

Ascerta

Landscape, Arboricultural & Ecological Solutions
for the Built Environment

Bat Nocturnal Surveys

Former Mondi Site
(Site 1), Holcombe Mill,
Bridge Street,
Ramsbottom, BL0 0BS

Ref: P.1202.19

September 2020

(see revision dates below)

Rev	Date	Details

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P.1202.19

Bat Nocturnal Surveys

Of

Former Mondi Site (Site 1), Holcombe Mill, Bridge Street, Ramsbottom, BL0 0BS

For

Eccleston Homes Ltd

8 September 2020

Field Work by	Tosha Allen BSc (Hons) ACIEEM, Liz Kenyon BSc (Hons) Qual CIEEM, Robert Armitage, Ciaran Power, Felix Mdamu, Lizzie Atkinson, Joe Taylor BSc (Hons), Joe Goode, Alex Jones, Toby Ridehaugh, Marianna Spzunar, Lauren Hadfield and Rachel Platt.
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EXECUTIVE SUMMARY

Nocturnal bat surveys have been carried out on Building B3 at Former Mondi Site (Site 1), Holcombe Mill, Bridge Street, Ramsbottom, BL0 0BS on 4th May 2020 and 27th May 2020 by Tosha Allen ACIEEM, Liz Kenyon Qual CIEEM, Robert Armitage, Ciaran Power, Felix Mdamu and Lizzie Atkinson. The surveys were undertaken to determine if bats were using building B3 as a roost.

Nocturnal surveys were also carried out on buildings B1 and B2 on the 27th July 2020 by Liz Kenyon, Lizzie Atkinson, Felix Mdamu, Joe Taylor and Joe Goode, and on the 3rd September 2020 by Liz Kenyon, Lizzie Atkinson, Rachel Hadfield, Alex Jones and Marianna Spzunar. On the 20th August buildings B1, B2 and the chimney were surveyed for bats by Liz Kenyon, Lizzie Atkinson, Joe Taylor, Toby Ridehalgh, Alex Jones, Rachel Platt and Lauren Hadfield

Bat surveys are conducted in accordance with the Bat Surveys for Professional Ecologists - Good Practice Guidelines, published 2016 (the Guidelines). Strict adherence to these is not necessary, but where practice deviates from them, clear reasons and rationale are required.

Very low -low bat activity was recorded throughout the surveys at building B3 with only common pipistrelle bats identified within the site. No bats were recorded emerging or re-entering building B3 during the surveys and therefore considered to not be using the building as a roost at the time of the surveys.

During the nocturnal surveys at buildings B1, B2 and the chimney, low levels of bat activity were recorded within the site, with foraging activity concentrated over the areas of scrub adjacent to the buildings and the tree line to the western site boundary. On the 27th July 2020 common pipistrelle bats were recorded emerging from buildings B1 and B2.

On the 20th August 2020, three common pipistrelle bat were recorded re-entering building B1, four common pipistrelle bats were recorded emerging from the building on the 3rd September 2020. Only common pipistrelle bats were identified during the surveys at buildings B1,B2 and the chimney.

The buildings provide opportunities for nesting birds with wood pigeon identified roosting within the building during the surveys.

If the recommendations below are followed these species will not be adversely affected by the proposals:

- An application to Natural England will need to be made with regards to acquiring a European Protected Species licence in order that the bat roost can be destroyed in the appropriate manner at buildings B1 and B2;
- If works have not begun by June 2021, a further daytime assessment or nocturnal survey may be required to confirm bats are not using the buildings B1, B2, B3 and the chimney as a roost;
- Building works should not be undertaken during the bird breeding season (between 1 March and 31 August) or a nesting bird check will be required by a suitably experienced ecologist; and
- Enhancing the site for species through appropriate landscape planting that includes native, species rich hedgerows, trees and areas of wildflowers plus provision of integrated bat and bird features within newly constructed buildings.

1.0 Introduction

Ascerta has been instructed by Eccleston Homes Ltd to carry out Bat Nocturnal Surveys on one building (B3) at land at Former Mondi Site (Site 1), Holcombe Mill, Bridge Street, Ramsbottom, BL0 OBS (hereafter referred to as the site). The site OS grid reference is SD 793 616.

The site was visited on 17th February 2020 by Tosha Allen BSc (Hons) ACIEEM and Liz Kenyon BSc (Hons) Qual CIEEM suitably experienced ecologists when an external inspection of three building and a chimney was undertaken. During the inspection, the buildings were assessed for their potential to support a bat roost and where classified as follows:

- Building B1 - **Low** bat roost potential
- Building B2 - **Moderate** bat roost potential
- Building B3 – **Moderate** bat roost potential
- Chimney - **Low** bat roost potential

Building B3 will be lost to accommodate the site proposals and building B1, B2 and the chimney will be retained within this planning application. The external building inspection is detailed within the *Ascerta (2020) Bat Roost Assessment, Former Mondi Site (Site 1)* report which should be read in conjunction with this report.

The site was visited on 4th May 2020 by Tosha Allen, Liz Kenyon, Robert Armitage and Ciaran Power when a bat emergence survey was undertaken on Building B3.

The site was visited on 27th May 2020 by Tosha Allen, Liz Kenyon Felix Mdamu and Lizzie Atkinson when a bat re-entry survey was undertaken on Building B3.

The site was visited on the 27th July 2020 by Liz Kenyon, Felix Mdamu, Lizzie Atkinson, Joe Goode and Joe Taylor when a bat emergence survey at buildings B1 and B2 was undertaken. During the surveys, common pipistrelle bats were recorded emerging from both buildings. Following the bat emergences from the buildings, the bat roost potential was increased to **High** from **Moderate** and therefore two further surveys were required at the buildings.

The site was visited on the 20th August 2020 by Liz Kenyon, Lizzie Atkinson, Joe Taylor, Toby Ridehalgh, Alex Jones, Lauren Hadfield and Rachel Platt when a dawn re-entry survey was undertaken at buildings B1, B2 and the chimney.

The site was visited on the 3rd September 2020 by Liz Kenyon, Lizzie Atkinson, Marianna Szpunar, Alex Jones and Lauren Hadfield when a dusk emergence survey was undertaken at buildings B1 and B2.

All bat surveys were undertaken following the guidelines set out by the Bat Conservation Trust (Collins 3rd Edition 2016). The report was prepared following methods detailed in the CIEEM '*Guidelines for Ecological Impact Assessment in the UK and Ireland*' (2018) and '*Guidelines for Ecological Report Writing*' (2017). This report presents the results of the nocturnal bat surveys. The report includes recommendations for further actions where applicable in order to satisfy current wildlife legislation and to achieve our client's objectives. Relevant legislation is detailed within Appendix 2.

The site contains a former mill and associated buildings. Habitats present within the site include dense scrubs, broad leaved scattered trees, scattered scrub, tall ruderal, semi natural broadleaved woodland, introduced scrub and a water course. These habitats are presented on plan P.1202.19.03 (*Appendix 1*).

The site lies adjacent to the local high street where shops and industrial mills lie to the north and west. The railway line borders the site to the west. The river Irwell meanders around the site

2.0 Objectives

Our client's objectives are to ascertain the potential ecological constraints and opportunities of the site to inform potential future development of 60 residential buildings.

Our objectives are as follows:

- Carry out nocturnal bat surveys of buildings B1, B2, B3 and the chimney within the site;
- Provide recommendations for mitigation measures where current legislation requires;
- Provide recommendations that seek to enhance the ecological value of the site; and
- Provide recommendations to assist our clients in achieving their objectives whilst satisfying current wildlife legislation.

3.0 Survey Methods

The Preliminary Ecological Appraisal involved the collection and review of data from a desk study and field survey along with assessment of the value of the habitats following CIEEM guidelines.

3.1 Desk Study

The local biological records centre Greater Manchester Ecology Unit was consulted for records of bats within 2km of the site in July 2019. A review of the designated sites and habitats within 2km of the site has been undertaken using the Multi-Agency Geographic Information for the Countryside (MAGIC) and the Natural England websites. Only findings relating to bats are detailed in this report. The full results are given in P.1202.19 *Ascerta preliminary Ecological Appraisal, Former Mondi Site, Feb 2020*.

3.2 Bat Emergence/Re-entry Survey Methods

Following the findings of the daytime inspection, a dusk emergence surveys were carried out on the 4th May 2020, 27th July 2020 and 3rd September 2020. Dawn re-entry surveys were carried out on the on the 27th May 2020 and 20th August 2020. The dusk emergence survey commenced 15 minutes before sunset and continued until 1 hour and 30 minutes after sunset. The dawn re-entry survey commenced 1 hour and 30 minutes before dawn and continued until dawn.

During the survey, the surveyors were strategically positioned around the building, focusing on areas where potential access points had been identified during the building inspection to observe any bats leaving or entering a roost. Surveyors also recorded general bat activity whilst on the site during the survey. Surveyor locations and observed bat passes are marked on drawings P.1202.19.09, P.1202.19.10, P.1202.19.13, P.202.19.14 and P.1202.19.15 in Appendix 1. Bat survey tables are displayed in Appendix 3. The time, the location and where possible, the direction of flight, species and behaviour of bats (i.e. commuting, foraging, social calling) are detailed within the report.

Over the course of the surveys the surveyors were equipped with Peersonic RPA3 detectors. The weather conditions during the surveys are detailed within table 3.1 below.

Table 3.1: Weather conditions

Date	Temperature (°C)	Cloud cover (°/8)	Wind (Beaufort Scale)	Precipitation
4 th May 2020 (start of the survey)	11	0/8	F3	Dry
4 th May 2020 (end of the survey)	8	0/8	F3	Dry
27 th May 2020 (start of the survey)	7	1/8	F1	Dry
27 th May 2020 (end of the survey)	7	0/8	F2	Dry
27 th July 2020 (start of the survey)	13	3/8	F1	Dry
27 th July 2020 (end of the survey)	12	3/8	F0	Dry
20 th August 2020 (start of the survey)	17	1/8	F2	Dry
20 th August 2020 (end of the survey)	15	0/8	F1	Dry
3 rd September 2020 (start of the survey)	15	1/8	F0	Dry
3 rd September 2020 (end of the survey)	14	1/8	F0	Dry

During the survey, the following details were noted:

- Weather and temperature;
- Time bat detected / seen and if they emerged from or entered the building;
- Frequency at which the bat was detected;
- Location of bats and if they were foraging and commuting;
- Direction of flight; and
- Number and species of bats present

3.3 Limitations

Due to safety concerns, access to the internal areas of the buildings was not possible during the building inspection undertaken in February 2020, however the buildings could be fully examined externally with the aid of close focusing binoculars. Due to health and safety reasons Heras fencing was present around the buildings, small gaps under roof slates and between brickwork could not be fully examined for the presence of bats during the daytime survey.

During the nocturnal bat surveys, surveyors were strategically positioned around the building in order to monitor all access features identified during the building inspection undertaken in February 2020 therefore not considered to limit the conclusions of this report. The surveys were undertaken during the appropriate time of year and within suitable weather conditions.

4.0 Survey Results

4.1 Desk Study

The biological record search returned multiple records of bat signs and roosts were returned within 2km of the site. Species included bat sp., common pipistrelle, Daubenton's bat, Nathusius's pipistrelle, noctule bat, pipistrelle sp., soprano pipistrelle and whiskered / Brandt's bat. No records of bats within the site were returned.

The closest record was for a pipistrelle sp. signs approximately 45m southwest of the site

The closest roost to the site is a pipistrelle sp., roost and is located 300m north east.

Two European Protected Species Licence (EPSL) applications within 2km of the site since 2014 were identified using Magic Maps. These include:

- A license to allow for the damage of a resting place and destruction of a resting place for common pipistrelle and soprano pipistrelle (2014-5187-EPS-MIT) approximately 630m south west of the site; and
- A license to allow for impact on a breeding site, damage of a breeding site, damage of a resting place, destruction of a breeding site, and destruction of a resting place for common pipistrelle (2017-29122-EPS-MIT) approximately 1.2km north of site

4.2 Bat Emergence/re-entry surveys

During the nocturnal surveys undertaken at building B3, the timings of the survey are detailed below in table 4.1.

Table 4.1: Survey Timings

Date	Dusk/Dawn Time	Survey Start Time	Survey End Time
4 th May 2020	20:46	20:31	22:16
27 th May 2020	04:52	03:22	04:52
27 th July 2020	21:14	20:56	22:44
20 th August 2020	05:56	04:23	05:56
3 rd September 2020	19:53	19:35	21:23

On 4th May 2020, bat activity commenced at 21:00 (14 minutes after dusk). This bat observation was a common pipistrelle passing from north west to east between Building B2 and the chimney. This bat was observed by Tosha Allen who was positioned at the north west corner of building B3. This bat was heard and not seen by Robert Armitage (positioned at north east corner of B3) and Ciaran Power (positioned at south east corner of B3). Liz Kenyon was positioned at the south west corner of B3 observed a bat pass east to west of the chimney (seen not heard) at 21:02. This bat was also observed by Tosha Allen which was a foraging common pipistrelle, this bat was observed foraging over the scrub adjacent to B2. The bat activity stopped at 22:13 with a distant common pipistrelle pass.

Very low bat activity was recorded at the south east corner of the building with only three common pipistrelle passes and commuting was recorded.

Low bat activity was recorded at the north east corner of the building with seven common pipistrelle bats observed. Foraging activity was recorded, and bats were also heard and not seen by the surveyor.

