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Utilising the Boundary Layer to Help Restore the Connectivity of Fish Habitats and Populations. An Engineering Discussion

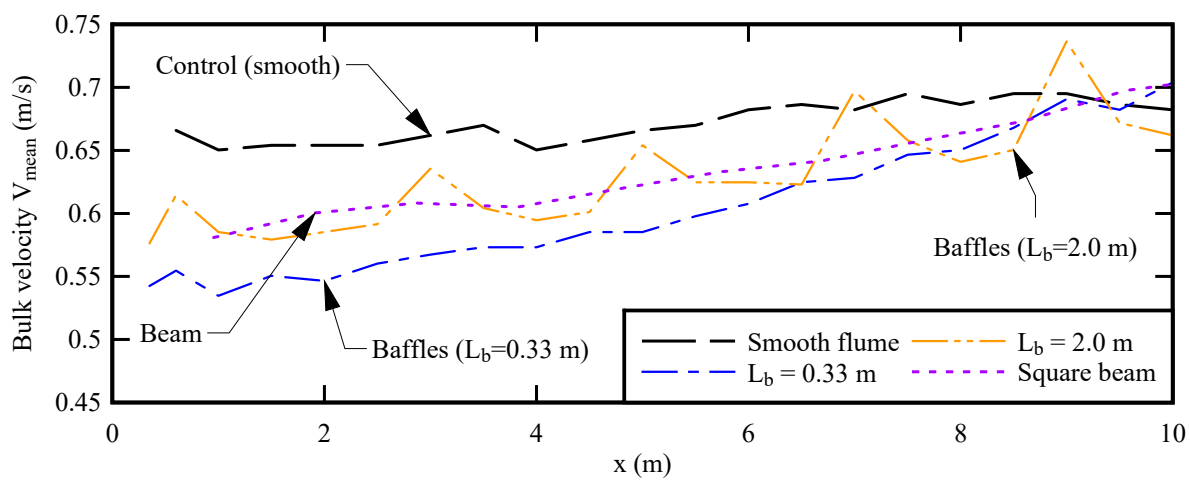
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GRAPHICAL ABSTRACT



Longitudinal profile of bulk velocity V_{mean} in 12 m long 0.5 m wide horizontal flume for $Q = 0.0556 \text{ m}^3/\text{s}$. Comparison between control (smooth boundary) channel, channel with square beam, and channel with small triangular baffles ($h_b = 0.133 \text{ m}$). Legend includes the longitudinal baffle spacing L_b . Upper photographs present the different types of boundary treatment: control (smooth boundary) channel, channel with square beam, and channel with small triangular baffles (from left to right)