

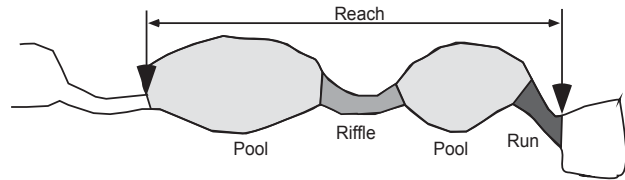
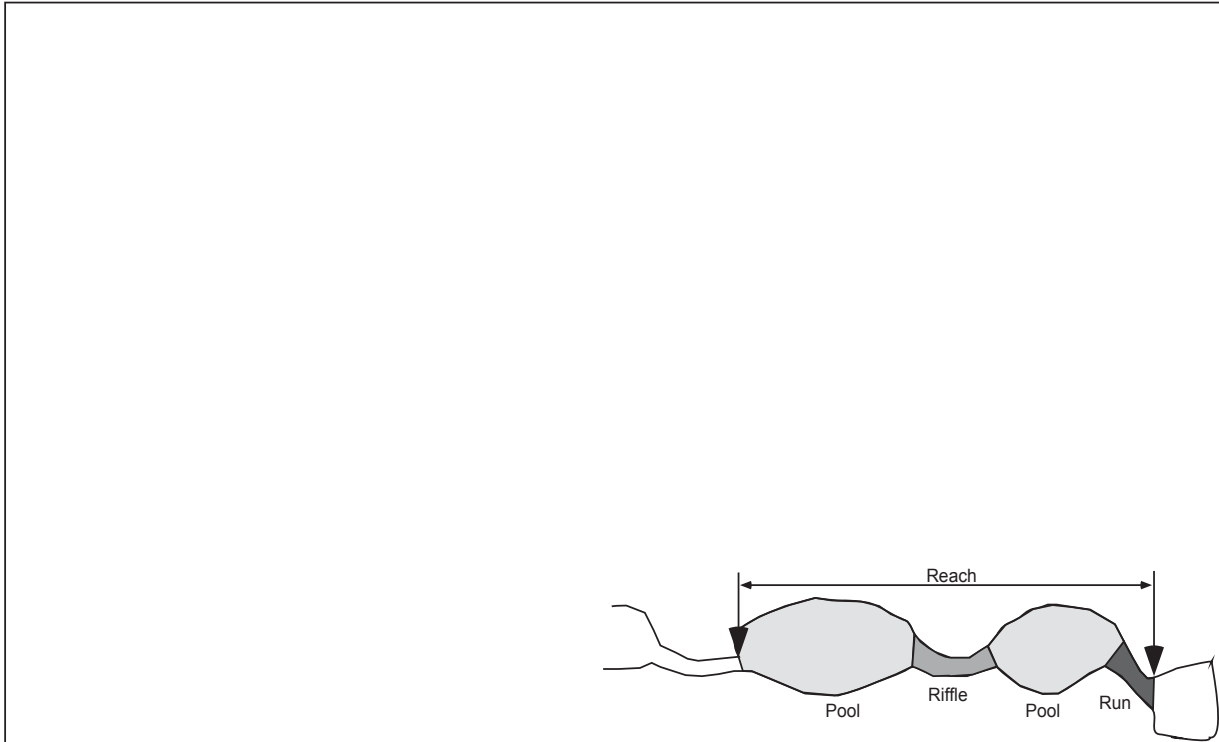
Stream habitat record sheet—Method 1

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

1. Poor visibility—Mark this box if water visibility at the site prevents accurate assessment.

Poor visibility

2. Sketch the reach—(aerial view) showing the distribution of channel, in-stream and overhanging habitat types. Also record on the sketch any obstructions to this visual survey.

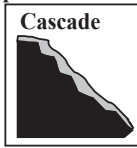


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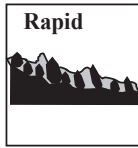
Channel habitat types:



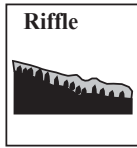
Waterfall
 Height > 1 m
 Gradient > 60 deg



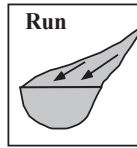
Cascade
 Step height < 1 m
 Gradient 5–60 deg
 Strong currents



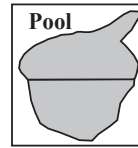
Rapid
 Depth > 0.3 m
 Gradient 3–5 deg
 Strong currents
 Rocks break surface



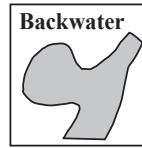
Riffle
 Depth 0.1–0.3 m
 Gradient 1–3 deg
 Moderate currents
 Surface unbroken but not smooth



Run
 Depth > 0.3 m
 Gradient 1–3 deg
 Weak but distinct and uniform current
 Surface unbroken



Pool
 Depth > 0.5 m where stream widens or deepens and currents decline



Backwater
 Depth < 0.3m
 Reasonably sized (> 20% of channel width) section cut off from the channel

3. Channel habitat types—Assess which channel habitat types are present at your site and mark the boxes corresponding to the types present. If a type is not present, record a 0 in the box.

| Channel habitat types | Present |
|-----------------------|---------|
| Waterfall | |
| Cascade | |
| Rapid | |
| Riffle | |
| Run | |
| Pool | |
| Backwater | |

Note: If a given habitat type cannot be assessed at all (due to poor visibility) mark it as 'NA' (not assessed).