Low bat activity was recorded at the north west corner of B3 with fourteen bat observations recorded. Behaviour included foraging over the scrub and watercourse behind the surveyor location and bat passes were observed. Towards the end of the survey between 21:28 and 22:13 distant common pipistrelle bats were recorded.

Low bat activity was recorded at the south west corner of B3 with thirteen common pipistrelles recorded. Behaviour identified during the survey at this location were of foraging and commuting bats.

All bats recorded by the surveyors during the emergence survey were common pipistrelle bats, no other species of bats were recorded.

During the re-entry survey undertaken on 27th May 2020 bat activity was recorded at the start of the survey at 03:22 (1 hour 30 mins prior to sunrise). Very low bat activity was recorded throughout the survey at all surveyor locations. The most bat passes (six common pipistrelle) recorded were recorded at the north west corner of building B3. All bats recorded throughout the survey were common pipistrelle bats. The majority of bats recorded were distant passes with the occasional commuting and foraging however, all bats were heard and not seen throughout the survey. Bat activity ceased at 03:55 (57 minutes prior to sunrise).

No bats were seen to re-enter the building B3 during the dawn re-entry survey.

On the 27th July 2020 bat activity commenced at 21:19 (15 minutes after sunset) with a common pipistrelle pass from the south of the site. The bat was recorded by surveyor Joe Goode who was positioned at the south eastern elevation of B2, the bat was heard but not seen. A common pipistrelle bat was recorded emerging from the eastern elevation of B2 at 21:30 (16 minutes after sunset at the same surveyor location. Intermittent common pipistrelle was recorded by surveyor Joe Goode throughout the survey, activity stopped at this location at 22:34.

Activity commenced at surveyor Felix Mdamu, located at the western elevation of B2 at 21:32 (18 minutes after sunset). Constant common pipistrelle foraging activity was recorded until 22:45. Two commuting common pipistrelle bats were also recorded; all activity was heard but not seen.

Surveyor Joe Taylor located to the north western elevation of B1 recorded a commuting common pipistrelle at 21:32 (18 minutes after sunset). The bat recorded flying south east to north west over the building. At 21:34 (20 minutes after sunset) an unidentified pipistrelle bat was recorded emerging from a window on the western elevation of B1 and commuting south across the site, a second commuting common pipistrelle was also recorded at the same time. The bat was also recorded by surveyor Lizzie Atkinson. Overhead foraging continued throughout the survey at surveyor location Joe Taylor and activity ceased at 22:02

Common pipistrelle foraging activity was recorded throughout the survey period at surveyor Lizzie Atkinson, located to the western elevation of B2. The majority of the activity was within the scrub areas of the site adjacent to the buildings with a single foraging common pipistrelle between B1 and B2. Activity ceased at this location at 22:36.

Surveyor Liz Kenyon positioned at the eastern elevation of B1 recorded constant common pipistrelle activity between 21:43 (29 minutes after sunset) until 22:17.

A brief forage was recorded at 21:37 (23 minutes after sunset), the common pipistrelle bat was heard but not seen. Activity ceased for the survey with a commuting common pipistrelle at surveyor Liz Kenyon at 22:41.

On the 20th August 2020 activity commenced at surveyor Joe Taylor, located to the north western elevation of B1 at 04:26 (1 hour 30 minutes before sunrise) with a foraging common pipistrelle, the bat was heard but not seen. Common pipistrelle social calls and foraging were recorded between 04:33 and 04:48. A common pipistrelle bat was recorded re-entering building B1 at 05:13. The bat re-entered the building through a first-floor window on the western elevation.

Surveyor Alex Jones located to the western elevation of B2 recorded common pipistrelle foraging between 04:28 (1 hour 28 minutes) before sunrise, foraging activity ceased at this location at 05:31. Social calls were also recorded at 05:10.

Surveyor Liz Kenyon located to the eastern elevation of B1 recorded a very low level of activity throughout the survey with a common pipistrelle pass at 04:34 (1 hour 22 minutes before sunrise). Two foraging common pipistrelles were recorded at 04:47 and 05:09 and two commuting common pipistrelles at 05:21 and 05:25, the bats were heard but not seen.

Surveyor Lauren Hadfield located to the south eastern elevation of the chimney recorded continuous common pipistrelle foraging activity from 04:43 (1 hour 23 minutes before sunrise) until 05:23. Surveyor Rachel Platt was located to the north western elevation of the chimney and also recorded common pipistrelle foraging activity between 04:47 (1 hour 19 minutes before sunrise) until 05:22

Toby Ridehalgh located to the southern elevation of B1 recorded common pipistrelle activity between 04:46 (1 hour 10 minutes before sunrise) until 05:11. Two common pipistrelle bats were recorded to re-enter B1 at the southern gable end at 05:17 and 05:28.

Surveyor Lizzie Atkinson located to the western elevation recorded very low levels of common pipistrelle activity with occasional foraging between 04:47 (1 hour 19 minutes before sunrise) until 05:21.

On the 3rd August 2020 activity commenced at 20:06 (13 minutes after sunset) with surveyor Liz Kenyon, located to the eastern elevation of B1 recording a common pipistrelle pass. Surveyor Alex Jones located to the western elevation of B2 recorded common pipistrelle foraging activity. Alex Jones recorded constant common pipistrelle activity throughout the survey until 21:22. The foraging activity was concentrated to the treeline to the eastern site boundary. Occasional social calls were also recorded.

Liz Kenyon recorded low levels of commuting and foraging activity. A single common pipistrelle constantly foraged between buildings B1 and B2 between 20:20 and 21:12. A commuting common pipistrelle was also recorded flying east to west between the buildings.

Lauren Hadfield located to the western elevation of B2 recorded constant common pipistrelle activity around the building between 20:17 (24 minutes after sunset) until the end of the survey.

Surveyor Lizzie Atkinson located to the western elevation of B1 recorded a common pipistrelle emergence from a first-floor window at 20:09 (18 minutes after sunset). Commuting common pipistrelle bats were recorded across the western elevation of the building. Constant foraging activity was also recorded throughout the survey period with intermittent social calls.

Surveyor Marianna Szpunar located to the southern elevation of B1 recorded two commuting common pipistrelles at 20:07 (14 minutes after sunset) and 20:10, both bats flew north to south over the building. Constant common pipistrelle foraging activity was recorded between 20:31 and 21:20. Three common pipistrelle bats emerged from the southern gable of the building between 20:27 and 20:30.

5.0 Evaluation and Recommendations

Based on the results of the daytime survey, building B1 and the chimney were evaluated as having **low** bat roost potential, buildings B2 and B3 were evaluated as having **moderate** bat roost potential and the habitats on the site as having **high** value for bats. Following the first night-time survey at buildings B1 and B2, it was confirmed that the buildings were being used by roosting bats and the evaluation was increased to **high** bat roost potential. The night-time surveys confirmed that the building B3 and the chimney are not being used as a roost by bats at the time of the survey.

The site is considered to be of **low** value for bats, as a small number of bats used the site for foraging or commuting. The activity was mainly concentrated over the scrub habitat and the treeline to the western site boundary. As such, works to building B3 and the chimney can proceed without being detrimental to maintenance of the local bat population at a favourable conservation status (i.e. the proposals meet the third test of the 'three test assessment' as outlined in the Habitats Regulations). Buildings B1 and B2 will require an application to Natural England with regards to acquiring a European Protected Species licence in order that the bat roost(s) can be destroyed in the appropriate manner.

Features on the buildings still have a potential for supporting bat roosts and bats are known to move roosts often. If works have not begun by July 2021, a further daytime assessment or nocturnal may be required to confirm if bats are roosting within B1, B2, B3 and the chimney. If a bat roost is identified on the site and is likely to be affected by the development, an application to Natural England will need to be made with regards to acquiring a European Protected Species licence in order that the bat roost can be destroyed in the appropriate manner.

The building provides bird nesting opportunities and mitigation will be required to ensure no net loss of nesting habitat following development. Breeding birds are protected and should not be disturbed during building works. In order to avoid harm to nesting birds, building works should not be undertaken during the bird breeding season (between 1 March and 31 August). If building works need to be undertaken during this period a nesting bird survey will be required, conducted by a suitably qualified ecologist, before works begin. If any active nests are observed during the survey, exclusion zones will be set up and works will not occur in these areas until nesting is complete.

6.0 Enhancements

In order to meet requirements for biodiversity protection and enhancement outlined within the NPPF, it is recommended that ecological enhancements are included. These could include:

1. Provision of one bird boxes (25mm and 32mm entrance hole box, house sparrow terrace, swift box), attached to or integrated within retained or new buildings on site;
2. Provision of one bat features (e.g. Vivara Pro WoodStone Bat box or similar) attached to a retained or new tree on site or provision of a bat box (e.g. Vivara bat bricks or '*bird brick houses*' bat boxes) integrated within new or retained buildings; and
3. Suitable landscaping incorporating species that provide a food or shelter resource to wildlife to include hawthorn, hazel, holly, blackthorn, field maple, dog rose and honeysuckle as hedgerow species and oak, alder, silver birch, crab apple, rowan and bird cherry as tree species together with implementing a relaxed mowing regime and establishing wildflowers in these areas.

7.0 Conclusions

Building B3 was subject to two nocturnal bat surveys following the Preliminary bat roost assessment of the building which classified the building as having Moderate bat roost potential. Very low- low bat activity was recorded during the bat surveys and no bats were seen to emerge or re-enter the building. Therefore, it is considered that bats are not using the building as a roost at the time of the surveys.

The building provides opportunities for nesting birds. Wood pigeon were identified using the building during the nocturnal surveys.

The following recommendations have been made to avoid impact on bats and birds during the works:

- An application to Natural England will need to be made with regards to acquiring a European Protected Species licence in order that the bat roost can be destroyed in the appropriate manner at buildings B1 and B2;
- If works have not begun by June 2021, a further daytime assessment or nocturnal survey may be required to confirm bats are not using the buildings B1, B2, B3 and the chimney as a roost;
- Building works should not be undertaken during the bird breeding season (between 1 March and 31 August) or a nesting bird check will be required by a suitably experienced ecologist; and
- Enhancing the site for species through appropriate landscape planting that includes native, species rich hedgerows, trees and areas of wildflowers plus provision of integrated bat and bird features within newly constructed buildings.

It is considered that there would be very limited impact on the local ecology as a result of the proposals, provided the recommendations detailed within section 5.0 above are followed.

8.0 References

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Multi Agency Geographic Information for the Countryside (MAGIC) [online]

Appendix 1



- KEY
- bat flight lines
04-05-20
 - surveyor location
and viewpoints
 - access points
 - buildings

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CLIENT: Eccleston Homes Ltd		
PROJECT: Former Mondi Site, (Site1) Holcombe Mill, Ramsbottom		
DRAWING TITLE: Nocturnal Bat Survey (Dusk Emergence) - 04/05/20		
SCALE: 1:250@A3	DRAWN BY: CP	DRAWING No: P.1202.19.10
DATE: 04/05/2020	CHKD BY: TA	REV: -



KEY

 Surveyor location and viewpoint

 access points

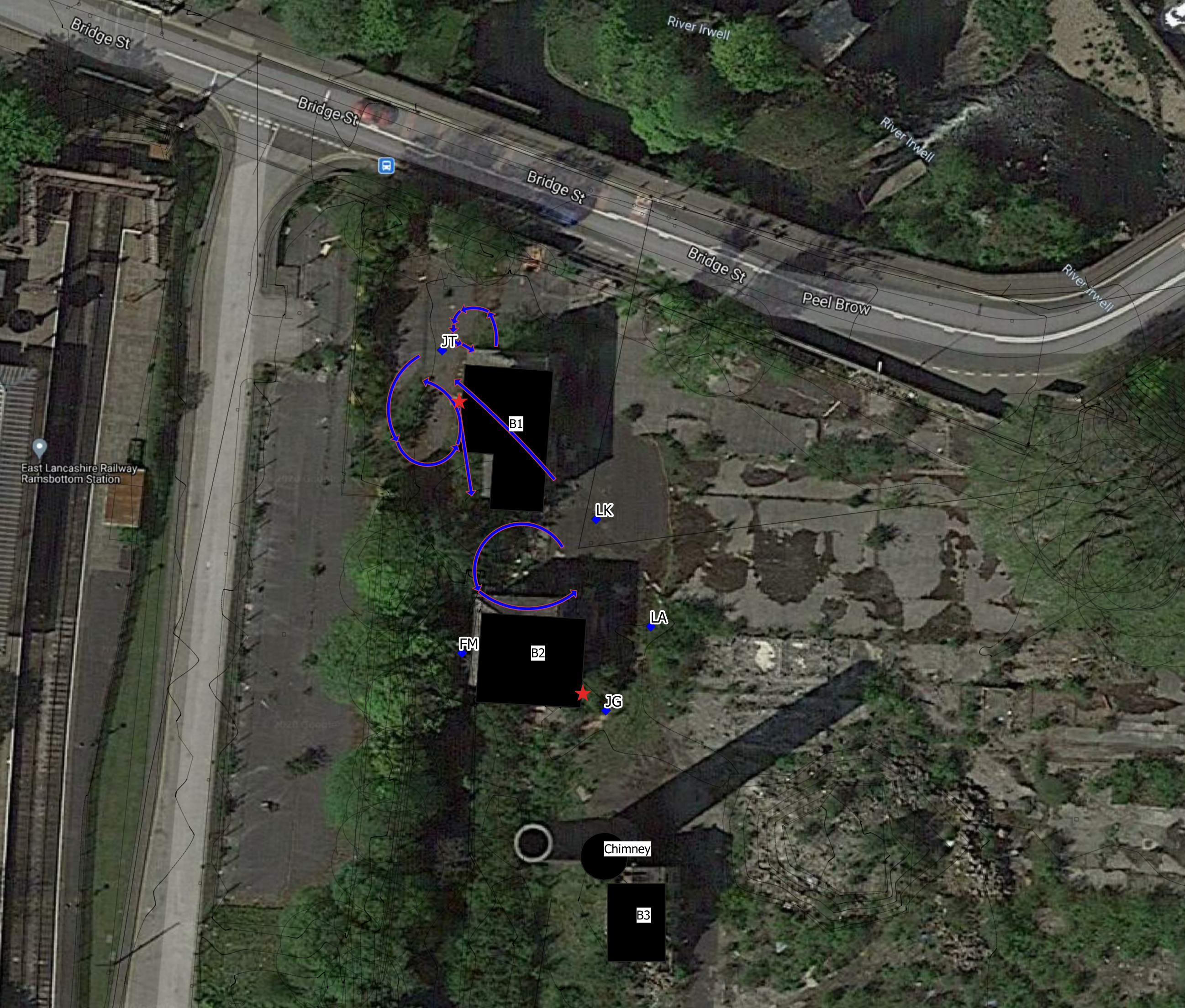
 buildings



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CLIENT: Eccleston Homes Ltd		
PROJECT: Former Mondi Site, (Site1) Holcombe Mill, Ramsbottom		
DRAWING TITLE: Nocturnal Bat Survey (Dawn Re-entry) 27-05-20		
SCALE: 1:250@A3	DRAWN BY: CP	DRAWING No: P.1202.19.10
DATE: 27/05/2020	CHKD BY: TA	REV: -



