

Ascerta

Landscape, Arboricultural & Ecological Solutions
for the Built Environment

Breeding Bird Survey Report

Land at Stakehill,
M24 2SH

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Breeding Bird Survey Report

Of

Land at Stakehill
M24 2SH

For

Redrow Ltd, Valerie Drake, Robert Allen & John Thomas Allen, June Greenwood, Willie Green & Mark Greenwood, David Andrew Tetlow and Amanda Jane Tetlow

6th October 2023

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EXECUTIVE SUMMARY

Nine breeding bird surveys have been carried out at the Land at Stakehill between February and August 2023. The assessment comprised a desk study and biological records search, as well as transect surveys in order to map breeding bird activity on the site. The assessment provides baseline data as to current site conditions and where appropriate allows recommendations to be made in respect of further potential work in order to satisfy current wildlife legislation.

The site lies south of junction 20 on the M62 carriageway, located south of Rochdale and is bound by Thornton New Road to the north, the A672 to the east, Manchester Road (A664) to the west and Slattocks Link Road (A664) to the south. The habitats on site comprise semi-improved grassland of varying species richness, improved grassland, hedgerows, waterbodies and watercourses, scrub, scattered trees and tall ruderal vegetation. The Rochdale Canal SSSI/SAC lies approximately 200m west of the site.

A total of 48 bird species were recorded within the site including 12 Greater Manchester BAP (GMBAP) Species, 35 Supplementary Species, 23 Birds of Conservation Concern (BoCC) with 10 red listed species and 13 amber listed species.

Designated GMBAP species lapwing was **confirmed breeding**. Skylark and starling are considered **probably breeding** and bullfinch, chaffinch, greenfinch, goldfinch, house sparrow, linnet and song thrush are considered **possibly breeding**.

GMBAP species lapwing and skylark are likely to be impacted by the proposals due to the loss of nesting habitat. It is recommended that areas of retained habitats within the site are suitably managed to support these species. Further management measures could be put in place to limit access by the public to areas specifically managed for farmland birds, predominately in nesting season, to minimise disturbance to these species. It is further recommended that notice boards should be installed, to encourage responsible use of these habitats, providing alternative areas for recreation as well as requesting dogs are kept on leads during nesting season. Ultimately, the proposals will result in a loss of nesting habitat for lapwing and skylark and offsite mitigation on neighbouring farmland may be required if on-site mitigation cannot be met, however this would require agreement with a third-party landowner.

As works within the site will be phased, suitable nesting habitat will be retained within the site during construction phase. Nesting boxes could be installed in retained trees and hedgerows in areas away from construction, to provide alternative nesting habitat during the works. As well as areas of POS, wildlife areas including wetland and marsh areas, proposed woodland and new hedgerows, there will be further opportunity to further enhance the site for bird species with the installation of bird boxes into newly developed buildings.

To avoid impact on breeding birds during construction phase, if works cannot take place outside of the nesting bird season (March – August inclusive) a nesting bird check carried out by a qualified ecologist will be required. If any nests are identified, suitable buffer zones established will need to be established and all works within the locality will need to cease until young have fledged.

1.0 Introduction

Ascerta has been instructed by Redrow Ltd, Valerie Drake, Robert Allen & John Thomas Allen, June Greenwood, Willie Green & Mark Greenwood, David Andrew Tetlow and Amanda Jane Tetlow Boyer Planning to carry out breeding bird surveys at the site Land at Stakehill, M24 2SH (hereafter referred to as the site). The OS Grid Reference is SD 89167 09404 and the What3Words reference is tuck.hotel.feel.

Breeding bird surveys at the site have been carried out on 28th February 2023, 23rd March 2023, 25th April 2023, 31st May 2023, 14th June 2023, 5th July 2023, 28th July 2023 and 9th August 2023 and were carried out by suitably qualified ecologists Lizzie Atkinson, Liz Kenyon and Jack Kay.

The surveys followed the British Trust for Ornithology (BTO) survey guidance for breeding birds (Field & Gregory, 1999). Due to the size of the site, the survey method was adapted with one surveyor walking a planned transect route around the full area of the site with a second surveyor at four vantage points across the site. Surveyors then listed all bird species observed during the surveys and flight lines of target species were recorded. Bird species are listed using BTO coding. The breeding status (**confirmed, probable, possible, non-breeding**) of all bird species recorded during the breeding bird surveys was established.

This report presents the results of the surveys and includes recommendations for further actions where applicable in order to satisfy current wildlife legislation and in order to achieve our client's objectives.

2.0 Objectives

Our client's objectives are to establish ecological constraints to the development of the site.

Our objectives are as follows:

- Carry out breeding bird surveys within the site;
- Identify designated sites within 2km of the site;
- Review protected species records within 2km of the site;
- Provide recommendations that seek to enhance the ecological value of the site for breeding birds if relevant; and
- Provide recommendations to assist our clients in achieving their objectives whilst satisfying current wildlife legislation.

3.0 Relevant Legislation

The key UK legislation is the Wildlife and Countryside Act 1981 (as amended by the Countryside Rights of Way Act 2000) which consolidates and amends existing national legislation to implement the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) and Council Directive 79/409/EEC on the Conservation of Wild Birds (Birds Directive) in Great Britain. It is complemented by the Conservation of Habitats and Species Regulations 2010, which implements Council Directive 92/43/EEC on the conservation of natural habitats and of wild fauna and flora (EC Habitats Directive). The Regulations provide for the designation and protection of 'European sites', and the protection of 'European protected species'.

The NPPF

The National Planning Policy Framework (NPPF) 2021 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.

Biodiversity Action Plan Species

Background information about the lists of priority species (Species 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 species have 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 survey area is the Greater Manchester Biodiversity Action Plan.

Local Legislation

The site lies within Middleton and is covered by the Rochdale Core Strategy (adopted October 2016). Policies G4 and G7 regarding greenbelt protection and biodiversity are particularly relevant.

4.0 Survey Methods

4.1 Breeding Bird Survey

Record Search

The local biological records centre Greater Manchester Ecology Unit (GMEU) was consulted for records of birds within 2km of the site. The results are assessed within the Ecological Appraisal (*P.1172.19B Ascerta Preliminary Ecological Appraisal, Manchester Road, Slattocks*).

Transect and Vantage Points

The survey method followed the British Trust for Ornithology (BTO) survey guidance for breeding birds (Field & Gregory, 1999). Breeding bird surveys (BBS) use 1km squares within the National Grid. Due to the site being outside of the two 1km routes that are normally used, a transect of the site was followed by one surveyor with a second surveyor stopping at four vantage points across the site for observations (see drawing P.1221.19.28, Appendix 1). Surveyors then listed all bird species observed during the surveys and flight lines were recorded. Bird species are listed using BTO coding.

Surveyors

The surveys carried out on 28th February and 23rd March were conducted by suitably qualified ecologists Liz Kenyon, Lizzie Atkinson and Jack Kay. Surveys conducted on 25th April, 25th May, 31st May, 14th June, 5th July, 28th July and 9th August 2023 were all carried out by Lizzie Atkinson and Jack Kay.

Timings and Weather

The surveys were carried out in February, March, April, May, June, July and August 2023. All surveys a minimum of two hours and thirty minutes. Surveys start 30 minutes after sunrise and were concluded by mid-morning. Two surveys were carried out during the last few hours of the day and extending beyond sunset for one hour to detect species difficult identify during the day. The survey dates, times and weather conditions are presented in table 5.1.

Mapping

Bird flight lines were mapped on paper in the field. These were drawn on using QGIS software for the report as appropriate.

Greater Manchester Biodiversity Action Plan (BAP) Species

Target bird species that are designation features of Greater Manchester BAP include black redstart, twite, willow tit and farmland birds. A list of farmland birds was compiled from the RSPB website and after consultation with Greater Manchester Ecology Unit (GMEU). Farmland bird species include barn owl, bullfinch, chaffinch, corn bunting, cuckoo, curlew, goldfinch, greenfinch, grey partridge, golden plover, house sparrow, lapwing, lesser redpoll, linnet, little owl, meadow pipit, mistle thrush, pied wagtail, reed bunting, rook, skylark, snipe, song thrush, starling, stonechat, stock dove, tree sparrow, willow tit, whinchat, yellowhammer and yellow wagtail. All other supplementary bird species were noted but not analysed in detail within this report.

The breeding status (**confirmed, probable, possible, non-breeding**) of all bird species recorded during the breeding bird surveys is confirmed within the result section (Section 5.2).

Only flight lines for target species are recorded within the drawings within Appendix 1.

4.2 Limitations

Vantage point 2 was adjusted from the survey conducted on 5th July 2023 onwards (see drawing, P.1172.19.41 Breeding Bird Survey 05.07.23, Appendix 1). This was due to the presence of cattle within field F4 and the associated safety concerns.

The surveys were undertaken in suitable weather conditions at the appropriate time of year. There are no limitations that may affect the conclusions of the report.

5.0 Survey Results and Evaluation

5.1 Survey Timings and Weather Conditions

Table 5.1: Breeding Bird Survey Times and Weather Conditions.

Date	Survey number	Sunrise/Sunset	Start	End	Temperature (°C) start/end	Cloud cover (°/8)	Wind (Beaufort Scale)	Precipitation
28 th February 2023	1	07:00	07:30	10:15	4/7	6/8	F1	Dry
23 rd March 2023	2	06:05	06:35	09:05	7/9	4/8	F2	Dry
25 th April 2023	3	20:28	18:45	21:30	9/7	2/8	F0	Dry
25 th May 2023	4	04:55	05:25	08:10	11/15	4/8	F0	Dry
31 st May 2023	5	04:57	05:27	08:12	10/12	6/8	F1	Dry
14 th June 2023	6	04:39	05:09	07:54	13/16	0/8	F1	Dry
5 th July 2023	7	21:39	19:50	22:40	18/13	0/8	F2	Dry
28 th July 2023	8	06:27	05:47	08:45	15/17	8/8	F0	Dry
9 th August 2023	9	05:37	06:07	08:52	11/14	4/8	F0	Dry

5.2 Survey Results

A total of 48 bird species were recorded within the site including 12 Greater Manchester BAP Species, 35 Supplementary Species, 23 Birds of Conservation Concern (BoCC) with 10 red listed species and 13 amber listed species.

Greater Manchester BAP Species

Bullfinch (UK Amber Listed)

Bullfinch were recorded during two out of nine breeding bird surveys. A peak count of two birds were recorded by surveyor LA within fields F19 and F20 during the transect survey on 14th June 2023 (See drawing *P.1172.19.40 Breeding Bird Transect Survey 14.06.23*, Appendix 1). Birds were recorded foraging and perching within hedgerows. Suitable nesting habitat is present within the site. The breeding status for bullfinch within the site is listed as **possible breeding**.

Chaffinch

Chaffinch were recorded during three out of nine breeding bird surveys. A peak count of five birds were recorded by surveyor JK at VP4 on 14th June 2023 (See drawing P.1172.19.39 *Breeding Bird Survey 14.06.23*, Appendix 1). Activity was concentrated with hedgerows that lie within the site. There is nesting habitat for the species within the site. The breeding status for chaffinch within the site is listed as **possible breeding**.

Goldfinch

Goldfinch were recorded within the site during eight out of nine breeding bird surveys. A peak count of 8 birds were recorded by surveyor JK at viewpoint VP3 on 31st May 2023 (See drawing P.1172.19.37 *Breeding Bird Survey 31.05.23*, Appendix 1). Birds were recorded foraging, resting, singing and flying over site with activity concentrated predominately in hedgerows within the site. Suitable nesting habitat is present within the site. The breeding status for goldfinch within the site is listed as **possible breeding**.

Greenfinch (UK Red listed)

Greenfinch were recorded during two out of nine breeding bird surveys. A peak count of 4 birds were recorded within field F15 by surveyor LA during the transect survey on 25th May 2023 (See drawing P.1172.19.36 *Breeding Bird Transect Survey 25.05.23*, Appendix 1). Birds were recorded perching within hedgerow within the site. Suitable nesting habitat is present within the site. The breeding status for greenfinch within the site is listed as **possible breeding**.

House sparrow (UK Red Listed)

House sparrow were recorded within the site during six out of nine breeding bird surveys. A peak count of eight birds were recorded by surveyor JK at VP3 on 28th February 2023 (see drawing P.1172.19.29 *Breeding Bird Survey 28.02.23*, Appendix 1). Birds were recorded foraging and flying over site with activity concentrated predominately in hedgerows within the site. Suitable nesting habitat is present within the site. The breeding status for house sparrow within the site is listed as **possible breeding**.

Lapwing (UK Red Listed)

Lapwing were recorded within the site during breeding bird surveys six out of nine surveys. A peak count of 33 birds were recorded by surveyor JK at vantage point VP3 on 23rd March 2023 (See drawing P.1172.19.31 *Breeding Bird Survey 23.03.23*, Appendix 1). Birds were identified foraging, resting, displaying and flying over site and activity was concentrated to the northern half of the site within fields F2, F3, F4, F5, F6, F10 and F12 during the transect surveys.

Nesting habitat for the species is present within the site and a lapwing nest has previously been identified within field F12 during nocturnal bat activity surveys (Ascerta report P.1172.19 *Bat Nocturnal Surveys and Static Detector Deployment, December 2022*). Following the breeding bird surveys, whilst nesting birds were not recorded during the surveys, due to nesting birds identified the year previous, the breeding status for lapwing within the site is listed as **confirmed breeding**.

