A bat assessment of Trim Market House Castle Street, Trim, Co. Meath, C15 TXA5.



By Donna Mullen M.P.P.M D.E.N.V.S. P

Brian Keeley BSc hons zool

Maio, Tierworker, Kells Co Meath

Date 20 August 2020

www.wildlifesurveys.net

Summary

Three species were recorded on site. The main species recorded was the common pipistrelle, with most activity occurring towards the rear of the site. No bats were seen entering or exiting the buildings.

Bat species found feeding and commuting on the site

Common pipistrelle -pipistrellus pipistrellus Soprano pipistrelle - pipistrellus pygmaeus Leisler's bat - nyctalus Leisleri

Recommendations

- (1) If bats are discovered at any stage of the development, building work must cease and myself and the wildlife ranger must be contacted.
- (2) A dark sky area must be designated at the rear of the site to provide commuting and feeding corridors, and light spillage and pollution must be kept to a minimum with the use of cowls, caps, and low-level bollard lighting where possible.

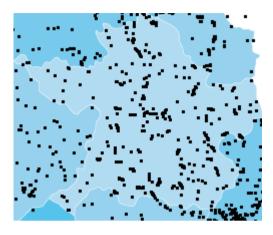
Lighting design will be in accordance with

<u>Bats and Lighting</u> – Guidance Notes for Planners, Engineers, Architects, and Developers (Bat Conservation Ireland, 2010).

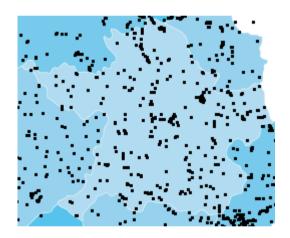
- <u>Bats and Lighting in the UK</u> Bats and the Built Environment Series (Institute of Lighting Professionals, September 2018).
- <u>Guidance Notes</u> for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011).
- (3) Two 2F and one 1FF Schwegler bat boxes with built-in timber panel bat boxes must be put in place. These should be placed on trees, walls, or posts, at least 3m high, with a clear drop below (as bats need to drop to start their flight). These can be purchased from www.nhbs.com They must be placed in a dark area.
- (4) If the modern or old boundary walls are repointed, they must first be checked for bat usage.

Desktop Survey of the existing environment

Thanks to Bat Conservation Ireland for their data. All data from this report will be placed on their database.



Common pipistrelle records for Meath



Soprano pipistrelle records for Meath



Leisler's bat records for Meath

Habitat Classification (Fossitt 2000)

GA2 (Amenity grassland)

WL2 (Treelines) semi- mature and mature trees

WL1 (hedgerow)

BL3 (buildings)

BL1 (Stone walls)

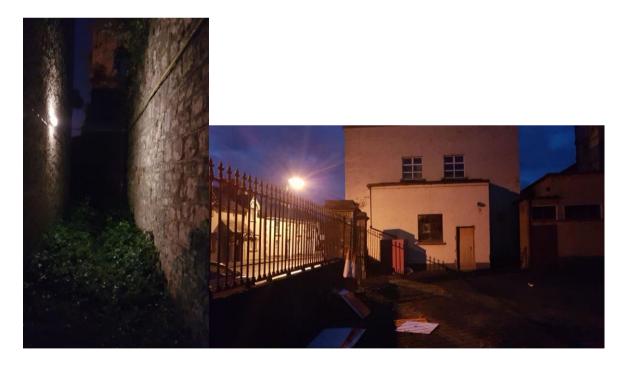
Date -20 August 2020

Sunrise - 6.18

Sunset - 20.45

Temperature and weather conditions – 16 degrees Celsius rain. Wind 19 kmph

Lux levels - 0 lux at 4am within the site. There is some light pollution to the front of the site and at the back wall.



Light pollution to the front and edge of the site

Proposed works – The project will involve refurbishment of the existing building, Trim Market House (protected structure) and some demolition work to later extensions to the rear. See Appendix 1

Complexity of land/building and ability to cover ground during surveys – The buildings were all accessible. The flat roof attic of the Market house is inaccessible. Most of the bingo hall roof was accessible.