KEY

- ★ Emergence point
- ➡ Bat flight lines 27-07-20
- ◆ Surveyor locations 27-07-20
- buildings

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CLIENT:

Eccleston Homes

PROJECT:

Former Mondi Site

DRAWING TITLE:

Bat emergence Survey

SCALE:

NTS@A3

DRAWN BY:

LK

DRAWING No:

P.1202.19.13

DATE:

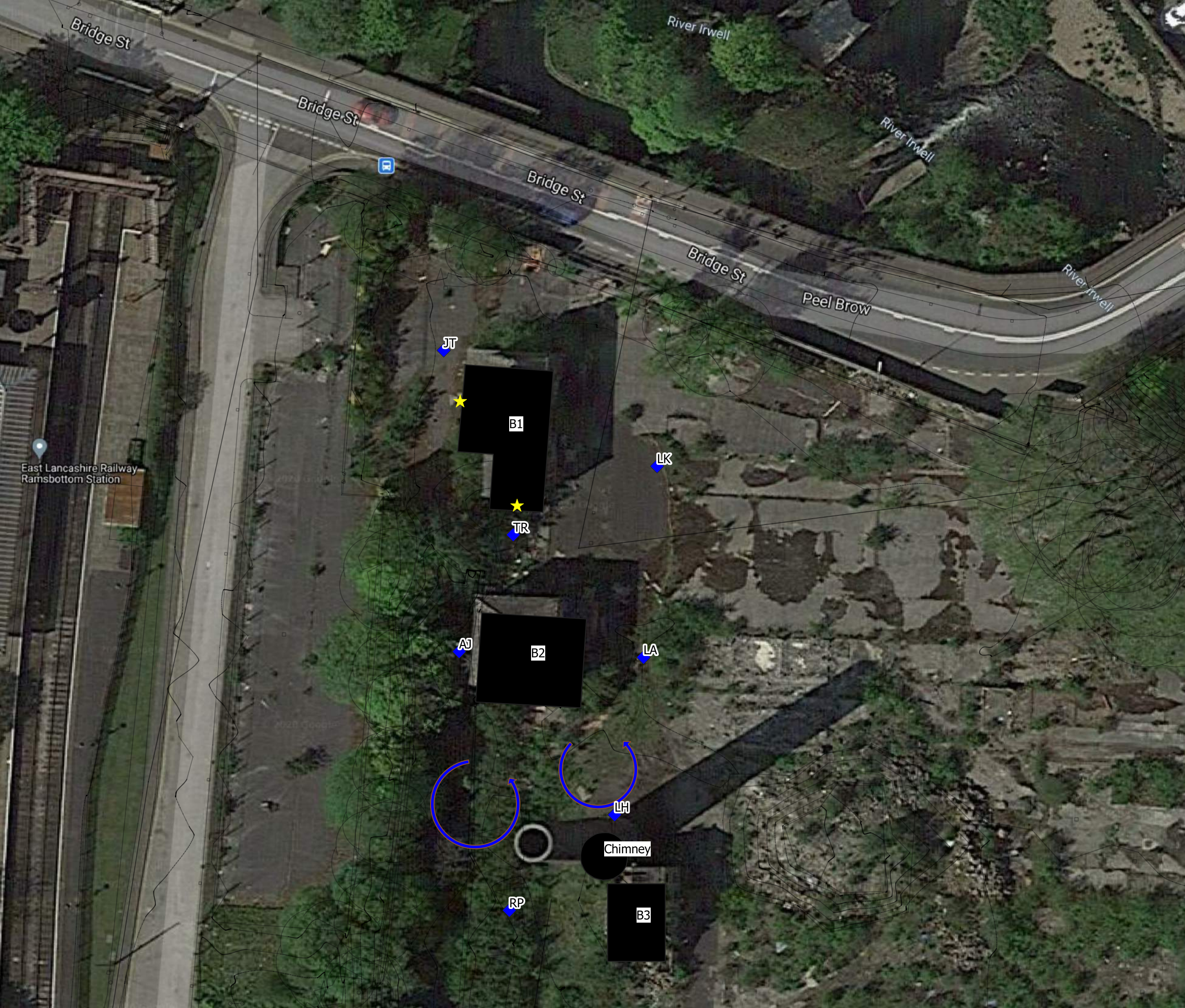
07/09/2020

CHKD BY:

TA

REV:

-



KEY

- ➡ Bat flight lines 20-08-20
- ★ Bat re-entry point
- ◆ Surveyor locations 20-08-20

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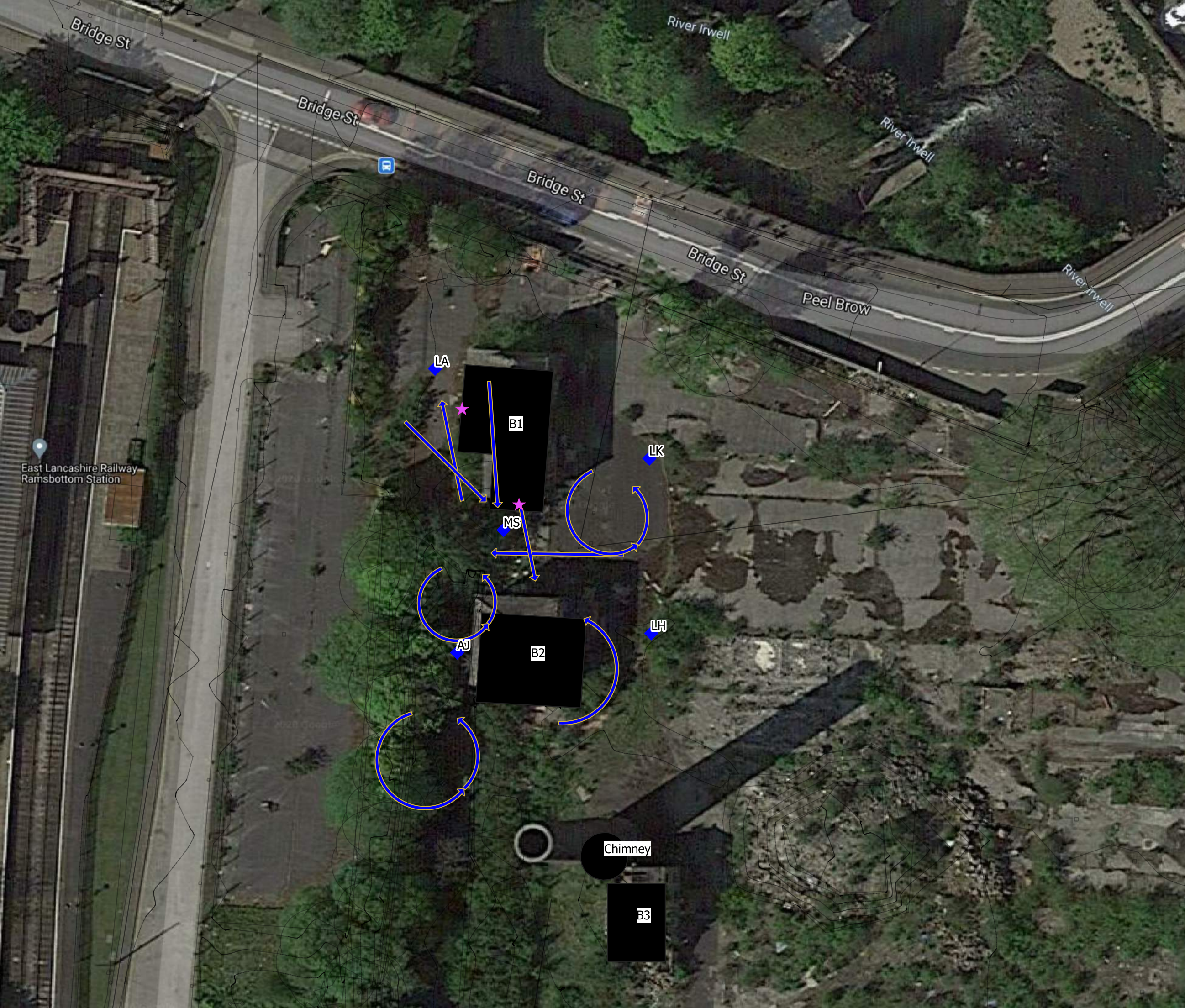
PROJECT:

Former Mondi Site

DRAWING TITLE:

Bat re-entry survey 20-08-20

SCALE: NTS@A3	DRAWN BY: LK	DRAWING No: P.1202.19.14
DATE: 07/09/2020	CHKD BY: TA	REV: -



- KEY
- ★ Bat emergence point 03-09-20
 - Bat flight lines 03-09-20
 - ◆ Surveyor locations 03-09-20

DO NOT SCALE.
ALL COORDINATES RELATED TO LOCAL GRID.
LOCATED TO NG BY BEST FIT TO DETAIL.
EXTRACTED FROM OS DIGITAL DATA.

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CLIENT:

Eccleston Homes

PROJECT:

Former Mondi Site

DRAWING TITLE:

Bat emergence survey

SCALE:

NTS@A3

DRAWN BY:

LK

DRAWING No:

P.1202.19.15

DATE:

07/09/2020

CHKD BY:

TA

REV:

-

Appendix 2

Relevant Legislation

European Legislation

The following Directives have been adopted by the European Union and provide protection for fauna and flora species of European importance and the habitats which support them:

- Directive 2009/147/EC on the Conservation of Wild Birds (Birds Directive);
- Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (Habitats Directive).

UK Legislation

The Habitats Directive has been transposed into national legislation through the Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019 (The Habitats Regulations). This provides for the designation and protection of 'European Sites' (SPAs, SACs and Ramsar Sites, including proposed or potential European Sites) and the protection of 'European Protected Species'.

The key UK legislation relating to nature conservation is the Wildlife and Countryside Act 1981 (as amended) (W&C Act). This Act is supplemented, *inter alia*, by provision in the Countryside and Rights of Way (CROW) Act 2000, and the Natural Environment and Rural Communities Act 2006 (NERC Act). Additional species and habitat specific UK legislation includes the Protection of Badgers Act 1992 and the Hedgerow Regulations 1997.

The UK legislation is due to be updated, with the publication of The Environment (Principles and Governance) Bill, which is due to be passed through parliament in the 2020. The draft Environment Bill sets out how the UK will maintain environmental standards following leaving of the EU. The Bill builds on the vision of the 25 Year Environment Plan, with the ambition from the government to leave the environment in a better state than it was when inherited.

The Defra Biodiversity Metric is being implemented to work alongside the Environment Bill. This tool calculates potential biodiversity impacts as a result of development and identifies mitigation and compensation requirements to ensure no net loss of biodiversity. In addition, it identifies measures that can be implemented in order to meet Biodiversity gain as a result of development. Defra released a beta version of the biodiversity metric in July 2019. This metric is likely to be the default metric used by councils once the Environment Bill comes into force.

The National Planning Policy Framework (NPPF) 2019 has been published to provide further planning guidance. Wildlife, biodiversity and ecological networks are referred to in Section 15 '*Conserving and enhancing the natural environment*'. The NPPF states that the planning system should contribute to and enhance the natural and local environment by: recognising the wider benefits of ecosystem services, minimising impacts on biodiversity and providing net gains for biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures. Further guidance is provided within Government Circular 06/05: *Biodiversity and Geological Conservation - Statutory Obligations and Their Impact Within the Planning System*.

Species and Habitats of Principal Importance

Species and Habitats of Principal Importance are listed under section 41 of the NERC Act and are a material consideration in planning decisions. Planners require relevant, up to date information from ecological surveys in order to assess the effects of a proposed development on biodiversity as Councils have a statutory obligation under section 40 of the NERC Act to consider biodiversity conservation in the determination of planning applications.