Linnet (UK Red Listed)

Linnet was recorded during one out of nine breeding bird surveys. A single bird was recorded singing in hedgerow that borders field F15 during the transect survey on 28th July 2023 (See drawing P.1172.19.44 *Breeding Bird Transect Survey 28.07.23*, Appendix 1). There is nesting habitat for the species within the site. The breeding status for linnet within the site is listed as **possible breeding**.

Pied wagtail

Pied wagtail were recorded during two out of nine breeding bird surveys. Both birds were recorded by surveyor LA foraging in field F5 during the transect survey on 25th April 2023 and 31st May 2023 (See drawings P.1172.19.34 *Breeding Bird Transect Survey 25.04.23* and P.1172.19.38 *Breeding Bird Transect Survey 31.05.23*, Appendix 1). There is limited nesting habitat for the species within the site. The breeding status for pied wagtail within the site is listed as **non-breeding**.

Skylark (UK Red Listed)

Skylark were recorded during four out of nine breeding bird surveys. A peak count was recorded of four birds were recorded by surveyor JK at VP3 on 14th June 2023 (See drawing P.1172.19.39 *Breeding Bird Survey 14.06.23*, Appendix 1). Suitable nesting habitat is present within the site. Probable breeding territories were recorded within fields F10, F11 and F18 with bird observed displaying. The breeding status for skylark within the site is listed as **probable breeding**.

Song thrush (UK Amber Listed)

Song thrush were recorded within the site during six out of nine breeding bird surveys. A peak count of eight birds were recorded by surveyor JK at VP1 on 23rd March 2023. Birds were recorded foraging, resting, singing and flying over site with activity concentrated predominately in hedgerows within the site. Suitable nesting habitat is present within the site. The breeding status for song thrush within the site is listed as **possible breeding**.

Starling (UK Red Listed)

Starling were recorded within the site during nine out of nine the breeding bird surveys. A peak count of 54 birds was recorded by surveyor JK at VP3 also on 31st May 2023 (See drawing P.1172.19.31 *Breeding Bird Survey 23.03.32*, Appendix 1). Birds were recorded foraging and flying over site with activity. Starling fledglings were noted within field F2 during the transect survey on 25th May 2023. Suitable nesting habitat is present within the site. The breeding status for starling within the site is listed as **probable breeding**.

Willow tit (UK Red listed)

A willow tit was recorded during one out of nine breeding bird surveys. The bird was recorded at VP3 by surveyor JK within a hedgerow on 25th April 2023 (see drawing P.1172.19.33 *Breeding Bird Survey 25.04.23*, Appendix 1). There is limited nesting habitat for the species within the site. The breeding status for willow tit within the site is listed as **non-breeding**.

Supplementary Species

Blackbird

Blackbird were identified during nine out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for blackbird within the site is listed as **possible breeding**.

Blackcap

Blackcap were identified during two out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for blackcap within the site is listed as **possible breeding**.

Black-headed gull (UK Amber Listed)

Black-headed gull were identified during nine out nine breeding bird surveys. Limited nesting habitat is present within the site. The breeding status for black-headed gull within the site is listed as **non-breeding**.

Blue tit

Blue tit were identified during seven out nine breeding bird surveys. Suitable nesting habitat is present within the site and blue tit chicks were identified within a fence post that borders field F19 on 31st May 2023. The breeding status for blue tit within the site is listed as **confirmed breeding**.

Buzzard

Buzzard were identified during four out nine breeding bird surveys. There is limited nesting habitat is present within the site. The breeding status for buzzard within the site is listed as **possible breeding**.

Carrion crow

Carrion crow were identified during nine out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for carrion crow within the site is listed as **possible breeding**.

Canada goose

Canada goose were identified during seven out nine breeding bird surveys. Suitable nesting habitat is present within the site and breeding pairs with goslings were noted in field F19 during the survey on 25th May 2023. The breeding status for Canada goose within the site is listed as **confirmed breeding**.

Chiffchaff

Chiffchaff were identified during two out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for chiffchaff within the site is listed as **possible breeding**.

Coal tit

Coal tit was identified during one out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for coal tit within the site is listed as **possible breeding**.

Collared dove

Collared dove was identified during three out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for collared dove within the site is listed as **possible breeding**.

Common gull (UK Amber Listed)

Black-headed gull were identified during six out nine breeding bird surveys. Limited nesting habitat is present within the site. The breeding status for common gull within the site is listed as **non-breeding**.

Common sandpiper (UK Amber Listed)

Common sandpiper were identified during two out nine breeding bird surveys. Nesting habitat is not present within the site. The breeding status for common gull within the site is listed as **non-breeding**.

Coot

Coot were identified during one out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for coot within the site is listed as **possible breeding**.

Dunnock (UK Amber Listed)

Dunnock was identified during three out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for dunnock within the site is listed as **possible breeding**.

Feral pigeon

Feral pigeon was identified during one out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for feral pigeon within the site is listed as **possible breeding**.

Greater black-backed gull (UK Amber Listed)

Greater black-backed gull were identified during eight out nine breeding bird surveys. Nesting habitat is not present within the site. The breeding status for greater black-backed gull within the site is listed as **non-breeding**.

Great tit

Great tit were identified during seven out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for great tit within the site is listed as **possible breeding**.

Grey heron

Grey heron were identified during three out nine breeding bird surveys. Nesting habitat is not present within the site. The breeding status for herring gull within the site is listed as **non-breeding**.

Herring gull (UK Red Listed)

Herring gull were identified during eight out nine breeding bird surveys. Nesting habitat is not present within the site. The breeding status for herring gull within the site is listed as **non-breeding**.

House martin (UK Red Listed)

House martin were identified during four out nine breeding bird surveys. Suitable nesting habitat is limited within the site. The breeding status for house martin within the site is listed as **non-breeding**.

Jackdaw

Jackdaw were identified during eight out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for jackdaw within the site is listed as **possible breeding**.

Kestrel (UK Amber Listed)

Kestrel were identified during four out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for kestrel within the site is listed as **possible breeding**.

Lesser black-backed gull (UK Amber Listed)

Lesser black-backed gull were identified during nine out nine breeding bird surveys. Nesting habitat is not present within the site. The breeding status for lesser black-backed gull within the site is listed as **non-breeding**.

Long-tailed tit

Long-tailed tit were identified during one out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for long-tailed tit within the site is listed as **possible breeding**.

Magpie

Magpie were identified during nine out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for magpie within the site is listed as **possible breeding**.

Mallard (UK Amber Listed)

Mallard were identified during eight out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for mallard within the site is listed as **possible breeding**.

Moorhen (UK Amber Listed)

Moorhen were identified during three out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for moorhen within the site is listed as **possible breeding**.

Oystercatcher (UK Amber Listed)

Oystercatcher were identified during five out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for oystercatcher within the site is listed as **possible breeding**.

Peregrine Falcon

Peregrine falcon was identified during one out nine breeding bird surveys. There is no suitable nesting habitat present within the site. The breeding status for peregrine falcon within the site is listed as **non-breeding**.

Pheasant

Pheasant were identified during seven out nine breeding bird surveys. There is limited nesting habitat present within the site. The breeding status for pheasant within the site is listed as **non-breeding**.

Robin

Robin were identified during one out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for robin within the site is listed as **possible breeding**.

Swallow

Swallow were identified during seven out nine breeding bird surveys. Suitable nesting habitat is limited within the site. The breeding status for swallow within the site is listed as **non-breeding**.

Swift (UK Red Listed)

Swift were identified during five out nine breeding bird surveys. Suitable nesting habitat is limited within the site. The breeding status for swift within the site is listed as **non-breeding**.

Wood pigeon (UK Amber Listed)

Wood pigeon were identified during nine out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for wood pigeon within the site is listed as **possible breeding**.

Wren (UK Amber Listed)

Wren were identified during six out nine breeding bird surveys. Suitable nesting habitat is present within the site. The breeding status for wren within the site is listed as **possible breeding**.

The total number of bird species recorded during the breeding bird surveys can be viewed in Appendix 2. The full results for each breeding bird survey can be found in Appendix 3 and relevant drawings can be found in Appendix 1.

Other wildlife

During the breeding bird survey on 28th February 2023, brown hare were noted within fields F2, F20, F11, F12 and F21.

During the breeding bird survey on 23rd March 2023, brown hare were noted within fields F18, F7, F2, F9, F12, F15, F19 and F21.

During the breeding bird survey on 25th May 2023, brown hare were noted within fields F2, F3, F4, F5, F10, F17, F18 and F21.

During the breeding bird survey on 31st May 2023, brown hare was noted within fields F2, F4, F5, F15, F16, F17, F18, F19. Rabbit was noted within fields F23, F21, F19, F3 and F5.

During the breeding bird survey on 14th June 2023, brown hare was noted within fields F2, F3, F4, F12 and F18. Rabbit was noted within fields F15, F21 and F23. Roe deer was recorded within field F18.

During the breeding bird survey on 5th July 2023, brown hare was noted within fields F10, F11, F16 and F18.

During the breeding bird survey on 28th July 2023, brown hare was noted within fields F4, F15 and F16. Rabbit was noted within fields F21 and F23.

6.0 Conclusions & Recommendations

A total of 48 bird species were recorded within the site including 12 Greater Manchester BAP Species, 35 Supplementary Species, 23 BoCC with 10 red listed species and 13 amber listed species.

GMBAP species lapwing were **confirmed breeding**. Skylark and starling are considered **probably breeding** and bullfinch, chaffinch, greenfinch, goldfinch, house sparrow, linnet and song thrush are considered **possibly breeding** within the site due to behaviour, suitable nesting habitat present, and number of birds recorded throughout the surveys.

Additionally, supplementary species blue tit and Canada goose were **confirmed breeding** and a further twenty species are considered **possibly breeding** within the site due to behaviour, suitable nesting habitat present, and number of birds recorded throughout the surveys.

GMBAP species

GMBAP species lapwing and skylark were recorded during the breeding bird surveys and the breeding status of lapwing was considered to as **confirmed** and skylark was considered as **probable breeding** due to behaviour observed during the breeding bird surveys as well as historical data collected during bat activity surveys in 2022.

The proposals will result in a loss of nesting and foraging habitats for species such as lapwing and skylark. The majority of lapwing activity was concentrated to the north of the site, which current plans indicate some areas are to be retained. Areas of public open space (POS) including Thornham wetlands and the marshes (see drawing 961-06h *Indicative Landscape proposals*, Appendix 4). within the northern area of the site will enhance the site for species such as lapwing as these habitats will provide areas of forage for lapwing and new chicks. Whilst lapwing activity was concentrated within the north of the site, areas of proposed POS towards the south of the site should be appropriately managed to encourage lapwing to utilise these habitats for nesting. This includes maintaining a short sward in spring and keeping areas open away from hedgerows and trees, making for more favourable nesting habitat for the species. Ultimately the proposals will result in a loss of nesting habitat for lapwing, particularly as the species tend to be nest site faithful, and offsite mitigation on neighbouring farmland may be required, however this would require agreement with a third-party landowner.

Skylark activity was concentrated within the north half of the site in fields F10, F11 and F18 which is due to be lost to the proposals it is therefore considered that the development will result in a loss of onsite skylark territory. It is recommended that habitats to be retained within areas of POS and wildlife areas are suitably managed to support species such as skylark. If on-site mitigation, through retention of habitats within areas of POS and wildlife areas to the north and south of the site, is not considered sufficient, offsite mitigation should be considered and on-site loss compensated through introduction of skylark plots on neighbouring arable land to the east of the developmental site, however this would require agreement with a third-party landowner.

It is recommended that areas of POS/wildlife areas are suitably managed for GMBAP species including lapwing and skylark. Where possible, areas should be managed under standard hay meadow management, which would comprise a single cut in August or September, which would provide more favourable habitat

for skylark and lapwing as well as other farmland bird species. Further management measures should be put in place to limit access by the public to areas specifically managed for farmland birds, predominately in nesting season, to minimise disturbance to these species. It is further recommended that notice boards installed, to provide responsible use of these habitats, providing alternative areas for recreation as well as requesting dogs are kept on leads during nesting season.

GMBAP species starling, were listed as **probably breeding**. It is considered that due to the retention of suitable habitats within the site, that the species will not be adversely impacted. The site could be further enhanced for the species through the installation of suitable bird boxes into new dwellings.

GMBAP species listed as **possibly breeding** including bullfinch, chaffinch, greenfinch, goldfinch, house sparrow linnet and song thrush are unlikely to be adversely impacted by the proposals due to the retention of existing hedgerows, where activity was concentrated, within the site which will continue to provide nesting habitat for these GMBAP species. It is recommended that these habitats are further enhanced and managed appropriately for nesting birds. The site is to be further enhanced for these species through areas of proposed woodland and hedgerows.

GMBAP species listed as **non-breeding** breeding including pied wagtail and willow tit are unlikely to be adversely impacted by the proposals due to the small of number of birds recorded during the breeding bird surveys. Areas of POS, including proposed woodland and hedgerows will further enhance the site for these species.

As works within the site will be phased, suitable nesting habitat will be retained within the site during construction phase. Nesting boxes could be installed in retained trees and hedgerows in areas away from construction, to provide alternative nesting habitat for species that favour cavity nesting such as GMBAP species starling and house sparrow. As well as areas of POS, wildlife areas including wetland and marsh areas, proposed woodland and new hedgerows, there will be further opportunity to further enhance the site for some bird species with the installation of bird boxes into newly developed buildings.

To avoid impact on breeding birds during construction phase, if works cannot take place outside of the nesting bird season (March – August inclusive) a nesting bird check carried out by a qualified ecologist will be required. If any nests are identified, suitable buffer zones established will need to be established and all works within the locality will need to cease until young have fledged.

