

7 FIGURES

Figure 1 - Site Location Plan

Figure 2 - Dusk Emergence Survey Results

Figure 3 - Dawn Re-entry Survey Results



Key

 Site



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0 3.25 6.5 13 19.5 26
Meters

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,

wsp

TITLE:

Norcot Community Centre

FIGURE No:

FIGURE 1 - Site Location Plan



Key

Site

● Surveyor Locations

Flight Path

➤ Common Pipistrelle

➤ Soprano Pipistrelle



TITLE:

Norcot Community Centre

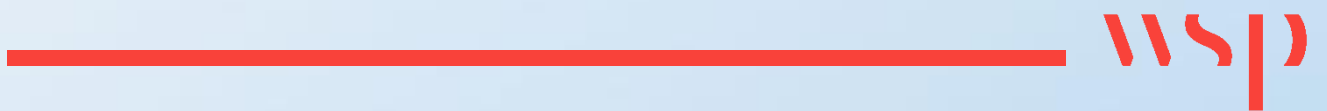
FIGURE No:

FIGURE 2 - Dusk Emergence
Survey Results



Appendix A

RAW DATA



RAW DATA

Survey	Date	Sunset/ Sunrise Times	Start/End	Time	Weather Conditions (Start/end of Survey)				
					Temp. (°C)	Humidity (%)	Wind (Bft)	Cloud (Okt)	Precipitation
Dusk	22.08.17	20:13	Start	19:58	20.8	79.3	0	6	Heavy rain started at 21:40
			End	21:42	17.9	80.7	0	8	
Dawn	23.08.17	06:02	Start	04:02	16.7	88.1	0	1	No
			End	06:17	15.9	93.5	0	3	

RAW SURVEY DATA

22nd August 2017 - Dusk Survey Results		
Time	Species	Comments
Surveyor 1 – Positioned to the west of the building. Detector: Batlogger		
20:30	Common pipistrelle	Flying south-west along south-western boundary
20:31	Soprano pipistrelle	Flying south-west along south-western boundary
20:34	Common pipistrelle	Flying north-west along south-western boundary
20:36	Soprano pipistrelle	Flying north across site
20:37	Common pipistrelle	HNS
20:39	Soprano pipistrelle	HNS
20:45	Common pipistrelle	HNS
20:46	Soprano pipistrelle	HNS
20:46	Common pipistrelle	HNS
20:47	Noctule	Flying high overhead – not seen
20:55	Common pipistrelle	Flying south-west along south-western boundary
20:59	Common pipistrelle	HNS
21:01	Common pipistrelle	Flying south-west along south-western boundary
21:02	Common pipistrelle	HNS
21:08	Common pipistrelle	HNS
21:08	Common pipistrelle	HNS
21:10	Common pipistrelle	HNS
21:10	Noctule	HNS
21:11	Common pipistrelle	HNS
21:14	Common pipistrelle	HNS
21:18	Common pipistrelle	HNS
21:19	Common pipistrelle	HNS

22nd August 2017 - Dusk Survey Results

Time	Species	Comments
21:20	Common pipistrelle	HNS
21:21	Common pipistrelle	HNS
21:25	Soprano pipistrelle	HNS
21:26	Common pipistrelle	HNS
21:28	Common pipistrelle	HNS
21:29	Common pipistrelle	HNS
21:30	Common pipistrelle	HNS

Surveyor 2 – Positioned to the east of the building. Detector: Batlogger

20:32	Common pipistrelle	HNS – Commuting
20:34	Common pipistrelle	HNS - foraging
20:36	Soprano pipistrelle	HNS - foraging
20:37	Soprano pipistrelle	HNS - foraging
20:38	Soprano pipistrelle	HNS - foraging
20:39	Soprano pipistrelle	HNS - foraging
20:40	Soprano pipistrelle	HNS – foraging – 2 bats
20:41	Soprano pipistrelle	HNS – foraging – 2 bats
20:42	Soprano pipistrelle	HNS – foraging – 2 bats
20:43	Soprano pipistrelle	HNS – foraging – 2 bats
20:44	Soprano pipistrelle	HNS – foraging – 2 bats
20:45	Soprano pipistrelle	HNS – foraging – 2 bats
20:45	Common pipistrelle	HNS - foraging
20:46	Common pipistrelle	HNS - foraging
20:47	Common pipistrelle	HNS - foraging
20:47	Noctule	HNS – commuting overhead
20:48	Common pipistrelle	HNS - foraging
20:49	Common pipistrelle	HNS - foraging
20:50	Common pipistrelle	HNS - foraging
20:51	Common pipistrelle	HNS - foraging
20:52	Common pipistrelle	HNS - foraging
20:53	Common pipistrelle	HNS - foraging
20:54	Common pipistrelle	HNS - foraging
20:55	Common pipistrelle	HNS - foraging
20:56	Common pipistrelle	HNS - foraging
20:57	Common pipistrelle	HNS - foraging
20:58	Common pipistrelle	HNS - foraging