Background information about the lists of priority habitats and species (Species and Habitats of Principal Importance) can be found within the UK Biodiversity Action Plan (UK BAP). Although this has been

succeeded by the 'UK Post-2010 Biodiversity Framework', many of UK BAP tools are still relevant. BAPs identify habitats and species of nature conservation priority on a UK (UK BAP) and Local (LBAP) scale. Most BAP priority habitats and species have Habitat Action Plans (HAP) and Species Action Plans (SAP) and there are also "grouped action plans" for groups of related species with similar conservation requirements. The LBAP relating to this Site is the Greater Manchester Biodiversity Action Plan.

Bats

In England, all bats and their roosts are protected under the Conservation of Habitats and Species Regulations 2017 and the Wildlife & Countryside Act 1981 (as amended). Several species of bat are also highlighted as Priority Species under the UK Biodiversity Action Plan and within the Local BAP.

Under the current legislation as summarised on pages 8 and 9 of the Bat Surveys for Professional Ecologists Good Practice Guidelines – 3rd Edition (2016) it is a criminal offence to:

“To kill, capture, injure or take a wild bat;

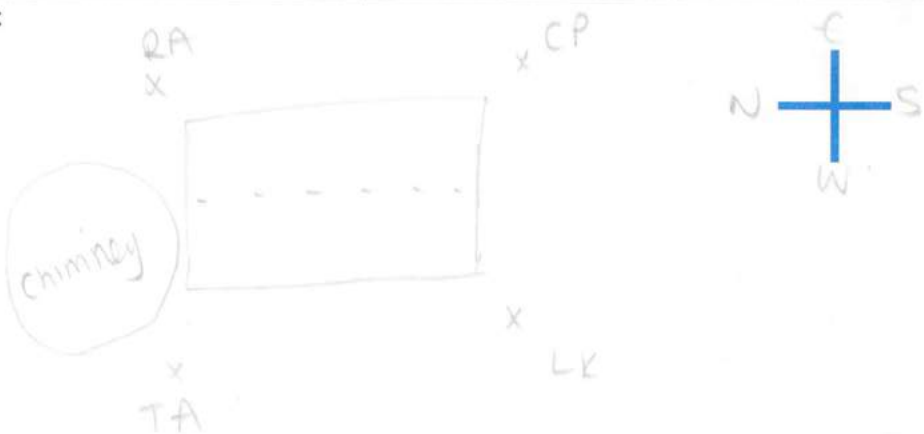
- To damage or destroy a place used by a bat for breeding or resting. All offences of this nature are identified within the Habitats Regulations. This offence is unique in that it can be committed accidentally. No element of intentional, reckless or deliberate action needs to be evidenced;*
- To disturb bats anywhere (roosts, flight lines or foraging areas) if levels of disturbance can be shown to impair their ability to survive, to breed or reproduce, to rear or nurture their young, to hibernate or migrate or to affect significantly local distribution or abundance;*
- To intentionally or recklessly disturb a bat, whilst it is occupying a place of shelter or protection;*
- To intentionally or recklessly obstruct access to any place used by a bat for shelter or protection; and*
- To be in possession or control of a bat alive or dead (or any part of a bat or anything derived from a bat, although bat droppings are generally considered to be acceptable), or to transport a bat, to sell or exchange a bat or to offer to sell or exchange a bat taken from the wild.”*

Local Policy

The site lies within Bury Council and is covered by the Bury Council Unitary Development Plan (UDP) (adopted August 1997). Policy EN6 deals with Conservation and the Natural Environment and is the policy of relevance here. This policy has been taken into account when preparing this report.

Appendix 3

Lead Surveyor Bat Survey Form

Site name/number: 1202.19 Former mondi site, Ramsbottom Building/tree reference: B3 Surveyor names: Tosha Allen, Liz Kenyon, Rob Armitage & Gillian Power Check list: All lead surveyor details filled in North arrow marked on map Drawing/map named & dated Surveyor positions marked on drawing	Date: 04/05/2020 Dawn: Dusk: 20:46 Sunset/sunrise time: 20:46 Survey start time: 20:31 Survey end time: 22:16	Weather: Dry, Clear. <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: right;">Start:</td> <td style="width: 50%; text-align: left;">End:</td> </tr> <tr> <td style="text-align: right;">Wind: F3</td> <td style="text-align: left;">F3</td> </tr> <tr> <td style="text-align: right;">Temperature: 11°C</td> <td style="text-align: left;">8°C</td> </tr> <tr> <td style="text-align: right;">Precipitation: 0</td> <td style="text-align: left;">0</td> </tr> <tr> <td style="text-align: right;">Cloud cover: 0/8</td> <td style="text-align: left;">0/8</td> </tr> </table>	Start:	End:	Wind: F3	F3	Temperature: 11°C	8°C	Precipitation: 0	0	Cloud cover: 0/8	0/8
Start:	End:											
Wind: F3	F3											
Temperature: 11°C	8°C											
Precipitation: 0	0											
Cloud cover: 0/8	0/8											
Notes/ site information (limitations, access issues, lighting etc.)	Sketch plan view: 											

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: 1202119 Former mandi, Ramsbottom B3	Surveyor name: Tasha Allen Survey leader? Yes/No	Date: 04/05/20 Detector type: <u>Peersonic A3</u>	Surrounding habitat: <u>Scrub</u> <u>stream to west of VP</u>
---	---	--	--

Surveyors checklist:

- ☒ Completed all information at top of form
- ☒ Drawn viewpoint/marked any emergence
- ☒ Added north arrow to compass
- ☒ Photo of viewpoint taken at start of survey
- ☒ Recorded observations and completed summary

Summary:

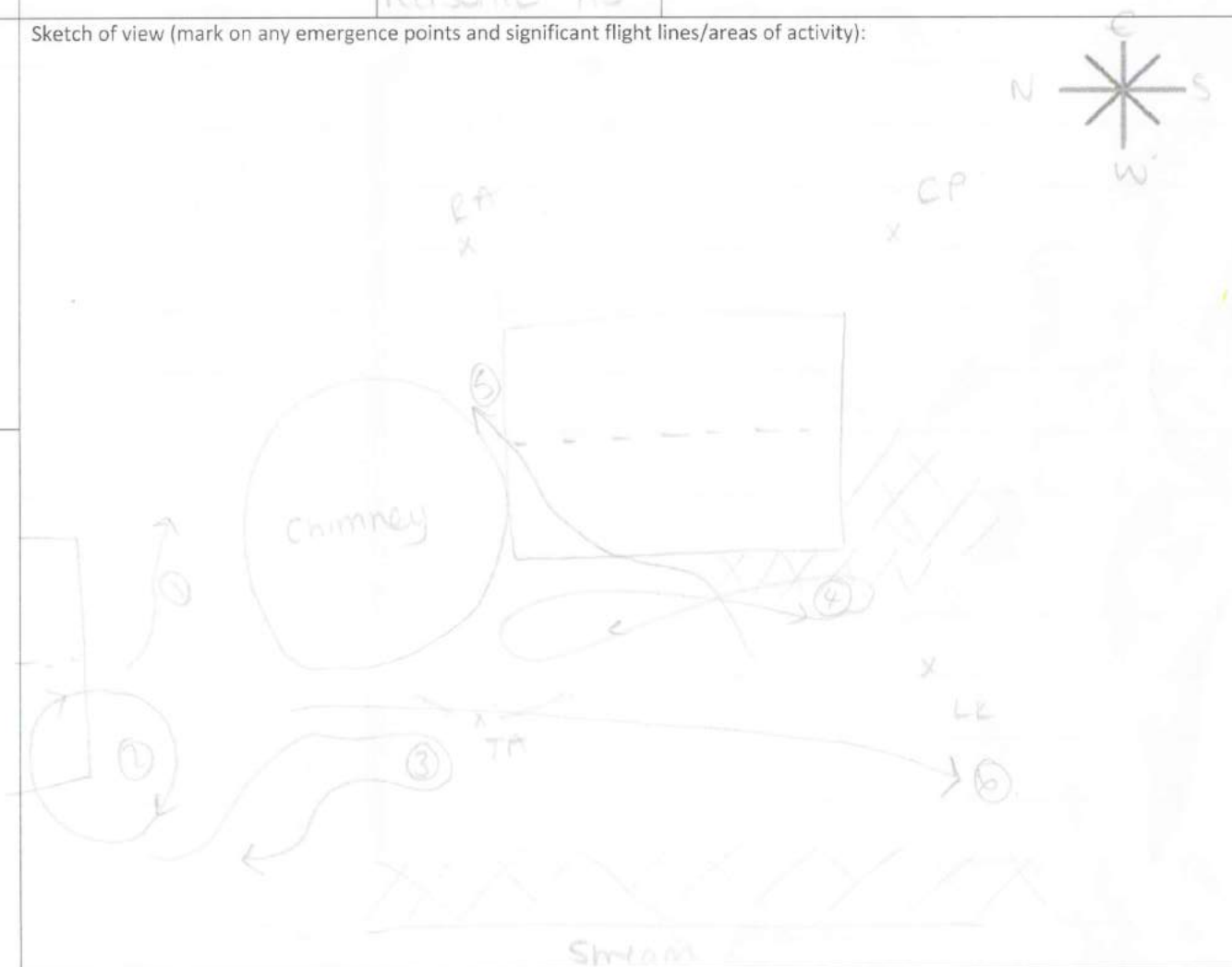
Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- ☐ Very low
- ☒ Low
- ☐ Medium
- ☐ High
- ☐ Constant

Social calling (Circle): Yes No

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Analysis 12/05/20 TA

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
① 21:00	CP	Pass	1				
② 21:03	CP	foraging	1				
③ 21:06	CP	foraging	1				
④ 21:10	CP	foraging	1				
⑤ 21:16-18	CP	Foraging continuous	1				
⑥ 21:19	CP	Foraging	1				
⑦ 21:20	CP	foraging	1				
⑧ 21:24	CP	foraging	1				
21:28	CP	distant pass HNS	1				
21:34	CP	Pass HNS	1				
⑨ 21:41	CP	Pass	1				
22:07	CP	distant pass HNS	1				
22:11	CP	distant pass	1				
22:13	CP	Pass HNS	1				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP – Common Pipistrelle	NOC - Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP - Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: 1202.19
Former Mond Site,
Ramsbottom

Surveyor name:
Liz Kenya
Survey leader? Yes/No

Date: 4/5/20
Detector type:
A7

Surrounding habitat:
Self Seeded Scrub
next to standing

Surveyors checklist:

- ☒ Completed all information at top of form
- ☒ Drawn viewpoint/marked any emergence
- ☒ Added north arrow to compass
- ☒ Photo of viewpoint taken at start of survey
- ☒ Recorded observations and completed summary

Summary:

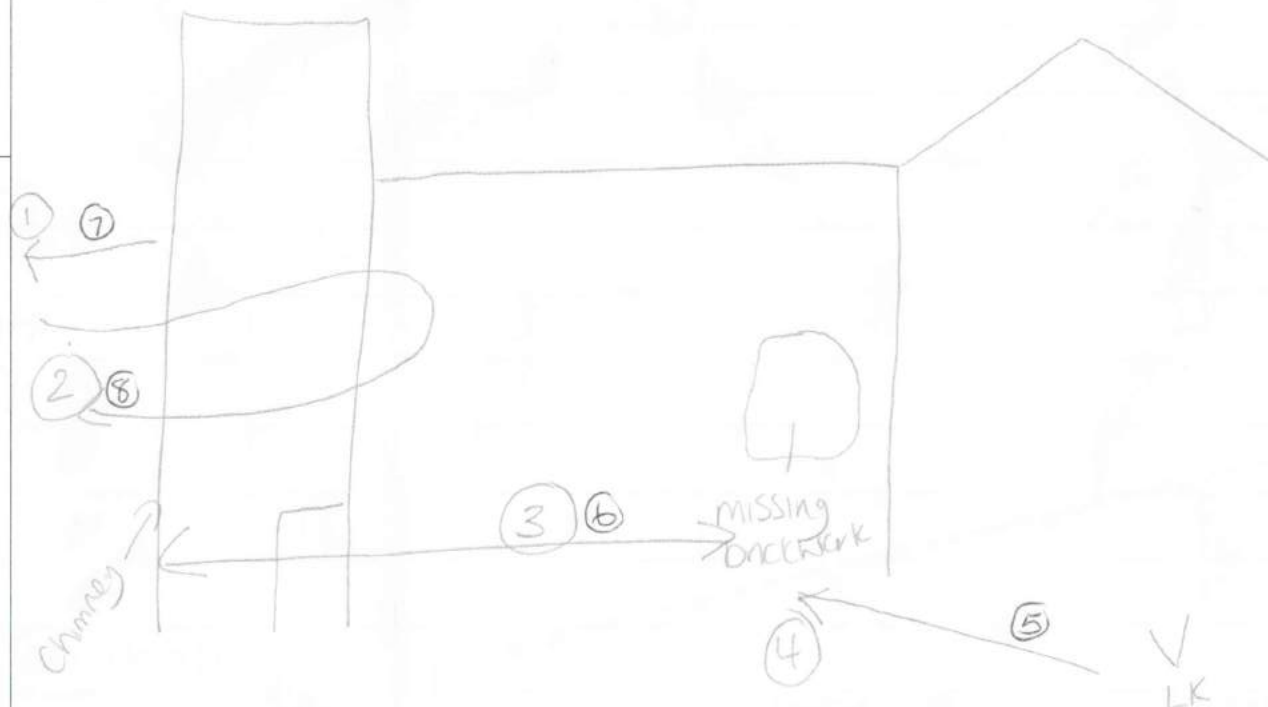
Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- ☐ Very low
- ☒ Low
- ☐ Medium
- ☐ High
- ☐ Constant