GMBAP species black redstart and twite were not observed during the breeding bird surveys. GMBAP farmland bird species barn owl, corn bunting, cuckoo, curlew, grey partridge, golden plover, lesser redpoll, little owl, meadow pipit, mistle thrush, reed bunting, rook, snipe, stonechat, stock dove, tree sparrow, whinchat, yellowhammer and yellow wagtail were also not recorded within the site during the breeding bird surveys and it is considered that the proposals will not adversely impact these target species.

Supplementary species

Supplementary species blue tit and Canada goose were **confirmed** breeding within the site. It is considered that these species will not be adversely impacted by the proposals as the proposals will not result in a significant loss in suitable habitat for either species. The current ponds within the site, where Canada goose were predominately noted, are to be retained and the majority of hedgerows within the site, where blue tit were observed, are to be retained. The site will be further enhanced for these species with proposed areas of POS, wildlife areas including wetland and marsh areas, proposed woodland and new hedgerows.

Supplementary species, including BOCC species such as swift and house martin, as well as swallow were not recording breeding within the site due to the lack of suitable nesting habitat within the site. More favourable nesting habitat is available offsite to the west. The retained habitats as well as proposed areas of POS, wildlife areas including wetland and marsh areas, proposed woodland and new hedgerows enhancing the site for species to forage. There will be further opportunity to further enhance the site for these bird species with the installation of suitable bird boxes into newly developed buildings.

Supplementary species including BOCC and more common species including blackbird, blackcap, chiffchaff, coal tit, dunnock, great tit, long-tailed tit, robin, wren, carrion crow, collared dove, feral pigeon, magpie and jackdaw were listed as **possibly breeding** following the breeding bird surveys. It is considered that there will be no adverse impact on these species due to activity concentrated in retained habitats such as hedgerows. The proposed areas of POS, wildlife areas including wetland and marsh areas, proposed woodland and new hedgerows will enhance the site for species to forage and nest. There will be further opportunity to further enhance the site for some bird species with the installation of bird boxes into newly developed buildings.

Supplementary species buzzard, kestrel, peregrine falcon, common sandpiper, oystercatcher and grey heron are unlikely to be adversely impacted by the proposals due to retention of habitats within the site and because these species are predominately using the habitats within the site to forage and not breed. The site will be further enhanced for these species with proposed enhanced wildlife areas including wetland and marsh areas as well as areas of proposed woodland.

The proposals are unlikely to adversely impact BOCC including black-headed gull, common gull, herring gull, lesser black-backed gull and greater black-backed gull as no suitable nesting habitat is present within the site for these species with birds recorded flying over site only.

To avoid impact on breeding birds during construction phase, if works cannot take place outside of the nesting bird season (March – August inclusive) a nesting bird check carried out by a qualified ecologist will be required. If any nests are identified, suitable buffer zones established will need to be established and all works within the locality will need to cease until young have fledged.

7.0 References

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Appendix 1



Key

- Site boundary
- Transect route
- Vantage points

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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey Transect Route and Stop Points

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.28
DATE: 22/03/2023	CHKD BY: LK	REV:



Key

- Site boundary
- Transect route
- Vantage points
- Lapwing
- Greater Black Backed Gull
- Mallard
- Carrion Crow
- Magpie
- Wood Pigeon
- Blackbird
- Cormorant
- Jackdaw
- Robin
- Black-Headed Gull
- Lesser Black Backed Gull
- Great Tit
- Starling
- Kestrel
- House Sparrow

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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 28.02.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.29
DATE: 22/03/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- Transect route
- Flight lines 28.02.23

British Trust For Ornithology (BTO)
Species Code

L - Lapwing
SO - Song thrush
SG - Starling

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PROJECT:

Land at Stakehill

DRAWING TITLE:

Breeding Bird Survey 28.02.23

SCALE:

NTS@A3

DRAWN BY:

LA

DRAWING No:

P.1172.19.30

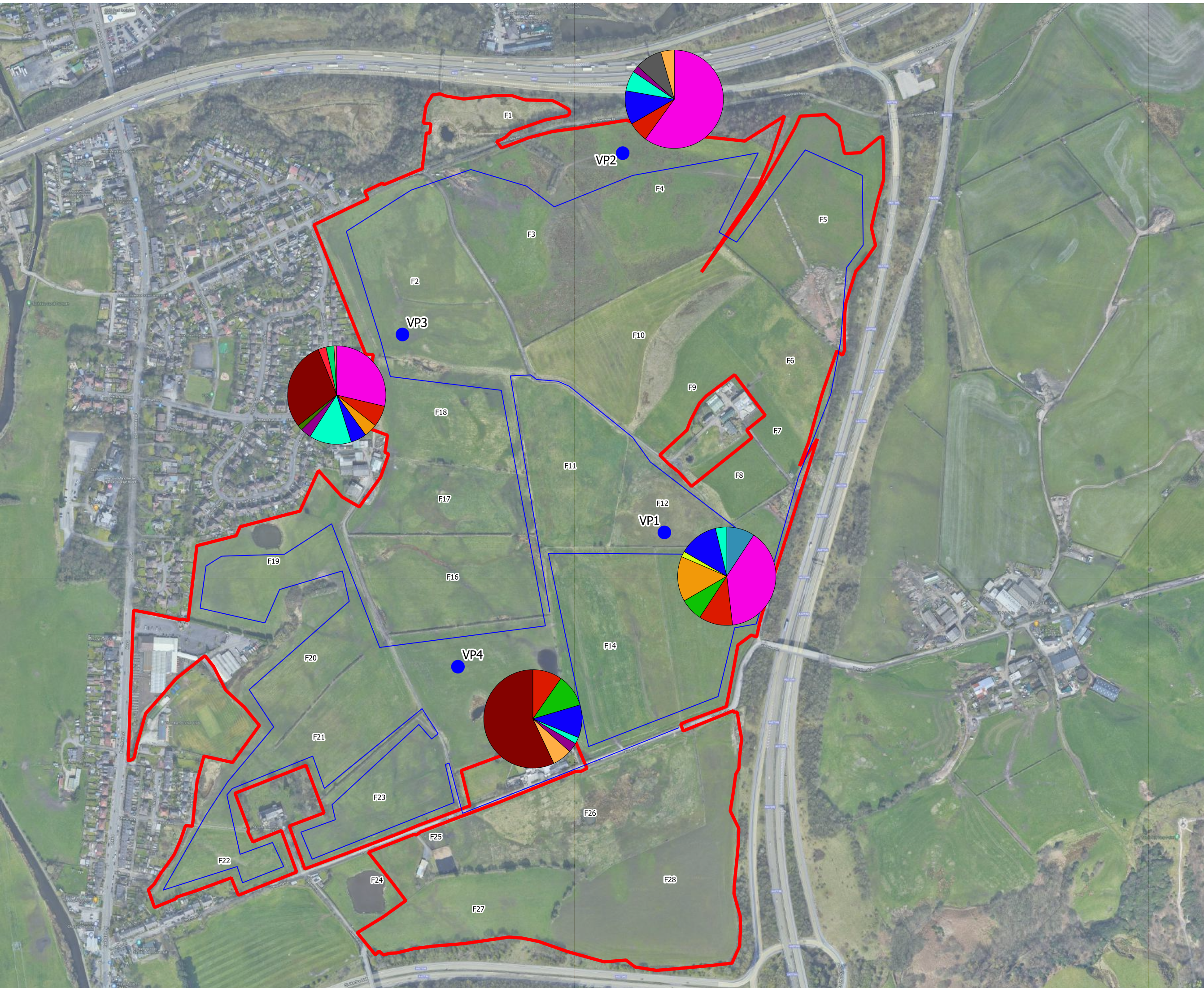
DATE:

31/03/2023

CHKD BY:

LK

REV:



Key

- Site Boundary
- BB Transect route
- BB Vantage point
- Greater black-back gull
- Lapwing
- Crow
- Lesser black-backed-gull
- Song thrush
- Cormorant
- Wood pigeon
- Magpie
- Blackbird
- Jackdaw
- Canada Goose
- House sparrow
- Starling
- Goldfinch
- Mallard
- Blue tit

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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 23.03.23

SCALE: NTS@A3	DRAWN 9K	DRAWING No: P.1172.19.31
DATE: 31/03/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- Transect route
- Flight lines 23.03.23

British Trust For Ornithology (BTO)
Species Code

GO - Goldfinch
L - Lapwing
SO - Song thrush
SG - Starling

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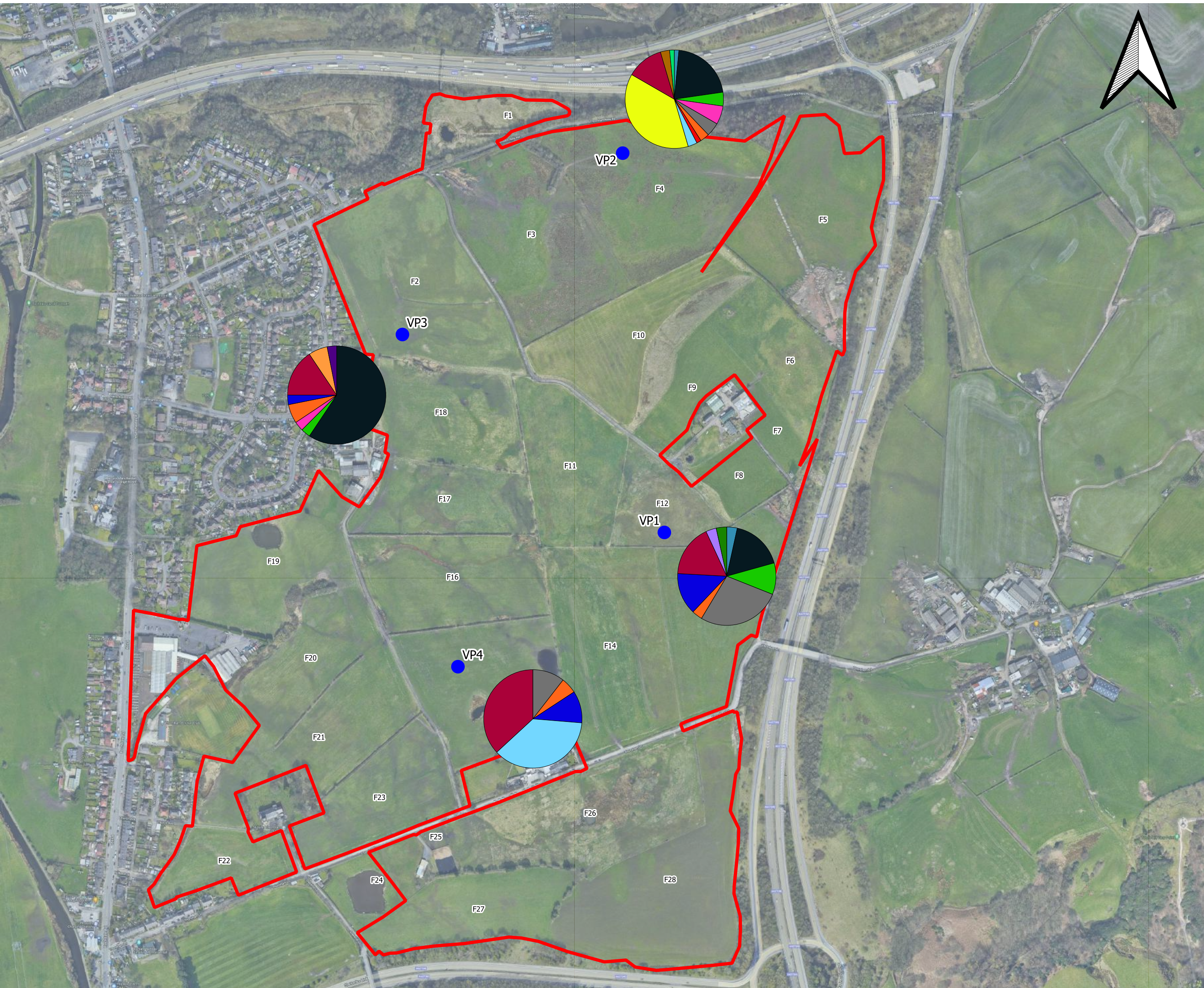
PROJECT:

Land at Stakehill

DRAWING TITLE:

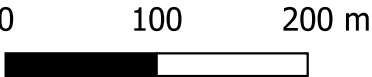
Breeding Bird Survey 23.03.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.32
DATE: 31/03/2023	CHKD BY: LK	REV:



Key

- Site boundary
- BB Vantage point
- Greater black-back gull
- Lapwing
- Crow
- Lesser black-backed-gull
- Wood pigeon
- Magpie
- Blackbird
- Jackdaw
- Canada Goose
- Starling
- Mallard
- Great tit
- Moorhen
- Pheasant
- Blackcap
- Willow tit
- Robin



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PROJECT:
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DRAWING TITLE:
Breeding Bird Survey 25.04.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.33
DATE: 26/04/2023	CHKD BY: LK	REV:



Key

- Site boundary
- Transect route
- Flight lines 25.04.23

British Trust For Ornithology
(BTO) Species Code

- BF - Bullfinch
- GO - Goldfinch
- L - Lapwing
- PW - Pied wagtail
- SO - Song thrush

