

# Algal Survey sheet - RAPPER v3 September 2025

## Basic site information

River:		WFD Waterbody:	
Site name or number:		Location:	
Date:		Samplers:	
Time:		Photo taken?	

## Additional site Information:

Conductivity: ( $\mu$ S)			
Temperature: ( $^{\circ}$ C)			
Water sample taken: (Y/N)			
pH			
Water quality measurements eg phosphate			
Time since last spate:	<b>&lt;14 days</b>	<b>&gt; 14 days</b>	<b>Not known</b>
Percentage Shading of river: (circle one)	<b>None</b>	<b>Moderate</b>	<b>Heavy</b>
Flow velocity: (circle one)	<b>None/minimal</b>	<b>Slow</b>	<b>Fast</b>
Moss	<b>None/Minimal</b>	<b>Moderate</b>	<b>Lots</b>
Liverworts	<b>None/Minimal</b>	<b>Moderate</b>	<b>Lots</b>
Lichens	<b>None/Minimal</b>	<b>Moderate</b>	<b>Lots</b>
Freshwater sponges	<b>None/Minimal</b>	<b>Moderate</b>	<b>Lots</b>
Sewage fungus present? (Y/N)	<b>None/Minimal</b>	<b>Moderate</b>	<b>Lots</b>
Are you confident with field ID? (Y/N)			

## Additional notes

## Substrate composition (%)

	Solid rock	
Bedrock		
Boulder	<b>&gt;256mm</b>	<b>Head size and larger</b>
Cobble	<b>64 - 256mm</b>	<b>Half fist to head size</b>
Pebble	<b>16-64mm</b>	<b>Broad bean to half fist</b>
Gravel	<b>2-16mm</b>	<b>Instant coffee granule to broad bean</b>
Sand	<b>0.06 to 2mm</b>	<b>Smaller than instant coffee granule and abrasive</b>
Silt	<b>&lt;0.06mm</b>	<b>Soft and not abrasive, not sticky</b>
Clay	<b>&lt;0.06mm</b>	<b>Sticky and cohesive</b>
Peat		
Artificial		<b>eg concrete, bricks</b>

## Site Measurements

Width of river water (m):	
Transect length (m):	
Depth at $\frac{1}{4}$ mark (cm):	
Depth at $\frac{1}{2}$ mark (cm):	
Depth at $\frac{3}{4}$ mark (cm):	
Average depth (cm):	

## ALGAL SURVEY RESULTS (RAPPER)

### Algal growth forms present (continue on separate sheet if necessary)

Algal type	Type (e.g. crust, mat etc.)	Cover value (table 1 below)	Thickness (table 2 below)
1			
2			
3			
4			
5			
6			
7			
8			
9			

**Table 1**

Cover value	Percent cover of stream bed
0	absent
1	< 5
2	5 < 25
3	>25

**Table 2**

### Algal thickness score

Score	Description	Note
1	Thin (< 1 mm)	Algae follows contours of stone, is translucent with substratum still visible. A finger pulled across the surface leaves no impression
2	Moderate (1-2mm)	Algal growths smother surface and are no longer translucent, although the major contours are still apparent. A finger pulled across the surface leaves a slight impression.
3	Thick (2 - 5 mm)	Algal growths form an opaque cover that also obscures most of the contours. A finger pulled across the surface leaves a distinct impression.
4	Very thick (> 5 mm)	As above, but even thicker