Survey constraints

- (1) Mobility of bats Bat species are mobile and can move from roost to roost, depending on roost availability, feeding availability and weather conditions. They may move to other roosts which have not been identified in this report in order to hibernate or create mating or feeding perches. A bat survey is a snapshot of bat activity over the survey time.
- (2) Identification of bats- It can be difficult to differentiate myotis species. For this reason, the sound files are included within the report. Brown long eared bats are very quiet, and their presence can be overlooked in bat surveys as they may not register on bat detectors.

Methodology

Bat Survey - Equipment

Exide Lamps

Pletzl Tikka Head torch

Two EM3 time expansion detectors and kaleidoscope sound analysis software with GPS – handheld by 2 surveyors, Brian Keeley, and Donna Mullen

One Mini song meter, placed by the small shed at the back of the building overnight



Song meter mini detector placed here on windowsill overnight

Survey

The buildings and attics were checked for signs of bats. All the interior of the buildings were accessible. However some of the roof areas are concrete, and there are no roof spaces/trapdoors.





View of attics and spaces within the Market House, Bingo hall and small shed (burnt out)

Report

The survey commenced at 20.00 with an examination of the buildings. No signs of bats were found within the buildings. The wall at the rear of the site has several cracks and crevices which are suitable for bat usage.



Cracks and crevices within wall suitable for bat usage

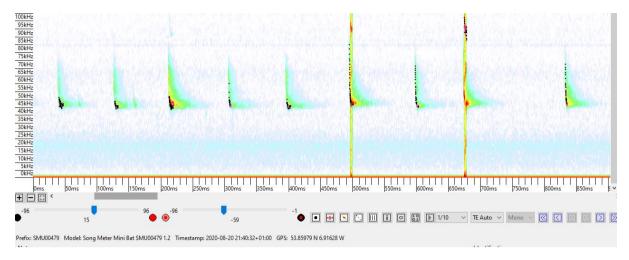
There is also a modern wall around the site which has cavities. This has a blue tit night perching within it. It is also suitable for bat usage.

Two surveyors were present. One recorded on site, while the second surveyor recorded around the outside of the site, checking the species in the area, by the river and around the castle. There was light to heavy rain throughout the night.

A common pipistrelle was recorded at 21.28, flying along the back wall at the rear of the site. It continued flying through the site for 5 minutes, then flew towards the castle.

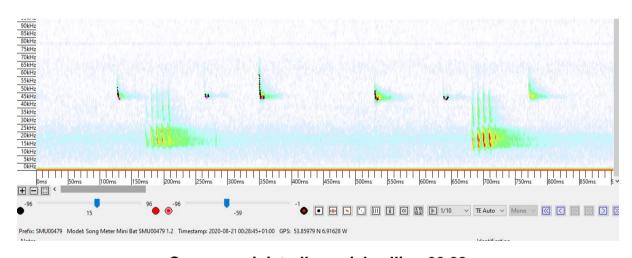
At 21.33 a soprano pipistrelle was recorded off the site at the moat.

A common pipistrelle was recorded at 21.40, at the back wall of the site.