4. Channel habitat rating

Mark one box that best describes the diversity of channel habitats present at your site. Use the information collected in steps 2 and 3 to aid your selection. Note the score associated with your selection.

| | | |
|--|----------|--|
| <p>Very high</p> <ul style="list-style-type: none"> • 5+ varieties of habitat present • riffles and pools of varying depths present • bends present and stream meanders | 5 | |
| <p>High</p> <ul style="list-style-type: none"> • good variety of habitats, e.g. riffles and pools, or runs and pools • good variations in within habitat types | 4 | |
| <p>Moderate</p> <ul style="list-style-type: none"> • 3+ varieties of habitat, with occasional bends • some variation of depth within habitat types | 3 | |
| <p>Low</p> <ul style="list-style-type: none"> • only slight variety of habitats • all riffles or runs or pools with only slight variation in depth, e.g. channelled stream | 2 | |
| <p>Very low</p> <ul style="list-style-type: none"> • only one type of habitat, channel uniform • one pool or run dominates site with no variation in depth, e.g. culvert or drain | 1 | |

5. In-stream habitat types

Mark the boxes provided for all in-stream habitat types present at your site. If a type is not present, record a 0 in the box.

| In-stream habitat types | Presence |
|-------------------------------------|----------|
| Logs | |
| Branches | |
| Leaves and twigs | |
| Plant and algae fragments | |
| Macrophytes | |
| Tree roots | |
| Rocks, boulders, cliffs and cobbles | |
| Man-made structures | |

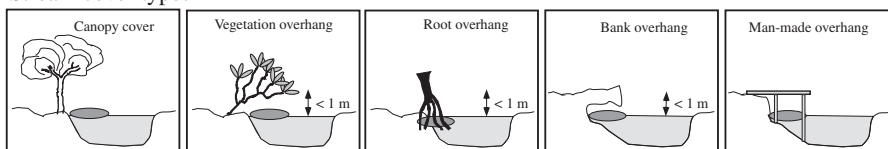
Note: If a given habitat type cannot be assessed at all (due to poor visibility), mark it as 'NA' (not assessed).

6. Stream cover

Assessing the left and right banks independently, mark the boxes corresponding to all stream cover types present at the site. If a type is not present, record a 0 in the box.

| Left bank | Stream cover type | Right bank |
|-----------|---------------------|------------|
| | Canopy cover | |
| | Vegetation overhang | |
| | Root overhang | |
| | Bank overhang | |
| | Man-made overhang | |

Stream cover types



7. In-stream habitat rating

Mark one box that best describes the diversity of in-stream habitats present at your site. Use the information collected in steps 2, 5 and 6 to assist your selection. Note the score associated with your selection.

| | | |
|--|---|--|
| <p>Very good</p> <ul style="list-style-type: none"> • in-stream habitats appear undisturbed • abundant and diverse in-stream habitats (6+ habitat types) • habitat types distributed evenly and widely over the stream bed, comprising 70–80% of the bed covered • extensive stream cover (80–100%) | 5 | |
| <p>Good</p> <ul style="list-style-type: none"> • in-stream habitats appear largely undisturbed • high diversity of in-stream habitat types (4+ habitat types) • in-stream habitat types distributed evenly or widely over the bed, 50–70% of the bed covered <p>OR</p> <ul style="list-style-type: none"> • in-stream habitats appear largely undisturbed • abundant and diverse in-stream habitats but with habitat comprising greater than 80% of the stream bed area, heavily restricting the availability of open water • stream cover of at least 60% of bank length | 4 | |
| <p>Fair</p> <ul style="list-style-type: none"> • some disturbance to in-stream habitats • moderate diversity and distribution of in-stream habitat types (3+ habitat) types • in-stream habitat types distributed patchily or unevenly over the bed comprising < 50% of bed area • patchy stream vegetation cover, < 50% of bank length | 3 | |
| <p>Poor</p> <ul style="list-style-type: none"> • in-stream habitats appear recently disturbed • low abundance and diversity of in-stream habitats (2-3 habitat types) • in-stream habitat types scattered in small disconnected patches over the bed, comprising < 30% of the bed area • scattered stream cover, < 30% of bank length | 2 | |
| <p>Very low</p> <ul style="list-style-type: none"> • in-stream habitats appear to been severely disturbed • no in-stream habitats, or low diversity of sparse cover (1 type) • highly fragmented and unconnected in-stream habitats, comprising < 10% of the bed area • canopy cover absent or near-absent, and other stream cover poor (< 10% of bank length) | 1 | |

10-45

8. Stream habitat diversity score

Add together the scores corresponding to the 'best fit' ratings selected in steps 4 and 7. This number is the stream habitat diversity score, with a maximum (best) score of 10.

| |
|--|
| Stream habitat diversity score ____ / 10 |
|--|