environmental business solutions

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Bat Roost Survey

Charlesworth Barn, Glossop

(Prepared by Environmental Business Solutions on Behalf of John McCall Architects Ltd)

June 2011

1. Introduction. Environmental Business Solutions have been requested to conduct a Bat Roost survey to ascertain the likely presence of any Bat species roosting within the Barn on agricultural land at Charlesworth, Glossop (drawing 6132/01 – 07072010).

2. Site Overview.

2.1 Barn. An old building of stone and brick construction with loose slate roofing, the building is in a severe state of disrepair and thought unsafe for thorough physical search.

2.2 Trees on site not suitable for bat roosts.

3. Methodology

3.1 3x Bat dusk and dawn surveys.

3.1.2 Dates. Thur 2nd June – Sun 5th June 2011.

3.1.3 Conditions. See Table 1.

3.1.4 Timings. Dusk Surveys 20:40 – 24.00hr (sunset 21:10), Dawn Surveys 02:45 – 05:10hr (sunrise 04:48)

3.1.5 Surveyors. Mr W Gaudie, BSc hons wildlife conservation, MIEEM. Natural England Licence No 20112113, Mr J Ashworth.

3.1.6 Area surveyed. Outside of building (see Fig 1 for positions of surveyors).

3.1.7 Method. As per; Bat Conservation Trust (2007). *Bat Surveys – Good Practice Guidelines.* **Bat Conservation Trust, London**. ISBN 976-1-872745-99-2.

3.1.8 Equipment. 2 x Ciel CDB 301 HD/FD bat detector, Garmin etrex GPS, Meteos Skywatch weather station, Yukon NVMT.2.3x42 night vision.

Table 1. Dawn / dusk weather conditions

Survey	Date	Min Temperature	Wind	Cloud Cover	Rain
Dusk	020611	12.0◦C	5m/s	50%	Light drizzle
Dawn	030611	11.5◦C	6m/s	15%	Nil
Dusk	030611	10.5◦C	10m/s	25%	Nil
Dawn	040611	9.0◦C	5m/s	10%	Nil
Dusk	040611	10.0◦C	0m/s	10%	Nil
Dawn	050611	9.0◦C	8m/s	40%	Light shower

4. Results

4.1 No evidence of bat presence was discovered in the building during restricted physical search.

4.2 3x Bat Dusk and Dawn Surveys. No bats were recorded entering or leaving any building. However 6 Pipistrelle (*Pipistrellus Pipistrellus*) were noted flying over open agricultural land nearby around dusk of the 4th June 2011 (they were not recorded returning, foraging or on other occasions).

5. Assessment.

5.1 Constraints. Due to building being unstable only ground area and approximately first 2m of internal wall spacing was physically searched.

5.2 Findings. Findings. It is not thought that bats are active in the building at present.

5.3 Potential impacts. Bat activity unlikely to be affected by the project at the present time.

5.4 Habitat suitability. The building is suitable to support bat roosts, therefore if the project is severely delayed then a revisit will be required.

6. Recommendations and Mitigation.

6.1 Further surveys. None at present (see 5.4 above).

6.2 Mitigation / Compensation. As the current building is deemed to be suitable for bat habitation, any new buildings on site should be sensitively designed. It is recommended that bat boxes are placed within the site.

6.3 Requirements for Habitat Regulations (EPS) licensing. Not required at present.

7. Summary. Due to the findings of the above surveys, it is thought that any proposed development is unlikely to have any effect on any bat populations at the present time. However, if any projects are to commence in the future then further surveying will be required with possible compensation and mitigation required.

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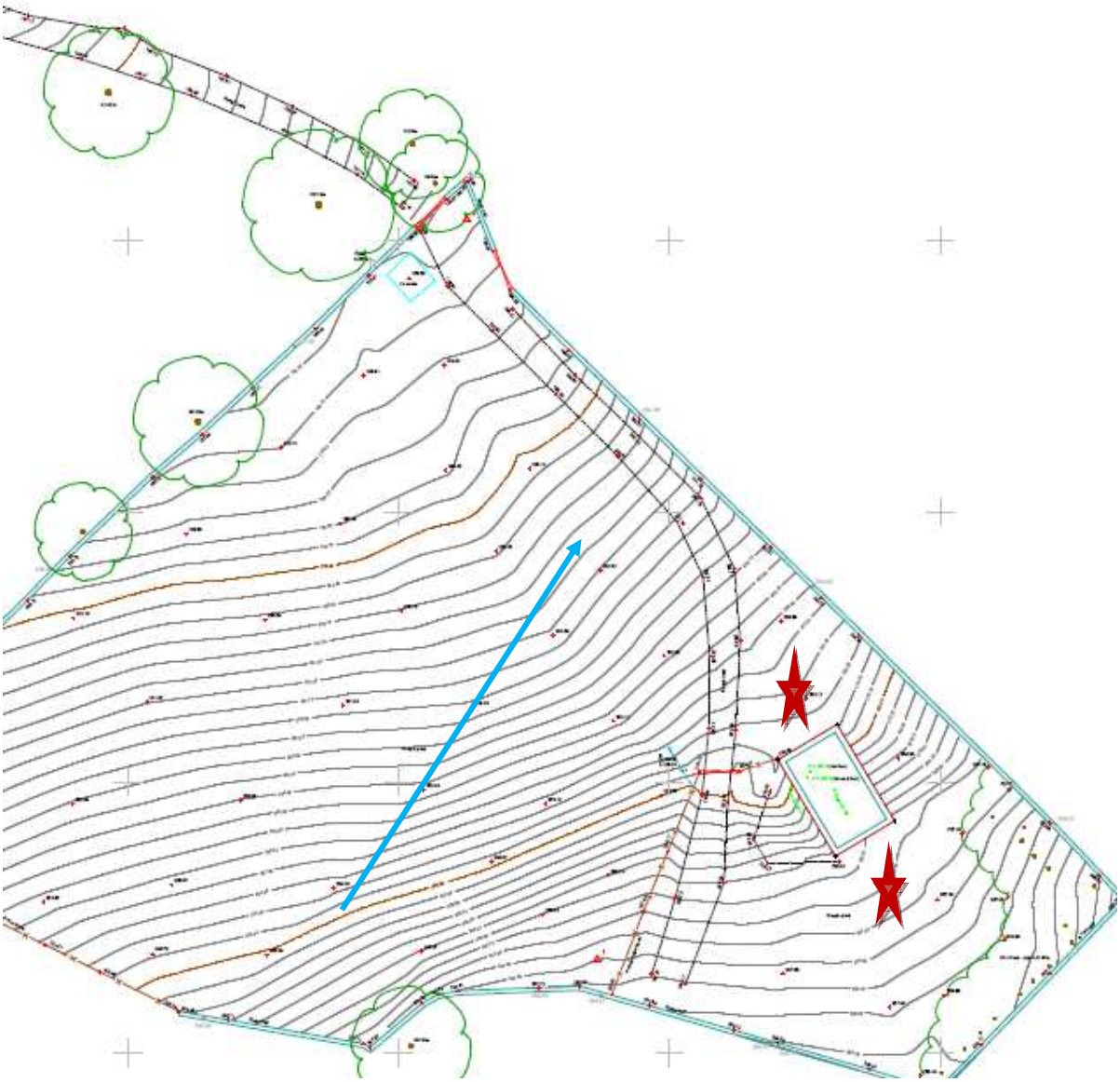


Fig 1. Positions of surveys during dawn / dusk surveys
Flight path of bats dusk 4th June 2011.