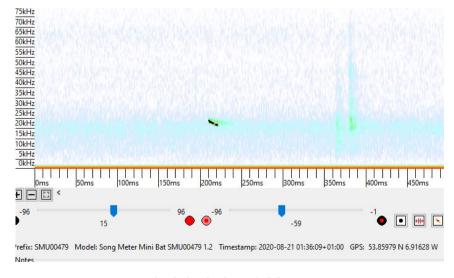
Common pipistrelle

It continued to feed along the back wall of the site until 21.51

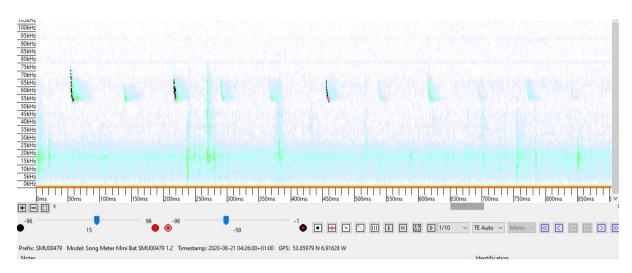


Common pipistrelle social calling 00.28

A Leisler's bat was recorded flying past the building at 1.36

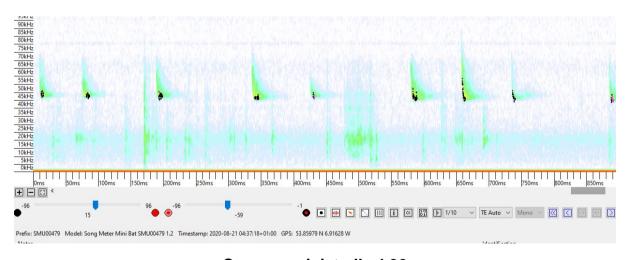


Leisler's bat 1.36am



Soprano pipistrelle at 4.26

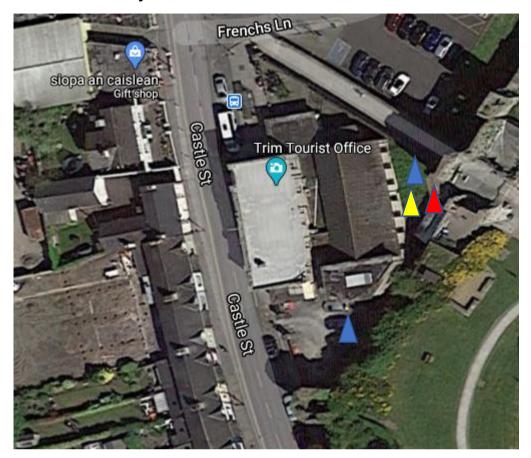
A common pipistrelle was recorded at 4.36



Common pipistrelle 4.36

At dawn there was heavy rain, with no bat activity on site.

Map of main bat activity on site



Blue triangle - Common pipistrelle

Red triangle- Leisler's bat

Yellow triangle- Soprano pipistrelle

Potential impact on roosts, flight paths and feeding areas

- (1) Roost loss Although no roosts were found on this occasion, there is the potential for roosts among the stonework and in the attic. Provision of bat boxes will lead to a long- term positive effect on individual bats.
- (2) Light pollution Lux levels at the rear of the site are 0 lux throughout the night. With mitigation, there is likely to be a long-term neutral effect on individual bats.

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Bat Biology

Female bats gather in groups known as maternity roosts in summer to have their young. They generally have one baby each year, so are slow to reproduce, and disturbance of a maternity roost can be catastrophic.

In winter bats move to old stonework, trees, and caves to hibernate. They are especially vulnerable here as they are slow to awaken, and if tree felling is carried out, they can easily be killed.

Legislation

Bats are protected under the 1996 Wildlife Act, the 2000 Wildlife (Amendment) Act, Stat 1st 94 of 1997, Stat 1st 378 of 2005, The Habitats Directive, The Bonn and Bern Convention, and the Euro bats agreement.

The European Community (Natural Habitats) Regulations S.I. No 94 of 1997 states:

- 23(1) The minister shall take the requisite measures to establish a system of strict protection for the fauna consisting of the animal species set out in Part 1 of the First Schedule prohibiting –
- a) All forms of deliberate capture or killing of specimens of those species in the wild.
- 1. The deterioration or destruction of breeding sites or resting places of those species.

