POLLUTEv10

Version 10.00

GAEA Technologies Ltd., R.K. Rowe and J.R. Booker

Case 12: POLLUTE vs Analytical solution

THE DARCY VELOCITY (Flux) THROUGH THE LAYERS Va = 0.0073 m/a

Layer Properties

Layer	Thickness	Number of Sublayers	Coefficient of Hydrodynamic Dispersion	Matrix Porosity	Distributon Coefficient	Dry Density
Soil	400 m	4	7.569E-6 m²/a	0.05	0 m³/kg	0 g/cm³

Layer	Dispersion Coefficient in Fractures	Distribution Coefficient in Fractures	Fracture Porosity
Soil	0.077 m²/a	0 m³/kg	0.0000E+00

Layer	Fracture Spacing 1	Opening Size 1	Number 1
Soil	1 m	1E-5 m	10

Boundary Conditions

Constant Concentration Top Boundary

Source Concentration	1 mg/L

Infinite Thickness Bottom Boundary

Laplace Transform Parameters

TAU	7
N	20
SIG	0
RNU	2

Calculated Concentrations at Selected Times and Depths

Time year	Depth m	Concentration mg/L
25	0.00000E+00	1.00000E+00
	1.00000E+02	5.93029E-01
	2.00000E+02	2.83783E-01
	3.00000E+02	1.06905E-01

	4.00000E+02	3.11074E-02

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