/	Visualization Initial Sampling Secondary Sampling Geospatial Interpolation Cost-Benefit Analysis Human Health Risk Assessment Ecological Risk Assessment	■ □ □ ■ □ □ □	F	xls	dbf txt	dx	jpg	Yes	√	√	√	√	√	√	√	√		GIS Technician Statistician Staff familiar with interpolation techniques
FSPLUS http://www.tiem.utk.edu/~7Efields/	Visualization Geospatial Interpolation Data Acquisition	■ □ □	F	dbf	NA	dx	jpg	No	√	√	√	√	√	√	√	√		Statistician Staff familiar with interpolation techniques
GeoSEM http://esc.svrres.com/geosem/default.htm	Visualization Statistical Analysis Geospatial Interpolation	■ ■ ■	F	xls	dbf	many ²	shp	No	√	√	√	√	√	√	√	√		Risk Assessor Statistician
Groundwater Sensitivity Toolkit http://www.gsi-net.com/software/GroundwaterSensitivity.asp	Site Screening	■	I	NA	xls	NA	NA	Yes	√	√	NA	NA	√	NA	NA	√		Hydrogeologist
HSSM http://www.epa.gov/ada/csmos/models/hssmwin.html	Visualization Analytical Modeling	■ ■	I/F	dat	NA	NA	bmp	Yes	NA	√	NA	NA	√	NA	√	√		Hydrogeologist
Johnson - Ettinger model http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettin_ger.htm	Human Health Risk Assessment Analytical Modeling	■ ■	I	NA	xls	NA	NA	Yes	NA	√	NA	NA	√	NA	NA	NA		Risk Assessor
MAROS http://www.gsi-net.com/Software/maros/Maros.asp	Data Management Monitoring Network Optimization Statistical Analysis	■ ■ ■	I/F	xls	xls	NA	xls	Yes	√	√	√	√	√	√	√	√		Hydrogeologist Statistician
Mass Flux toolkit http://www.gsi-net.com/Software/massfluxtoolkit.asp	Analytical Modeling Data Management Uncertainty Analysis	■ ■ □	I/F	txt	txt	NA	NA	Yes	NA	√	NA	NA	√	NA	NA	√		Hydrogeologist Geochemist
NAS http://www.nas.cee.vt.edu/index.php	Visualization Remedial Process Selection Analytical Modeling Numerical Modeling	■ ■ ■ □	I	NA	NA	NA	xls	Yes	NA	√	NA	NA	√	NA	NA	√		Hydrogeologist General technical staff familiar with chemical fate and transport
On Site http://www.epa.gov/athens/learn2model/part-two/onsite/	Analytical Modelling Calculators Sensitivity Analysis	■ ■ □	I	txt	txt	NA	NA	No	√	√	√	√	√	√	√	√		General technical staff familiar with chemical fate and transport models
ProUCL http://www.epa.gov/nerlesd1fsc/download.htm	Statistical Analysis	■	I/F	txt	xls	NA	vtc	Yes	√	√	√	√	√	√	√	√		Risk Assessor Statistician

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			123 wk	bmp jpg															
R.A.T. http://epa.instepsoftware.com/rat/	Collects and maps data real time <input type="checkbox"/> Create Sample Designs <input type="checkbox"/> Perform analysis and basic statistics <input checked="" type="checkbox"/>	I/F	NA csv	dbf shp dxf ASCII Files	jpg shp	shp No	√	√	√	NA	√	√	√	NA	√	NA	NA	Air quality specialist Engineer Geochemist Field Staff	
RESRAD http://web.ead.anl.gov/resrad/home2/	Human Health Risk Assessment <input type="checkbox"/> Ecological Risk Assessment <input type="checkbox"/> Analytical Modeling <input type="checkbox"/> Uncertainty Analysis <input type="checkbox"/> Sensitivity Analysis <input type="checkbox"/>	I	NA	xls	NA	NA	Yes	NA	NA	NA	NA	NA	√	√	NA	√	√	Risk Assessor Technical Staff familiar with using RESRAD	
SADA http://www.tiem.utk.edu/~sada/index.shtml	Visualization <input checked="" type="checkbox"/> Secondary Sampling <input checked="" type="checkbox"/> Initial Sampling <input type="checkbox"/> Geospatial Interpolation <input checked="" type="checkbox"/> Statistical Analysis <input type="checkbox"/> Human Health Risk Assessment <input type="checkbox"/> Ecological Risk Assessment <input type="checkbox"/> Cost-Benefit Analysis <input type="checkbox"/>	F	csv	csv shp	dxf	jpg	Yes	√	√	√	√	√	√	√	NA	√	√	Risk Assessor Statistician Staff familiar with interpolation techniques	
SCRIBE http://www.ertsupport.org/scrIBE_home.htm	Data Acquisition <input checked="" type="checkbox"/> Form/Label Generation <input checked="" type="checkbox"/> Database <input type="checkbox"/>	I/F	txt xls mdb	htm txt xls rtf	NA	NA	Yes	√	√	√	√	√	√	√	√	√	√	General technical staff familiar with sampling and field work	
SourceDK http://www.gsi-net.com/Software/SourceDK.asp	Analytical Modeling <input checked="" type="checkbox"/> Remedial Process Selection <input checked="" type="checkbox"/>	I/F	xls	NA	NA	NA	No	NA	√	√	√	√	√	NA	NA	NA	NA	√	Hydrogeologist General technical staff familiar with chemical fate and transport models
VSP http://dco.pnl.gov/vsp/	Visualization <input checked="" type="checkbox"/> Initial Sampling <input checked="" type="checkbox"/> Secondary Sampling <input checked="" type="checkbox"/> Statistical Analysis <input checked="" type="checkbox"/> Cost-Benefit Analysis <input type="checkbox"/>	I/F	txt xls csv	txt shp	dxf shp	dxf emf rtf	Yes	√	√	√	√	√	√	√	√	√	√	Statistician	
WhAEM 2000 http://www.epa.gov/ceampubl/gwater/whaem/	Analytical Modeling <input checked="" type="checkbox"/> Visualization <input checked="" type="checkbox"/> Capture Zone Delineation <input checked="" type="checkbox"/>	I/F	txt wl tp	NA shp dxf/dwg others	bbm bln/grd shp	dxf No	Any conservative (non-reactive) solutes							NA	NA	NA	NA	√	Hydrogeologist

Notes:

File input and output formats are represented in the matrix by the file extension. ASCII files, for example are indicated by the extension ".txt."

EPCRA = Emergency Planning and Community Right-to-know Act

1 ERPIMS data can be imported through an Access file or a series of text files (.tes, .res, .sam, .ldi

2 GeoSEM uses several GIS vector and raster file formats: DOD vector product format (VPF) , ESRI product files, CAD drawings (dxf), ASCII II grids, and georeferenced image formats such as geoTIFs, bitmaps, GIFs, JPGs, and ERDAS.

Legend:

N/A Not applicable