22nd August 2017 - Dusk Survey Results

Time	Species	Comments
20:58	Common pipistrelle	HNS - foraging
20:59	Common pipistrelle	HNS - foraging
21:02	Common pipistrelle	HNS - foraging
21:04	Common pipistrelle	HNS - foraging
21:08	Soprano pipistrelle	HNS - foraging
21:08	Common pipistrelle	HNS - foraging
21:10	Noctule	HNS – commuting overhead
21:11	Common pipistrelle	HNS - foraging
21:14	Common pipistrelle	HNS - foraging
21:15	Common pipistrelle	HNS - foraging
21:16	Common pipistrelle	HNS - foraging
21:18	Common pipistrelle	HNS - foraging
21:19	Common pipistrelle	HNS - foraging
21:20	Common pipistrelle	HNS - foraging
21:21	Common pipistrelle	HNS - foraging
21:21	Soprano pipistrelle	HNS - foraging
21:22	Common pipistrelle	HNS - foraging
21:23	Common pipistrelle	HNS - foraging
21:24	Common pipistrelle	HNS - foraging
21:25	Common pipistrelle	HNS - foraging
21:27	Common pipistrelle	HNS - foraging
21:28	Common pipistrelle	HNS - foraging
21:29	Common pipistrelle	HNS - foraging
21:30	Common pipistrelle	HNS - foraging
21:31	Common pipistrelle	HNS - foraging
21:34	Common pipistrelle	HNS - foraging

22nd August 2017 - Dusk Survey Results

Time	Species	Comments
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25th May 2017 - Dawn Survey Results

Time	Species	Comments
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Surveyor 1 – Positioned to the west of the building. Detector: Batlogger

04:07	Common pipistrelle	HNS - commuting
04:14	Serotine	HNS - commuting
04:24	Common pipistrelle	HNS - commuting
04:25	Common pipistrelle	HNS - commuting
04:27	Common pipistrelle	HNS - commuting
04:36	Common pipistrelle	HNS - commuting
04:41	Common pipistrelle	HNS - commuting
04:41	Soprano pipistrelle	HNS - commuting
04:56	Soprano pipistrelle	HNS - commuting
04:57	Common pipistrelle	HNS - commuting
05:00	Common pipistrelle	HNS - commuting
05:23	Common pipistrelle	HNS - commuting
05:24	Common pipistrelle	HNS - commuting
05:25	Common pipistrelle	Foraging in garden adjacent to western boundary
05:26	Common pipistrelle	Foraging in garden adjacent to western boundary
05:27	Common pipistrelle	Foraging in garden adjacent to western boundary
05:28	Common pipistrelle	Foraging / circling around northern corner of building
05:29	Common pipistrelle	Foraging / circling around northern corner of building
05:30	Soprano pipistrelle	Foraging / circling around northern corner of building
05:30	Common pipistrelle	Foraging / circling around northern corner of building
05:31	Common pipistrelle	Foraging / circling around northern corner of building
05:32	Common pipistrelle	Foraging / circling around northern corner of building
05:33	Common pipistrelle	Foraging / circling around northern corner of building
05:34	Common pipistrelle	Foraging / circling around northern corner of building
05:35	Common pipistrelle	Foraging / circling around northern corner of building
05:36	Common pipistrelle	Foraging / circling around northern corner of building
05:38	Soprano pipistrelle	HNS
05:38	Common pipistrelle	HNS
05:39	Common pipistrelle	Commuting southwards across Site
05:40	Common pipistrelle	Commuting southwards across Site
05:40	Soprano pipistrelle	HNS

