

Bank and bed stability record sheet—Method 3

Date (dd/mm/yy)
/ / Monitor(s) _____
 Site code _____ Tributary name _____

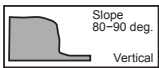
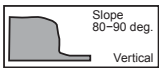
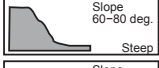
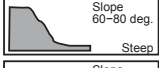
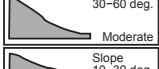
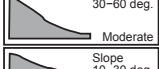


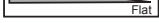
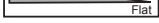
1. Sketch the entire reach length (aerial view) showing the locations of any instability types (erosion, slumping and aggradation—see below for definitions). Include in your sketch the flow direction, a north arrow and any additional prominent features of the site.

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Types of instability		
<p>Erosion: The direct removal of sediment from the stream banks or bed by flowing water.</p>	<p>Slumping: When sections of the bank collapse into the stream as a consequence of stream bank erosion.</p>	<p>Aggradation: The build-up of bank or bed material through the deposition of sediments by water.</p>

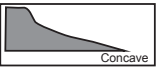
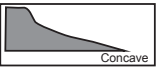
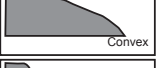
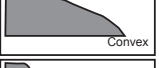
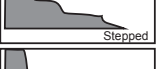
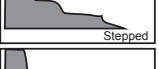
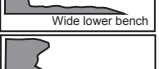
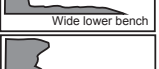
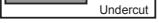
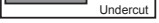
2. Bank slope

Assess the slopes of the left and right banks. Select a box for each bank that best illustrates the dominant slope type present at your site and mark it.

Left bank	Right bank
<input type="checkbox"/>  Slope 80-90 deg. Vertical	<input type="checkbox"/> 
<input type="checkbox"/>  Slope 60-80 deg. Steep	<input type="checkbox"/> 
<input type="checkbox"/>  Slope 30-60 deg. Moderate	<input type="checkbox"/> 
<input type="checkbox"/>  Slope 10-30 deg. Low	<input type="checkbox"/> 
<input type="checkbox"/>  Slope < 10 deg. Flat	<input type="checkbox"/> 

3. Bank shape

Assess the shape of both the left and right banks. Select a box that for each bank that best illustrates the dominant shape present at your site and mark it.

Left bank	Right bank
<input type="checkbox"/>  Concave	<input type="checkbox"/> 
<input type="checkbox"/>  Convex	<input type="checkbox"/> 
<input type="checkbox"/>  Stepped	<input type="checkbox"/> 
<input type="checkbox"/>  Wide lower bench	<input type="checkbox"/> 
<input type="checkbox"/>  Undercut	<input type="checkbox"/> 

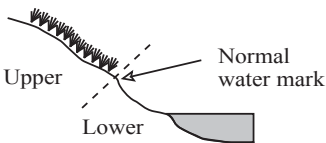
Note: The information collected in **steps 2 and 3** are not used in calculating the bank stability index (page 3). However it is useful for interpreting the index, and identifying changes in bank form over time that may affect stability.

4. Bank instability types

In the boxes provided, record the percentage distribution of all bank instability types present at your site (for both the lower and upper banks). Assess left and right banks independently. If a type is not present, write 0.

Left bank %		Instability type	Right bank %	
Lower	Upper		Lower	Upper
		Stable		
		Eroding		
		Slumping		
		Aggrading		
		Bare of vegetation		

Note: The sum of each column must equal 100%.



The water mark is a visible mark at the normal water level in the stream and divides the stream bank into upper and lower sections. The water mark can usually be identified by a change in the types of vegetation, erosion or sediment.

5. Bank instability locations

Assess the intensity and location of erosion, slumping and aggradation for the left and right banks, using the 0 to 5 rating scale. Record a rating number in each box that corresponds to the amount of that instability type present at the listed location.

Left bank			Instability location	Right bank		
E	S	A		E	S	A
			At bends			
			At flood plain scours			
			At obstacles			
			At seepage and run-off points			
			Irregular			
			All along			

Note: E = erosion S = slumping A = aggradation

The 0 to 5 rating scale

- 5 = major, dominant; (81–100%)
- 4 = common, abundant; (61–80%)
- 3 = regular, frequent; (41–60%)
- 2 = little, occasional; (21–40%)
- 1 = only just present, rare; (1–20%)
- 0 = absent; (0%)

6. Bank stability factors

Rate, using the 0 to 5 scale, the presence of the following factors that decrease bank stability at the site. Combine the left and right banks. If a factor is absent, mark the box with a 0. If an unlisted factor is identified, mark the 'Other' box and describe the factor in the space provided.

Stream flow and waves		Stock	
Seepage		Vehicle tracks	
Run-off		Vermin and feral animals	
Flood plain scours		Ford, culvert, road bridge, weir	
Clearing of vegetation		Mining	
Gravel or sand extraction		Other	