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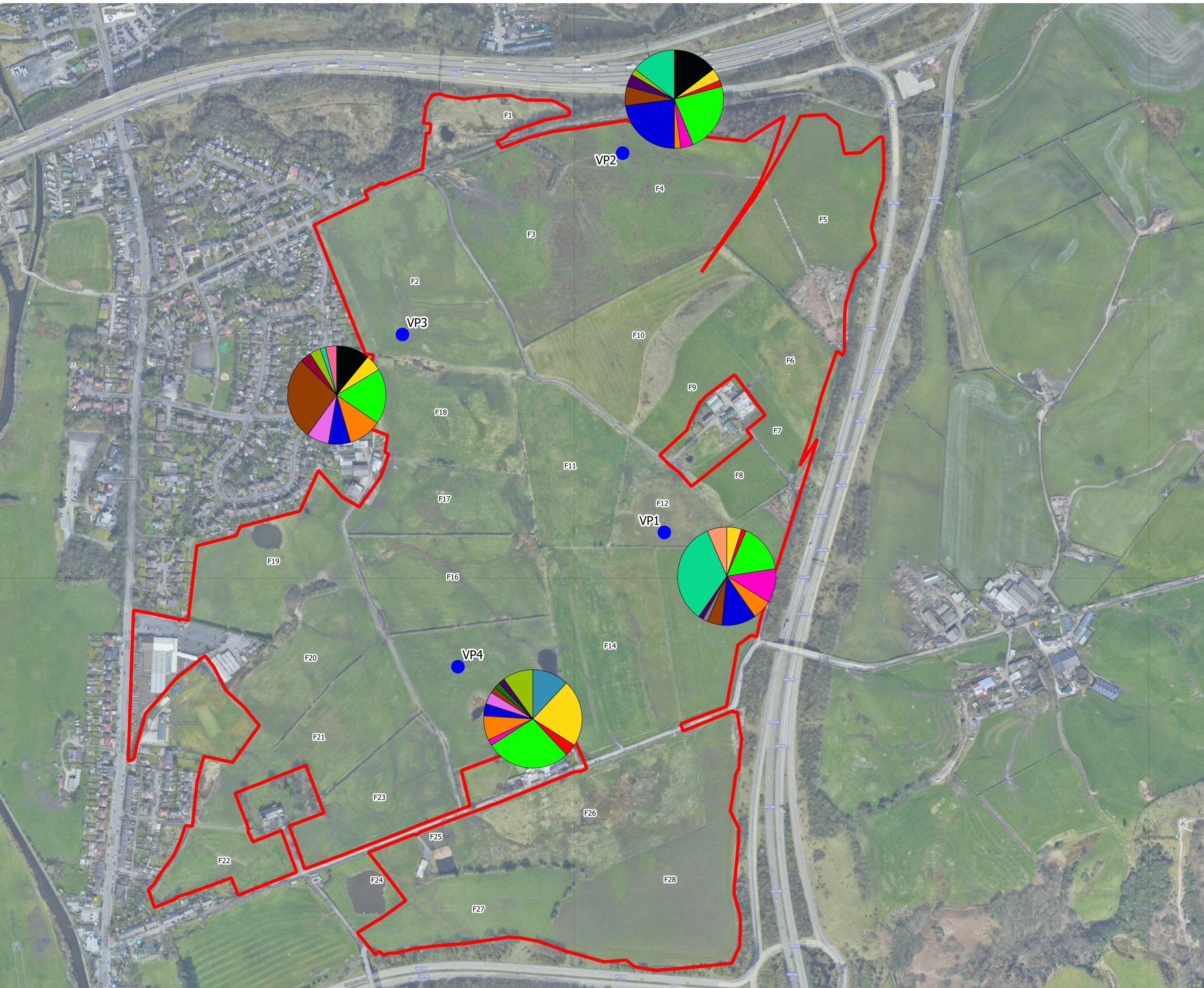
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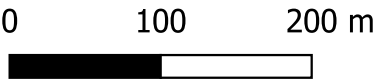
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SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.34
DATE: 26/04/2023	CHKD BY: LK	REV:



Key

- Site boundary
- BB Vantage point
- Greater black-back gull
- Lapwing
- Crow
- Lesser black-backed-gull
- Wood pigeon
- Magpie
- Blackbird
- Jackdaw
- Canada Goose
- Starling
- Mallard
- Great tit
- Pheasant
- Robin
- Goldfinch
- Swallow
- House Sparrow
- Skylark



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DRAWING TITLE:
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SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.35
DATE: 26/05/2023	CHKD BY: LK	REV:



Key

- Site boundary
- Transect route
- Flight lines 25.05.23

British Trust For Ornithology
(BTO) Species Code

- GO - Goldfinch
- GR - Greenfinch
- L - Lapwing
- SG - Starling

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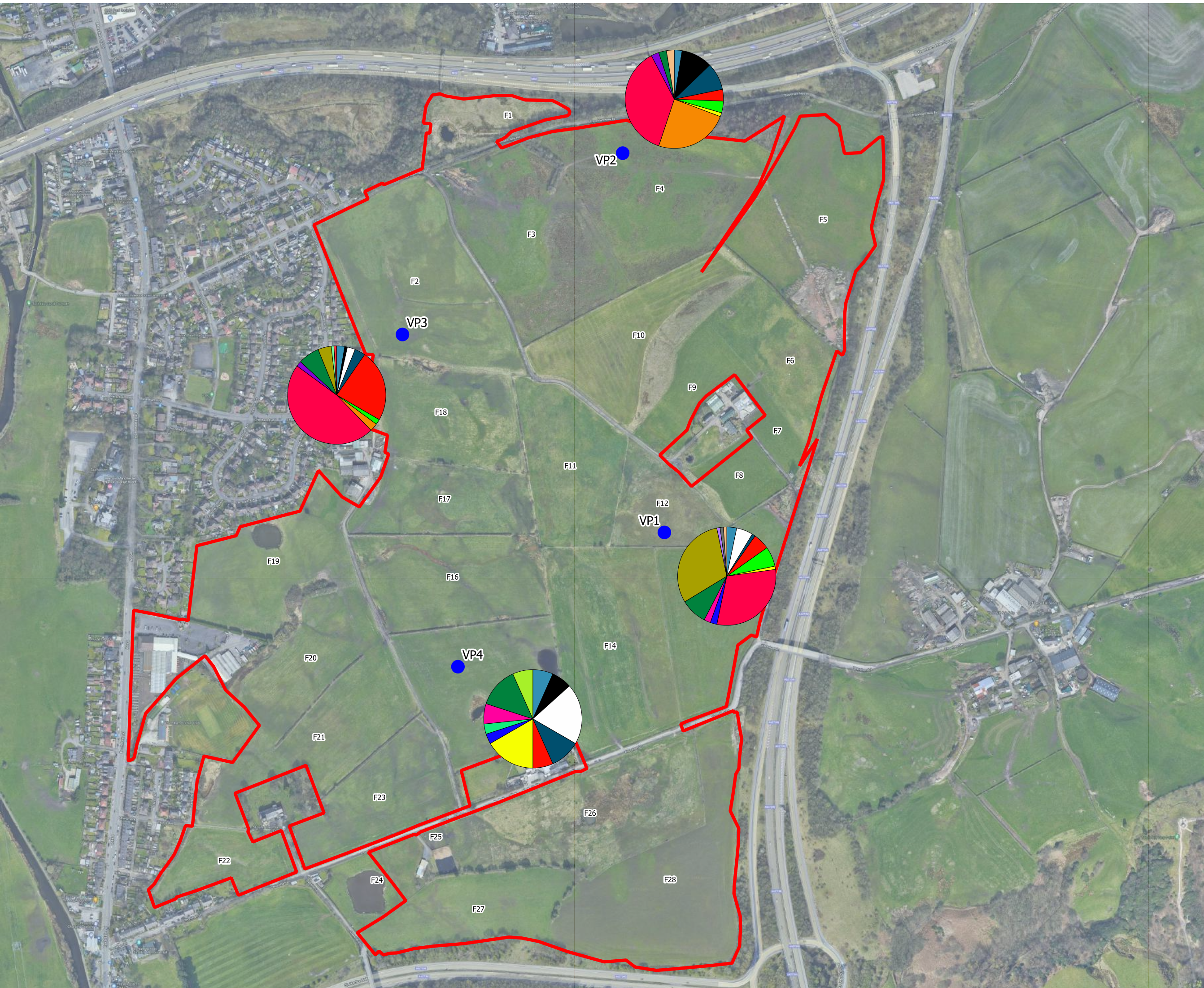
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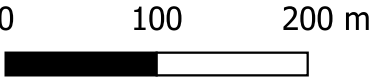
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SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.36
DATE: 25/05/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- BB Vantage point
- Greater black-back gull
- Lapwing
- Crow
- Lesser black-backed-gull
- Wood pigeon
- Magpie
- Blackbird
- Jackdaw
- Starling
- Mallard
- Great tit
- Pheasant
- Robin
- Goldfinch
- Swallow
- House Sparrow
- oystercatcher
- Kestrel
- Buzzard
- Black-headed gull
- Swift



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DRAWING TITLE:
Breeding Bird Survey 31.05.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.37
DATE: 01/06/2023	CHKD BY: LK	REV:



Key

- Site boundary
- Transect route
- Flight lines 31.05.23

British Trust For Ornithology
(BTO) Species Code

- CH - Chaffinch
- GO - Goldfinch
- L - Lapwing
- P - Pied Wagtail
- S - Skylark
- SG - Starling
- SO - Song Thrush

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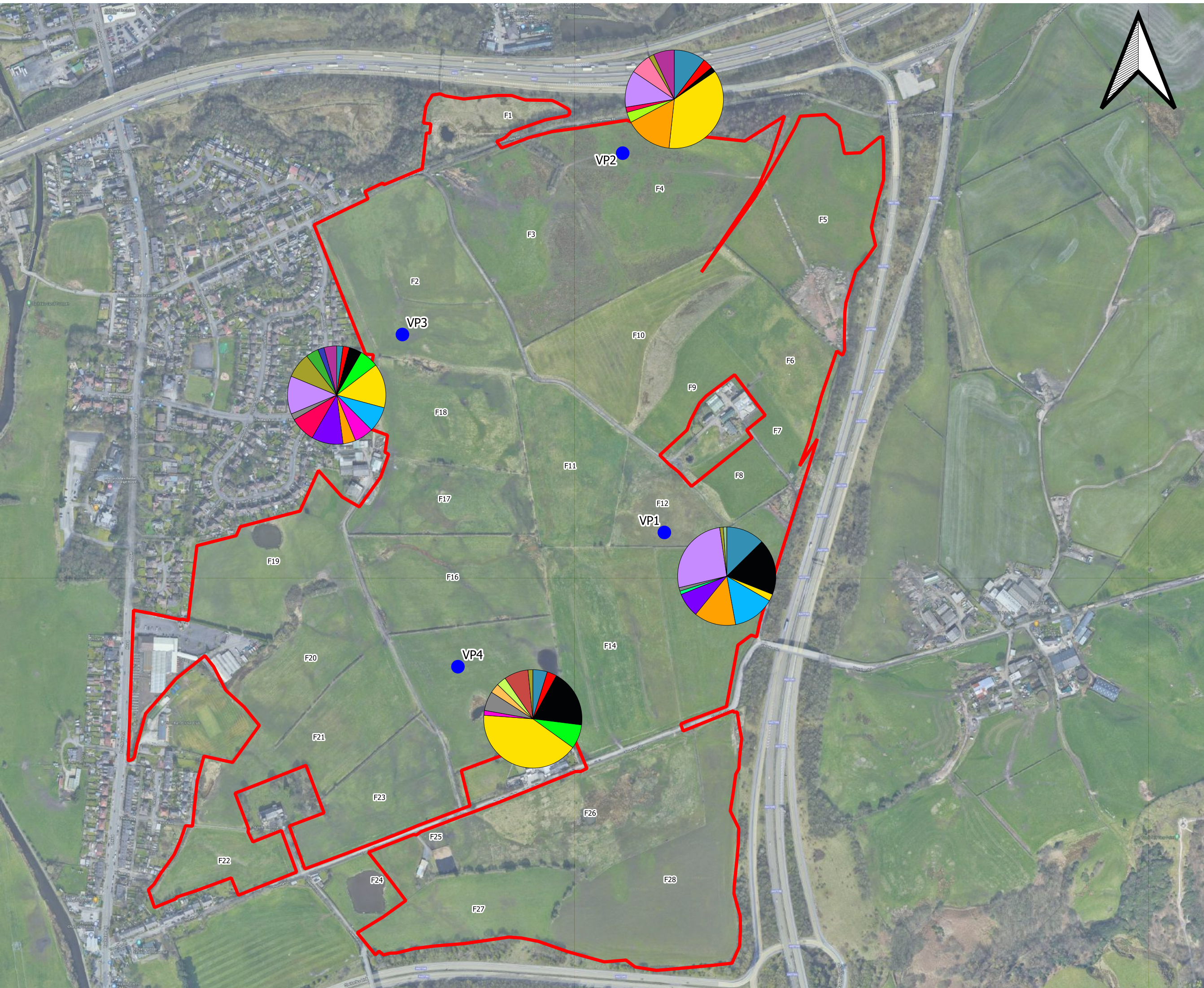
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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Transect Survey 31.05.23

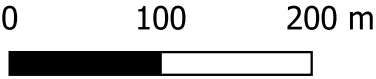
SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.38
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DATE: 25/05/2023	CHKD BY: LK	REV:
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Key

- Site Boundary
- BB Vantage point
- Greater black-back gull
- Lapwing
- Crow
- Lesser black-backed-gull
- Wood pigeon
- Magpie
- Blackbird
- Jackdaw
- Starling
- Mallard
- Pheasant
- Robin
- Goldfinch
- Swallow
- oystercatcher
- Black-headed gull
- Moorhen
- Chaffinch
- Skylark
- Dunnoch
- Song thrush
- Wren
- Canada Goose



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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 14.06.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.39
DATE: 15/06/2023	CHKD BY: LK	REV:



