SOILVISION SYSTEMS
PRODUCT INTEGRATION CHART

SVOFFICE 2009
Next Generation Geotechnical Software

SOILVISION

SWCC Estimation
SoilVision Database allows users to estimate the hydraulic properties of unsaturated soils from a grainsize distribution. This information is easily imported to SVFlux for a groundwater analysis. Eleven theoretical estimation methods and a database of over 6000 soils allow accurate estimation of unsaturated soil properties. Hundreds of unfrozen water content curves are also available for import into SVHeat.

SVHEAT

Heat Flow
SVHeat utilizes SVFlux water contents when analyzing heat flow. Models can show how freezing fronts develop over time.

CHEMFLUX

Groundwater Flux Rates
Groundwater gradients provide a significant contribution to the movement of contaminants in the soil. These gradients can be transmitted to ChemFlux to analyze the contribution of advection to contaminant movement.

SVFLUX

Pore-Water Pressure in SVFlux
Increases in pore-water pressures due to loading in a SVSolid model can be analyzed in SVFlux.

SVSOLID

SVSolid Pore Water Pressure in SVDynamic
Pore-water pressure increases due to loading can affect the stability of a slope. SVDynamic allows SVSolid pore-water pressures to be imported for use in a slope stability analysis.

SVFlux Pore Water Pressure SVDynamic Slope Analysis
Rainfall or changes in the water table levels can reduce the stability of an unsaturated slope. Calculation of this influence can be accommodated.

Air Contents in SVAirFlow
Water content can be taken from SVFlux to calculate the air content used in SVAirFlow. Air movement underground can then be analyzed.

SVAIRFLOW

SVSolid Stresses for SVSlope Slope Stability Analysis
The stresses computed from SVSolid are used to determine the factor of safety in an SVSlope slope stability analysis.

SVSLOPE

Air Contents in SVAirFlow
Air pressures in SVAirFlow can be used in a slope stability analysis.

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