Social calling (Circle): Yes No

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Sound analysis TA 12105120

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21:02	CPiP	Pass - seen not heard ① ⑦	1				
21:10	CPiP	Foraging ② ⑧	1				
21:16	CPiP	Foraging ③ ⑥	1				
21:18	CPiP	Foraging ③ ⑥	1				
21:24	CPiP	Commuting ④ ⑤	1				
21:34	CPiP	Commuting HNS	1				
21:41	CPiP	Commuting HNS	1				
22:04	CPiP	Commuting HNS	1				
22:11	CPiP	Commuting HNS	1				
22:13	CPiP	Commuting HNS	1				
21:07	CP	Detector recording	1				
21:19	CP	"	1				
21:20	CP	"	1				

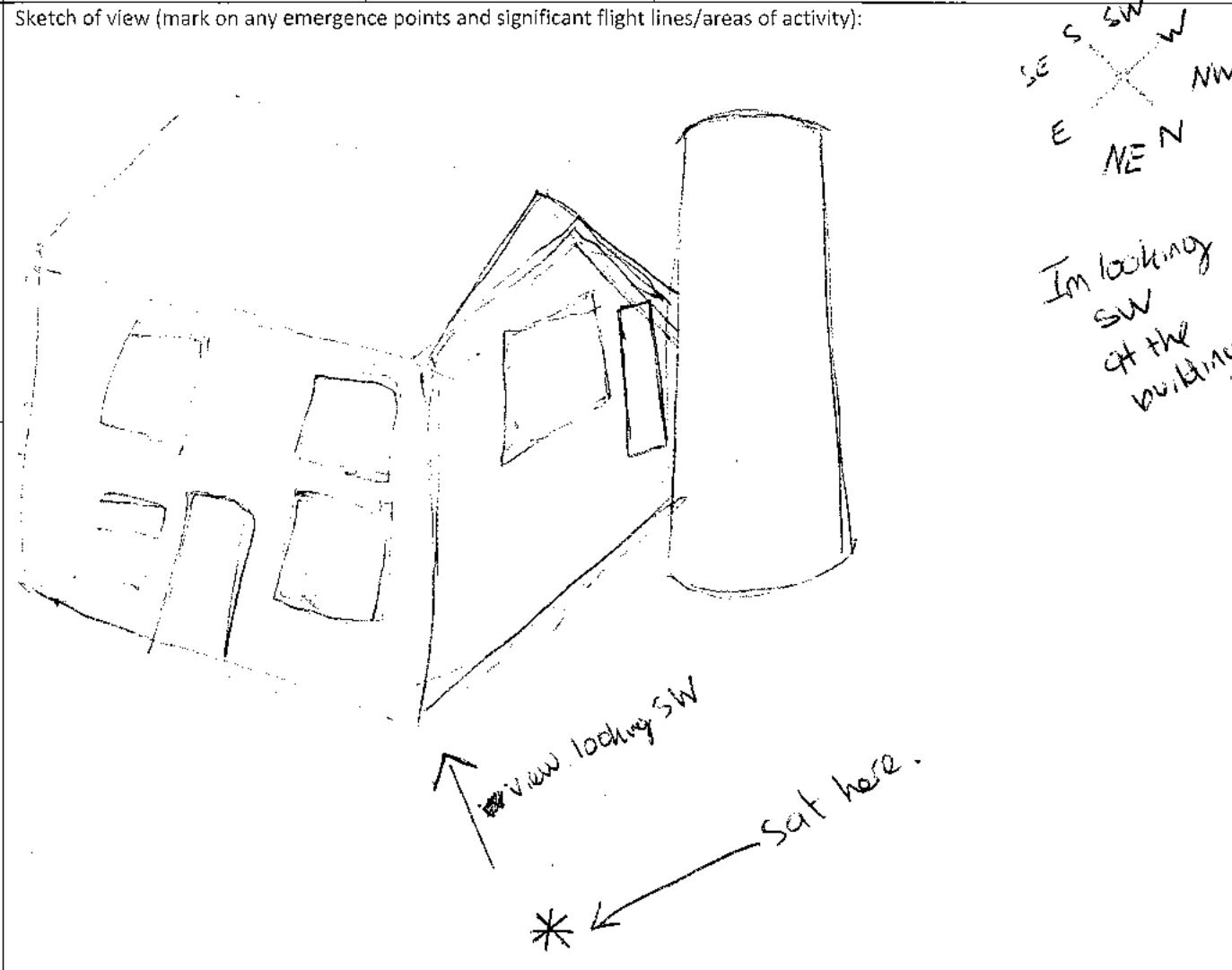
Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues. *None*

CP – Common Pipistrelle	NOC - Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP -Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming

Bat Survey Form (Non-Lead Surveyor)

Ascerta

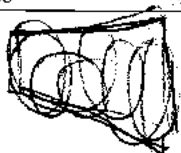
Site name/number: 1200 Mondri	Surveyor name: Rob Amstrong Survey leader? Yes/No ☒ No	Date: 4th May 2020 Detector type: Pico Sonic Ab	Surrounding habitat: scrub
Surveyors checklist: ☒ Completed all information at top of form ☒ Drawn viewpoint/marked any emergence ☒ Added north arrow to compass ☒ Photo of viewpoint taken at start of survey ☒ Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity):  Im looking SW at the building view looking SW sat here		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: ☐ Very low ☐ Low ☐ Medium ☐ High ☐ Constant Social calling (Circle): Yes No			

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21:00	041kHz						
21:01	026kHz						
21:01	027kHz						
21:02	027kHz						
21:03	027kHz						
21:19	043"						
21:20	026						
21:21	045	Flying away heading over scrub to N					
21:24	024						

Notes/constraints:

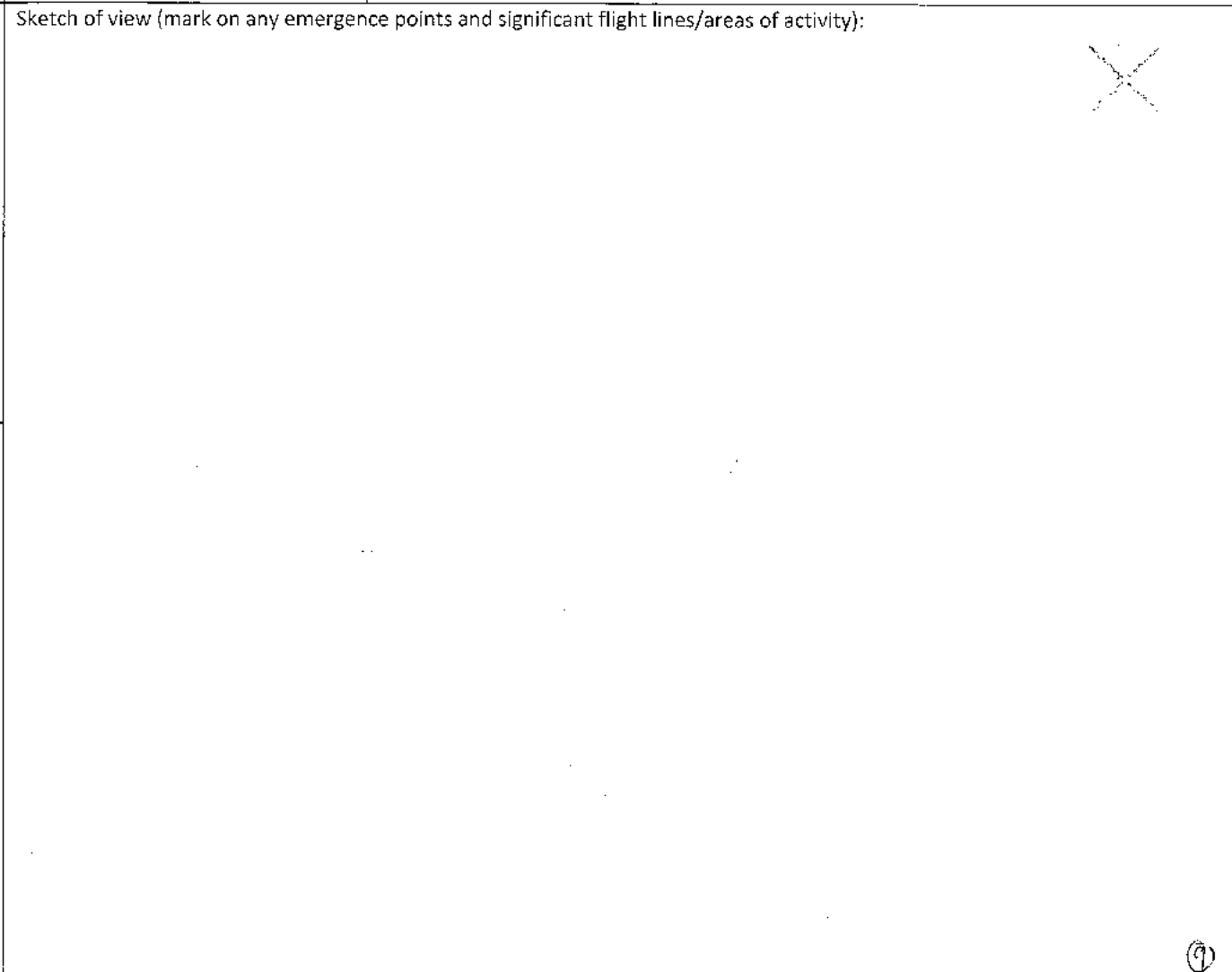
For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP – Common Pipistrelle	NOC - Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP -Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming



Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: 	Surveyor name: Survey leader? Yes/No	Date: Detector type:	Surrounding habitat:
Surveyors checklist: ☐ Completed all information at top of form ☐ Drawn viewpoint/marked any emergence ☐ Added north arrow to compass ☐ Photo of viewpoint taken at start of survey ☐ Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: ☐ Very low ☐ Low ☐ Medium ☐ High ☐ Constant Social calling (Circle): Yes No			

9

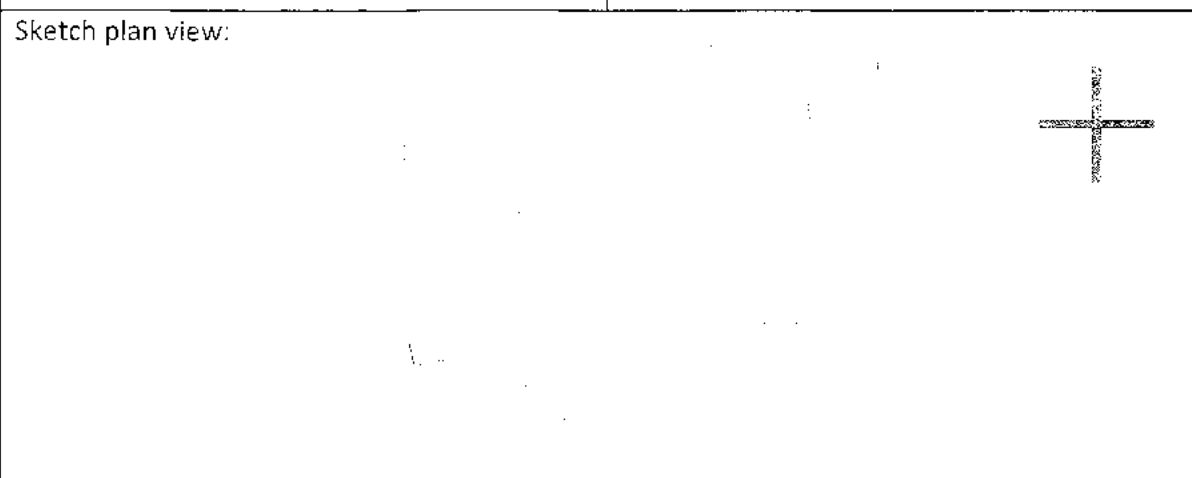
[illegible]

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP – Common Pipistrelle	NOC - Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP -Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming

Lead Surveyor Bat Survey Form

Site name/number: _____ Building/tree reference: _____ Surveyor names: _____ Check list: All lead surveyor details filled in North arrow marked on map Drawing/map named & dated Surveyor positions marked on drawing	Date: _____ Dawn: _____ Dusk: _____ Sunset/sunrise time: _____ Survey start time: _____ Survey end time: _____	Weather: _____ Start: _____ End: _____ Wind: _____ Temperature: _____ Precipitation: _____ Cloud cover: _____
Notes/ site information (limitations, access issues, lighting etc.) 	Sketch plan view: 	

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Surveyor name:

Date:

Surrounding habitat:

Survey leader? Yes/No

Detector type:

Surveyors checklist:

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):

- ☐ Completed all information at top of form
- ☐ Drawn viewpoint/marked any emergence
- ☐ Added north arrow to compass
- ☐ Photo of viewpoint taken at start of survey
- ☐ Recorded observations and completed summary

Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- ☐ Very low
- ☐ Low
- ☐ Medium
- ☐ High
- ☐ Constant

Social calling (Circle): Yes No



Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Surveyor name:

Date:

Surrounding habitat:

Survey leader? Yes/No

Detector type:

Surveyors checklist:

- ☐ Completed all information at top of form
- ☐ Drawn viewpoint/marked any emergence
- ☐ Added north arrow to compass
- ☐ Photo of viewpoint taken at start of survey
- ☐ Recorded observations and completed summary

Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- ☐ Very low
- ☐ Low
- ☐ Medium
- ☐ High
- ☐ Constant

Social calling (Circle): Yes No

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):

