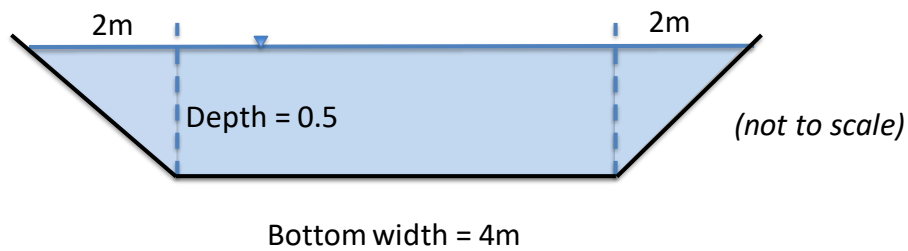


CE 44200 Introduction to Hydrology

Assignment 17

Name: _____

Q1. Determine the bankfull discharge, Q , of a mountain stream with a channel shape that can be approximated by a trapezoid shown below. The stream bed has a slope of 0.003, and is composed of gravels, cobbles, and a few boulders (assume Manning's n of 0.06).



Q2. Calculate the flow depth in a two-foot-wide rectangular channel having $n = 0.015$, $S_0 = 0.025$, and $Q = 9.26$ cfs.