

$$L_y = 5000 \text{ m}$$

Stream-aquifer exchange boundary

$$\text{Cauchy BC } (\alpha h - K b dh/dx = Q_s)$$

$$\text{Neumann BC } (K b dh/dy = 0)$$

$$K = 1 \text{ m.d}^{-1}$$

$$S_y = 0.02$$

$$b = 50 \text{ m}$$

$$K_s = 10^{-3} \text{ m.d}^{-1}$$

$$b_s = 1 \text{ m}$$

$$Q_B = 9 \text{ m}^3.\text{d}^{-1}$$

$$h(t=0) = 50 \text{ m}$$

$$\text{Neumann BC } (K b dh/dx = 0)$$

$$\text{Neumann BC } (K b dh/dy = 0)$$

$$L_x = 5000 \text{ m}$$