The EU Habitats Directive

Article 12(1) of the 'Council Directive 92/43/EEC on the conservation of natural habitats and wild fauna and flora (Habitats Directive) states:

- "Member States shall take the requisite measures to establish a system of strict protection for the animal species listed in Annex IV(a) and their natural range, prohibiting:
- a) all forms of deliberate capture or killing of specimens of these species in the wild.
- b) deliberate disturbance of these species, particularly during the period of breeding, rearing, hibernation, and migration.
- c) deliberate destruction or taking of eggs from the wild.
- d. deterioration or destruction of breeding sites or resting places."

The EU Habitats Directive (92/43/EEC) lists all Irish bat species in Annex IV and one Irish species, the lesser horseshoe bat (Rhinolophus hipposideros), in Annex II. Annex II includes animal and plant species of community interest whose conservation requires the designation of Special Areas of Conservation (SACs) because they are endangered, rare, vulnerable, or endemic. Annex IV includes various species that require strict protection. Article 11 of the Habitats Directive requires member states to monitor all species listed in the Habitats Directive and Article 17 requires States to report to the EU on the findings of monitoring schemes.

The Bern and Bonn Conventions

Ireland is also a signatory to a number of conservation agreements pertaining to bats such as the Bern and Bonn Conventions. The European Bats Agreement (EUROBATS) is an agreement under the Bonn Convention. Ireland and the UK are two of the 31 signatories. The Agreement has an Action Plan with priorities for

implementation. Devising strategies for monitoring of populations of selected bat species in Europe is among the resolutions of EUROBATS.

1.3.1 The Berne Convention

Article 6 of the "Convention on the Conservation of European Wildlife and Natural Habitats' (Berne Convention) reads:

"Each Contracting Party shall take appropriate and necessary legislative and administrative measures to ensure the special protection of the wild fauna species specified in Appendix II. The following will in particular be prohibited for these species:

- a) all forms of deliberate capture and keeping and deliberate killing.
- b) the deliberate damage to or destruction of breeding or resting sites.
- c) the deliberate disturbance of wild fauna, particularly during the period of breeding, rearing and hibernation, insofar as disturbance would be significant in relation to the objectives of this Convention; ...

Appendix II lists strictly protected fauna species and this list includes "Microchiroptera, all species except Pipistrellus pipistrelles".

The EUROBATS Agreement

The 'Agreement on the Conservation of Populations of European Bats' (EUROBATS) was negotiated under the 'Convention for the Conservation of Migratory Wild Species' (Bonn Convention) and came into force in January 1994. The legal protection of bats and their habitats are given in Article III as fundamental obligations:

- "1. Each Party shall prohibit the deliberate capture, keeping or killing of bats except under permit from its competent authority
- 2. Each Party shall identify those sites within its own area of jurisdiction which are important for the conservation status, including for the shelter and protection, of bats. It shall, taking into account as necessary economic and social considerations, protect such sites from damage or disturbance. In addition, each Party shall endeavour to identify and protect important feeding areas for bats from damage or disturbance."

The Agreement covers all European bat species.

Contact Details: The phone number for Bat Conservation Ireland is 086 4049468. Their website is www.batconservationireland.org. I can be contacted at 087 7454233. My email is donnamullen@wildlifesurveys.net and web site is www.wildlifesurveys.net

Appendix 1 Plans for the Market house



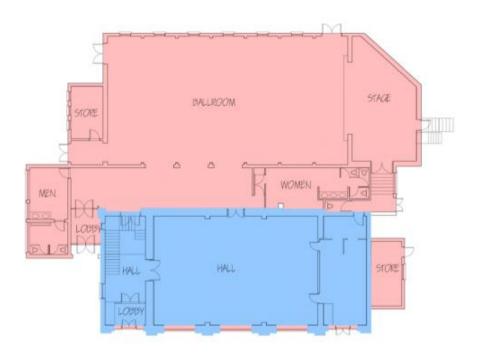


Image 3: Existing Ground Floor GA Plan; Red = Demolish, Blue = Refurbishment (Not to scale)



Image 4: Existing First Floor GA Plan; Blue = Refurbishment (Not to scale)