- Key
- Site boundary
 - Transect route
 - Flight lines 14.06.23

British Trust For Ornithology
(BTO) Species Code

- BF - Bullfinch
- CH - Chaffinch
- GO - Goldfinch
- L - Lapwing
- S - Skylark
- SG - Starling
- ST - Song Thrush

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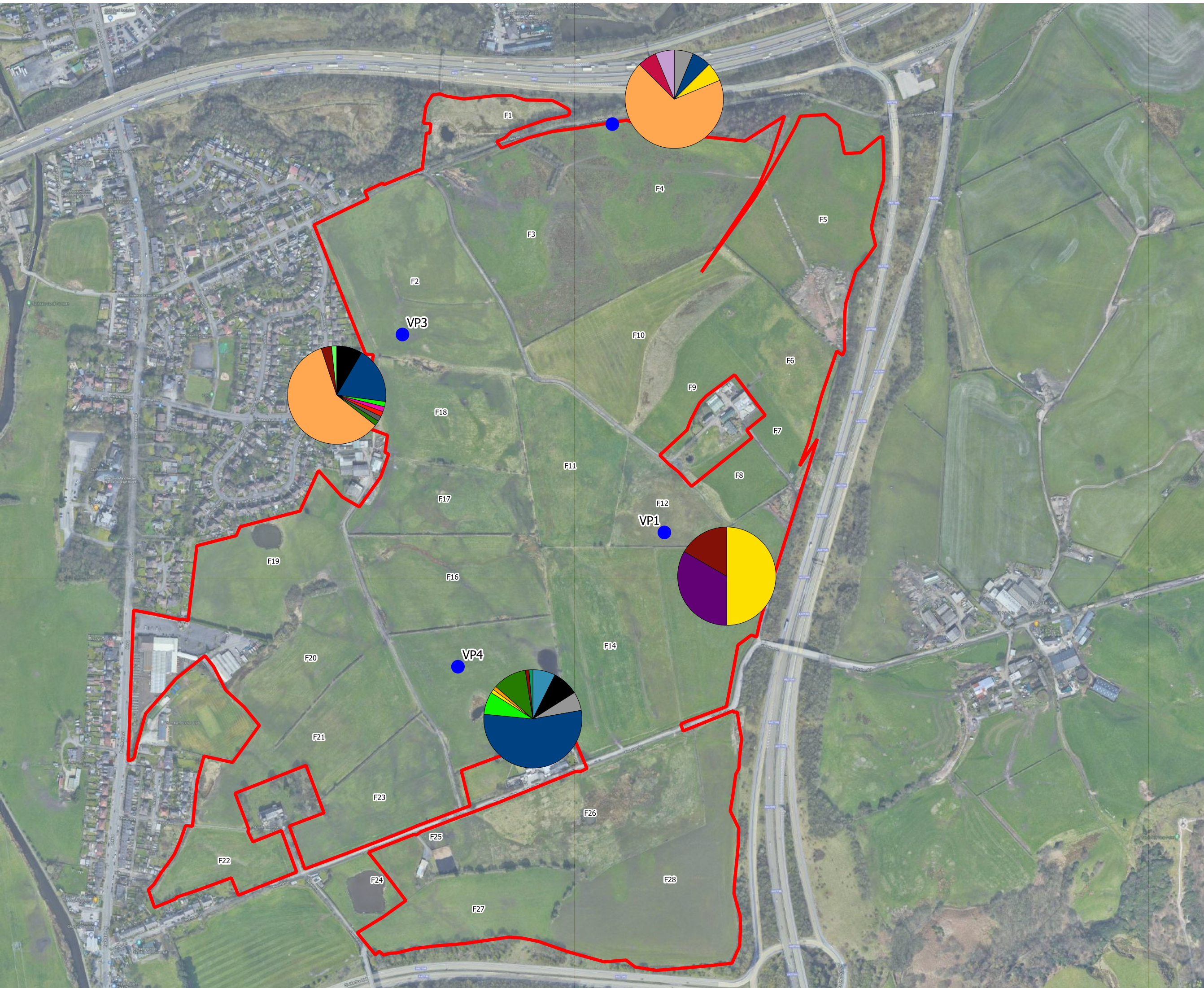
PROJECT:

Land at Stakehill

DRAWING TITLE:

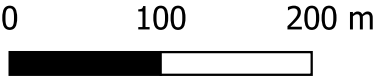
Breeding Bird Transect Survey 14.06.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.40
DATE: 25/05/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- BB Vantage point
- Greater black-back gull
- Crow
- Lesser black-backed-gull
- Wood pigeon
- Magpie
- Blackbird
- Starling
- Mallard
- Pheasant
- Robin
- Goldfinch
- Swallow
- Song thrush
- Wren
- House sparrow
- Great tit
- Peregrine
- Collared dove



DO NOT SCALE.
ALL COORDINATES RELATED TO LOCAL GRID.
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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 05.07.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.41
DATE: 07/07/2023	CHKD BY: LK	REV:



- Key
- Site boundary
 - Transect route
 - Flight lines 05.07.23

British Trust For Ornithology
(BTO) Species Code

GO - Goldfinch
S - Skylark

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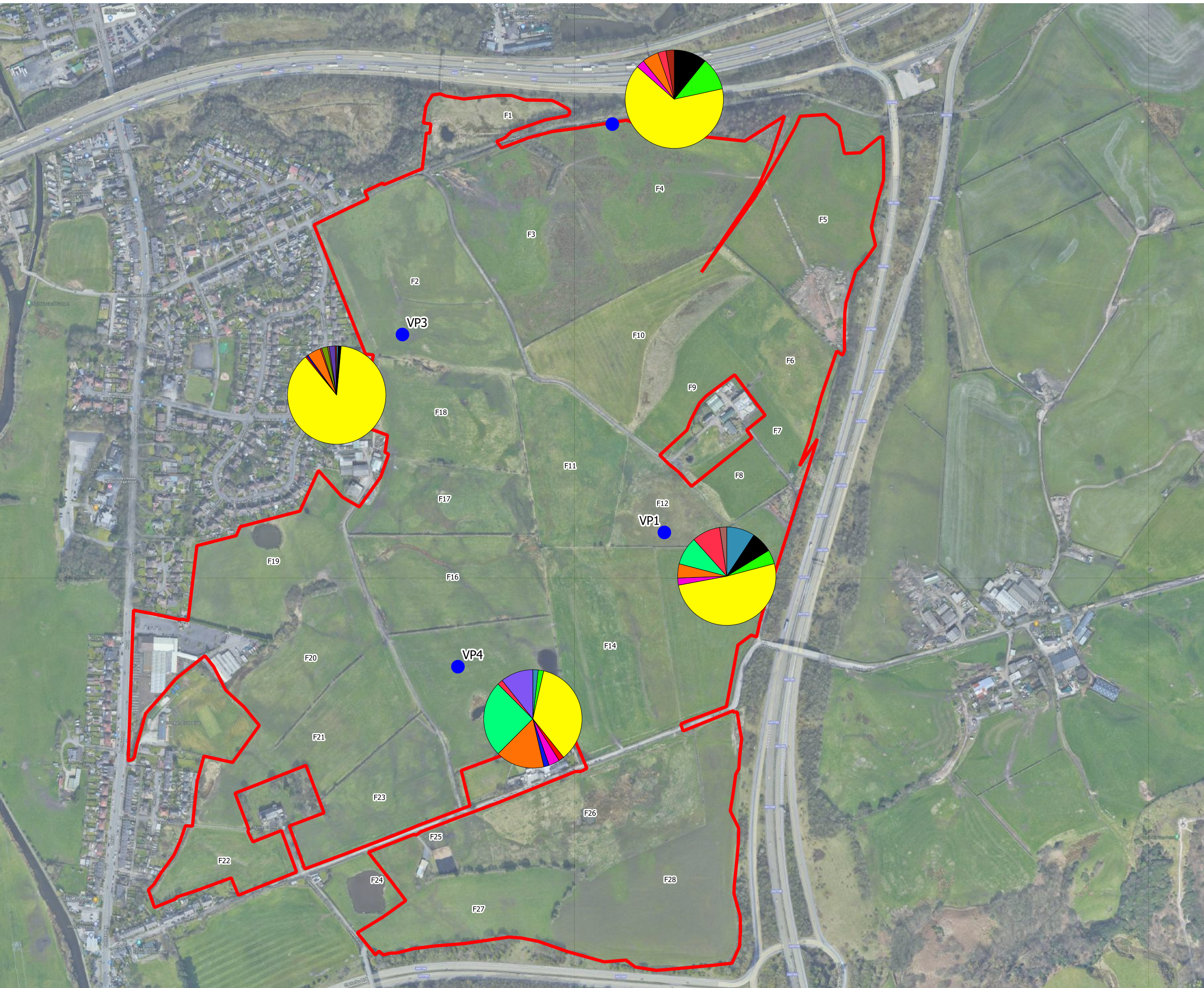
PROJECT:

Land at Stakehill

DRAWING TITLE:

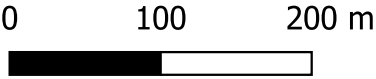
Breeding Bird Transect Survey 05.07.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.42
DATE: 25/05/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- BB Vantage point
- Greater black-back gull
- Crow
- Lesser black-backed gull
- Wood pigeon
- Magpie
- Blackbird
- Pheasant
- Goldfinch
- Swallow
- Wren
- Swift
- House martin
- Moorhen
- Skylark
- Black-headed gull



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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 28.07.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.43
DATE: 31/07/2023	CHKD BY: LK	REV:



Key

- Site boundary
- Transect route
- Flight lines 28.07.23

British Trust For Ornithology
(BTO) Species Code

- GO - Goldfinch
- LI - Linnet
- S - Skylark
- SG - Starling

DO NOT SCALE.
ALL COORDINATES RELATED TO LOCAL GRID.
LOCATED TO NG BY BEST FIT TO DETAIL.
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PROJECT:

Land at Stakehill

DRAWING TITLE:

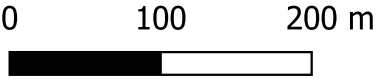
Breeding Bird Transect Survey 28.07.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.44
DATE: 25/05/2023	CHKD BY: LK	REV:



Key

- Site Boundary
- BB Vantage point
- Crow
- Lesser black-backed gull
- Wood pigeon
- Magpie
- Blackbird
- Goldfinch
- Swallow
- Wren
- Kestrel
- Black-headed gull
- Robin
- Collared dove
- Dunnock
- Jackdaw
- Starling
- Great tit
- House sparrow



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PROJECT:
Land at Stakehill

DRAWING TITLE:
Breeding Bird Survey 09.08.23

SCALE: NTS@A3	DRAWN BY: JK	DRAWING No: P.1172.19.45
DATE: 10/08/2023	CHKD BY: LK	REV:



- Key
- Site boundary
 - Transect route
 - Flight lines 09.08.23

British Trust For Ornithology
(BTO) Species Code

CH - Chaffinch
GO - Goldfinch
SG - Starling

DO NOT SCALE.
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PROJECT:

Land at Stakehill

DRAWING TITLE:

Breeding Bird Transect Survey 09.08.23

SCALE: NTS@A3	DRAWN BY: LA	DRAWING No: P.1172.19.46
DATE: 25/05/2023	CHKD BY: LK	REV:

Appendix 2

Bird Species

Listing details of the bird surveys undertaken in 2023 within the survey area. The designation status of Birds of Conservation Concern is listed as Amber or Red (coloured column), GMBAP – Greater Manchester Biodiversity Action Plan species.

Bird Species	28.02.23	23.03.23	25.04.23	25.05.23	31.05.23	14.06.23	05.07.23	28.07.23	09.08.23
Blackbird (<i>Turdus merula</i>)	10	10	13	21	11	17	8	4	7
Blackcap (<i>Sylvia atricapilla</i>)			2		1				
Black-headed Gull (<i>Chroicocephalus ridibundus</i>)	4	6	4	5	3	5	6	6	9
Bullfinch (<i>Pyrrhula pyrrhula</i>) (GMBAP)			2			2			
Buzzard (<i>Buteo buteo</i>)	1				5		1	1	
Blue Tit (<i>Cyanistes caeruleus</i>)	5	3	2		4		2	1	2
Canadian Goose (<i>Branta canadensis</i>)	27	18	23	15	15	18	4		
Carrion Crow (<i>Corvus corone</i>)	20	28	12	27	19	40	12	14	20
Chaffinch (<i>Fringilla coelebs</i>)					4	16			2
Chiffchaff (<i>Phylloscopus collybita</i>)				2		4			
Coal tit (<i>Periparus ater</i>)			1						
Collared dove (<i>Streptopelia decaocto</i>)						9	1		2
Common gull (<i>Larus canus</i>)		2		1	4	9	2	3	
Common Sandpiper (<i>Actitis hypoleucos</i>)		12	3						
Coot (<i>Fulica atra</i>)			1						
Cormorant (<i>Phalacrocorax carbo</i>)	1	1			1				

