

TABLE NO. 1

MIGRATE MODEL INPUT PARAMETERS
WILLOW RUN RECYCLING AND DISPOSAL FACILITY

Parameter	Layer					
	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
Value (symbol and/or units)	HDPE geomembrane	Geosynthetic Clay Liner	HDPE geomembrane	Compacted Low Permeability Soil	Wise Lake	Wise Lake
Upper Boundary	Constant source of 1					
Lower Boundary	Impermeable bottom Boundary					
Landfill Width-base (m)	567					
Landfill Width-surface (m)	567					
Thickness (b) (m)	0.0015	0.00635	0.0015	0.91	6.1	13.72
Vertical Darcy velocity (Vv) (m/yr)	-7.5x10 ⁻⁹	-7.5x10 ⁻⁹	-7.5x10 ⁻⁹	-9.3x10 ⁻⁴	-9.8x10 ⁰	-3.0x10 ⁻²
Horizontal Darcy velocity (Vh) (m/yr)	0	0	0	0	2	4.2x10 ⁻²
Diffusion Coefficient (De) (m ² /yr)	9.1x10 ⁻⁶	1.3x10 ⁻²	9.1x10 ⁻⁶	1.9x10 ⁻²	1.9x10 ⁻²	1.9x10 ⁻²
Porosity (n)	1	0.7	1	0.4	0.2	0.2
Distribution Coefficient (cm ³ /g)	0	0	0	0	0	0
Bulk Dry Density (g/cm ³)	0.94	1	0.94	1.9	1.9	1.9
Sublayers	1	1	1	3	20	15

NOTES:

m = meters
 m/yr = meters per year
 yrs = years
 m²/yr = square meters per year
 cm³/g = cubic centimeters per gram
 g/cm³ = grams per cubic centimeters

STATE OF ILLINOIS
 COUNTY OF KENDALL
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 KENDALL COUNTY

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