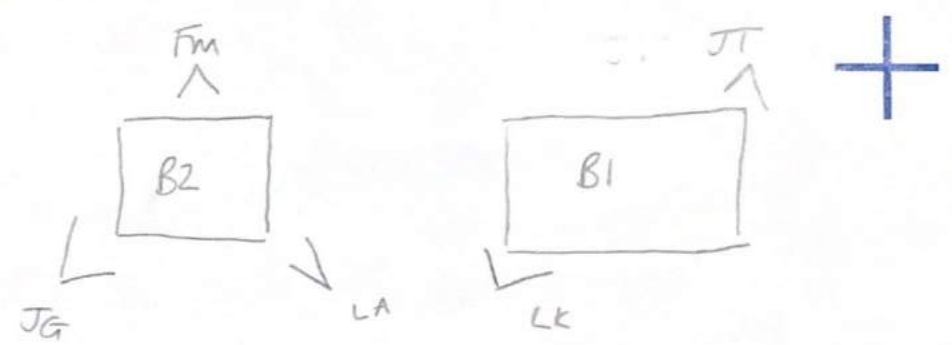


Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: 1207-1 1207-1 1207-1	Surveyor name: Survey leader? Yes/No	Date: Detector type:	Surrounding habitat:
Surveyors checklist: ☒ Completed all information at top of form ☐ Drawn viewpoint/marked any emergence ☐ Added north arrow to compass ☒ Photo of viewpoint taken at start of survey ☐ Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: ☐ Very low ☐ Low ☐ Medium ☐ High ☐ Constant Social calling (Circle): Yes No			

Lead Surveyor Bat Survey Form

Site name/number: <i>Firmer Mendi</i> Building/tree reference: <i>B1 & B2</i> Surveyor names: <i>L2 Keyn, Joe Taylor, L33le Atkinson, Felix Mdomu, Joe Gwoda</i> Check list: All lead surveyor details filled in ☒ North arrow marked on map ☒ Drawing/map named & dated ☒ Surveyor positions marked on drawing ☒	Date: <i>27/7/20</i> Dawn: ☐ Dusk: ☒ Sunset/sunrise time: <i>21.14</i> Survey start time: <i>20.56</i> Survey end time: <i>22.44</i>	Weather: <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;">Start:</td> <td style="text-align: center;">End:</td> </tr> <tr> <td>Wind:</td> <td style="text-align: center;"><i>F</i></td> <td style="text-align: center;"><i>FB</i></td> </tr> <tr> <td>Temperature:</td> <td style="text-align: center;"><i>13</i></td> <td style="text-align: center;"><i>12</i></td> </tr> <tr> <td>Precipitation:</td> <td style="text-align: center;"><i>None</i></td> <td style="text-align: center;"><i>None</i></td> </tr> <tr> <td>Cloud cover:</td> <td style="text-align: center;"><i>3/8</i></td> <td style="text-align: center;"><i>3/8</i></td> </tr> </table>		Start:	End:	Wind:	<i>F</i>	<i>FB</i>	Temperature:	<i>13</i>	<i>12</i>	Precipitation:	<i>None</i>	<i>None</i>	Cloud cover:	<i>3/8</i>	<i>3/8</i>
	Start:	End:															
Wind:	<i>F</i>	<i>FB</i>															
Temperature:	<i>13</i>	<i>12</i>															
Precipitation:	<i>None</i>	<i>None</i>															
Cloud cover:	<i>3/8</i>	<i>3/8</i>															
Notes/ site information (limitations, access issues, lighting etc.) <i>Two yards climbing out of B1 on arrival at site</i> <i>Kestral</i>	Sketch plan view: 																

UK.

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21:37	CPiP	Foraging HNS	1				
21:38	CPiP	Distal forage HNS	1				
21:43	CPiP	Foraging HNS CA until 22:10	1				
22:13	CPiP	Foraging HNS CA until 22:17	1				
22:23	CPiP	Forage HNS	1				
22:25	CPiP	Commuting HNS	1				
22:30	CPiP	Pass HNS	1				
22:33	CPiP	Commuting HNS	1				
22:40	CPiP	Commuting HNS	1				
22:41	CPiP	Commuting HNS	1				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP – Common Pipistrelle	NOC – Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP – Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Rammsbottom

Surveyor name:

Joe Goode

Survey leader? Yes/No

Date: 27/7/20

Detector type:

PEEKSONIC A7

Surrounding habitat:

Derelict industrial - Tall scrub and crumbled concrete/debris

Surveyors checklist:

- ☒ Completed all information at top of form
- ☒ Drawn viewpoint/marked any emergence
- ☒ Added north arrow to compass
- ☒ Photo of viewpoint taken at start of survey
- ☐ Recorded observations and completed summary

Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- ☐ Very low
- ☐ Low
- ☐ Medium
- ☐ High
- ☐ Constant

Social calling (Circle): Yes No

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



JG.

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21.29		Pass from South	1				
21.30		Emergence (A) Roof above bus station	1				
21.30 C.Pip		Foraging => 21.35	1				
21.36 C.Pip		Foraging => 21.42 & 21.49	1				
21.51 C.Pip		Foraging => 21.54	2				
21.54 C.Pip		Foraging => 22.03	1				
22.05 C.Pip		Foraging	1				
22.09 C.Pip		Foraging	1				
22.12 C.Pip		Foraging => 22.14	1				
22.17 C.Pip		Foraging	1				
22.33 C.Pip		HNS	1				
22.34 C.Pip		HNS	1				

Notes/constraints:
For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP – Common Pipistrelle	NOC - Noctule	HNS – Heard not seen	Foraging	Emergence
SP – Soprano Pipistrelle	MYSP - Myotis	Commuting	Social Calling	Re-Entry
Unid Pip – Unidentified Pip	BLE – Brown long eared	Pass	Constant Activity	Dawn Swarming

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Former mendi site
Building A

Surveyor name:

Joe Taylor

Date:

27/07/20

Surrounding habitat:

Sub urban.

Survey leader? ~~Yes~~ No

Detector type:

Peersonic A2

Surveyors checklist:

Completed all information at top of form

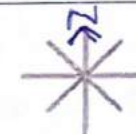
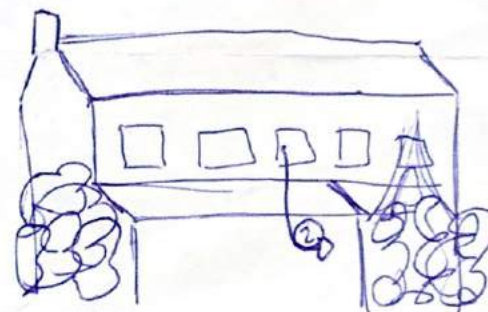
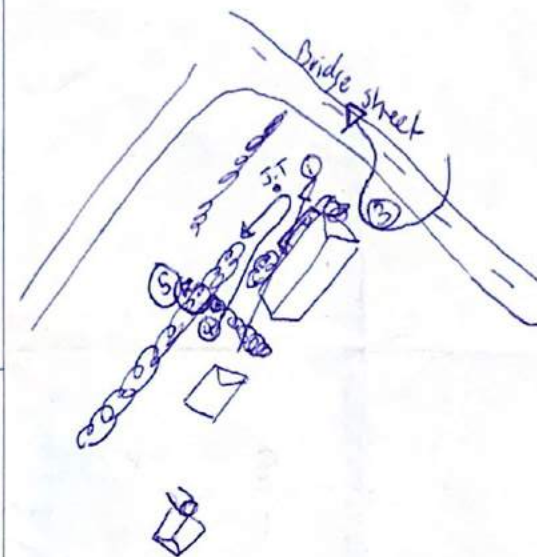
Drawn viewpoint/marked any emergence

Added north arrow to compass

Photo of viewpoint taken at start of survey

Recorded observations and completed summary

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

Very low
Low
Medium
High
Constant

Social calling (Circle): Yes No

JT.

[illegible]

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Ascerta

Surrounding habitat: Hedgerow / Trees

Detector type: AY

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):

- [illegible]

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

- Very low
Low
Medium
High
Constant

Social calling (Circle): Yes No

↑
vibration direction

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21:34	45 CP	commuting	1 (1)	22:01	45 CP	foraging	1
21:39	45 CP	commuting	1	22:02	46 CP	foraging	2
21:44	45/46 CP	foraging between buildings H+S	1	22:04	45 CP	foraging	2
21:45	52 CP	foraging	1	22:05	45 CP	foraging	1
21:47	46 CP	foraging	1 (2)	22:06	45/46 CP	foraging	2
21:49	53 CP	foraging	1	22:15	45 CP	foraging	1
21:50	50-51	foraging	1	22:17	45 CP	foraging	1
21:51	46 CP	foraging	1	22:19	45 CP	foraging	1
21:51	45 CP	foraging	1	22:20	45-50	foraging	1
21:53	45/46 CP	foraging	1	22:25	45 CP	foraging	1
21:54	46 CP	foraging	1	22:27	45/46 CP	commuting	1
21:55	50	foraging	1	22:31	44/45 CP	H+S	
21:56	45 CP	foraging	2	22:36	45 CP	H+S	
21:57	45/46 CP	foraging	2				
21:59	54	foraging	1				
22:00	46 CP	foraging	1				

Notes/constraints:
For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

23.44

2114

2059 -

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: <i>Former Mondi Building B</i>	Surveyor name: <i>Paul M. Jones</i> Survey leader? Yes/No <i>(No)</i>	Date: <i>27/07/20</i> Detector type:	Surrounding habitat: <i>A3</i>
Surveyors checklist: ☒ Completed all information at top of form ☐ Drawn viewpoint/marked any emergence ☒ Added north arrow to compass ☒ Photo of viewpoint taken at start of survey ☐ Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity):  		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: ☐ Very low ☐ Low ☐ Medium ☐ High ☐ Constant Social calling (Circle): Yes No			

Fm.

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
21:32	Pip45	HNS					
21:33	Pip45	Foraging ^{Foraging brown chimney} and building B	1				
21:47	Pip45	Constant foraging					
21:57	Pip45	Foraging along two trees and the fence	1				
22:02	Pip45	Foraging - Constant feeding buzz	2				
22:15	Pip45	commute - HNS					
22:34	Pip45	distant & constant foraging - HNS					
22:43	P45	commute - HNS					
22:45	P45	Feeding Buzz - HNS					

Notes/constraints:

For example - any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

CP - Common Pipistrelle	NOC - Noctule	HNS - Heard not seen	Foraging	Emergence
SP - Soprano Pipistrelle	MYSP - Myotis	Commuting	Social Calling	Re-Entry
Unid Pip - Unidentified Pip	BLE - Brown long eared	Pass	Constant Activity	Dawn Swarming

Lead Surveyor Bat Survey Form

Site name/number:

Mardi B1, B2, + Chimney
Building/tree reference:

Surveyor names:

Liz Kenyon, Liz Atkins, Lauren Hadfield
Rachel Platt, Joe Taylor, Alex Jones
Check list:

All lead surveyor details filled in ✓

North arrow marked on map ✓

Drawing/map named & dated ✓

Surveyor positions marked on drawing ✓

Date: 20 08 20

Dawn

Dusk:

Sunset/sunrise time: 05.56

Survey start time: 04.23

Survey end time: 05.56

Weather:

Start:

End:

Wind:

F2

F1

Temperature:

17

15

Precipitation:

Dry

Dry

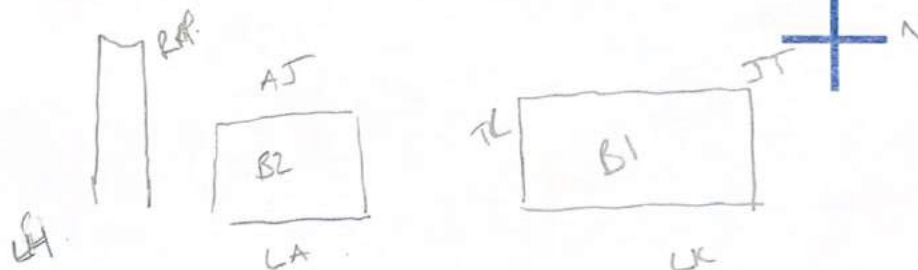
Cloud cover:

1/8

0/8

Notes/ site information (limitations, access issues, lighting etc.)