Bird Species	28.02.23	23.03.23	25.04.23	25.05.23	31.05.23	14.06.23	05.07.23	28.07.23	09.08.23
Dunnock (<i>Prunella modularis</i>)				2		2			1
Feral pigeon (<i>Columba livia</i>)						1			
Goldfinch (<i>Carduelis carduelis</i>)		7	4	16	33	21	23	46	21
Great Black-Backed Gull (<i>Larus marinus</i>)	7	5	2	6	10	21	6	6	
Great Tit (<i>Parus major</i>)	4	1	2	2	3		1		4
Greenfinch (<i>Chloris chloris</i>) (GMBAP)				8		3			
Grey heron (<i>Ardea cinerea</i>)							1	1	1
Herring gull (<i>Larus argentatus</i>)	1								
House martin (<i>Delichon urbicum</i>)			1		1			8	17
House sparrow (<i>Passer domesticus</i>) (GMBAP)	8	2		2	1		1		7
Jackdaw (<i>Corvus monedula</i>)	10	7	1	28	28	23		5	10
Kestrel (<i>Falco tinnunculus</i>)	2				2			1	2
Lapwing (<i>Vanellus vanellus</i>) (GMBAP)	56	150	120	40	31	17			
Lesser Black-Backed Gull (<i>Larus fuscus</i>)	9-	15	5	4	18	14	5	8	10
Linnet (<i>Linaria cannabina</i>)								1	
Long-tailed tit (<i>Aegithalos caudatus</i>)			2						
Magpie (<i>Pica pica</i>)	32	23	8	15	15	29	12	3	7
Mallard (<i>Anas platyrhynchos</i>)	7	12	33	8	12	7	1	4	

Bird Species	28.02.23	23.03.23	25.04.23	25.05.23	31.05.23	14.06.23	05.07.23	28.07.23	09.08.23
Moorhen (<i>Gallinula chloropus</i>)			1			4		6	
Oystercatcher (<i>Haematopus ostralegus</i>)	3	2	2		1	6			
Peregrine (<i>Falco peregrinus</i>)							1		
Pheasant (<i>Phasianus colchicus</i>)		4	1	1	4	1	1	3	
Pied wagtail (<i>Motacilla alba</i>)			1		1				
Robin (<i>Erithacus rubecula</i>)	4		1	4	5	5	1		6
Skylark (<i>Alauda arvensis</i>) (GMBAP)				5	3	12		11	
Song thrush (<i>Turdus philomelos</i>) (GMBAP)	6	16	2		1	4	2		
Starling (<i>Sturnus vulgaris</i>) (GMBAP)	63	161	25	22	234	30	1	6	58
Swallow (<i>Hirundo rustica</i>)			2	30	46	38	75	26	61
Swift (<i>Apus apus</i>)					3	2	11	12	3
Willow tit (<i>Poecile montanus</i>) (GMBAP)			1						
Wood Pigeon (<i>Columba palumbus</i>)	33	53	20	52	38	59	70	324	96
Wren (<i>Troglodytes troglodytes</i>)				10	5	17	6	13	6

Appendix 3

ASCERTA

Date:	28/2/2023
Site:	slattholke
Surveyor:	SVC
Timings:	

VP1 - 7:30 - 8:00
 VP2 - 8:20 - 8:50
 VP3 - 9:00 - 9:30
 VP4 - 9:45 - 10:15

Sunrise:	07:00
Sunset:	17:44

- Lapwing seen on route to VP1

- Lapwing + Canada goose seen on route to VP2

- Lapwing seen on route to VP3

- Canada goose seen on route to VP4

	Start Time	Finish Time
Temperature:	5°C	
Windspeed:	5 mph	
Wind Direction From:	NE	
Cloud Cover:	6/8	
Visibility:	clear	
Precipitation:	28%	

F2

NOTES:

Lapwing: 1111 Robin: 1 GB Gull: 111 Magpie: 1 Mallard: 111 Blackbird: 1 Crow: 1 Wpigeon: 11 VP1	Cormorant: 1 Jackdaw: 1111 Robin: 11 Gt tit: 11 Lapwing: 1 GB Gull: 1111 Crow: 11 Mallard: 11 Black gull: 1 Wpigeon: 1111 VP2	blackbird: 111 LBB Gull: 1 Lapwing: 1111 Robin: 1 Magpie: 1111 Mallard: 11 LBB Gull: 1111 Starling: 1111 Kestrel: 1 Wpigeon: 1 Blackbird: 1 Sparrow: 1111 VP3	Magpie: 1111 Crow: 1111 Starling: 1111 LBB Gull: 1111 Wpigeon: 111 Lapwing: 1 Jackdaw: 1111 Blackbird: 1
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[illegible]

Site:	Surveyors:	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
Slaterochs	LA					
Date: 28/12	LH					
	JK	Start 0735	4	6	0	11
		Finish 1020	7	11	0	11
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F11	0735	Lapwing (4) ✓	Refuge	in hedge	SI	Grassland
F7/PB	0747	Blackbird (1)	Fly over	field	SI	Grassland
F7	0748	C. Green (1) ✓	Fly over		SI	Grassland
PB	0751	Blackbird	Perching in hedge		OP	hedge
		Blue tit	"		"	"
		Long-tailed tit	"		"	"
FS	0753	C. Green	Fly over		SI	Grassland
FS	0756	agrostis (2) ✓	Fly over		SI	Grassland
FS	0756	Lapwing (2) ✓	Fly over		SI	Grassland
F11	0802	Black-headed gull (1)	Fly over		SI	Grassland
F3	0803	C. Green (3)	Fly over		SI	Grassland
F3	0806	Wood pigeon	Fly over		SI	Grassland
F3	0807	Lapwing (25) ✓	Fly over		SI	Grassland
F2	0816	Blue tit				
F2	0819	Lapwing (5) ✓	Fly over		SI	Grassland
F2		Starlings (10)	Fly over		SI	Grassland
F18		Lapwing (2) ✓	Refuge		SI	Grassland
F16		C. Green (2)	Fly over		SI	Grassland
F15		Gull (1)	Fly over		SI	Grassland
F15		Megpie (2)	Fly over		SI	Grassland
F15		C. Green (15)	Fly over		SI	Grassland
F21		C. Green (3)	Fly over			
F20		C. Green (2)	Fly over			
F21		Twelve-lined gull	"			
F20		Black-headed gull ✓	Fly over			
F19		agrostis	Fly over			
F19		C. Green (4)	Fly over			
F19		C. Green (5)	Fly over			

F19		magpie	fly over
F19		blackbird	fly over
F19		w pigeon	fly over
F19		starling (5)	fly over
F22		w pigeon (2)	fly over
F22		crows (4)	hanging
F21		starling (14)✓	fly over
F21		crows (2)	hanging
F21		magpie (2)	fly over
F21		c oylet (3)	fly over
F26		blackbird (1)	perching
F13		heron (1)	fly over
F12		song thrush (6)	foraging
F18		oystercatcher✓	foraging
F18		song thrush	foraging
F18		lapwing (2)✓	foraging / fly over
F17		lapwing (5)✓	fly over
F20		magpie (1)	perching
F19		buzzard (1)	fly over✓

ASCERTA

Date:	23/03/2023
Site:	Land at Skelhill/Slottacks
Surveyor:	SV
Timings:	06:35 - 09:05

VP1- 06:35 - 07:05
 VP2- 07:20 - 07:50
 VP3- 08:00 - 08:30
 VP4- 08:35 - 09:05

Sunrise:	06:05
Sunset:	18:27

- Lapwing seen enroute to VP1
- Sandpiper seen enroute to VP1
- Lapwing seen enroute to VP2
- Lapwing seen enroute to VP3
- Lapwing seen enroute to VP4

See LA sheet for weather

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

CBB gull: IIII Lapwing: IIII IIII IIII Crow: IIII LBB gull: IIII Starling: IIII IIII Cornucopia: I Wpigeon: IIII Magpie: III VP1	Wpigeon: IIII Lapwing: IIII IIII IIII IIII Blackbird: I Magpie: IIII Crow: IIII Starling: IIII Canada goose: III VP2	Lapwing: IIII IIII IIII IIII IIII Crow: IIII IIII Wpigeon: IIII Magpie: IIII IIII IIII Blackbird: IIII Hsparrow: IIII Starling: IIII IIII IIII IIII IIII Goldfinch: IIII Mollard: IIII Starling: IIII Bbit: I VP3	Magpie: II Starling: IIII IIII IIII IIII IIII Crow: IIII IIII blackbird: IIII Canada goose: IIII Wpigeon: IIII IIII LBB gull: IIII IIII VP4
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[illegible]

Site: STARTOCH	Surveyors: UA UK	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
		Start 0635	7	4/8	0	F2
		Finish 0905	9	8/8	0	F2
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F12		Lapwing (1)	Flying N		SI Grassland	
F13		Auklet (2 x 1 x 1)	Foraging		T Grassland/W	
F13		Lapwing (1)	Foraging		"	
F14		Lapwing (1)	Flying W		SI Grass	
F13		Lapwing (5)	Flying		T Grassland	
F13		Sandpiper (7)	Rush		"	
F13		Black Gull (2)	Flying W		"	
F4		Lapwing (8)	Rush		W Grassland	
F4		W plover (10)	Foraging		"	
F4		Oystercatcher (2)	Fly in / Foraging		"	
F4		Sandpiper (3)	Rush		"	
F3/F4		Lapwing (6)	Rush / Foraging		"	
F3		Lapwing (18)	"		"	
F3		Sandpiper (2)				
F3		Blackhead G	Fly over		"	
F3		G AT	Foraging		Hedge	
F3		Blue AT	"		Hedge	
F2		Lapwing (6)	Foraging		SI Grassland	
F2		Woad plover (6)	Foraging		"	
F2		Starling (8)	Fly over		SI Grass	
F2		Hedge (2)	Fly over		"	
F2		OW	Foraging		"	
F2		Lapwing	Fly over		"	
F18		Pheasant	Foraging		"	
F18		Lesser SB Gull	Fly over		SI Grass	
F18		Mare and	Foraging		SI Grass	
F18		Mare (2)	Fly over		T Grassland	
n 8/11/17		Mallard (1)	Rush			

F17	Lapwing (4)	Fly over	52 4
F16	Magpie (2)	Fly over	" "
F14	Lapwing (6)	Fly over	" "
F15	Starling (35)	Fly over	" "
F16	Lapwing (7)	Fly over	" "
F16 115	Blackbird	Fly over	hedge
F15	Starling (25)	Fly over	St. Mary's
F15	Song Thrush (1)	Fly over	hedge
F14	Lapwing (4)	Fly over	
F15	C. Green (4)	Refuge	pond
F16	Lapwing	Refuge / pond	St. Mary's
F19	C. Green (4)	Refuge / pond	St. Mary's
F19	W. Wren (8)	Fly over	
F19	Blackbird (3)	Fly over	
F20	Magpie (2)	Fly over	
F20	Blackbird & (3)	Fly over	
F22	Wren (1)	Refuge	tree
F22	Blue Tit	Refuge	hedge
F24	W. Wren	Refuge	hedge
F21	Magpie	Refuge	hedge
F21	Starling (6)	Refuge	
F21 / F15	C. Green (2)	Fly over	
F23	Wren (1)	Refuge	
F23	Wren (7)	Fly over	
F23	Goldfinch (4)	Fly over	hedge

ASCERTA

Date:	25/04/2023
Site:	slatlocks
Surveyor:	SV
Timings:	18:30-

VP1 - 18:50 - 19:20
 VP2 - 19:30 - 20:00
 VP3 - 20:10 - 20:40
 VP4 - 20:50 - 21:20

Sunrise:	
Sunset:	

- Robb. ts seen at VP1
- Brown hare seen at VP1
- Squirrel seen at VP1
- Brown hare seen at VP2
- Brown hare seen at VP3
- Brown hare seen at VP4

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

Blackbird: 1111 Lapwing: 111 Wpigeon: 11111 Magpie: 1 Mallard: 111 Crow: 111 GBBgull: 1 Moorhen: 1 Pheasant: 1 VP1	C. B. Gull: 11 GBBgull: 1 Lapwing: 11111111 Crow: 111 LBBgull: 1111 Starling: 11111111111111 Magpie: 11 Wpigeon: 111 Gt. t.: 11 Mallard: 11111 Jackdaw: 1 Robin: 1 VP2	Mallard: 1111 Lapwing: 111111111111 Crow: 1 Blackbird: 1 LBBgull: 1 Willow t. t.: 1 Magpie: 11 Blackcap: 11 VP3	C. Gull: 1111 Mallard: 1111 Magpie: 1 Blackbird: 11 Wpigeon: 11
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Vantage point	Time	Target Note No.	Number of Birds	Bird Species	Activity	Flight Direction to	Flight Height M
1	18:52		1	Lapwing	Flight	W	5m
	18:55		1	" "	" "	E	8m
	18:58		2	Mallard	Flight/rest	NW	5m
	19:04		1	GBB gull	Flight	NE	10m
	19:05		1	Lapwing	" "	NE	3m
	19:07		1	" "	Flight/rest	S	3m
	19:13		1	" "	" "	S	3m
2	19:34		7	" "	" "	NE	GL-10m
	19:35		5	" "	" "	W	GL-3m
	19:37		1	LBB gull	Flight	S	20m
	19:38		22	Starling	" "	SW	15m
	19:40		1	Lapwing	" "	W	10m
	19:48		3	Starling	" "	NE	8m
	19:49		7	Mallard	" "	E	18m
3	20:10		11	Lapwing	" "	NE	15m
	20:12		4	" "	" "	W	10m
	20:15		1	Mallard	" "	SE	15m
	20:17		1	Lapwing	" "	SE	8m
	20:28		2	" "	" "	E	5m
4	20:51		5	Mallard	Flight/rest	NE	GL-5m

