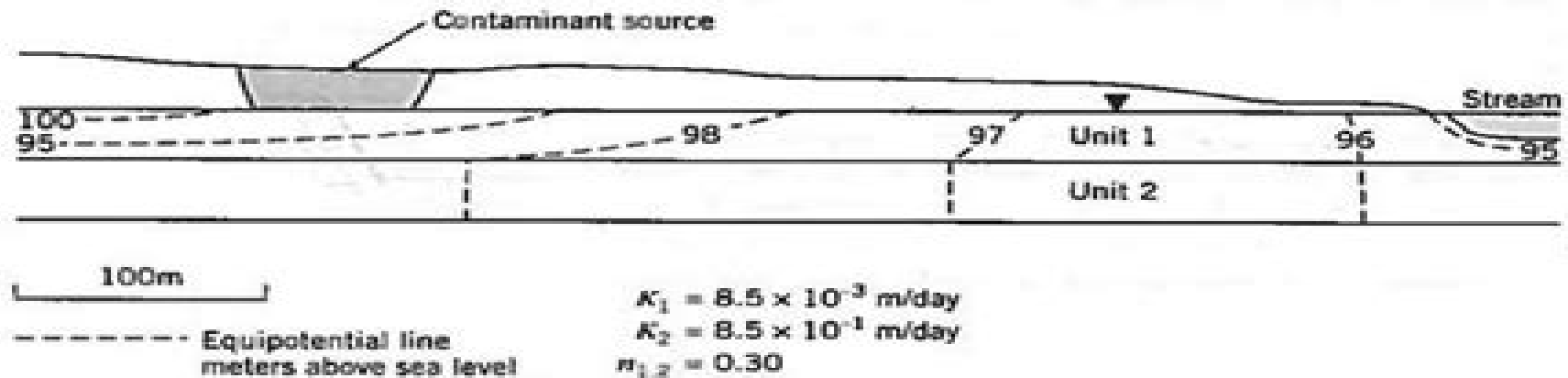


19.1. The hydrogeologic cross section on the figure illustrates the pattern of ground-water flow along a local flow system. Assume that the source of contamination develops with advection as the only



operative transport process. Describe the pathway for contaminant migration and estimate at what time in the future the plume will reach the stream.

19.2. Ground water flows through the left face of a cube of sandstone (1 m on a side) and out of the right face with a linear ground-water velocity of 10^{-5} m/s . The porosity of the sandstone is 0.10, and the effective diffusion coefficient is $10^{-10} \text{ m}^2/\text{s}$. Assume that a tracer has concentrations of 120, 100, and 80 mg/l (1.2, 1.0, and $0.8 \times 10^5 \text{ mg/m}^3$) at the inflow face, the middle of the block, and the outflow face, respectively. Calculate the mass flux through the central plane due to advection and diffusion.

19.3. A contaminant is added as a point source to ground water flowing with a constant velocity of $4 \times 10^{-6} \text{ m/s}$. Assuming longitudinal and two transverse dispersivities (y - and z -directions) of 1.0, 0.1, and 0.01 m, determine the spatial standard deviations ($\sigma_{x,y,z}$) in the plume size after 400 m of transport.

19.4. A series of hydraulic-conductivity measurements for an unconfined aquifer provide a mean hydraulic conductivity ($\bar{Y}$) of 0.004 m/s, where $Y = \ln K$, a variance in the log-transformed hydraulic conductivity (σ_Y^2) of 1.0, and a correlation length in the direction of the mean flow (σ_L) of 10.0 m. Estimate the asymptotic macroscale dispersivity for the aquifer.

19.5. In Figure 19.19, look at the pattern of evolution in the Br^- concentration as a function of travel distance. Assume that at 237 days, Γ_L is equal to 24 m. Calculate the dispersion coefficient and the dispersivity for the aquifer.

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