22nd August 2017 - Dusk Survey Results

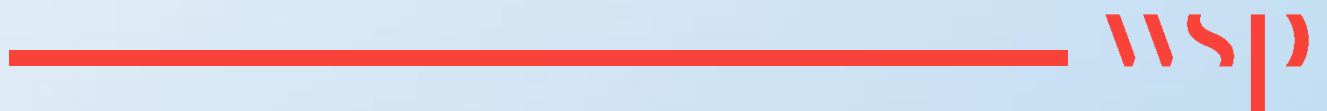
Time	Species	Comments
Surveyor 2 – Positioned to the east of the building. Detector: Batlogger		
04:07	Common pipistrelle	HNS – commuting / foraging
04:08	Common pipistrelle	HNS – commuting / foraging
04:08	Soprano pipistrelle	HNS – commuting / foraging
04:09	Common pipistrelle	HNS – commuting / foraging
04:10	Common pipistrelle	HNS – commuting / foraging
04:19	Common pipistrelle	HNS – commuting / foraging
04:23	Common pipistrelle	HNS – commuting / foraging
04:24	Common pipistrelle	HNS – commuting / foraging
04:25	Common pipistrelle	HNS – commuting / foraging
04:26	Common pipistrelle	HNS – commuting / foraging
04:27	Common pipistrelle	HNS – commuting / foraging
04:28	Common pipistrelle	HNS – commuting / foraging
04:29	Common pipistrelle	HNS – commuting / foraging
04:30	Common pipistrelle	HNS – commuting / foraging
04:36	Common pipistrelle	HNS – commuting / foraging
04:37	Common pipistrelle	HNS – commuting / foraging
04:40	Common pipistrelle	HNS – commuting / foraging
04:41	Common pipistrelle	HNS – commuting / foraging
04:53	Common pipistrelle	HNS – commuting / foraging
04:57	Common pipistrelle	HNS – commuting / foraging
05:00	Myotis	HNS – commuting
05:01	Common pipistrelle	HNS – commuting / foraging
05:05	Common pipistrelle	HNS – commuting / foraging
05:06	Common pipistrelle	HNS – commuting / foraging
05:10	Common pipistrelle	HNS – commuting / foraging
05:12	Common pipistrelle	HNS – commuting / foraging
05:23	Common pipistrelle	HNS – commuting / foraging
05:24	Common pipistrelle	Foraging around north-eastern side of building
05:25	Common pipistrelle	Foraging around north-eastern side of building
05:26	Common pipistrelle	Foraging around north-eastern side of building
05:27	Common pipistrelle	Foraging around northern side of building
05:28	Common pipistrelle	Foraging / circling around northern corner of building
05:29	Common pipistrelle	Foraging / circling around northern corner of building
05:30	Common pipistrelle	Foraging / circling around northern corner of building

22nd August 2017 - Dusk Survey Results

Time	Species	Comments
05:31	Common pipistrelle	Foraging / circling around northern corner of building
05:32	Common pipistrelle	Foraging / circling around northern corner of building
05:33	Common pipistrelle	Foraging / circling around northern corner of building
05:34	Common pipistrelle	Foraging / circling around northern corner of building
05:35	Common pipistrelle	Foraging / circling around northern corner of building
05:36	Common pipistrelle	Foraging / circling around northern corner of building
05:37	Common pipistrelle	Foraging / circling around northern corner of building
05:38	Common pipistrelle	Foraging / circling around northern corner of building
05:39	Common pipistrelle	Foraging / circling around northern corner of building
05:40	Common pipistrelle	Foraging / circling around northern corner of building
05:42	Common pipistrelle	Commuting southwards down east side of building

Appendix B

RELEVANT LEGISLATION AND PLANNING POLICY



ENGLAND & WALES LEGISLATION AND POLICY CONTEXT

This report has been compiled with reference to relevant wildlife legislation, planning policy and the UK Biodiversity Framework. An overview and context of relevant legislation is provided, with the relevant protection each species groups or species receives summarised in Table 1.

THE WILDLIFE AND COUNTRYSIDE ACT 1981, (AS AMENDED) (WCA)

All species of bats are listed under Schedules 5 of the WCA, a description of this Schedule and its meaning is provided below.

Schedule 5

Species listed in Schedule 5 can either be fully protected or be partially protected under Section 9, which makes it unlawful to intentionally:

- Part 1: kill, injure or take;
- Part 2: possess or control (live or dead animal, part or derivative);
- Part 4 (a): damage or destruct any structure used for shelter or protection;
- Part 4 (b): disturb them in a place of shelter or protection;
- Part 4 (c): obstruct access to place of shelter or protection;
- Part 5 (a): sell, offer for sale, possess or transport for the purpose of sale (live or dead animal, part or derivative);
- Part 5 (b): advertise for buying or selling.