Sketch plan view:



LK

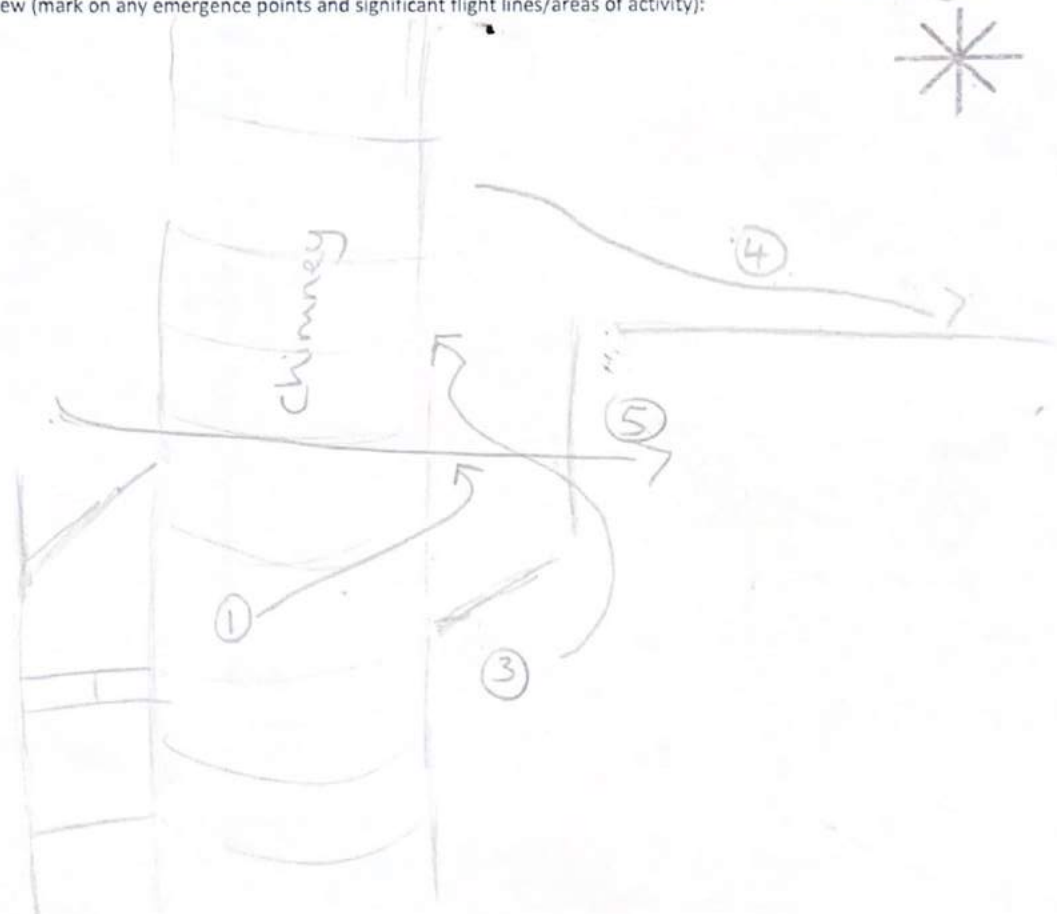
[illegible]

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: Ramsbottom	Surveyor name: Rachel Survey leader? Yes/No ☒	Date: 20/8/20 Detector type: A1	Surrounding habitat: Overgrown vegetation Run down buildings
Surveyors checklist: ☒ Completed all information at top of form ☐ Drawn viewpoint/marked any emergence ☐ Added north arrow to compass ☐ Photo of viewpoint taken at start of survey ☐ Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity):  The sketch shows a building facade with a chimney labeled 'chimney'. There are five numbered emergence points: 1 (bottom left), 3 (bottom right), 4 (top right), 5 (middle right), and 6 (top right). Arrows indicate flight paths from these points. A north arrow is drawn in the top right corner.		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: Very low Low ☒ Medium High Constant Social calling (Circle): Yes No			

5.55 - finish - right side of chimney

2 RP.

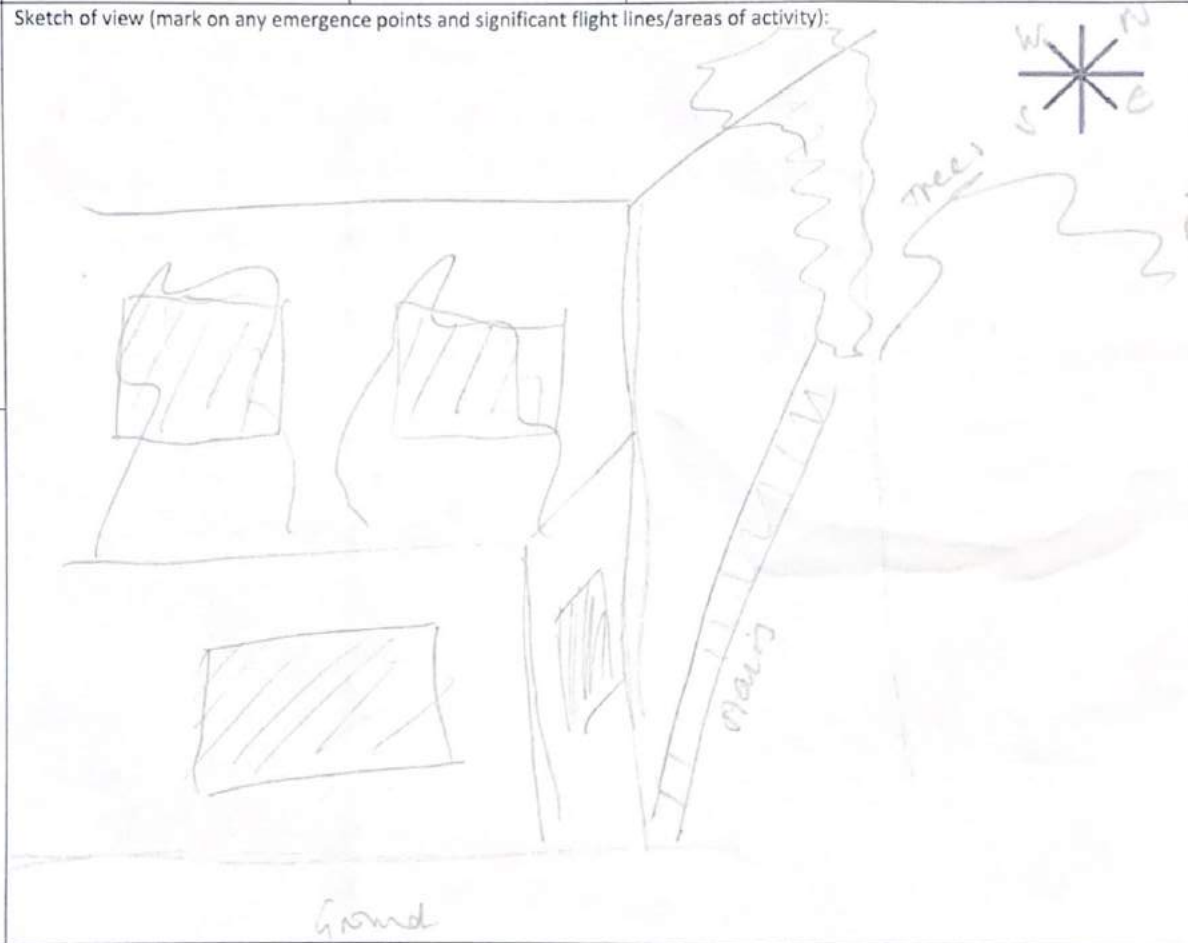
[illegible]

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: Former Maveli Conservation	Surveyor name: Lizzie Survey leader? Yes/No	Date: 20/08/20 Detector type: AB	Surrounding habitat: Urban Trees, grass River nearby.
Surveyors checklist: Completed all information at top of form Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: Very low Low Medium High Constant Social calling (Circle): Yes No			

↑
negative
direction

[illegible]

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: RAM SECTION 1	Surveyor name: TOBY Survey leader? Yes/No	Date: 20/8/11 Detector type:	Surrounding habitat:
Surveyors checklist: Completed all information at top of form Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) Overall activity levels: Very low Low Medium High Constant Social calling (Circle): Yes No			

TR

END: 05:56

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
04:46	49	FORAGING	1				
04:49	50	FORAGING	1				
04:55	39	FORAGING	1				
04:57	39	FORAGING	1				
05:04	36	FORAGING	1				
05:11	38	FORAGING	2				
05:17	63	RE-ENTRY	1				
05:21	36	RE-ENTRY	1				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

RE-ENTRY POINT AT 05:17 WINDOW & RECY

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Ramsbottom

Surveyor name:

lauren

Date: 20/03/20

Survey leader? Yes/No

No

Detector type: A8

Surrounding habitat:

Clearing Site / Abandoned buildings @ (chimney)

Surveyors checklist:

Completed all information at top of form

Drawn viewpoint/marked any emergence

Added north arrow to compass

Photo of viewpoint taken at start of survey

Recorded observations and completed summary

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Summary:

Emergence/Re-entry (Circle): Yes No

Overall activity levels:

Very low

Low

Medium

High

Constant

Social calling (Circle): Yes No



LH

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
4:43	CP	HNS Foraging	1				
4:47	CP	HNS Foraging	1				
4:47	3) KH2	HNS	1				
4:48	CP	HNS Foraging (continuous till 4:51)	1				
4:48-53	CP	HNS Foraging (continuous activity from same individual)					
5:07	CP	Foraging around chimney	1				
5:11	CP	Foraging HNS	1				
5:12	CP	HNS Foraging	1				
5:13	CP	HNS Foraging	1				
5:14	CP	HNS Foraging	1				
5:18	CP	HNS Foraging	1				
5:23	CP	Foraging	1				

Notes/constraints:
For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Ramsbottom cricket club

Surveyor name:

Alex Jones
Survey leader? Yes/No

Date:

20th August

Detector type:

AS

Surrounding habitat:

Ramsbottom town centre

Surveyors checklist:

Completed all information at top of form

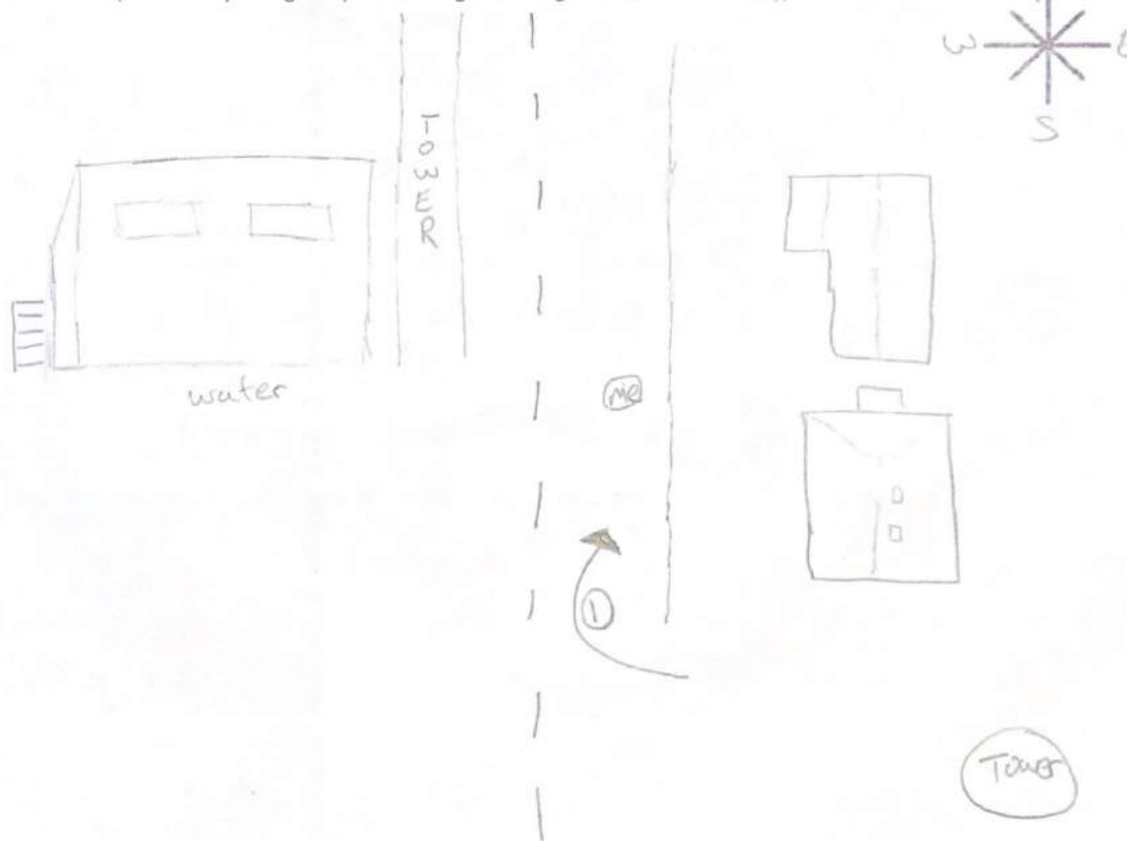
Drawn viewpoint/marked any emergence

Added north arrow to compass

Photo of viewpoint taken at start of survey

Recorded observations and completed summary

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

Very low

Low

Medium

High

Constant

Social calling (Circle): Yes No ?

