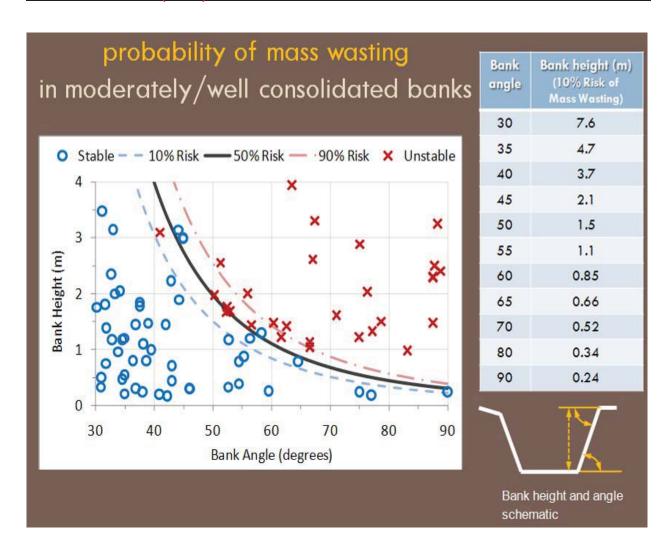
FORM 6: PROBABILITY OF MASS WASTING BANK FAILURE

If mass wasting is not currently extensive and the banks are moderately- to well-consolidated, measure bank height and angle at several locations (i.e., at least three locations that capture the range of conditions present in the study reach) to estimate representative values for the reach. Use Form 6 Figure 1 below to determine if risk of bank failure is >10% and complete Form 6 Table 1. Support your results with photographs that include a protractor/rod/tape/person for scale.

	Bank Angle (degrees) (from Field)	Bank Height (m) (from Field)	Corresponding Bank Height for 10% Risk of Mass Wasting (m) (from Form 6 Figure 1 below)	Bank Failure Risk (<10% Risk) (>10% Risk)
Left Bank	<33.7 (1.5:1)			<10%
Right Bank	<33.7 (1.5:1)		<u></u>	<10%



Form 6 Figure 1. Probability Mass Wasting diagram, Bank Angle:Height/% Risk table, and Band Height:Angle schematic.

(Sheet 1 of 1)

Reach 1 Critical Flow Calculator enter all values in green cells and drop down boxes Inputs a) Receiving channel width at top of 19.0 С bank (ft) - see figure on right b) Channel width at bed (ft) 4.0 c) Bank height at top of bank (ft) 5.0 Channel gradient (ft/ft) 0.1047 Receiving channel roughness Same as above with more stones n=0.05 Channel materials (use weakest of unconsolidated sandy loam 0.035 lb/sq ft bed or banks). If materials are varied alluvial silt (non coloidal) 0.045 lb/sq ft medium gravel 0.12 lb/sq ft use weakest material covering more alluvial silt/clay 0.26 lb/sq ft than 20% of channel. 2.5 inch cobble 1.1 lb/sq ft enter own d50 (variable) vegetation (bed and banks) 0.6 lb/sq ft Select method of calculating Q2 Input own Q2 [Calculate Q2 using USGS regression] 14.6 0.1187 Receiving water watershed annual Receiving water watershed precip (inches) area at PoC (sq mi) Project watershed annual Project watershed area 14.6 0.1187 precipitation (inches) draining to PoC (sq mi) Outputs - Flow control range **Point of Compliance low** Receiving water Q2 2.3 1.2 flow rate (cfs) Project site Q2 Low flow class 0.5Q2 Channel vulnerability

