

TABLE 12-2

MIGRATE BASELINE INPUT PARAMETERS

Parameter Value (symbol and/or units)	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5
	Upper Geomembrane Liner	GCL	Lower Geomembrane Liner	3-Foot Thick Compacted Low Permeability Soil Liner	Upper Confining Unit
Upper Boundary	Constant source of 1				
Lower Boundary	Zero concentration				
Landfill Width-base (m)	727				
Landfill Width-surface (m)	727				
Thickness (m)	0.0015	0.0061	0.0015	0.91	1.58
Vertical Darcy Velocity (m/yr)	3.9x10 ⁻⁹ (Erickson equation)	3.9x10 ⁻⁹ (Erickson equation)	3.9x10 ⁻⁹ (Erickson equation)	1.3x10 ⁻³ (Design criteria and leachate head)	7.7x10 ⁻⁴ (Laboratory results and leachate head)
Horizontal Darcy Velocity (m/yr)	0	0	0	0	0
Vertical Hydrodynamic Dispersion (Diffusion/Dispersion Coefficient) (m ² /yr)	4.9x10 ⁻¹⁰ (Weighted saturated diffusion, HELP default weighted leachate head and Xu and Eckstein)	9.4x10 ⁻⁷ (Weighted saturated diffusion, manufacturer's specification, weighted leachate head and Xu and Eckstein)	4.9x10 ⁻¹⁰ (Weighted saturated diffusion, HELP default weighted leachate head and Xu and Eckstein)	1.8x10 ⁻² (Chloride diffusion)	1.8x10 ⁻² (Chloride diffusion)
Horizontal Hydrodynamic Dispersion (Diffusion/Dispersion Coefficient) (m ² /yr)	4.8x10 ⁻¹⁰	8.5x10 ⁻⁷	4.8x10 ⁻¹⁰	1.8x10 ⁻²	1.8x10 ⁻²
Porosity (n)	1	0.7	1	0.4	0.4
Distribution Coefficient (cm ³ /g)	0	0	0	0	0
Bulk Dry Density (g/cm ³)	0.94	1	0.94	1.7	1.7
Sublayers	1	1	1	3	5
Output distances (m)	387 (1/3 distance to edge of zone of attenuation) 398 (2/3 distance to edge of zone of attenuation) STA 408 (at edge of zone of attenuation)				

COUNTY OF KENDALL

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