COUNTRYSIDE RIGHTS OF WAY ACT 2000 (CROW ACT)

The CRoW Act has amended the WCA in England and Wales strengthening the protection afforded to Sites of Special Scientific Interest (SSSI) and the legal protection for threatened species. It adds the word 'reckless' to the wording of the offences listed under Section 9(4) of the WCA. This alteration makes it an offence to recklessly commit an offence, where previously an offence had to be intentional to result in a breach of legislation.

NATURAL ENVIRONMENT AND RURAL COMMUNITIES (NERC) ACT 2006

Species and Habitats of Principal Importance in England and Wales are listed under Section 41 and Section 42 respectively of the NERC Act. The Section 41 and 42 lists detail species that are of principal importance for the conservation of biodiversity in England and Wales, and should be used to guide decision-makers such as local and regional authorities when implementing their duty to have regard for the conservation of biodiversity in the exercise of their normal functions – as required under Section 40 of the NERC Act 2006.

THE UK POST-2010 BIODIVERSITY FRAMEWORK (2011-2020) (JNCC AND DEFRA, 2012)

This Framework lists the UK's most threatened species and habitats and sets out targets and objectives for their management and recovery. The UK Biodiversity Action Plan (BAP) process is delivered nationally, regionally and locally and should be used as a guide for decision-makers to have regards for the targets set by the framework and the goals they aim to achieve. The UK BAP has now been replaced by the UK Post-2010 Biodiversity



Framework, however, it contains useful information on how to characterise important species assemblages and habitats which is still relevant (UK Post-2010 Biodiversity Framework, 2012¹).

THE CONSERVATION OF HABITATS AND SPECIES REGULATIONS 2010 (AS AMENDED)

The EC Habitats Directive and EC Birds Directive is transposed into UK law via the Conservation of Habitats and Species Regulations 2010 (as amended), referred to as the Habitats Regulations. All species listed under Annex IV of the Habitats Directive require strict protection and are known as European Protected Species (EPS).

Under Regulation 41 of the Habitats Regulations it is unlawful to:

- Deliberately kill, capture or disturb;
- Deliberately take or destroy the eggs of; and
- Damage or destroy the breeding site/resting place of any species protected under this legislation.

If the Ecologist determines that impacts to an EPS are unavoidable then the works may need to be carried out under a site specific mitigation licence from Natural England (NE) or Natural Resources Wales (NRW). Low Impact Class licences are also available in both England and Wales for bats and great crested newts. This enables Registered Low Impact Consultants to undertake certain low impact activities reducing the EPS application paperwork and process length.

Certain EPS are also listed under Annex II of the Habitats Directive and are afforded protection by the establishment of core areas of habitat known as Special Areas of Conservation. This means these species are a relevant consideration in a Habitats Regulations Assessment (HRA).

¹ JNCC and Defra (on behalf of the Four Countries' Biodiversity Group), July 2012, UK Post-2010 Biodiversity Framework, Available from: http://jncc.defra.gov.uk/pdf/UK_Post2010_Bio-Fwork.pdf [Accessed 09.10.2017].

RELEVANT NATIONAL AND LOCAL PLANNING POLICY

The ODPM circular 06.2005 remains current, and in relation to protected species, it states that ‘the presence of a protected species is a material consideration when a planning authority is considering a development proposal’. At a local level, the Local Plan states that the aim ‘is to maintain and enhance the quality of the Borough’s landscapes and biodiversity features’ and to ‘have minimal impacts on biodiversity’.

Policy EN12: BIODIVERSITY AND THE GREEN NETWORK of the Draft Reading Local Plan States “On all sites, development should not result in a net loss of biodiversity and geodiversity, and should provide a net gain for biodiversity wherever possible. Development should:

Protect and where possible enhance features of biodiversity interest on and adjacent to the application site, incorporating and integrating them into development proposals where practicable; and

Provide new tree planting, wildlife friendly landscaping and ecological enhancements (such as wildlife ponds, bird and bat boxes) where practicable.



Mountbatten House
Basing View
Basingstoke, Hampshire
RG21 4HJ

wsp.com