Record the total % of bed surface along the reach protruding out of the water at the water mark and forming a bar. Identify its type, the features of the bed & gravel if present, the overall stability of the bed and the controls and factors affecting the stability of the bed.

**BAR TYPE**
- Bars Absent
- Point
- Alternate / side Irregular
- Mid-channel island
- Encroaching Vegetation
- Around Obstructions
- Channel bar
- Low flow Meander

**BAR SIZE**
- % of bed surface forming a bar

**Bed Gravel Features**
- Dominant particle size diameter
- Alternate / side Irregular

**Angularity**
- Very Angular
- Angular
- Sub Angular
- Blade
- Rounded
- Well Rounded

**Shape**
- Sphere
- Disc
- Blade
- Rod

**Gravel surface**
- High Flow deposits
- Gravel - clean

**Bed Compaction**
- Tightly packed, armoured
- Packed, but not armoured
- Array of sizes tightly packed overlapping can be dislodged
- Moderate Compaction
- Low Compaction

**Factors Affecting Stability**
- Sand & Gravel extraction
- Bank Erosion
- Channelisation
- Melt-off of supply of alluvial materials
- Mining
- Agriculture or grazing
- Rubbish, junk
- Others

**Controls Stabilising the Bed**
- Bridge Ford or Culvert
- Rock Outcrops
- Fallen Trees

**Overall Bed Stability Rating**
<table>
<thead>
<tr>
<th>Unstable / Eroding</th>
<th>Moderate Erosion</th>
<th>Stable</th>
<th>Unstable / Aggrading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bed scoured of sand</td>
<td>Signs of deepening</td>
<td>Bed consolidated</td>
<td>Flat bed channel blocked &amp; wide but shallow. Bars large, covering most of bed / bank bed loose, unconsolidated</td>
</tr>
<tr>
<td>Signs of deepening</td>
<td>Bare eroded banks</td>
<td>Bed &amp; bar material</td>
<td>Bed flat and uniform</td>
</tr>
<tr>
<td>Erosion heads</td>
<td>Erosion creates</td>
<td>Same size</td>
<td>Bed wide &amp; shallow</td>
</tr>
<tr>
<td>Erosion causes</td>
<td>Steep bed</td>
<td>Alluvium balanced</td>
<td>Some minor over bank sitation</td>
</tr>
<tr>
<td>Steep bed</td>
<td>Unconsolidated</td>
<td>Banks stable</td>
<td>1</td>
</tr>
<tr>
<td>Bed stabilising structures</td>
<td>Rubble bricks, concrete</td>
<td>Mod. build-up at obstructions &amp; bars</td>
<td>2</td>
</tr>
<tr>
<td>Other Junk, cars, metal etc.</td>
<td>Other</td>
<td>Bed flat &amp; uniform</td>
<td>3</td>
</tr>
</tbody>
</table>

**PASSAGE FOR FISH AND OTHER ORGANISMS**
1. Score the general passage for the prevailing conditions (now) and for the stage equivalent to the water mark.
2. For Obstructions give type, height above water mark and stage when by-passed or over-topped.