

CIVE 716 EROSION AND SEDIMENTATION

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Computer problem #1 Due September 30, 2009

Solve computer problem 3.1 on p. 49 of the text *Erosion and Sedimentation* after considering that a 10 km reach at a bed slope of 0.0005 has been added to the upstream portion of the channel sketched on p. 49. The width of this added segment is twice the constant channel width of the lower reach. Assume a constant Darcy-Weisbach $f = 0.04$ throughout the entire reach and use the correct form of the backwater equation (Eq. E3.7.2). It is fine to assume a wide-rectangular channel for the calculations.