OPW Architectural Services - Intermediate Projects G.16.056 – Trim Visitor Centre

Appendix II

EM3 detector analysis –Recorded by Brian Keeley at the river and Trim castle

DATE	TIME	AUTO ID	PULSES	MANUAL ID
20/08/2020	21:31:45	PIPY	19	PIPY
20/08/2020	21:31:50	PIPY	13	PIPY
20/08/2020	21:31:55	PIPY	34	PIPY
20/08/2020	21:32:01	PIPY	39	PIPY
20/08/2020	21:32:06	PIPY	44	PIPY
20/08/2020	21:32:11	PIPY	16	PIPY
20/08/2020	21:32:36	PIPY	40	PIPY
20/08/2020	21:32:42	PIPY	33	PIPY
20/08/2020	21:32:47	PIPI	5	PIPI
20/08/2020	21:33:33	PIPY	39	PIPY
20/08/2020	21:33:38	PIPY	4	PIPY
20/08/2020	21:34:04	PIPY	42	PIPY
20/08/2020	21:34:09	PIPY	30	PIPY
20/08/2020	21:34:14	PIPY	10	PIPY
20/08/2020	21:34:30	PIPY	5	PIPY
20/08/2020	21:34:35	PIPY	4	PIPY
20/08/2020	21:34:40	PIPY	38	PIPY
20/08/2020	21:34:45	PIPY	30	PIPY
20/08/2020	21:34:50	PIPY	34	PIPY
20/08/2020	21:35:06	PIPY	31	PIPY
20/08/2020	21:35:11	PIPI	65	PIPI
20/08/2020	21:35:16	PIPI	25	PIPI
20/08/2020	21:35:21	PIPY	11	PIPY
20/08/2020	21:35:26	PIPY	14	PIPY
20/08/2020	21:35:31	PIPI	11	PIPI
20/08/2020	21:35:37	PIPI	14	PIPI
20/08/2020	21:35:42	PIPI	9	PIPI
20/08/2020	21:35:47	PIPY	14	PIPY
20/08/2020	21:35:52	PIPY	17	PIPY
20/08/2020	21:35:57	PIPY	30	PIPY
20/08/2020	21:36:02	PIPY	13	PIPY
20/08/2020	21:36:07	PIPY	6	PIPY
20/08/2020	21:36:18	PIPY	23	PIPY
20/08/2020	21:36:33	PIPI	12	PIPI

