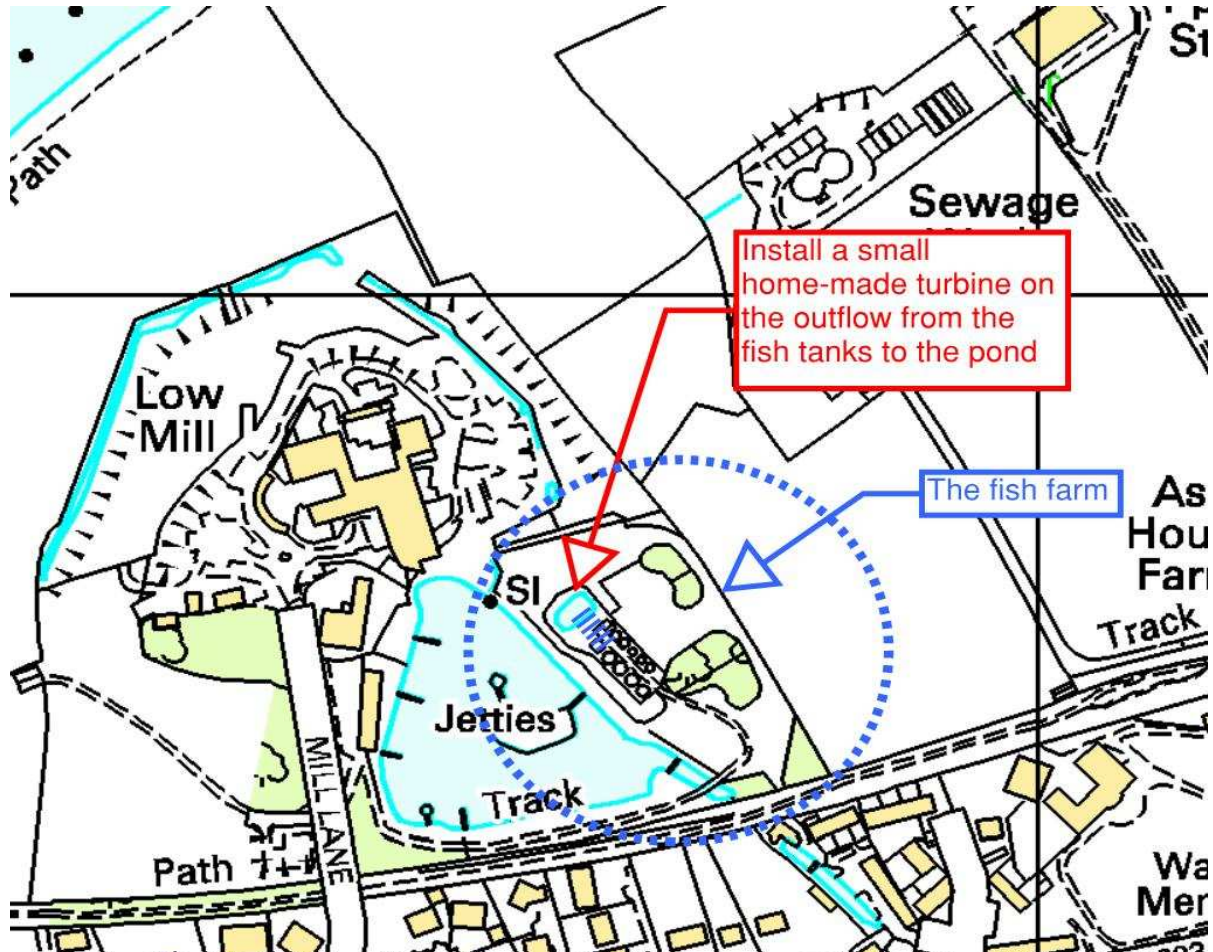


# Site 32: Bank House Fly Fishery, Caton

## Site Assessment

Figure 1 Map showing general layout



Within the Low Mill complex at Caton there is a small fish farm. A brief investigation was carried out to assess any potential for hydro power on the exiting systems at the fish farm. The best option was to harness the water flowing from the elevated fish tanks down through a small pipe into the pond. This is a very small scheme, but if it could be realised it would make some contribution to the power required at the farm and would help to oxygenate the water going into the fish pond.

Because of the very small size of this scheme, it has not been relevant to evaluate a catchment or the flow over the year. The flow taken from the existing mill leat (running from Gresgarth through Caton and around the Low Mill complex) is very small so it is expected to be fairly consistent.

Intake Grid Reference	352800, 464850
Powerhouse Grid Reference	352800, 464850

## Hydropower Analysis

Due to the difficulty in predicting likely flows at the site, it has not been possible to generate a potential power output or annual average energy production.

Gross Head [m]	2
Net Head [m]	1.8
Design Flow [m <sup>3</sup> /s]	m <sup>3</sup> /s
Rated Capacity [kW]	<1 kW

## Impact Assessment

It is not anticipated that this scheme will have any discernable impact on its surroundings, due to its small scale within the existing infrastructure of the fish farm.

## Statutory Requirements

It is unlikely that the fish farm owner would need to meet any statutory requirements to develop this scheme, although the existing abstraction license may need to be reviewed.

## Budget Development Cost

The only way this scheme could be economic is if an essentially 'homemade' turbine could be produced and all design and construction was done by the developer.

## Revenue and Simple Payback period

The revenue for this scheme would need to be calculated by the developer according to the money saved on electricity by the fish farm.

## Conclusion

This is a tiny scheme, but could provide an interesting project for the owner of the fish farm, and could make some meaningful contribution to its energy needs.

## Further Information

This site report is produced by Inter Hydro Technology on behalf of Forest of Bowland AONB, and funded by a partnership including Lancashire County Council, Lancaster & District Local Strategic Partnership, Pendle Borough Council and Ribble Valley Local Strategic Partnership.

This site report should be read in conjunction with the rest of the Forest of Bowland AONB Hydro Feasibility Study which can be downloaded at

<http://www.forestofbowland.com/climatechange#hydro>

