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The Barn
Springwood
Whalley Rd
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Lancashire
BB7 9PN

c/o e-mail: [REDACTED]

8th October 2025

Our ref: TRS2025-07F

**RE: DENDROCHRONOLOGICAL ANALYSIS:
THE BARN, HURST GREEN, LANCASHIRE**

Dear Robyn,

Please find below the results of my dendrochronological analysis.

The barn was visited on the 17th February 2025. This 3-bay stone walled building has two probably re-used upper cruck trusses with type D apexes (Alcock *et al.* 2019). Empty mortises on the cruck blades indicate that the original collars have been removed.

A dendrochronological assessment (see attached method statement) of the timbers indicated that few timbers were suitable for tree-ring dating. The majority of the oak timbers contained less than 40 rings, where as 50 rings is the minimum number generally required to enable tree-ring dating (Hillam 1998). Many of the timbers including the upper cruck blades and purlins also showed evidence of re-use.

Despite the generally low dendrochronological potential of the buildings timbers two of the cruck blades appeared to contain more than 50 rings and therefore sampling of the cruck blades was untaken. Four core samples were taken on the 17th February 2025. The samples were assigned the site code 'BBCS' and numbered sequentially 1 to 4.

All four samples were confirmed as oak (*Quercus* spp). Two series containing less than 50 rings and so were rejected from further analysis. Samples BBCS03 and BBCS96 were measured to contain 83 and 96 rings respectively. These samples could not be cross-matched together and so the individual series were cross-matched against our extensive database of dated reference chronologies. Unfortunately, no consistent cross-matching could be achieved and therefore it has not been possible to date these timbers.

Yours sincerely



Dr Andy Moir
Tree-Ring Services



Photo 1: Front of barn



Photo 2: Rear of barn



**Photo 3: Sampled upper crucks
BBCS01 (right) and BBCS02 (left)**



**Photo 4: Sampled upper crucks
BBCS03 (right) and BBCS04 (left)**

References

Alcock, N W, Barnwell, P S, and Cherry, M, 2019 *Cruck Building: a survey*, Donington (Shaun Tyas)

Hillam, J, 1998 *Dendrochronology: Guidelines on producing and interpreting dendrochronological dates*, London (Historic England)