Appendix III

Mini Song meter bat detector analysis

	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANUAL II
1	SMU00479 20200820 205445 000.wav		NYCLEI	27	24	0.889000	Noise
2	SMU00479 20200820 205429 000.wav		NYCLEI	16	16	1.000000	Noise
3	SMU00479 20200821 060233 000.wav		NYCLEI	20	16	0.800000	Noise
4	SMU00479_20200821_013609_000.wav		NYCLEI	6	6	1.000000	NYCLEI
5	SMU00479_20200821_060305_000.wav		NYCLEI	6	3	0.500000	Noise
6	SMU00479_20200821_060956_000.wav		NYCLEI	2	2	1.000000	Noise
7	SMU00479_20200821_060313_000.wav		NYCLEI	4	2	0.500000	Noise
8	SMU00479_20200820_204432_000.wav		NoID	2	0	0.000000	Noise
9	SMU00479_20200820_204417_000.wav		NoID	4	0	0.000000	Noise
10	SMU00479_20200821_060127_000.wav		NoID	4	0	0.000000	Noise
11	SMU00479_20200821_060142_000.wav		NoID	2	0	0.000000	Noise
12	SMU00479_20200821_060158_000.wav		NoID	4	0	0.000000	Noise
13	SMU00479_20200821_060214_000.wav		NoID	3	0	0.000000	Noise
14	SMU00479_20200821_060250_000.wav		NoID	3	0	0.000000	Noise
15	SMU00479_20200821_060330_000.wav		NoID	3	0	0.000000	Noise
16	SMU00479_20200821_060401_000.wav		NoID	2	0	0.000000	Noise
17	SMU00479_20200820_204439_000.wav		Noise				Noise
18	SMU00479_20200820_204643_000.wav		Noise				Noise
19	SMU00479_20200820_204258_000.wav		Noise				Noise
20	SMU00479_20200820_204319_000.wav		Noise				Noise
21	SMU00479_20200820_204449_000.wav		Noise				Noise
22	SMU00479_20200820_204612_000.wav		Noise				Noise
23	SMU00479_20200820_204504_000.wav		Noise				
24	SMU00479_20200820_204232_000.wav		Noise				
25	SMU00479_20200820_205046_000.wav		Noise				
26	SMU00479_20200820_205224_000.wav		Noise				
27	SMU00479_20200820_204345_000.wav		Noise				
28	SMU00479_20200820_205239_000.wav		Noise				
29	SMU00479_20200820_205255_000.wav		Noise				
30	SMU00479_20200820_205311_000.wav		Noise				
31	SMU00479_20200820_205326_000.wav		Noise				
32	SMU00479_20200820_205342_000.wav		Noise				
33	SMU00479_20200820_205358_000.wav		Noise				
34	SMU00479_20200820_205414_000.wav		Noise				
35	SMU00479_20200820_205500_000.wav		Noise				
36	SMU00479_20200820_205531_000.wav		Noise				
37	SMU00479_20200820_205603_000.wav		Noise				
38	SMU00479_20200820_205637_000.wav		Noise				
39	SMU00479_20200820_205713_000.wav		Noise				
40	SMU00479_20200820_205841_000.wav		Noise				
41	SMU00479_20200820_210220_000.wav		Noise				
42	SMU00479_20200820_210006_000.wav		Noise				
43	SMU00479_20200820_210205_000.wav		Noise				
44	SMU00479_20200820_210230_000.wav		Noise				
45	SMU00479_20200820_210246_000.wav		Noise				
46	SMU00479 20200820 210301 000.wav		Noise				

