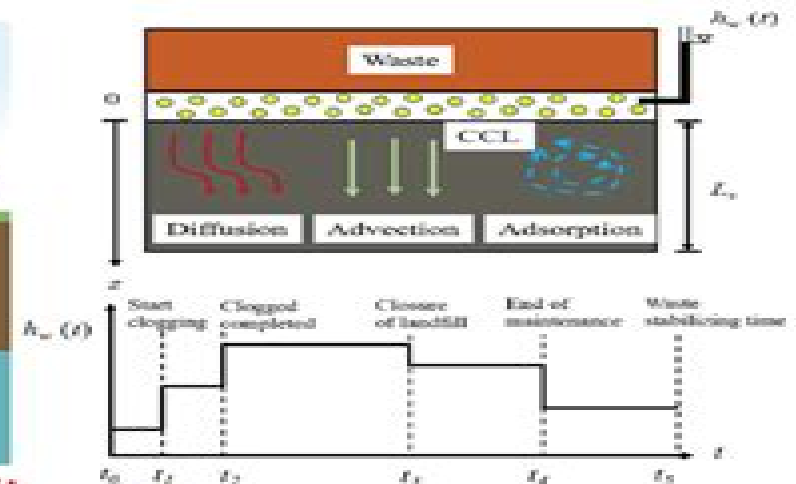
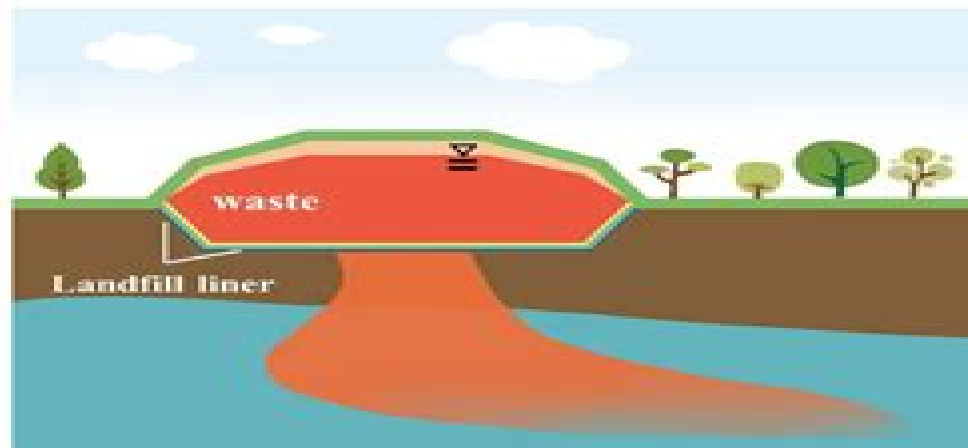


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Editors: F. Darve • R. de Borst • A. J. Whittle • R. I. Borja • G. Pijaudier-Cabot



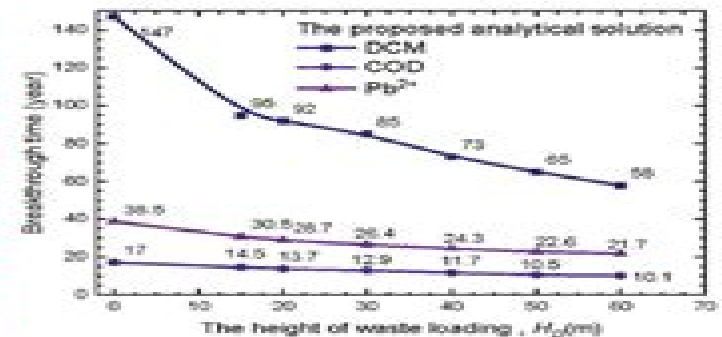
Contaminant transport equation

$$R_d \frac{\partial c_s(z, t)}{\partial t} = D_s \frac{\partial^2 c_s(z, t)}{\partial z^2} - \frac{k_s h_w(t)}{n L_s} \frac{\partial c_s(z, t)}{\partial z}$$

Analytical solution

$$c_s(z, t) = c_0 + \frac{e^{-\frac{2zv_s + v_s^2 t}{4D}}}{\sqrt{4\pi Dt}} \omega(z, t)$$

$$\omega(z, t) = \int_0^\infty [\theta_{s,d}(z) - \theta_{s,d}(0)] \left[e^{\frac{v_s x}{2D} - \frac{(z-x)^2}{4D\tau}} - e^{\frac{v_s x}{2D} - \frac{(z+x)^2}{4D\tau}} \right] dx$$



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