Discharge Duration of Common Pond

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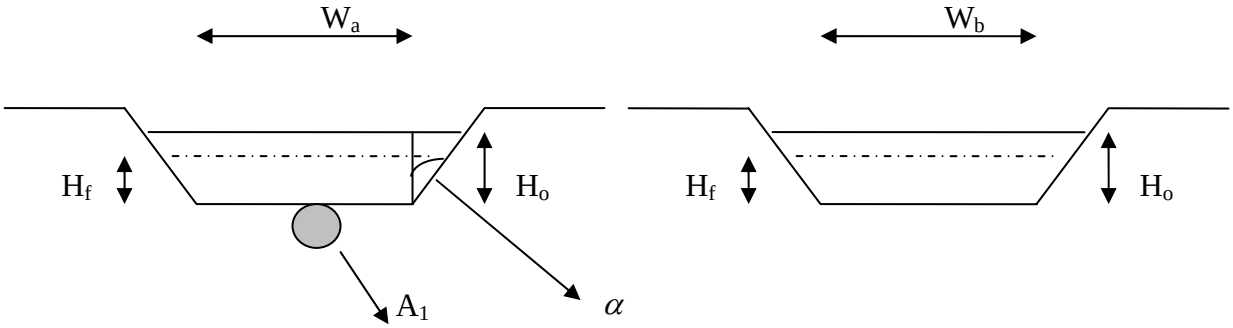

Side A **Side B**

$$t = \frac{1}{A_1\sqrt{2g}}\left[\begin{array}{l} 2W_aW_b\left(h_o^{1/2} - h_f^{1/2}\right) + \frac{4}{3}W_a(\tan\alpha)\left(h_o^{3/2} - h_f^{3/2}\right) \\ + \frac{4}{3}W_b(\tan\alpha)\left(h_o^{3/2} - h_f^{3/2}\right) + \frac{8}{5}(\tan^2\alpha)\left(h_o^{5/2} - h_f^{5/2}\right) \end{array}\right]$$

$g = 9.81\,m/s^2$

$A_1 = Discharge\_Outlet\_Area$

$t = Second$

Prepared by JZ Khoo