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	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANUAL I
799	SMU00479_20200821_061306_000.wav		Noise				1
800	SMU00479_20200821_061423_000.wav		Noise				
801	SMU00479_20200821_061648_000.wav		Noise				
802	SMU00479_20200821_061348_000.wav		Noise				
803	SMU00479_20200821_061404_000.wav		Noise				
804	SMU00479_20200821_061452_000.wav		Noise				
805	SMU00479_20200821_043718_000.wav		PIPPIP	54	54	1.000000	PIPPIP
306	SMU00479_20200820_214016_000.wav		PIPPIP	52	51	0.981000	PIPPIP
807	SMU00479_20200821_003319_000.wav		PIPPIP	46	45	0.978000	PIPPIP
308	SMU00479_20200820_212313_000.wav		PIPPIP	34	34	1.000000	PIPPIP
809	SMU00479_20200820_214032_000.wav		PIPPIP	28	27	0.964000	PIPPIP
310	SMU00479_20200820_230639_000.wav		PIPPIP	25	24	0.960000	PIPPIP
311	SMU00479_20200820_214907_000.wav		PIPPIP	21	21	1.000000	PIPPIP
812	SMU00479_20200821_012656_000.wav		PIPPIP	21	21	1.000000	PIPPIP
313	SMU00479_20200821_011252_000.wav		PIPPIP	20	20	1.000000	PIPPIP
314	SMU00479_20200820_221620_000.wav		PIPPIP	19	19	1.000000	PIPPIP
315	SMU00479_20200821_002845_000.wav		PIPPIP	19	19	1.000000	PIPPIP
316	SMU00479_20200821_013145_000.wav		PIPPIP	19	19	1.000000	PIPPIP
317	SMU00479_20200821_015442_000.wav		PIPPIP	19	19	1.000000	PIPPIP
318	SMU00479_20200821_023905_000.wav		PIPPIP	18	18	1.000000	PIPPIP
319	SMU00479_20200821_030039_000.wav		PIPPIP	18	18	1.000000	PIPPIP
320	SMU00479_20200821_043733_000.wav		PIPPIP	17	17	1.000000	PIPPIP
321	SMU00479_20200821_013212_000.wav		PIPPIP	16	16	1.000000	PIPPIP
322	SMU00479_20200821_052650_000.wav		PIPPIP	16	16	1.000000	PIPPIP
323	SMU00479_20200821_003217_000.wav		PIPPIP	17	16	0.941000	PIPPIP
824	SMU00479_20200820_215000_000.wav		PIPPIP	15	15	1.000000	PIPPIP
325	SMU00479_20200820_212845_000.wav		PIPPIP	14	14	1.000000	PIPPIP
326	SMU00479_20200821_024100_000.wav		PIPPIP	14	14	1.000000	PIPPIP
327	SMU00479_20200821_030030_000.wav		PIPPIP	14	14	1.000000	PIPPIP
828	SMU00479_20200820_225244_000.wav		PIPPIP	16	13	0.813000	PIPPIP
329	SMU00479_20200821_020053_000.wav		PIPPIP	10	10	1.000000	PIPPIP
330	SMU00479_20200820_221643_000.wav		PIPPIP	13	10	0.769000	PIPPIP
331	SMU00479_20200821_013404_000.wav		PIPPIP	8	8	1.000000	
332	SMU00479_20200821_052635_000.wav		PIPPIP	8	8	1.000000	
333	SMU00479_20200821_052721_000.wav		PIPPIP	8	8	1.000000	
834	SMU00479_20200820_230611_000.wav		PIPPIP	7	7	1.000000	
335	SMU00479_20200821_030202_000.wav		PIPPIP	7	7	1.000000	
336	SMU00479_20200821_025334_000.wav		PIPPIP	8	7	0.875000	
337	SMU00479_20200820_225504_000.wav		PIPPIP	6	6	1.000000	
338	SMU00479_20200821_041532_000.wav		PIPPIP	6	6	1.000000	
339	SMU00479_20200820_230654_000.wav		PIPPIP	3	3	1.000000	
340	SMU00479_20200821_051214_000.wav		PIPPIP	3	3	1.000000	
341	SMU00479_20200821_003000_000.wav		PIPPIP	2	2	1.000000	
842	SMU00479_20200821_025338_000.wav		PIPPIP	3	2	0.667000	
343	SMU00479_20200821_042600_000.wav		PIPPYG	13	9	0.692000	PIPPYG
844	SMU00479_20200820_231810_000.wav		PIPPYG	2	2	1,000000	DIDDVG

Appendix IV

Hand held EM3 Bat detector – Donna Mullen, recorded within the site

	OUT FILE FS	OUT FILE ZC	AUTO ID	PULSES	MATCHING	MATCH RATIO	MANUAL ID
488	EM320200821_060651_000.wav		Noise				
489	EM320200821_060332_000.wav		Noise				
490	EM320200821_060722_000.wav		Noise				
491	EM320200821_060402_000.wav		Noise				
492	EM320200821_060752_000.wav		Noise				
493	EM3 20200821 060823 000.wav		Noise				
494	EM320200821_060503_000.wav		Noise				
495	EM320200821_060854_000.wav		Noise				
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523	EM320200820_214203_000.wav		PIPPIP	27	26	0.963000	
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527	EM320200820_212831_000.wav		PIPPIP	8	8	1.000000	
528	EM320200821_052833_000.wav		PIPPIP	8	8		
529	EM320200820_214218_000.wav		PIPPIP	7	7	1.000000	
530	EM320200820_215145_000.wav		PIPPIP	6	6	1.000000	
531	EM320200820_213033_000.wav		PIPPIP	4	4	1.000000	
532 533	EM320200820_213914_000.wav EM320200820_213930_000.wav		PIPPIP	4	4	1.000000	