

POLLUTEv10

Version 10.00
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Case 4: Finite mass source

THE DARCY VELOCITY (Flux) THROUGH THE LAYERS $V_a = 0.03$ m/a

Layer Properties

Layer	Thickness	Number of Sublayers	Coefficient of Hydrodynamic Dispersion	Matrix Porosity	Distribution Coefficient	Dry Density
Aquitard	4 m	4	0.01 m ² /a	0.4	0 cm ³ /g	1.5 g/cm ³

Boundary Conditions

Finite Mass Top Boundary

Initial Concentration	1000 mg/L
Rate of increase	0 mg/L/yr
Volume of Leachate Collected	0.27 m/a
Reference height of Leachate	7.5 m

Fixed Outflow Bottom Boundary

Landfill Length	200 m
Landfill Width	300 m
Base Thickness	3 m
Base Porosity	0.3
Base Outflow Velocity	6 m/a

Laplace Transform Parameters

TAU	7
N	20
SIG	0
RNU	2

Maximum Base Concentration Parameters

Depth of Search	4 m
Lower Time Limit	25 year
Upper Time Limit	400 year
Base Concentration Accuracy	0.1
Maximum Search Attempts	25

Maximum Base Concentration and Time of Occurrence

Time yr	Depth m	Concentration mg/L	Preceeding Time	Preceeding Concentration	Exceeding Time	Exceeding Concentration
7.0E+01	0.00000E+00	6.10402E+01				
	1.00000E+00	1.08202E+02				
	2.00000E+00	1.89983E+02				
	3.00000E+00	3.13346E+02				
	4.00000E+00	1.35893E+02	6.9E+01	1.35496E+02	7.2E+01	1.35483E+02

Number of Search Attempts = 5

NOTICE

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