Not sure

AJ

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
4:28	Pip	Foraging (cant see)	1?				
4:29	Pip	Foraging	?				
4:31	Pip	Foraging					
4:33	Pip	Foraging					
4:39	Pip	Foraging					
4:43	Pip	Foraging					
4:50	Pip	Foraging					
5:07	Pip?						
5:10	Pip	Foraging + social call?					
5:11	Pip	Foraging					
5:18	Pip	Foraging					
5:24	Pip	Foraging					
5:27	?	?					
5:30	?	Foraging					
① 5:31	Pip	Foraging					

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Former Mendi
Ramsbottom

Surveyor name: Joe Taylor

Survey leader? ~~Yes~~/No

Date: 20108120

Detector type:

Pearsonic A9

Surrounding habitat:

Agriculture - sub urban

Surveyors checklist:

Completed all information at top of form

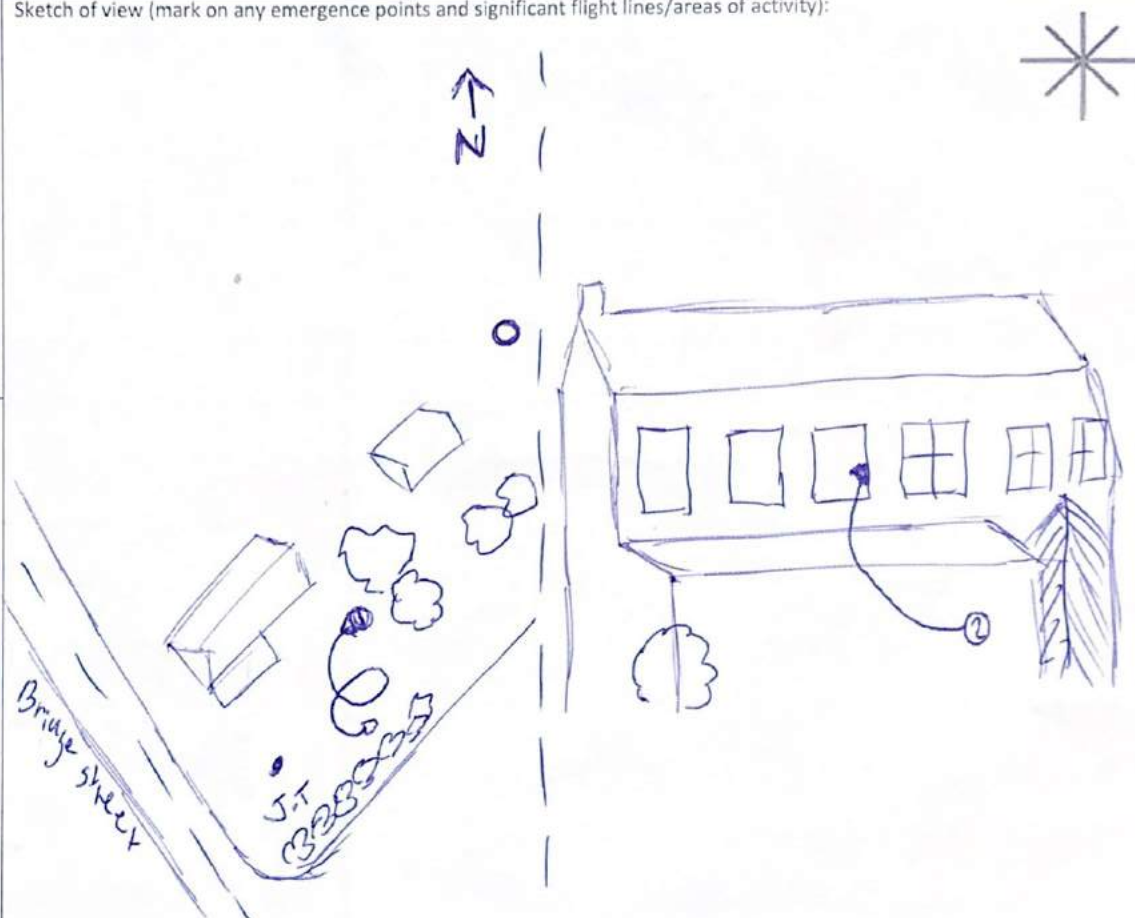
Drawn viewpoint/marked any emergence

Added north arrow to compass

Photo of viewpoint taken at start of survey

Recorded observations and completed summary

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Summary:

Emergence/Re-entry (Circle): Yes No
(If yes state number and species)

Overall activity levels:

Very low

Low

Medium

High

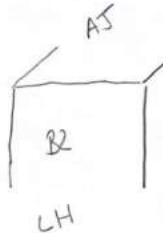
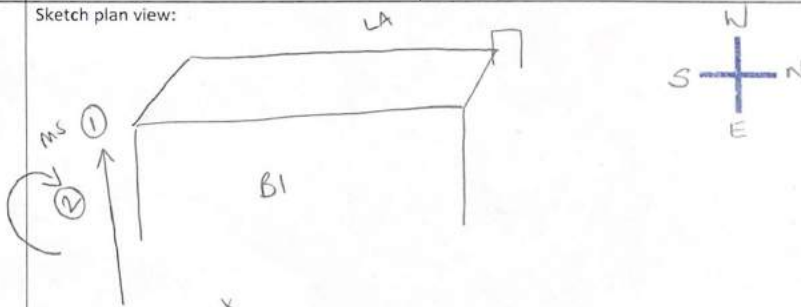
Constant

Social calling (Circle): Yes No

[illegible]

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Lead Surveyor Bat Survey Form

Site name/number: <i>Ferne Road</i> Building/tree reference: <i>Building 1</i> Surveyor names: <i>Liz Ryan, Lauren Hadfield, Lizzie Atkins</i> <i>McLennan, Stuart, Alex Jones</i> Check list: All lead surveyor details filled in ✓ North arrow marked on map ✓ Drawing/map named & dated ✓ Surveyor positions marked on drawing ✓	Date: <i>03 09 20</i> Dawn: <i>(Dusk)</i> Sunset/sunrise time: <i>19 53</i> Survey start time: <i>19 35</i> Survey end time: <i>21 23</i>	Weather: Start: End: Wind: <i>FD</i> <i>FD</i> Temperature: <i>15</i> <i>14</i> Precipitation: <i>None</i> <i>None</i> Cloud cover: <i>1/8</i> <i>1/8</i>
Notes/ site information (limitations, access issues, lighting etc.) 	Sketch plan view: 	

MS

Checked
UK
7/6/20

	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
①	20:07	Unknown C.Pip	Commuting	1				
②	20:10	Unknown C.Pip	Commuting	1				
③	20:21-20:23	Com. Pip	Foraging	1				
④	20:29+20:30	Com. Pip	Foraging (emergence from the other side of the roof)	3				
⑤	20:37	Com. Pip	Foraging	1				
	20:42	Com. Pip	Foraging, not seen	1				
	20:44	Com. Pip	Foraging, not seen	1+				
	20:50	Com. Pip	Foraging, not seen	1+				
	20:54	Com. Pip	Foraging, not seen	1				
	20:56	Com. Pip	Foraging, not seen	1+				
	20:58	Com. Pip	Foraging, not seen	1				
	21:01	Com. Pip	Foraging, not seen	1				
	21:04	Com. Pip	Foraging, not seen	1				
	21:10 onwards	Com. Pip	Foraging, not seen, constant till 21:20	1+				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Branches in the view

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number:

Former Mondli Site

Surveyor name: Mariama

Date: 03.08.20

Surrounding habitat:

Ruderal, trees, scrub, hard standing, pond

Survey leader? Yes/No

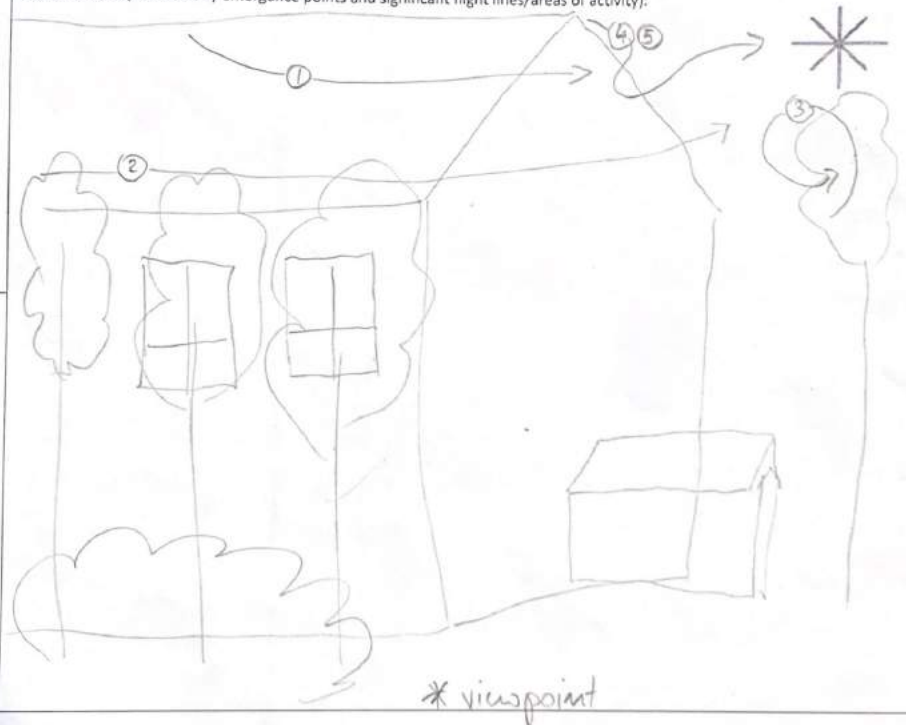
Detector type:

No number

Surveyors checklist:

- ✓ Completed all information at top of form
- ✓ Drawn viewpoint/marked any emergence
- Added north arrow to compass
- Photo of viewpoint taken at start of survey
- ✓ Recorded observations and completed summary

Sketch of view (mark on any emergence points and significant flight lines/areas of activity):



Summary:

Emergence/Re-entry (Circle): Yes No ?

(If yes state number and species)

Overall activity levels:

Very low
Low
Medium
High
Constant

Social calling (Circle): Yes No

CH

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
20:17	CP	HNS Foraging	1	20:35	CP	Foraging	1
20:18	CP	HNS Foraging	1	20:36	CP	Foraging	1
20:19	CP	HNS Foraging	1	20:39	CP	Foraging	1
20:21	CP	Seen Foraging (Not picked up)	2	20:42	CP	Foraging	1
20:22	CP	HNS Foraging	1	20:46	CP	HNS Foraging	1
20:23	CP	HNS Foraging	1	20:47	CP	Foraging	2
20:24	CP	Seen Foraging (Not picked up)	2	20:48	CP	Foraging	1
20:26	CP	HNS (very faint) Foraging	1	20:49	CP	Foraging	1
20:27	CP	Foraging	1	20:50	CP	Foraging	1
20:28	CP	Foraging	1	20:51	CP	Foraging	1
20:29	CP	HNS Foraging	1	20:52	CP	Foraging	1
20:30	CP	Foraging	1	20:55	CP	HNS Foraging	1
20:31	CP	Foraging	1	20:57	CP	Foraging	1
20:32	CP	Foraging	1	20:59	CP	HNS Foraging	1
20:33	CP	Foraging	1	21:00	CP	HNS Foraging	1
20:34	CP	Foraging	1	21:01	CP	Foraging	1
Notes/constraints: For example - any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.				21:02	CP	HNS Foraging	2
				21:03	CP	HNS Foraging	2
				21:05	CP	HNS Foraging	2
				21:06	CP	HNS Foraging	2
				21:07	CP	Foraging	2
21:06	CP	HNS Foraging	1	21:08	CP	HNS Foraging	2
21:17	CP	HNS Foraging	1	21:11	CP	HNS Foraging	2
21:20	CP	HNS Foraging	1	21:12	CP	HNS Foraging	2
21:21	CP	HNS Foraging	2	21:13	CP	HNS Foraging	2

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: <i>former mandi</i>	Surveyor name: <i>lauren</i> Survey leader? Yes/No ☒	Date: <i>3/9/20</i> Detector type: <i>A4</i>	Surrounding habitat: <i>Waste land / building site</i>
Surveyors checklist: Completed all information at top of form Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes ☐ No ☒ (If yes state number and species) Overall activity levels: Very low Low Medium High Constant ☒ Social calling (Circle): Yes ☐ No ☒ <i>I think so, Not too sure</i> <i>Sony</i>			

AJ

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
8:06	?	Foraging	1	9:15	Pip	Foraging (over road)	2
① 8:19	Pip	Foraging	1	9:16	Pip	Foraging	1
8:24	Pip	Foraging (same place)	1	9:17	Pip	Foraging	2
② 8:27	Pip	Foraging	1	9:22	Pip	Foraging	1
③ 8:30	Pip	Foraging	1				
8:47	Pip	Foraging	1				
8:52	Pip	Foraging	2				
8:52	Pip	Foraging	2				
8:53	Pip	Social call?	1				
8:57	Pip	Foraging	1				
9:02	Pip	Foraging behind me	1				
9:07	Pip	Foraging	1				
9:09	Pip	Foraging	2				
9:10	Pip	Foraging + Social calls	1				
9:11	Pip	Foraging	2				
9:13	Pip	Foraging + Social calls	1				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

Bat Survey Form (Non-Lead Surveyor)

Ascerta

Site name/number: Ramsbottom	Surveyor name: Alex Jones Survey leader? Yes/No	Date: 3rd Sept Detector type: H9 Pico	Surrounding habitat: Ramsbottom town centre.
Surveyors checklist: Completed all information at top of form Drawn viewpoint/marked any emergence Added north arrow to compass Photo of viewpoint taken at start of survey Recorded observations and completed summary	Sketch of view (mark on any emergence points and significant flight lines/areas of activity): 		
Summary: Emergence/Re-entry (Circle): Yes No (If yes state number and species) ? unsure Overall activity levels: Very low Low Medium High Constant Social calling (Circle): Yes No			

AJ

Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats	Time	Species	Activity observed (clearly identify any emergence/re-entry)	Total No. of Bats
8:06	?	Foraging	1	9:15	Pip	Foraging (overhead)	2
8:19	Pip	Foraging	1	9:16	Pip	Foraging	1
8:21	Pip	Foraging (same place)	1	9:17	Pip	Foraging	2
8:27	Pip	Foraging	1	9:22	Pip	Foraging	1
8:30	Pip	Foraging	1				
8:47	Pip	Communing	1				
8:52	Pip	Foraging	2				
8:52	Pip	Foraging	2				
8:53	Pip	Social call?	1				
8:57	Pip	Foraging	1				
9:02	Pip	Foraging behind me	1				
9:07	Pip	Foraging	1				
9:09	Pip	Foraging	2				
9:10	Pip	Foraging + Social calls	1				
9:11	Pip	Foraging	2				
9:13	Pip	Foraging + Social calls	1				

Notes/constraints:

For example – any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.

LK

[illegible]

Notes/constraints

For example = any restrictions to view, any problems with your equipment, any interaction with the public or landowner, any H&S issues.