Site: Starruck	Surveyors: LFA JK	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
Date: 25/04/20		Start 18:45	9	6/8	0	FO
		Finish 21:30	7	2/8	0	FO
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F14/F15		Goldfinches (3)	Flying between		Hedgerow	
F13		Blue tit (2)	Perching in trees		off the trees	
F9/F13		Lapwing	Flying over/calling		SE Grassland	
F7		wood pigeon (2)	Perching in trees		woodland (off the)	
F6		Blackbird	Perching in trees		woodland (off the)	
F5		Crow	Flying over the		SE Grassland	
F5		Oystercatcher (2)	Foraging		SE Grassland	
F5		Lapwing	mobbing crow		"	
F5		Crows (2)	Flying over		"	
F5		Red Wagtail	Perching		"	
F5		Lapwing (2)	mobbing crow		"	
F5		Sandpiper (2)	Fly over		"	
F6/F9		Lapwings (4)	Fly over		"	
F4		Canadian Geese	Foraging 1 refuge		wet grassland	
F4		Lapwing (6)	Flying over/calling		wet grassland	
F10		Refuge/Phaw/calling	Lapwing (16)		SE Grassland	
F4		Sandpiper	Fly over		W Grassland	
F4/F3		Lapwings (25)	Fly over, calling		W Grassland	
F2		Long tailed tit	Perching		hedgerow	
F2		Blackbird (2)	Foraging hedgerow		hedgerow	
F2		Lapwing (6)	Foraging 1 refuge		SE Grassland	
F2		Canada Goose	Refuge		SE Grassland	
F18		wood pigeon	Fly over		SE Grassland	
F18		Lapwing (4)	Refuge		"	
F18		Mallard (7)	Refuge		pond	
F18		song thrush	Refuge		hedgerow	
F18		magpie	Perching		fence	
F11		Lapwing (4)	Fly over		SE Grassland	

ASCERTA

Date:	25/05/23
Site:	Land at Stokkehill - Slatted
Surveyor:	SV
Timings:	05:30 - 08:05

VP4 - 06:30 - 06:40
 VP3 - 06:40 - 06:50
 VP2 - 06:50 - 07:20
 VP1 - 07:35 - 08:05

Sunrise:	04:54
Sunset:	21:18

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

- Brown hare seen at VP4
 - Brown hare seen at VP3
 - Brown hare seen at VP2
 - Lapwing seen enroute to VP2
 - Skylark x2 seen enroute to VP1

NOTES:

Crow: 11111 GBBgull: 11111 Wpigeon: 11111111 Cgoose: 11 Blackbird: 1111 Starling: 1 LBBgull: 11 Magpie: 1 Robin: 1 Jackdaw: 11 Mollard: 1 Gs: 1111 VP4	Crow: 111 Lapwing: 1111 Starling: 11111111 Wpigeon: 111111 Jackdaw: 111 Cgoose: 1111 Blackbird: 111 Swallow: 1 Gs: 11 Gt: 11 Hs: 11 VP3	Robin: 11 Blackbird: 1 Jackdaw: 111111 Swallow: 1111 Wpigeon: 111111 Lapwing: 1111 Magpie: 11 Crow: 11 Gs: 11 LBBgull: 1 Starling: 111 VP2	Pheasant: 1 Magpie: 11111 Jackdaw: 1111 Crow: 111 Skylark: 1111 Swallow: 1111111111 Blackbird: 1111 Wpigeon: 11111 Starling: 111 Robin: 11 LBBgull: 1 VP1
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ASCERTA

Vantage point	Time	Target Note No.	Number of Birds	Bird Species	Activity	Flight Direction to	Flight Height M
VP4	05:31		2	GBB gull	Flight	NE	18m
	05:38		3	" "	" "	N	20m
	05:42		1	Starling	" "	E	15m
	05:54		1	Mallard	" "	W	12m
VP3	06:10		2	Starling	" "		10m
	06:12		2	Lapwing	Flight/circling	E/W	5m
	06:13		6	Starling	Flight	N	5m
	06:17		3	" "	" "	N	10m
	06:20		2	Lapwing	" "	N	5m
	06:25		2	Starling	" "	E	10m
	06:33		2	H sparrow	Flight/rest	E	3m
	06:35		1	Lapwing	Flight	N	12m
	06:38		2	starling	" "	N	10m
VP2	06:53		2	Swallow	" "	NW	10m
	07:00		1	Lapwing	" "	SE	15m
	07:08		6	" "	Flight/circling	SE	15m
	07:13		3	starling	Flight	NW	20m
VP1	07:38		1	Skylark	Flight/rest	NE	10m
	07:45		1	" "	Rest	GL	GL
	07:55		1	" "	Flight/rest	NE	10m
	07:59		3	starling	Flight	SW	15m
	08:01		1	LBB gull	" "	E	20m
	08:02		1	Skylark	" "	W	10m

*GL = ground level

Site:	Surveyors:	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
Slattholck	LA Jk					
Date: 25/05		Start 05:25	11	4/8	0	10
		Finish 08:10	15	2/8	0	10
Transect Stop/ location	Time	Bird species (#)	Activity			Habitat
F23		Starling (4)	Perching			at site / hedge
F23		Goldfinch (2)	Singing / perching			hedge
F23		Starling (2)	Fly over			SS Grassland
F23		wren (1)	Singing			hedge
F23		Wood pigeon	Flying over site			SS Grassland
F23		W Pigeon (2)	"			"
F23		Black headed Gull (2)	"			"
F22		Wood pigeon	"			"
F22		G Finch	"			hedge
F21		wren	"			SS Grassland
F20		Blackbird	Fly over site / perching			tree
F20		W pigeon (1)	perching			hedge
F20		wren (1)	Singing			hedge
F20		Blackbird	Singing			hedge
F19		C Gull (1)	Resting			pond
F19		wren	Fly over			SS Grassland
F19		G Finch	"			"
F19		Mallard (4)	Resting			pond
F19		G Gull (2 + 5)	In pond - C Breeding			pond
F19		Swallow (2)	resting on site			SS Grassland
F16		wren	Singing			hedge
F19		Magpie	Fly over site			SS Grassland
F15		B Headed Gull	Fly over			SS Grassland
F15		Mallard (1)	"			"
F15		Chiffchaff	Singing			hedge
F15		wren	"			"
F15		Magpie	perching			hedge
F15		G Finch (4)	Singing			hedge

Reasons: F23, F22, F19

Reasons: F23, F22, F19

F06/F07		Goldenrover (6)	Ring/Polony	Hedge
F17		Maple (2)	Polony	Wedge
F17		Wedge (2)	"	Hedge
F18		Stake	"	Hedge
F18		9 Green	"	"
F18		Wedge	"	"
F18		B Hedged hole (2)	Figure	Wedge
F2		Lapins 7	Figure	Wedge
F2		Cow	"	"
F2		Maple (2) + 6 (Hedge)	" 1/1000000	" 1/1000000
F2		Dachau (4)	Figure	BG
F3		Cow (2)	"	"
F3		Stake (24)	"	"
F3		Blackwood	Polony	Hedge
F3		Shale (2)	Figure	BG
F3		Lapins (18)	Figure 1/1000000 / cow	Wedge
F4		Wedge	Figure	Hedge
F4		C Cow	Figure	Wedge
F4		Cow (3)	Figure	"
F4		Maple	"	"
F4/F5		Maple (2)	Figure	"
F5		Wedge (2)	Figure	Hedge
F5		Blackwood	Figure	Hedge
F6		Wedge	"	Wedge
F13		Maple	"	Wedge
FF		Stake	Figure/Polony	"
F8		Maple	Figure	"
F12		Chapman	Figure	Wedge
F12		Blackwood (2)	Figure	Wedge
F10		Lapins	Figure	"
F18		9 Green	Figure	"
F18		Maple (4)	Figure	"
F18		Lapins	Figure	"

Brown have F2 x 2

BBT F10 x 2

Brown have F3 x 2

Brown have F4/F5 x 3

ASCERTA
VP4-05:25 - 05:55

Date:	31/05/23
Site:	Land at Stakehill - Saltch
Surveyor:	JK
Timings:	05:25 - 08:00

VP4-05:25 - 05:55

43-06:05- 06:35

VP2-06:45-07:15

✓ 1-07:30-08:00

Sunrise:	04:47
Sunset:	21:26

- Brown here seen between VP3 and VP4
- Brown here seen at VP3
- Brown here seen at VP2

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

Crow: IIII	Magpie: II	Bhood gull: I	Scooter: IIII	Hare/Vagpie: IIII	W Pigeon: IIII	Kestrel: I
Pheasant: II	Lapwing: I	G B B gull: IIII	G B B gull: II		Mallard: III	Buzzard: I
Blackbird: IIII	Crow: IIII		Robin: II		blackbird: I	
W pigeon: II	Starling: IIII		LBBgull: IIII		pheasant: II	
Goldfinch: IIII					Swallow: IIII	
LBBgull: IIII	Robin: II		starling: IIII		G B B gull: III	
Swift: II	Hopewell: I		Buzzard: II		starling: IIII	
G B B gull: II	LBBgull: IIII		Goldfinch: II		Crow: IIII	
Griff: I	W pigeon: IIII		Robin: II		Goldfinch: IIII	
Mallard: I	Scooter: IIII		W pigeon: IIII		LBBgull: I	
Lapwing: II	Goldfinch: IIII		Blackbird: I		Oystercatcher: II	
	Swallow: IIII		Lapwing: IIII		Magpie: IIII	

VP4

VP3

VP2

vp 1

Vantage point	Time	Target Note No.	Number of Birds	Bird Species	Activity	Flight Direction to	Flight Height M
VP4	05:37		2	Swift	Flight	E	20+ m
	05:48		1	Mallard	" "	SE	12 m
	05:50		2	Lapwing	" "	NE	18 m
VP3	06:05		1	" "	" "	E	19 m
	06:06		33	Starling	" "	W	10 m
	06:08		1	H sparrow	Flight/rest	W	2 m
	06:10		2	starling	Flight	NE	10 m
	06:13		3	" "	" "	W	5 m
	06:14		5	" "	" "	W	5 m
	06:22		9	" "	" "	W	3 m
	06:23		1	Lapwing	" "	N	18 m
VP2	06:46		8	starling	" "	SE	10 m
	06:50		2	Buzzard	" "	N	12 m
	07:00		8	Lapwing	Flight/landing	N	18 m
	07:04		8	starling	Flight	SE	15 m
	07:07		10	" "	" "	SE	10 m
VP1	07:32		5	" "	" "	SW	8 m
	07:33		6	" "	" "	NE	5 m
	07:41		2	" "	" "	E	12 m
	07:44		1	Oystercatcher	" "	S	10 m
	07:45		11	Starling	" "	NW	10 m
	07:51		1	Kestrel	" "	NW	15 m
	07:54		1	Buzzard	" "	SW	20+ m

Site:	Surveyors:	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
PARTRIDGE	LA					
Date:	JK					
31/05/23		Start 05:27	10	6/8	0	F2
		Finish 08:12	12	6/8	0	F1
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F23		Blackbird (2)	Fly over		Hedge	
F23		Goldfinch (3)	Flying over		Hedge	
F23		Starling	Picking		overhead call	
F23		wren	singing		Hedge	
F23		wood pigeon (1)	Flying / perching		"	
F23		Robin	singing		"	
F23		chaffinch	singing		"	
F23		Crow	foraging		SI Grass	
F23		BH Gull	Fly over		"	
F23		Blackbird (2)	foraging		"	
F21		Goldfinch	Fly over		Hedge	
F20		C Gull (2) + (2)	"		SI Grass	
F20		wren (3)	singing		Hedge / Tree	
F20		Caprine (3)	Fly over / calling		SI / hedge	
F20		Magpie	Fly over		SI Grass	
F20		Blackcap	singing		Hedge	
F19		kestrel	Fly over		SI / hedge	
F19		BH Gull	"		SI Grass	
F19		wood pigeon	"		"	
F19		C Grease (7)			pond	
F19		Common	"		SI Grass	
F19		mallard (1)	Refuge		P. d	
F19		CG x 4 (4 x 50m)	"		meadow	
F19		house martin	Fly over		SI / hedge	
F19		Blue tit / Magpie (1)	singing		Hedge	
F19		starling (7)	Fly over		SI	
F23		starling (20)	foraging		SI / hedge	
F16		overhead	Fly over		SI Grass	

one - F19
F5 (2)
F5

Rabbit D - F23, F21, F19
F3, F5

P16/17		Chaffinch (2)	ringing	Hedge
P17		Warbling (3)	fly over / singing	5 hedges
P18		owl	Perches	Hedge
P2		Goldfinch	fly over	Hedge
P1		Magpie	Perched	5 hedges
P1		owl	fly over	5 hedges
P2		Warbling (5)	fly over	"
P2		owl	Perched	Hedge
P2		owl	fly over	5 hedges
P2		song thrush	"	Hedge
P2		Blackbird	Perched	much more
P2		Jackdaw	fly over	5 hedges
P3		Jackdaw (4)	Perched	much more
P3		Blackbird	fly over	5 hedges
P3		Lapwing (3)	perches	PG
P3		Lapwing (8)	fly over	Wet grass
P4		Warbling	fly over	"
P4		swallow (2)	Perched	"
P6		Lapwing	fly over	5 hedges
P5		swallow (6)	Perched	on
P5		Wagtail (pea)	Perched	on
P5		Jackdaw (2)	fly over	on
P7/P8		Chaffinch	Perched	Perched
P13		swallow	Perched	5 hedges
P13/P8		Lesser & Great (3)	fly over	"
P13		Great or	"	"
P10		Lapwing (4)	fly over	"
P1		Shrike	Perched	5 hedges
P10		Starling (14)	fly over	5 hedges
P10		Magpie (2)	fly over	"
P1		Magpie (2)	"	"
P16/P4		Goldfinch	"	"
P15		Warbling (25)	Perched	"
P22/P25		Blackbird	fly over	"
P15		Goldfinch (5)	Perched	on
P23		Lapwing	fly over	5 hedges

ASCERTA

Date:	14/06/2023
Site:	Land at Stokely - Slattorcks
Surveyor:	JK
Timings:	05:15 - 07:50

VP4: 05:15 - 5:45
 VP3: 05:55 - 06:25
 VP2: 06:35 - 07:05
 VP1: 07:20 - 07:50

Sunrise:	04:39
Sunset:	21:39

- Brown hare seen at VP3
- Roe deer at VP3
- Brown hare seen at VP2
- Brown hare seen at VP1

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

Crow: 1111111111	Sockdow: 11	GBB gull: 11	Oystercatcher: 1111	Swallow: 11111111111111
Bleed gull: 11	Crow: 11	Lapwing: 1	Wpigeon: 11111111111111	Pheasant: 1
Moorhen: 11	Robin: 1111	Wren: 11	GBB gull: 1111	GBB gull: 11111111
GBB gull: 111	Maggie: 111111	Mallard: 11	Wren: 1111	Maggie: 11111111
Chaffinch: 1111	Goldfinch: 1	Lapwing: 11	Sockdow: 11111111	Crow: 1111111111
Wpigeon: 1111111111	Sterling: 1111	Sockdow: 11111111	SKylark: 1	Sterling: 1111
Lapwing: 11111111	Wpigeon: 111111	Crow: 1	Swallow: 111111	Goldfinch: 1
LBB gull: 1111	SKylark: 1111	Robin: 1		Sockdow: 11111111
Goldfinch: 1111	Blackbird: 1111			SKylark: 1
Blackbird: 1	Song thrush: 1			Wpigeon: 11
SKylark: 1	LBB gull: 1111			Cgoose: 1
	Swallow: 1111			
	Pennack: 11			

VP4

VP3

VP2

[illegible]

Site: SIAT70CW	Surveyors: UA JL	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
Date: 14/06/23		Start 05:09	13	0	0	F1
		Finish 07:54	16	0	0	F1
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F23		starling (6)	Perching		Hedge / overline	
F23		wren	Singing		Hedge	
F23		Goldfinch	Singing		Hedge	
F23		Blue-headed Gull (3)	Fly over		SI Grass	
F23		Greenfinch (3)	Singing		Hedge	
F23		Blackbird (4)	Foraging		SI Grass	
F21		Chiffchaff (4)	Singing		Hedge	
F21		Chaffinch	Perching		Hedge	
F21		wren	Singing		Hedge	
F21		Goldfinch (6)	Singing		Scattered tree	
F22		Crow	Perching		Overline Church	
F22/21		w Pigeon	Fly over		SI Grass	
F20		Song thrush (2)	Fly over		" "	
F20		Chiffchaff	Singing		Hedge	
F20		wren	Singing		Hedge	
F20		Magpie (4)	Perching		5 trees	
F20		Jackdaw	Fly over		SI Grass	
F20		C Gull (3)	Fly over		" "	
F20/F19		Crow (4)	Fly over		" "	
F20/F19		Swallow	Foraging		" "	
F20/F19		Bullfinch	Singing		Hedge	
F19		wren	Singing		Hedge	
F19		Binch	Singing		Hedge	
F19		Goldfinch (4)	Fly over		Hedge	
F19/20		Song thrush	Singing		1	
F19/20		covered dome	Perching		Hedge	
F19		smitt (2)	Fly over / foraging		SI Grass	
F19		Blackbird (2)	Fly over		" "	

Deer F21

F19		Goldfinch (3)	Fly over	St Grass
F19		Goldfinch (2)	fly over	" "
F19		wren	singing	Hedge (Wan)
F19		w pigeon	fly over	St Grass
F19		Bullfinch	fly over	" "
F19		rook	refuge	pond
F19		C Grebe (2A + 6G)	refuge	" "
F19		Mallard (2) + duck	refuge	" "
F19		Crow (2)	fly over	St Grass
F19		Mallard (2)	fly over	" "
F19		Magpie (5)	fly over	" "
F16		C Gull	fly over	" "
F15		Goldfinch (2)	singing	Hedge
F15		C Gull	fly over	St Grass
F16		Goldfinch	singing	Hedge
F16		Parrot Pigeon	fly over	St Grass
F16		wren	singing	Hedge
F18/19		Lapwing (2) + 2	fly over	St grass
F2/F3		aythya reeve	fly over	wet grass
F1		rook	refuge	pond (up head)
F3		Lapwing (6)	fly over / refuge	wet grass
F2/F3		wren (2)	singing	woodland
F2/F3		Meadowbird (4)	rook	woodland / track
F3		C Gull (3)	fly over	wet grass
F3		Lapwing (2)	fly over	" "
F2/F3		Goldfinch (4)	perching / singing	Hedge
F2/F3		Skylark	singing / fly over	Hedge / wet grass
F3/F10		Lesser BB Gull (4)	fly over	wet grass
F11		wren	singing	Hedge
F10		starling (12)	fly over	wet grass
F11		Skylark	flying over	St Grass
F11		Crow (2)	perching	St grass / track
F11/12		Lesser BB Gull (2)	fly over	St Grass

Brown hare x 2
Rabbits x 5
rabbits x 2

Bullfinch x 2

* (and) 4 field
Vp 3 / Vp 4

Bulb here	F20
Bulb here	F18
	F3
Bulb here x2	F4
Bulb here x2	F15

ASCERTA

Date:	05/07/2023
Site:	Land at Stakehill - Slattery
Surveyor:	JK
Timings:	20:00 - 10:30

VP4 - 20:00 - 20:30
 VP3 - 20:40 - 21:10
 VP2 - 21:20 - 21:50

Sunrise:	
Sunset:	21:39

- Brown Hare between VP3 + VP4
 - Rain at 20:54 until 21:18

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

Magpie: 4+1 Wpigeon: 4+1 LBBgull: 4+1 CBBgull: 4+1 Goldfinch: 4+1 Crow: 4+1 Starling: 1 Blackbird: 1 Hsparrow: 1 Wren: 1	Wren: 1 Swallow: 4+1 Wpigeon: 4+1 Goldfinch: 1 Pheasant: 1 Robin: 1 Collared dove: 1 Magpie: 1 Crow: 4+1 Mollard: 1	Swallow: 4+1 Wpigeon: 1 Ctit: 1 Blackbird: 1 LBBgull: 1 Peregrine: 1 Blackbird: 1 VP2	Wren: 1 Blackbird: 1 Thrush: 1
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VP4

VP3

[illegible]

Site:	Surveyors:	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
81200005	LA					
Date:	Jk					
5th July		Start 19:50	18	3/8	0	F2
		Finish 22:40	13	6/8	0	F2
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F15		Goldfinch (4)	Fly over		ST Grass	
F15		wood pigeon (3)	Fly over		" "	
F15		Goldfinch (2)	Fly over		" "	
F15		magpie (2)	Perching		hedges	
F15		Blackbird	Foraging		ST Grass	
F16		Goldfinch	Singing		hedges	
F16		wood pigeon (10)	Fly over		ST Grass	
F17		Shallow (4)+(6)	Foraging		" "	
F11		B H Gull	Fly over		" "	
F18		Shallow (8)	Foraging		" "	
F11/F18		Skylark (4)+2	Flying over/foraging		" "	
F18		C Gull	Fly over		" "	
F2		B H Gull	Fly over		" "	
F2		magpie	Singing		hedges	
F2		magpie	Singing		" "	
F2		Goldfinches (2)	Fly over		ST Grass	
F10		Buzzard	Fly over		" "	
F2		Wood pigeon (2)	Fly over		" "	
F2		Onitc (2)	Foraging		" "	
F1/F2		Blackbird	Singing		Hedge	
F1		Hen	Foraging		pond	
F1		magpie	Foraging		ST Grass	
F1		Blue tit (1)	Perching		scattered tree	
F3		Shallow (3)+4	Foraging		wet grass	
F2		Goldfinch (4)	Singing		hedge	
F3		Blackbird	Singing		hedge	
F10		magpie	Perching		lane	
F11		magpie	Fly over		ST grass	

Rabbits

F15, F16
F3, F10
F2

Barn hare F7

Site:	Surveyors:	Weather Conditions	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
07A000CW	LA					
Date:	JH					
28/07/23		Start 05:47	15	8/8	0	0
		Finish 08:32	17	8/8	0	0
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F23		W pigeon (1)	Perching		Boundary telegraph	
F23		B H Gull (3)	Fly over		ST Grass	
F23		crow	calling		hedge	
F23		Goldfinch (5)	Fly over + perch		hedge	
F23		W pigeon (6)	Fly over		ST Grass	
F15		Magpie	Fly over		"	
F15		Goldfinch (3)	Fly over		"	
F16		Goldfinch (4)	Perching		hedge	
F20		Jaeger	Fly over		ST Grass	
F19		Magpie	Fly over		"	
F19		W pigeon (2)	Fly over		"	
F19		House Martin (4)	Foraging		"	
F19		Shrike (6)	Foraging		"	
F19		Wren	Fly over		"	
F19		C Gull (2)	Fly over		"	
F19		Wren	Singing		hedge	
F19		Starling (6)	Foraging		ST Grass	
F19		Wren (4)	Foraging		"	
F19		Wren	Foraging		pond	
F19		W pigeon (2)	Fly over		ST Grass	
F15		Magpie	Foraging		"	
F15		Wren	Foraging		hedge	
F15		Goldfinch	Fly over		ST Grass	
F15/23		Shrike	Fly over		"	
F15		Linnets	Singing		hedge	
F15		Wren	Foraging		pond	
F15		Wren	Fly over		ST Grass	
F15		Shrike (4)	Foraging		Open area	

Brown hare F23, F15

Rabbit F23
F3

ASCERTA

Date:	9/8/23
Site:	Low at stokehill - slatfalls
Surveyor:	SK
Timings:	06:10 - 08:40

VP4-06:10-06:40
VP3-06:50-07:20
VP2-07:30-08:00
VP1-08:10-08:40

Sunrise:	
Sunset:	

	Start Time	Finish Time
Temperature:		
Windspeed:		
Wind Direction From:		
Cloud Cover:		
Visibility:		
Precipitation:		

NOTES:

Crow:1	W pigeon:	Crow:	Blackbird:1
Goldfinch:	Swallow:	Siskin:	Goldfinch:
W pigeon:	Dunnock:1	W pigeon:	Great tit:1
Bluehead gull:	Siskin:1	Magpie:1	W pigeon:
Robin:1	Wren:1	Goldfinch:	Swallow:
LB B gull:1	Crow:1	Starling:	LB B gull:1
Collared dove:1	Starling:	Starling:	Kestrel:1
Blackbird:1	Goldfinch:		Crow:1
Wren:1	Magpie:1		Siskin:1
Swallow:	Kestrel:1		Wren:1
Magpie:1			H. sparrow:1

VP4

VP3

VP2

[illegible]

Site: STARROCKS	Surveyors: LA JK	Weather Conditions arrise 05:39	Temp (°C)	Cloud Cover (0/0)	Rainfall	Wind (FX)
Date: 9/08/23		Start 06:08 Finish 08:52	11 14	4/8 7/8	0 0	FD FD
Transect Stop/ location	Time	Bird species (#)	Activity		Habitat	
F23		Goldfinch (2)	singing		heath	
F23		Blackbird (2)	Ringing / singing		" "	
F23		wren	singing		" "	
F23		Blackbird	Fly over		" "	
F21		wood pigeon	Fly over		5 grass	
F20		SHIT (3)	Fly over		" "	
F19		Magpie	Fly over		" "	
F19		House martin (12)	Fly over		" "	
F19		LBB 4W	Fly over		" "	
F19/F21		swallow (4)	Foraging		" "	
F19		swallow	Fly over		" "	
F19		wood pigeon (2)	Fly over		" "	
F19		Crow (3)	Fly over		" "	
F19		house martin (3)	Foraging		" "	
F19		swallow (2)	Foraging		" "	
F19		LBB 4W	Fly over		" "	
F15		swallow (1)	Foraging		" "	
F15		wood pigeon	Fly over		" "	
F14/F15/F16		Goldfinch (3)	Fly over		" "	
F16		swallow (2)	Foraging		" "	
F16		wood pigeon (20)	Fly over		" "	
F16/F17		Goldfinch	Fly over		" "	
F17		Magpie	Fly over		" "	
F17		swallow (3)	Foraging		" "	
F18		wood pigeon	Fly over		" "	
F18		swallow (2)	Fly over / Foraging		" "	
F18		house martin (1)	Foraging		" "	
F18		Robin	Picking		heath	

[illegible]

Appendix 4



Scale 1:2,000
North
0m 20 40 60 80 100m 200m

KEY:

- Site boundary
- Existing trees to be retained
- Existing hedgerow to be retained
- Existing ponds to be retained (0.2ha)

- Proposed development area
- Proposed footpaths / cycleways
- Proposed wild flower grassland (20.0ha)
- Proposed nectar rich ornamental grassland (0.5ha)

- Proposed woodland (14.5ha)
- Proposed trees
- Proposed hedges (5,000 lin m)
- Proposed orchard (0.7ha)

- Proposed ponds (SUDs areas) (1.5ha)
- Proposed marginal/ wetland planting (0.5ha)
- Proposed reed beds (2.5ha)
- Proposed scrub grassland (2.5ha)

- Proposed play area
- Proposed fitness trail equipment
- Proposed viewing point



LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
MASTERPLANNING
URBAN DESIGN

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www.randallthorp.co.uk



Land at Stakehill

Indicative Landscape proposals

Date: 13-4-23
Drawn by: DL
Checker: EF
Rev by: DL (14-04-23)
Rev checker:
QM Status: Checked
Product Status:
Issue

Drwg No: 961-06h

Scale: 1: 2,000 @ A1

RT update to say
0.87ha